

Supplementary Figures legend

FIGURE S1

Mendelian randomized analysis of immune cells and PCOS. **(A)** Scatter plots of 33 immune cells increased or reducing the risk of PCOS; **(B)** Forest plots of leave-one-out sensitivity analysis of 33 immune cells to PCOS; **(C)** Funnel plots demonstrated the absence of pleiotropy among the included SNPs.

FIGURE S2

Mendelian randomized analysis of plasma metabolites and PCOS. **(A)** Scatter plots of 51 plasma metabolites increased or reducing the risk of PCOS; **(B)** Forest plots of leave-one-out sensitivity analysis of 51 plasma metabolites to PCOS; **(C)** Funnel plots demonstrated the absence of pleiotropy among the included SNPs.

FIGURE1 S1

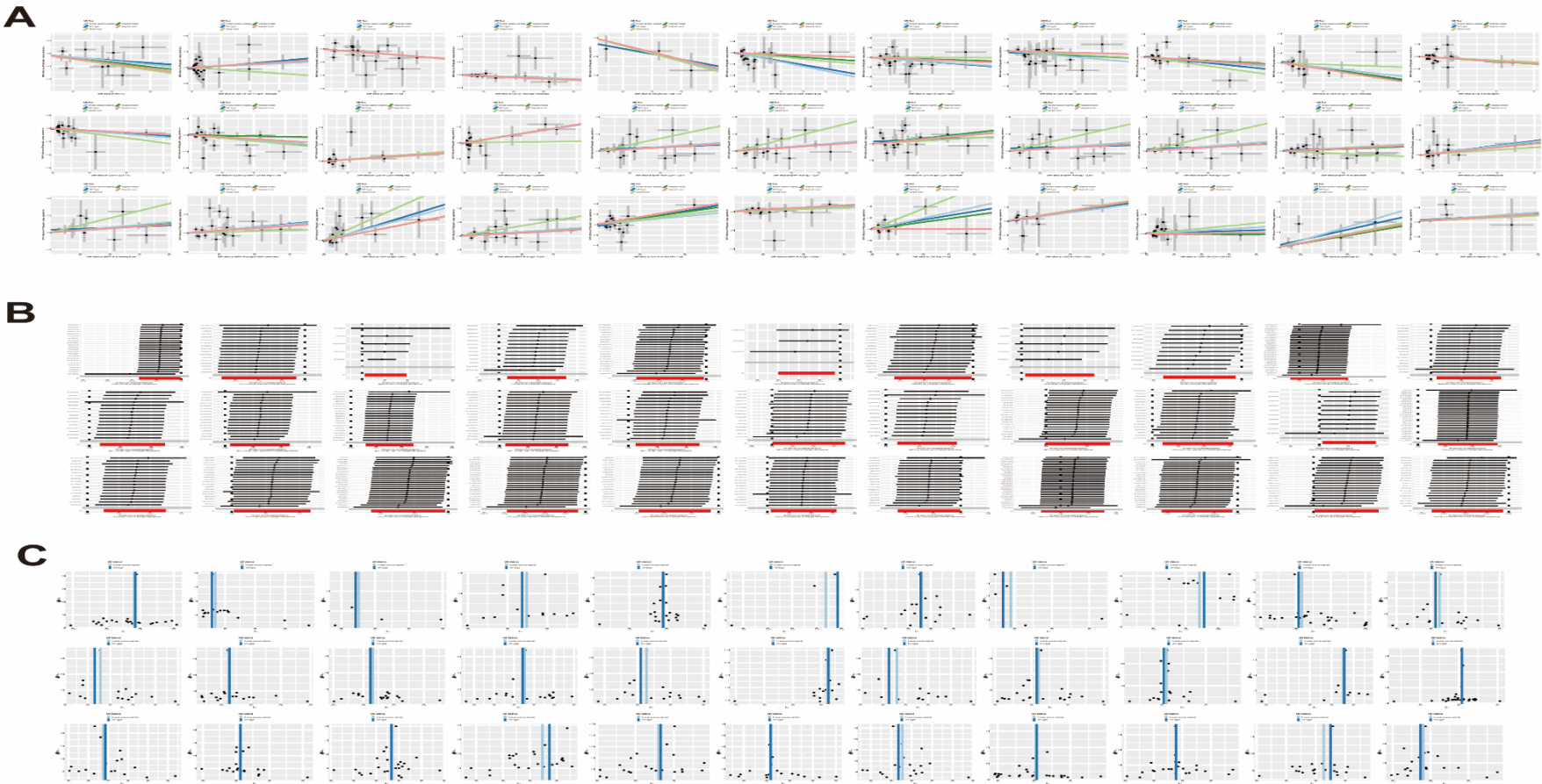


FIGURE S2

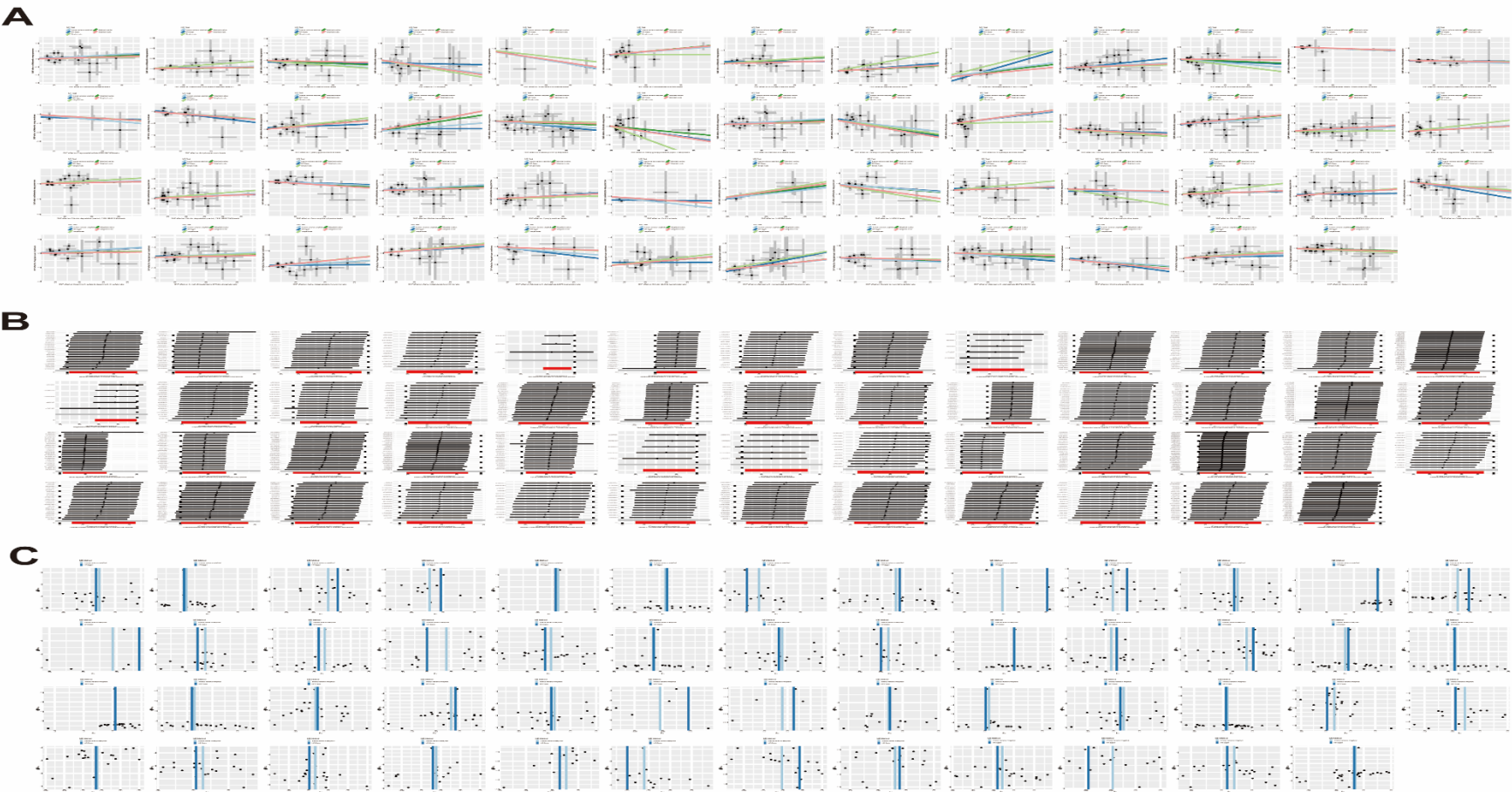


Table S1. Information on 731 immune cells

Trait	GWAS ID	GWAS Catalog	Panel	Trait type
IgD+ %B cell	ebi-a-GCST90001391	GCST90001391	B cell	Relative count
IgD+ CD38br AC	ebi-a-GCST90001392	GCST90001392	B cell	Absolute count
IgD+ CD38dim %B cell	ebi-a-GCST90001393	GCST90001393	B cell	Relative count
IgD+ CD38dim AC	ebi-a-GCST90001394	GCST90001394	B cell	Absolute count
IgD+ CD38- %B cell	ebi-a-GCST90001395	GCST90001395	B cell	Relative count
IgD+ CD38- AC	ebi-a-GCST90001396	GCST90001396	B cell	Absolute count
Unsw mem %B cell	ebi-a-GCST90001397	GCST90001397	B cell	Relative count
Unsw mem AC	ebi-a-GCST90001398	GCST90001398	B cell	Absolute count
IgD- CD27- %B cell	ebi-a-GCST90001399	GCST90001399	B cell	Relative count
IgD+ AC	ebi-a-GCST90001400	GCST90001400	B cell	Absolute count
IgD- CD27- AC	ebi-a-GCST90001401	GCST90001401	B cell	Absolute count
Sw mem %B cell	ebi-a-GCST90001402	GCST90001402	B cell	Relative count
Sw mem AC	ebi-a-GCST90001403	GCST90001403	B cell	Absolute count
PB/PC %B cell	ebi-a-GCST90001404	GCST90001404	B cell	Relative count
PB/PC AC	ebi-a-GCST90001405	GCST90001405	B cell	Absolute count
Memory B cell %B cell	ebi-a-GCST90001406	GCST90001406	B cell	Relative count
Memory B cell AC	ebi-a-GCST90001407	GCST90001407	B cell	Absolute count
Naive-mature B cell %B	ebi-a-GCST90001408	GCST90001408	B cell	Relative count
Naive-mature B cell AC	ebi-a-GCST90001409	GCST90001409	B cell	Absolute count
IgD- CD38br %B cell	ebi-a-GCST90001410	GCST90001410	B cell	Relative count
IgD+ CD24+ %B cell	ebi-a-GCST90001411	GCST90001411	B cell	Relative count
IgD+ CD24+ AC	ebi-a-GCST90001412	GCST90001412	B cell	Absolute count
IgD- CD24- %B cell	ebi-a-GCST90001413	GCST90001413	B cell	Relative count
IgD- CD24- AC	ebi-a-GCST90001414	GCST90001414	B cell	Absolute count
IgD+ CD24- %B cell	ebi-a-GCST90001415	GCST90001415	B cell	Relative count
IgD+ CD24- AC	ebi-a-GCST90001416	GCST90001416	B cell	Absolute count
CD24+ CD27+ %B cell	ebi-a-GCST90001417	GCST90001417	B cell	Relative count
CD24+ CD27+ AC	ebi-a-GCST90001418	GCST90001418	B cell	Absolute count
CD20- %B cell	ebi-a-GCST90001419	GCST90001419	B cell	Relative count
IgD- CD38br AC	ebi-a-GCST90001420	GCST90001420	B cell	Absolute count
CD20- AC	ebi-a-GCST90001421	GCST90001421	B cell	Absolute count
CD20- CD38- %B cell	ebi-a-GCST90001422	GCST90001422	B cell	Relative count
CD20- CD38- AC	ebi-a-GCST90001423	GCST90001423	B cell	Absolute count
IgD+ %Lymphocyte	ebi-a-GCST90001424	GCST90001424	B cell	Relative count
IgD- CD38br %lymphocyte	ebi-a-GCST90001425	GCST90001425	B cell	Relative count
IgD- CD38dim	ebi-a-GCST90001426	GCST90001426	B cell	Relative count
IgD- CD38- %lymphocyte	ebi-a-GCST90001427	GCST90001427	B cell	Relative count
IgD- CD38dim %B cell	ebi-a-GCST90001428	GCST90001428	B cell	Relative count
IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	GCST90001429	B cell	Relative count
IgD+ CD38dim	ebi-a-GCST90001430	GCST90001430	B cell	Relative count
IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	GCST90001431	B cell	Relative count
Unsw Mem %lymphocyte	ebi-a-GCST90001432	GCST90001432	B cell	Relative count
IgD- CD27- %lymphocyte	ebi-a-GCST90001433	GCST90001433	B cell	Relative count
Sw mem %lymphocyte	ebi-a-GCST90001434	GCST90001434	B cell	Relative count
PB/PC %lymphocyte	ebi-a-GCST90001435	GCST90001435	B cell	Relative count
Memory B cell	ebi-a-GCST90001436	GCST90001436	B cell	Relative count
Naive-mature B cell	ebi-a-GCST90001437	GCST90001437	B cell	Relative count
IgD- CD38dim AC	ebi-a-GCST90001438	GCST90001438	B cell	Absolute count
IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	GCST90001439	B cell	Relative count
IgD- CD24- %lymphocyte	ebi-a-GCST90001440	GCST90001440	B cell	Relative count
IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	GCST90001441	B cell	Relative count
CD24+ CD27+	ebi-a-GCST90001442	GCST90001442	B cell	Relative count
CD20- %lymphocyte	ebi-a-GCST90001443	GCST90001443	B cell	Relative count
CD20- CD38-	ebi-a-GCST90001444	GCST90001444	B cell	Relative count
IgD- CD38- %B cell	ebi-a-GCST90001445	GCST90001445	B cell	Relative count
IgD- CD38- AC	ebi-a-GCST90001446	GCST90001446	B cell	Absolute count
IgD+ CD38br %B cell	ebi-a-GCST90001447	GCST90001447	B cell	Relative count
CD11c+ monocyte AC	ebi-a-GCST90001448	GCST90001448	cDC	Absolute count
CD11c+ monocyte	ebi-a-GCST90001449	GCST90001449	cDC	Relative count
CD62L- monocyte AC	ebi-a-GCST90001450	GCST90001450	cDC	Absolute count
CD62L- monocyte	ebi-a-GCST90001451	GCST90001451	cDC	Relative count
CD11c+ CD62L- monocyte	ebi-a-GCST90001452	GCST90001452	cDC	Absolute count

CD11c+ CD62L- monocyte	ebi-a-GCST90001453	GCST90001453	cDC	Relative count
CD62L- HLA DR++	ebi-a-GCST90001454	GCST90001454	cDC	Absolute count
CD62L- HLA DR++	ebi-a-GCST90001455	GCST90001455	cDC	Relative count
CD11c+ HLA DR++	ebi-a-GCST90001456	GCST90001456	cDC	Absolute count
CD11c+ HLA DR++	ebi-a-GCST90001457	GCST90001457	cDC	Relative count
Myeloid DC AC	ebi-a-GCST90001458	GCST90001458	cDC	Absolute count
Myeloid DC %DC	ebi-a-GCST90001459	GCST90001459	cDC	Relative count
Plasmacytoid DC AC	ebi-a-GCST90001460	GCST90001460	cDC	Absolute count
DC AC	ebi-a-GCST90001461	GCST90001461	cDC	Absolute count
CD62L- DC AC	ebi-a-GCST90001462	GCST90001462	cDC	Absolute count
CD62L- DC %DC	ebi-a-GCST90001463	GCST90001463	cDC	Relative count
CD86+ myeloid DC AC	ebi-a-GCST90001464	GCST90001464	cDC	Absolute count
CD86+ myeloid DC %DC	ebi-a-GCST90001465	GCST90001465	cDC	Relative count
CD86+ plasmacytoid DC	ebi-a-GCST90001466	GCST90001466	cDC	Absolute count
CD86+ plasmacytoid DC	ebi-a-GCST90001467	GCST90001467	cDC	Relative count
CD62L- myeloid DC AC	ebi-a-GCST90001468	GCST90001468	cDC	Absolute count
CD62L- myeloid DC %DC	ebi-a-GCST90001469	GCST90001469	cDC	Relative count
CD62L- plasmacytoid DC	ebi-a-GCST90001470	GCST90001470	cDC	Absolute count
CD62L- plasmacytoid DC	ebi-a-GCST90001471	GCST90001471	cDC	Relative count
CD62L- CD86+ myeloid	ebi-a-GCST90001472	GCST90001472	cDC	Absolute count
CD62L- CD86+ myeloid	ebi-a-GCST90001473	GCST90001473	cDC	Relative count
Plasmacytoid DC %DC	ebi-a-GCST90001474	GCST90001474	cDC	Relative count
HLA DR++ monocyte	ebi-a-GCST90001475	GCST90001475	TBNK	Relative count
HLA DR++ monocyte	ebi-a-GCST90001476	GCST90001476	TBNK	Relative count
HLA DR++ monocyte AC	ebi-a-GCST90001477	GCST90001477	TBNK	Absolute count
CD4 Treg %CD4	ebi-a-GCST90001478	GCST90001478	Treg	Relative count
CD4 Treg %T cell	ebi-a-GCST90001479	GCST90001479	Treg	Relative count
Resting Treg AC	ebi-a-GCST90001480	GCST90001480	Treg	Absolute count
Resting Treg % CD4 Treg	ebi-a-GCST90001481	GCST90001481	Treg	Relative count
Resting Treg %CD4	ebi-a-GCST90001482	GCST90001482	Treg	Relative count
CD39+ resting Treg AC	ebi-a-GCST90001483	GCST90001483	Treg	Absolute count
CD39+ resting Treg	ebi-a-GCST90001484	GCST90001484	Treg	Relative count
CD39+ resting Treg % CD4	ebi-a-GCST90001485	GCST90001485	Treg	Relative count
Activated Treg AC	ebi-a-GCST90001486	GCST90001486	Treg	Absolute count
Activated Treg %CD4 Treg	ebi-a-GCST90001487	GCST90001487	Treg	Relative count
Activated Treg %CD4	ebi-a-GCST90001488	GCST90001488	Treg	Relative count
CD39+ activated Treg AC	ebi-a-GCST90001489	GCST90001489	Treg	Absolute count
CD39+ activated Treg	ebi-a-GCST90001490	GCST90001490	Treg	Relative count
CD39+ activated Treg	ebi-a-GCST90001491	GCST90001491	Treg	Relative count
Secreting Treg AC	ebi-a-GCST90001492	GCST90001492	Treg	Absolute count
Secreting Treg % CD4 Treg	ebi-a-GCST90001493	GCST90001493	Treg	Relative count
Secreting Treg %CD4	ebi-a-GCST90001494	GCST90001494	Treg	Relative count
CD39+ secreting Treg AC	ebi-a-GCST90001495	GCST90001495	Treg	Absolute count
CD39+ secreting Treg	ebi-a-GCST90001496	GCST90001496	Treg	Relative count
CD39+ secreting Treg	ebi-a-GCST90001497	GCST90001497	Treg	Relative count
Activated & resting Treg	ebi-a-GCST90001498	GCST90001498	Treg	Absolute count
Activated & resting Treg %	ebi-a-GCST90001499	GCST90001499	Treg	Relative count
Activated & resting Treg	ebi-a-GCST90001500	GCST90001500	Treg	Relative count
Activated & secreting Treg	ebi-a-GCST90001501	GCST90001501	Treg	Absolute count
Activated & secreting Treg	ebi-a-GCST90001502	GCST90001502	Treg	Relative count
Activated & secreting Treg	ebi-a-GCST90001503	GCST90001503	Treg	Relative count
CD25hi AC	ebi-a-GCST90001504	GCST90001504	Treg	Absolute count
CD25hi %CD4+	ebi-a-GCST90001505	GCST90001505	Treg	Relative count
CD25hi %T cell	ebi-a-GCST90001506	GCST90001506	Treg	Relative count
CD25hi CD45RA+ CD4	ebi-a-GCST90001507	GCST90001507	Treg	Absolute count
CD25hi CD45RA+ CD4	ebi-a-GCST90001508	GCST90001508	Treg	Relative count
CD25hi CD45RA+ CD4	ebi-a-GCST90001509	GCST90001509	Treg	Relative count
CD25hi CD45RA- CD4 not	ebi-a-GCST90001510	GCST90001510	Treg	Absolute count
CD25hi CD45RA- CD4 not	ebi-a-GCST90001511	GCST90001511	Treg	Relative count
CD25hi CD45RA- CD4 not	ebi-a-GCST90001512	GCST90001512	Treg	Relative count
CD4 Treg AC	ebi-a-GCST90001513	GCST90001513	Treg	Absolute count
HSC AC	ebi-a-GCST90001514	GCST90001514	Myeloid cell	Absolute count

Im MDSC AC	ebi-a-GCST90001515	GCST90001515	Myeloid cell	Absolute count
Im MDSC %CD33dim HLA DR- CD66b-	ebi-a-GCST90001516	GCST90001516	Myeloid cell	Relative count
CD33br HLA DR+ AC	ebi-a-GCST90001517	GCST90001517	Myeloid cell	Absolute count
CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	GCST90001518	Myeloid cell	Absolute count
CD33br HLA DR+ CD14- %CD33br HLA DR+ CD33br HLA DR+ CD14dim AC	ebi-a-GCST90001519	GCST90001519	Myeloid cell	Relative count
CD33br HLA DR+ CD14dim AC	ebi-a-GCST90001520	GCST90001520	Myeloid cell	Absolute count
CD33br HLA DR+ CD14dim %CD33br HLA	ebi-a-GCST90001521	GCST90001521	Myeloid cell	Relative count
CD33- HLA DR- AC	ebi-a-GCST90001522	GCST90001522	Myeloid cell	Absolute count
CD33- HLA DR+ AC	ebi-a-GCST90001523	GCST90001523	Myeloid cell	Absolute count
Gr MDSC AC	ebi-a-GCST90001524	GCST90001524	Myeloid cell	Absolute count
CD33dim HLA DR+ CD11b+ AC	ebi-a-GCST90001525	GCST90001525	Myeloid cell	Absolute count
CD33dim HLA DR+ CD11b+ %CD33dim HLA	ebi-a-GCST90001526	GCST90001526	Myeloid cell	Relative count
CD33dim HLA DR+ CD11b- AC	ebi-a-GCST90001527	GCST90001527	Myeloid cell	Absolute count
CD33dim HLA DR+ CD11b- %CD33dim HLA	ebi-a-GCST90001528	GCST90001528	Myeloid cell	Relative count
CD66b++ myeloid cell AC	ebi-a-GCST90001529	GCST90001529	Myeloid cell	Absolute count
Mo MDSC AC	ebi-a-GCST90001530	GCST90001530	Myeloid cell	Absolute count
CD33dim HLA DR- AC	ebi-a-GCST90001531	GCST90001531	Myeloid cell	Absolute count
Basophil AC	ebi-a-GCST90001532	GCST90001532	Myeloid cell	Absolute count
Basophil %CD33dim HLA DR- CD66b-	ebi-a-GCST90001533	GCST90001533	Myeloid cell	Relative count
CD45RA- CD4+ AC	ebi-a-GCST90001534	GCST90001534	Maturation stages of T cell	Absolute count
CD45RA- CD4+ %CD4+	ebi-a-GCST90001535	GCST90001535	Maturation stages of T cell	Relative count
CD45RA- CD4+ %T cell	ebi-a-GCST90001536	GCST90001536	Maturation stages of T cell	Relative count
CM CD4+ AC	ebi-a-GCST90001537	GCST90001537	Maturation stages of T cell	Absolute count
CM CD4+ %CD4+	ebi-a-GCST90001538	GCST90001538	Maturation stages of T cell	Relative count

CM CD4+ %T cell	ebi-a-GCST90001539	GCST90001539	Matura tion stages of T cell Matura tion	Relative count
Naive CD4+ AC	ebi-a-GCST90001540	GCST90001540	stages of T cell Matura tion	Absolute count
Naive CD4+ %CD4+	ebi-a-GCST90001541	GCST90001541	stages of T cell Matura tion	Relative count
EM CD4+ AC	ebi-a-GCST90001542	GCST90001542	stages of T cell Matura tion	Absolute count
EM CD4+ %CD4+	ebi-a-GCST90001543	GCST90001543	stages of T cell Matura tion	Relative count
EM CD4+ %T cell	ebi-a-GCST90001544	GCST90001544	stages of T cell Matura tion	Relative count
TD CD4+ AC	ebi-a-GCST90001545	GCST90001545	stages of T cell Matura tion	Absolute count
TD CD4+ %CD4+	ebi-a-GCST90001546	GCST90001546	stages of T cell Matura tion	Relative count
TD CD4+ %T cell	ebi-a-GCST90001547	GCST90001547	stages of T cell Matura tion	Relative count
CM CD8br AC	ebi-a-GCST90001548	GCST90001548	stages of T cell Matura tion	Absolute count
CM CD8br %CD8br	ebi-a-GCST90001549	GCST90001549	stages of T cell Matura tion	Relative count
CM CD8br %T cell	ebi-a-GCST90001550	GCST90001550	stages of T cell	Relative count

Naive CD8br AC	ebi-a-GCST90001551	GCST90001551	Matura tion stages of T cell Matura tion	Absolute count
Naive CD8br %CD8br	ebi-a-GCST90001552	GCST90001552	stages of T cell Matura tion	Relative count
Naive CD8br %T cell	ebi-a-GCST90001553	GCST90001553	stages of T cell Matura tion	Relative count
EM CD8br AC	ebi-a-GCST90001554	GCST90001554	stages of T cell Matura tion	Absolute count
EM CD8br %CD8br	ebi-a-GCST90001555	GCST90001555	stages of T cell Matura tion	Relative count
EM CD8br %T cell	ebi-a-GCST90001556	GCST90001556	stages of T cell Matura tion	Relative count
TD CD8br AC	ebi-a-GCST90001557	GCST90001557	stages of T cell Matura tion	Absolute count
TD CD8br %CD8br	ebi-a-GCST90001558	GCST90001558	stages of T cell Matura tion	Relative count
TD CD8br %T cell	ebi-a-GCST90001559	GCST90001559	stages of T cell Matura tion	Relative count
CD45RA+ CD8br AC	ebi-a-GCST90001560	GCST90001560	stages of T cell Matura tion	Absolute count
CD45RA+ CD8br %CD8br	ebi-a-GCST90001561	GCST90001561	stages of T cell Matura tion	Relative count
CD45RA+ CD8br %T cell	ebi-a-GCST90001562	GCST90001562	stages of T cell	Relative count

CM DN (CD4-CD8-) AC	ebi-a-GCST90001563	GCST90001563	Matura tion stages of T cell Matura tion	Absolute count
CM DN (CD4-CD8-) %DN	ebi-a-GCST90001564	GCST90001564	stages of T cell Matura tion	Relative count
CM DN (CD4-CD8-) %T cell	ebi-a-GCST90001565	GCST90001565	stages of T cell Matura tion	Relative count
Naive DN (CD4-CD8-) AC	ebi-a-GCST90001566	GCST90001566	stages of T cell Matura tion	Absolute count
Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	GCST90001567	stages of T cell Matura tion	Relative count
Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	GCST90001568	stages of T cell Matura tion	Relative count
EM DN (CD4-CD8-) AC	ebi-a-GCST90001569	GCST90001569	stages of T cell Matura tion	Absolute count
EM DN (CD4-CD8-) %DN	ebi-a-GCST90001570	GCST90001570	stages of T cell Matura tion	Relative count
EM DN (CD4-CD8-) %T cell	ebi-a-GCST90001571	GCST90001571	stages of T cell Matura tion	Relative count
TD DN (CD4-CD8-) AC	ebi-a-GCST90001572	GCST90001572	stages of T cell Matura tion	Absolute count
TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	GCST90001573	stages of T cell Matura tion	Relative count
TD DN (CD4-CD8-) %T cell	ebi-a-GCST90001574	GCST90001574	stages of T cell	Relative count

Naive CD4+ %T cell	ebi-a-GCST90001575	GCST90001575	Maturation stages of T cell	Relative count
Transitional %B cell	ebi-a-GCST90001576	GCST90001576	B cell	Relative count
Transitional AC	ebi-a-GCST90001577	GCST90001577	B cell	Absolute count
Transitional %lymphocyte	ebi-a-GCST90001578	GCST90001578	B cell	Relative count
CD14- CD16+ monocyte AC	ebi-a-GCST90001579	GCST90001579	Monocyte	Absolute count
CD14+ CD16+ monocyte AC	ebi-a-GCST90001580	GCST90001580	Monocyte	Absolute count
CD14- CD16- AC	ebi-a-GCST90001581	GCST90001581	Monocyte	Absolute count
CD14+ CD16- monocyte AC	ebi-a-GCST90001582	GCST90001582	Monocyte	Absolute count
Monocyte AC	ebi-a-GCST90001583	GCST90001583	Monocyte	Absolute count
CD14- CD16+ monocyte %monocyte	ebi-a-GCST90001584	GCST90001584	Monocyte	Relative count
CD14+ CD16+ monocyte %monocyte	ebi-a-GCST90001585	GCST90001585	Monocyte	Relative count
CD14+ CD16- monocyte %monocyte	ebi-a-GCST90001586	GCST90001586	Monocyte	Relative count
CD16+ monocyte %monocyte	ebi-a-GCST90001587	GCST90001587	Monocyte	Relative count
T/B	ebi-a-GCST90001588	GCST90001588	TBNK	Relative count
CD4/CD8br	ebi-a-GCST90001589	GCST90001589	TBNK	Relative count
CD4+ AC	ebi-a-GCST90001590	GCST90001590	TBNK	Absolute count
CD4+ %T cell	ebi-a-GCST90001591	GCST90001591	TBNK	Relative count
CD8br AC	ebi-a-GCST90001592	GCST90001592	TBNK	Absolute count
CD8br %T cell	ebi-a-GCST90001593	GCST90001593	TBNK	Relative count
DP (CD4+CD8+) AC	ebi-a-GCST90001594	GCST90001594	TBNK	Absolute count
DP (CD4+CD8+) %T cell	ebi-a-GCST90001595	GCST90001595	TBNK	Relative count
CD8dim AC	ebi-a-GCST90001596	GCST90001596	TBNK	Absolute count
CD8dim %T cell	ebi-a-GCST90001597	GCST90001597	TBNK	Relative count
DN (CD4-CD8-) AC	ebi-a-GCST90001598	GCST90001598	TBNK	Absolute count
DN (CD4-CD8-) %T cell	ebi-a-GCST90001599	GCST90001599	TBNK	Relative count
Leukocyte AC	ebi-a-GCST90001600	GCST90001600	TBNK	Absolute count
Lymphocyte AC	ebi-a-GCST90001601	GCST90001601	TBNK	Absolute count
Lymphocyte %leukocyte	ebi-a-GCST90001602	GCST90001602	TBNK	Relative count
T cell AC	ebi-a-GCST90001603	GCST90001603	TBNK	Absolute count
T cell %lymphocyte	ebi-a-GCST90001604	GCST90001604	TBNK	Relative count
T cell %leukocyte	ebi-a-GCST90001605	GCST90001605	TBNK	Relative count
CD4+ %leukocyte	ebi-a-GCST90001606	GCST90001606	TBNK	Relative count
CD8br %leukocyte	ebi-a-GCST90001607	GCST90001607	TBNK	Relative count
DP (CD4+CD8+)	ebi-a-GCST90001608	GCST90001608	TBNK	Relative count
CD4+ CD8dim AC	ebi-a-GCST90001609	GCST90001609	TBNK	Absolute count
CD4+ CD8dim	ebi-a-GCST90001610	GCST90001610	TBNK	Relative count
CD4+ CD8dim %leukocyte	ebi-a-GCST90001611	GCST90001611	TBNK	Relative count
CD8dim %leukocyte	ebi-a-GCST90001612	GCST90001612	TBNK	Relative count
DN (CD4-CD8-)	ebi-a-GCST90001613	GCST90001613	TBNK	Relative count
CD8br and CD8dim	ebi-a-GCST90001614	GCST90001614	TBNK	Relative count
TCRgd AC	ebi-a-GCST90001615	GCST90001615	TBNK	Absolute count
TCRgd %T cell	ebi-a-GCST90001616	GCST90001616	TBNK	Relative count
TCRgd %lymphocyte	ebi-a-GCST90001617	GCST90001617	TBNK	Relative count
HLA DR+ T cell AC	ebi-a-GCST90001618	GCST90001618	TBNK	Absolute count
HLA DR+ T cell%T cell	ebi-a-GCST90001619	GCST90001619	TBNK	Relative count
HLA DR+ T	ebi-a-GCST90001620	GCST90001620	TBNK	Relative count
NKT AC	ebi-a-GCST90001621	GCST90001621	TBNK	Absolute count
NKT %T cell	ebi-a-GCST90001622	GCST90001622	TBNK	Relative count
NKT %lymphocyte	ebi-a-GCST90001623	GCST90001623	TBNK	Relative count
HLA DR+ CD4+ AC	ebi-a-GCST90001624	GCST90001624	TBNK	Absolute count
HLA DR+ CD4+ %T cell	ebi-a-GCST90001625	GCST90001625	TBNK	Relative count

HLA DR+ CD4+	ebi-a-GCST90001626	GCST90001626	TBNK	Relative count
HLA DR+ CD8br AC	ebi-a-GCST90001627	GCST90001627	TBNK	Absolute count
HLA DR+ CD8br %T cell	ebi-a-GCST90001628	GCST90001628	TBNK	Relative count
HLA DR+ CD8br	ebi-a-GCST90001629	GCST90001629	TBNK	Relative count
CD8br NKT AC	ebi-a-GCST90001630	GCST90001630	TBNK	Absolute count
CD8br NKT %T cell	ebi-a-GCST90001631	GCST90001631	TBNK	Relative count
CD8br NKT %lymphocyte	ebi-a-GCST90001632	GCST90001632	TBNK	Relative count
CD8dim NKT AC	ebi-a-GCST90001633	GCST90001633	TBNK	Absolute count
CD8dim NKT %T cell	ebi-a-GCST90001634	GCST90001634	TBNK	Relative count
CD8dim NKT	ebi-a-GCST90001635	GCST90001635	TBNK	Relative count
DN (CD4-CD8-) NKT AC	ebi-a-GCST90001636	GCST90001636	TBNK	Absolute count
DN (CD4-CD8-) NKT %T	ebi-a-GCST90001637	GCST90001637	TBNK	Relative count
DN (CD4-CD8-) NKT	ebi-a-GCST90001638	GCST90001638	TBNK	Relative count
CD3- lymphocyte AC	ebi-a-GCST90001639	GCST90001639	TBNK	Absolute count
CD3- lymphocyte	ebi-a-GCST90001640	GCST90001640	TBNK	Relative count
CD3- lymphocyte	ebi-a-GCST90001641	GCST90001641	TBNK	Relative count
B cell AC	ebi-a-GCST90001642	GCST90001642	TBNK	Absolute count
B cell % CD3- lymphocyte	ebi-a-GCST90001643	GCST90001643	TBNK	Relative count
B cell %lymphocyte	ebi-a-GCST90001644	GCST90001644	TBNK	Relative count
NK AC	ebi-a-GCST90001645	GCST90001645	TBNK	Absolute count
NK %CD3- lymphocyte	ebi-a-GCST90001646	GCST90001646	TBNK	Relative count
NK %lymphocyte	ebi-a-GCST90001647	GCST90001647	TBNK	Relative count
HLA DR+ NK AC	ebi-a-GCST90001648	GCST90001648	TBNK	Absolute count
HLA DR+ NK %NK	ebi-a-GCST90001649	GCST90001649	TBNK	Relative count
HLA DR+ NK %CD3-	ebi-a-GCST90001650	GCST90001650	TBNK	Relative count
Granulocyte AC	ebi-a-GCST90001651	GCST90001651	TBNK	Absolute count
Granulocyte %leukocyte	ebi-a-GCST90001652	GCST90001652	TBNK	Relative count
CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	GCST90001653	Treg	Relative count
CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	GCST90001654	Treg	Absolute count
CD28+ DN (CD4-CD8-)	ebi-a-GCST90001655	GCST90001655	Treg	Relative count
CD28+ DN (CD4-CD8-)	ebi-a-GCST90001656	GCST90001656	Treg	Relative count
CD28+ DN (CD4-CD8-)	ebi-a-GCST90001657	GCST90001657	Treg	Absolute count
CD39+ CD4+ %T cell	ebi-a-GCST90001658	GCST90001658	Treg	Relative count
CD39+ CD4+ %CD4+	ebi-a-GCST90001659	GCST90001659	Treg	Relative count
CD39+ CD4+ AC	ebi-a-GCST90001660	GCST90001660	Treg	Absolute count
CD28- CD8dim %T cell	ebi-a-GCST90001661	GCST90001661	Treg	Relative count
CD28- CD8dim %CD8dim	ebi-a-GCST90001662	GCST90001662	Treg	Relative count
CD28- CD8dim AC	ebi-a-GCST90001663	GCST90001663	Treg	Absolute count
CD28+ CD45RA+ CD8dim	ebi-a-GCST90001664	GCST90001664	Treg	Relative count
CD28+ CD45RA+ CD8dim	ebi-a-GCST90001665	GCST90001665	Treg	Relative count
CD28+ CD45RA+ CD8dim	ebi-a-GCST90001666	GCST90001666	Treg	Absolute count
CD28+ CD45RA- CD8dim	ebi-a-GCST90001667	GCST90001667	Treg	Relative count
CD28+ CD45RA- CD8dim	ebi-a-GCST90001668	GCST90001668	Treg	Relative count
CD28+ CD45RA- CD8dim	ebi-a-GCST90001669	GCST90001669	Treg	Absolute count
CD39+ CD8br %T cell	ebi-a-GCST90001670	GCST90001670	Treg	Relative count
CD39+ CD8br %CD8br	ebi-a-GCST90001671	GCST90001671	Treg	Relative count
CD39+ CD8br AC	ebi-a-GCST90001672	GCST90001672	Treg	Absolute count
CD28- CD127- CD25++	ebi-a-GCST90001673	GCST90001673	Treg	Relative count
CD28- CD127- CD25++	ebi-a-GCST90001674	GCST90001674	Treg	Relative count
CD28- CD127- CD25++	ebi-a-GCST90001675	GCST90001675	Treg	Absolute count
CD28- CD25++ CD8br %T	ebi-a-GCST90001676	GCST90001676	Treg	Relative count
CD28- CD25++ CD8br	ebi-a-GCST90001677	GCST90001677	Treg	Relative count
CD28- CD25++ CD8br AC	ebi-a-GCST90001678	GCST90001678	Treg	Absolute count
CD25++ CD8br %T cell	ebi-a-GCST90001679	GCST90001679	Treg	Relative count
CD25++ CD8br %CD8br	ebi-a-GCST90001680	GCST90001680	Treg	Relative count
CD25++ CD8br AC	ebi-a-GCST90001681	GCST90001681	Treg	Absolute count
CD127- CD8br %T cell	ebi-a-GCST90001682	GCST90001682	Treg	Relative count
CD127- CD8br %CD8br	ebi-a-GCST90001683	GCST90001683	Treg	Relative count
CD127- CD8br AC	ebi-a-GCST90001684	GCST90001684	Treg	Absolute count
CD28- CD8br %T cell	ebi-a-GCST90001685	GCST90001685	Treg	Relative count
CD28- CD8br %CD8br	ebi-a-GCST90001686	GCST90001686	Treg	Relative count
CD28- CD8br AC	ebi-a-GCST90001687	GCST90001687	Treg	Absolute count
CD28+ CD45RA+ CD8br	ebi-a-GCST90001688	GCST90001688	Treg	Relative count
CD28+ CD45RA+ CD8br	ebi-a-GCST90001689	GCST90001689	Treg	Relative count

CD28+ CD45RA+ CD8br	ebi-a-GCST90001690	GCST90001690	Treg	Absolute count
CD28+ CD45RA- CD8br	ebi-a-GCST90001691	GCST90001691	Treg	Relative count
CD28+ CD45RA- CD8br	ebi-a-GCST90001692	GCST90001692	Treg	Relative count
CD28+ CD45RA- CD8br	ebi-a-GCST90001693	GCST90001693	Treg	Absolute count
CD28- DN (CD4-CD8-)	ebi-a-GCST90001694	GCST90001694	Treg	Relative count
CD45RA- CD28- CD8br	ebi-a-GCST90001695	GCST90001695	Treg	Absolute count
CD45RA- CD28- CD8br	ebi-a-GCST90001696	GCST90001696	Treg	Relative count
CD45RA- CD28- CD8br	ebi-a-GCST90001697	GCST90001697	Treg	Relative count
CD45RA+ CD28- CD8br	ebi-a-GCST90001698	GCST90001698	Treg	Absolute count
CD45RA+ CD28- CD8br	ebi-a-GCST90001699	GCST90001699	Treg	Relative count
CD45RA+ CD28- CD8br	ebi-a-GCST90001700	GCST90001700	Treg	Relative count
BAFF-R on CD20- CD38-	ebi-a-GCST90001701	GCST90001701	B cell	MFI
BAFF-R on CD24+ CD27+	ebi-a-GCST90001702	GCST90001702	B cell	MFI
BAFF-R on IgD+ CD24+	ebi-a-GCST90001703	GCST90001703	B cell	MFI
BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	GCST90001704	B cell	MFI
BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	GCST90001705	B cell	MFI
BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	GCST90001706	B cell	MFI
BAFF-R on IgD+ CD38-	ebi-a-GCST90001707	GCST90001707	B cell	MFI
BAFF-R on IgD+ CD38br	ebi-a-GCST90001708	GCST90001708	B cell	MFI
BAFF-R on IgD+ CD38dim	ebi-a-GCST90001709	GCST90001709	B cell	MFI
BAFF-R on IgD- CD24-	ebi-a-GCST90001710	GCST90001710	B cell	MFI
BAFF-R on IgD- CD27-	ebi-a-GCST90001711	GCST90001711	B cell	MFI
BAFF-R on IgD- CD38-	ebi-a-GCST90001712	GCST90001712	B cell	MFI
BAFF-R on IgD- CD38br	ebi-a-GCST90001713	GCST90001713	B cell	MFI
BAFF-R on IgD- CD38dim	ebi-a-GCST90001714	GCST90001714	B cell	MFI
BAFF-R on memory B cell	ebi-a-GCST90001715	GCST90001715	B cell	MFI
BAFF-R on naive-mature B	ebi-a-GCST90001716	GCST90001716	B cell	MFI
BAFF-R on unsw mem	ebi-a-GCST90001717	GCST90001717	B cell	MFI
BAFF-R on sw mem	ebi-a-GCST90001718	GCST90001718	B cell	MFI
BAFF-R on IgD+	ebi-a-GCST90001719	GCST90001719	B cell	MFI
BAFF-R on transitional	ebi-a-GCST90001720	GCST90001720	B cell	MFI
CD19 on CD20-	ebi-a-GCST90001721	GCST90001721	B cell	MFI
CD19 on CD20- CD38-	ebi-a-GCST90001722	GCST90001722	B cell	MFI
CD19 on CD24+ CD27+	ebi-a-GCST90001723	GCST90001723	B cell	MFI
CD19 on IgD+ CD24+	ebi-a-GCST90001724	GCST90001724	B cell	MFI
CD19 on IgD+ CD24-	ebi-a-GCST90001725	GCST90001725	B cell	MFI
CD19 on IgD+ CD38-	ebi-a-GCST90001726	GCST90001726	B cell	MFI
CD19 on IgD+ CD38-	ebi-a-GCST90001727	GCST90001727	B cell	MFI
CD19 on IgD+ CD38- unsw	ebi-a-GCST90001728	GCST90001728	B cell	MFI
CD19 on IgD+ CD38br	ebi-a-GCST90001729	GCST90001729	B cell	MFI
CD19 on IgD+ CD38dim	ebi-a-GCST90001730	GCST90001730	B cell	MFI
CD19 on IgD- CD24-	ebi-a-GCST90001731	GCST90001731	B cell	MFI
CD19 on IgD- CD27-	ebi-a-GCST90001732	GCST90001732	B cell	MFI
CD19 on IgD- CD38-	ebi-a-GCST90001733	GCST90001733	B cell	MFI
CD19 on IgD- CD38br	ebi-a-GCST90001734	GCST90001734	B cell	MFI
CD19 on IgD- CD38dim	ebi-a-GCST90001735	GCST90001735	B cell	MFI
CD19 on memory B cell	ebi-a-GCST90001736	GCST90001736	B cell	MFI
CD19 on naive-mature B	ebi-a-GCST90001737	GCST90001737	B cell	MFI
CD19 on unsw mem	ebi-a-GCST90001738	GCST90001738	B cell	MFI
CD19 on PB/PC	ebi-a-GCST90001739	GCST90001739	B cell	MFI
CD19 on sw mem	ebi-a-GCST90001740	GCST90001740	B cell	MFI
CD19 on IgD+	ebi-a-GCST90001741	GCST90001741	B cell	MFI
CD19 on transitional	ebi-a-GCST90001742	GCST90001742	B cell	MFI
CD20 on B cell	ebi-a-GCST90001743	GCST90001743	B cell	MFI
CD20 on CD20- CD38-	ebi-a-GCST90001744	GCST90001744	B cell	MFI
CD20 on CD24+ CD27+	ebi-a-GCST90001745	GCST90001745	B cell	MFI
CD20 on IgD+ CD24+	ebi-a-GCST90001746	GCST90001746	B cell	MFI
CD20 on IgD+ CD24-	ebi-a-GCST90001747	GCST90001747	B cell	MFI
CD20 on IgD+ CD38-	ebi-a-GCST90001748	GCST90001748	B cell	MFI
CD20 on IgD+ CD38-	ebi-a-GCST90001749	GCST90001749	B cell	MFI
CD20 on IgD+ CD38- unsw	ebi-a-GCST90001750	GCST90001750	B cell	MFI
CD20 on IgD+ CD38br	ebi-a-GCST90001751	GCST90001751	B cell	MFI
CD20 on IgD+ CD38dim	ebi-a-GCST90001752	GCST90001752	B cell	MFI
CD20 on IgD- CD24-	ebi-a-GCST90001753	GCST90001753	B cell	MFI

CD20 on IgD- CD27-	ebi-a-GCST90001754	GCST90001754	B cell	MFI
CD20 on IgD- CD38-	ebi-a-GCST90001755	GCST90001755	B cell	MFI
CD20 on IgD- CD38br	ebi-a-GCST90001756	GCST90001756	B cell	MFI
CD20 on IgD- CD38dim	ebi-a-GCST90001757	GCST90001757	B cell	MFI
CD20 on memory B cell	ebi-a-GCST90001758	GCST90001758	B cell	MFI
CD20 on naive-mature B	ebi-a-GCST90001759	GCST90001759	B cell	MFI
CD20 on unsw mem	ebi-a-GCST90001760	GCST90001760	B cell	MFI
CD20 on sw mem	ebi-a-GCST90001761	GCST90001761	B cell	MFI
CD20 on IgD+	ebi-a-GCST90001762	GCST90001762	B cell	MFI
CD20 on transitional	ebi-a-GCST90001763	GCST90001763	B cell	MFI
CD24 on CD24+ CD27+	ebi-a-GCST90001764	GCST90001764	B cell	MFI
CD24 on IgD+ CD24+	ebi-a-GCST90001765	GCST90001765	B cell	MFI
CD24 on IgD+ CD38-	ebi-a-GCST90001766	GCST90001766	B cell	MFI
CD24 on IgD+ CD38- unsw	ebi-a-GCST90001767	GCST90001767	B cell	MFI
CD24 on IgD+ CD38br	ebi-a-GCST90001768	GCST90001768	B cell	MFI
CD24 on IgD- CD38-	ebi-a-GCST90001769	GCST90001769	B cell	MFI
CD24 on IgD- CD38dim	ebi-a-GCST90001770	GCST90001770	B cell	MFI
CD24 on memory B cell	ebi-a-GCST90001771	GCST90001771	B cell	MFI
CD24 on unsw mem	ebi-a-GCST90001772	GCST90001772	B cell	MFI
CD24 on sw mem	ebi-a-GCST90001773	GCST90001773	B cell	MFI
CD24 on transitional	ebi-a-GCST90001774	GCST90001774	B cell	MFI
CD25 on B cell	ebi-a-GCST90001775	GCST90001775	B cell	MFI
CD25 on CD20- CD38-	ebi-a-GCST90001776	GCST90001776	B cell	MFI
CD25 on CD24+ CD27+	ebi-a-GCST90001777	GCST90001777	B cell	MFI
CD25 on IgD+ CD24+	ebi-a-GCST90001778	GCST90001778	B cell	MFI
CD25 on IgD+ CD24-	ebi-a-GCST90001779	GCST90001779	B cell	MFI
CD25 on IgD+ CD38-	ebi-a-GCST90001780	GCST90001780	B cell	MFI
CD25 on IgD+ CD38-	ebi-a-GCST90001781	GCST90001781	B cell	MFI
CD25 on IgD+ CD38- unsw	ebi-a-GCST90001782	GCST90001782	B cell	MFI
CD25 on IgD+ CD38br	ebi-a-GCST90001783	GCST90001783	B cell	MFI
CD25 on IgD+ CD38dim	ebi-a-GCST90001784	GCST90001784	B cell	MFI
CD25 on IgD- CD24-	ebi-a-GCST90001785	GCST90001785	B cell	MFI
CD25 on IgD- CD27-	ebi-a-GCST90001786	GCST90001786	B cell	MFI
CD25 on IgD- CD38-	ebi-a-GCST90001787	GCST90001787	B cell	MFI
CD25 on IgD- CD38br	ebi-a-GCST90001788	GCST90001788	B cell	MFI
CD25 on IgD- CD38dim	ebi-a-GCST90001789	GCST90001789	B cell	MFI
CD25 on memory B cell	ebi-a-GCST90001790	GCST90001790	B cell	MFI
CD25 on naive-mature B	ebi-a-GCST90001791	GCST90001791	B cell	MFI
CD25 on unsw mem	ebi-a-GCST90001792	GCST90001792	B cell	MFI
CD25 on sw mem	ebi-a-GCST90001793	GCST90001793	B cell	MFI
CD25 on IgD+	ebi-a-GCST90001794	GCST90001794	B cell	MFI
CD25 on transitional	ebi-a-GCST90001795	GCST90001795	B cell	MFI
CD27 on CD20-	ebi-a-GCST90001796	GCST90001796	B cell	MFI
CD27 on CD20- CD38-	ebi-a-GCST90001797	GCST90001797	B cell	MFI
CD27 on CD24+ CD27+	ebi-a-GCST90001798	GCST90001798	B cell	MFI
CD27 on T cell	ebi-a-GCST90001799	GCST90001799	B cell	MFI
CD27 on IgD+ CD24+	ebi-a-GCST90001800	GCST90001800	B cell	MFI
CD27 on IgD+ CD38- unsw	ebi-a-GCST90001801	GCST90001801	B cell	MFI
CD27 on IgD- CD38-	ebi-a-GCST90001802	GCST90001802	B cell	MFI
CD27 on IgD- CD38br	ebi-a-GCST90001803	GCST90001803	B cell	MFI
CD27 on IgD- CD38dim	ebi-a-GCST90001804	GCST90001804	B cell	MFI
CD27 on memory B cell	ebi-a-GCST90001805	GCST90001805	B cell	MFI
CD27 on unsw mem	ebi-a-GCST90001806	GCST90001806	B cell	MFI
CD27 on PB/PC	ebi-a-GCST90001807	GCST90001807	B cell	MFI
CD27 on sw mem	ebi-a-GCST90001808	GCST90001808	B cell	MFI
CD38 on CD20-	ebi-a-GCST90001809	GCST90001809	B cell	MFI
CD38 on CD3- CD19-	ebi-a-GCST90001810	GCST90001810	B cell	MFI
CD38 on IgD+ CD24-	ebi-a-GCST90001811	GCST90001811	B cell	MFI
CD38 on IgD+ CD38br	ebi-a-GCST90001812	GCST90001812	B cell	MFI
CD38 on IgD+ CD38dim	ebi-a-GCST90001813	GCST90001813	B cell	MFI
CD38 on IgD- CD38br	ebi-a-GCST90001814	GCST90001814	B cell	MFI
CD38 on IgD- CD38dim	ebi-a-GCST90001815	GCST90001815	B cell	MFI
CD38 on naive-mature B	ebi-a-GCST90001816	GCST90001816	B cell	MFI
CD38 on PB/PC	ebi-a-GCST90001817	GCST90001817	B cell	MFI

CD38 on IgD+	ebi-a-GCST90001818	GCST90001818	B cell	MFI
CD38 on transitional	ebi-a-GCST90001819	GCST90001819	B cell	MFI
IgD on IgD+ CD24+	ebi-a-GCST90001820	GCST90001820	B cell	MFI
IgD on IgD+ CD24-	ebi-a-GCST90001821	GCST90001821	B cell	MFI
IgD on IgD+ CD38-	ebi-a-GCST90001822	GCST90001822	B cell	MFI
IgD on IgD+ CD38- unsw	ebi-a-GCST90001823	GCST90001823	B cell	MFI
IgD on IgD+ CD38br	ebi-a-GCST90001824	GCST90001824	B cell	MFI
IgD on IgD+ CD38dim	ebi-a-GCST90001825	GCST90001825	B cell	MFI
IgD on unsw mem	ebi-a-GCST90001826	GCST90001826	B cell	MFI
IgD on IgD+	ebi-a-GCST90001827	GCST90001827	B cell	MFI
IgD on transitional	ebi-a-GCST90001828	GCST90001828	B cell	MFI
BAFF-R on B cell	ebi-a-GCST90001829	GCST90001829	B cell	MFI
BAFF-R on CD20-	ebi-a-GCST90001830	GCST90001830	B cell	MFI
CD62L on CD62L+	ebi-a-GCST90001831	GCST90001831	cDC	MFI
CD62L on CD62L+	ebi-a-GCST90001832	GCST90001832	cDC	MFI
CD62L on CD62L+ DC	ebi-a-GCST90001833	GCST90001833	cDC	MFI
CD62L on monocyte	ebi-a-GCST90001834	GCST90001834	cDC	MFI
CD62L on granulocyte	ebi-a-GCST90001835	GCST90001835	cDC	MFI
CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	GCST90001836	Myeloid cell	MFI
CD66b on Gr MDSC	ebi-a-GCST90001837	GCST90001837	Myeloid cell Matura tion	MFI
CD3 on naive CD8br	ebi-a-GCST90001838	GCST90001838	stages of T cell Matura tion	MFI
CD3 on EM CD8br	ebi-a-GCST90001839	GCST90001839	stages of T cell Matura tion	MFI
CD3 on TD CD8br	ebi-a-GCST90001840	GCST90001840	stages of T cell Matura tion	MFI
CD3 on CM CD4+	ebi-a-GCST90001841	GCST90001841	stages of T cell Matura tion	MFI
CD3 on Naive CD4+	ebi-a-GCST90001842	GCST90001842	stages of T cell Matura tion	MFI
CD3 on EM CD4+	ebi-a-GCST90001843	GCST90001843	stages of T cell Matura tion	MFI
CD3 on TD CD4+	ebi-a-GCST90001844	GCST90001844	stages of T cell Matura tion	MFI
CD3 on CD45RA- CD4+	ebi-a-GCST90001845	GCST90001845	stages of T cell	MFI

CD3 on CM CD8br	ebi-a-GCST90001846	GCST90001846	Matura tion stages of T cell	MFI
CD3 on HLA DR+ T cell	ebi-a-GCST90001847	GCST90001847	TBNK	MFI
CD3 on NKT	ebi-a-GCST90001848	GCST90001848	TBNK	MFI
CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	GCST90001849	TBNK	MFI
CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	GCST90001850	TBNK	MFI
CD3 on T cell	ebi-a-GCST90001851	GCST90001851	Treg	MFI
CD3 on CD39+ resting	ebi-a-GCST90001852	GCST90001852	Treg	MFI
CD3 on activated Treg	ebi-a-GCST90001853	GCST90001853	Treg	MFI
CD3 on CD39+ activated	ebi-a-GCST90001854	GCST90001854	Treg	MFI
CD3 on secreting Treg	ebi-a-GCST90001855	GCST90001855	Treg	MFI
CD3 on CD39+ secreting	ebi-a-GCST90001856	GCST90001856	Treg	MFI
CD3 on activated &	ebi-a-GCST90001857	GCST90001857	Treg	MFI
CD3 on CD45RA+ CD4+	ebi-a-GCST90001858	GCST90001858	Treg	MFI
CD3 on CD8br	ebi-a-GCST90001859	GCST90001859	Treg	MFI
CD3 on CD39+ CD4+	ebi-a-GCST90001860	GCST90001860	Treg	MFI
CD3 on CD28+ CD4+	ebi-a-GCST90001861	GCST90001861	Treg	MFI
CD3 on CD28+ DN (CD4-	ebi-a-GCST90001862	GCST90001862	Treg	MFI
CD3 on CD28+ CD45RA-	ebi-a-GCST90001863	GCST90001863	Treg	MFI
CD3 on CD28+ CD45RA+	ebi-a-GCST90001864	GCST90001864	Treg	MFI
CD3 on CD28- CD8br	ebi-a-GCST90001865	GCST90001865	Treg	MFI
CD3 on CD39+ CD8br	ebi-a-GCST90001866	GCST90001866	Treg	MFI
CD3 on CD4+	ebi-a-GCST90001867	GCST90001867	Treg	MFI
CD3 on CD4 Treg	ebi-a-GCST90001868	GCST90001868	Treg	MFI
CD3 on resting Treg	ebi-a-GCST90001869	GCST90001869	Treg	MFI
CD34 on HSC	ebi-a-GCST90001870	GCST90001870	Myeloi d cell Matura tion	MFI
HVEM on T cell	ebi-a-GCST90001871	GCST90001871	stages of T cell Matura tion	MFI
HVEM on naive CD8br	ebi-a-GCST90001872	GCST90001872	stages of T cell Matura tion	MFI
HVEM on EM CD8br	ebi-a-GCST90001873	GCST90001873	stages of T cell Matura tion	MFI
HVEM on TD CD8br	ebi-a-GCST90001874	GCST90001874	stages of T cell Matura tion	MFI
HVEM on CD4+	ebi-a-GCST90001875	GCST90001875	stages of T cell Matura tion	MFI
HVEM on CM CD4+	ebi-a-GCST90001876	GCST90001876	stages of T cell	MFI

HVEM on naive CD4+	ebi-a-GCST90001877	GCST90001877	Matura tion stages of T cell Matura tion	MFI
HVEM on EM CD4+	ebi-a-GCST90001878	GCST90001878	stages of T cell Matura tion	MFI
HVEM on TD CD4+	ebi-a-GCST90001879	GCST90001879	stages of T cell Matura tion	MFI
HVEM on CD45RA- CD4+	ebi-a-GCST90001880	GCST90001880	stages of T cell Matura tion	MFI
HVEM on CD8br	ebi-a-GCST90001881	GCST90001881	stages of T cell Matura tion	MFI
HVEM on CM CD8br	ebi-a-GCST90001882	GCST90001882	stages of T cell	MFI
CD16-CD56 on NKT	ebi-a-GCST90001883	GCST90001883	TBNK	MFI
CD16-CD56 on NK	ebi-a-GCST90001884	GCST90001884	TBNK	MFI
CD16-CD56 on HLA DR+	ebi-a-GCST90001885	GCST90001885	TBNK	MFI
CD28 on CD39+ activated	ebi-a-GCST90001886	GCST90001886	Treg	MFI
CD28 on secreting Treg	ebi-a-GCST90001887	GCST90001887	Treg	MFI
CD28 on CD39+ secreting	ebi-a-GCST90001888	GCST90001888	Treg	MFI
CD28 on activated &	ebi-a-GCST90001889	GCST90001889	Treg	MFI
CD28 on CD45RA+ CD4+	ebi-a-GCST90001890	GCST90001890	Treg	MFI
CD28 on CD45RA- CD4	ebi-a-GCST90001891	GCST90001891	Treg	MFI
CD28 on CD39+ CD4+	ebi-a-GCST90001892	GCST90001892	Treg	MFI
CD28 on CD28+ CD45RA-	ebi-a-GCST90001893	GCST90001893	Treg	MFI
CD28 on CD28+ CD4+	ebi-a-GCST90001894	GCST90001894	Treg	MFI
CD28 on CD28+ DN (CD4-	ebi-a-GCST90001895	GCST90001895	Treg	MFI
CD28 on CD28+	ebi-a-GCST90001896	GCST90001896	Treg	MFI
CD28 on CD39+ CD8br	ebi-a-GCST90001897	GCST90001897	Treg	MFI
CD28 on CD4+	ebi-a-GCST90001898	GCST90001898	Treg	MFI
CD28 on CD4 Treg	ebi-a-GCST90001899	GCST90001899	Treg	MFI
CD28 on resting Treg	ebi-a-GCST90001900	GCST90001900	Treg	MFI
CD28 on CD39+ resting	ebi-a-GCST90001901	GCST90001901	Treg	MFI
CD28 on activated Treg	ebi-a-GCST90001902	GCST90001902	Treg	MFI
CD86 on myeloid DC	ebi-a-GCST90001903	GCST90001903	cDC	MFI
CD86 on CD62L+ myeloid	ebi-a-GCST90001904	GCST90001904	cDC	MFI
CD86 on monocyte	ebi-a-GCST90001905	GCST90001905	cDC	MFI
CD86 on granulocyte	ebi-a-GCST90001906	GCST90001906	cDC	MFI
CCR7 on naive CD4+	ebi-a-GCST90001907	GCST90001907	Matura tion stages of T cell Matura tion	MFI
CCR7 on naive CD8br	ebi-a-GCST90001908	GCST90001908	stages of T cell	MFI

CD45 on CD14+ monocyte	ebi-a-GCST90001909	GCST90001909	TBNK	MFI
CD45 on B cell	ebi-a-GCST90001910	GCST90001910	TBNK	MFI
CD45 on NK	ebi-a-GCST90001911	GCST90001911	TBNK	MFI
CD45 on HLA DR+ NK	ebi-a-GCST90001912	GCST90001912	TBNK	MFI
CD45 on granulocyte	ebi-a-GCST90001913	GCST90001913	TBNK	MFI
CD45 on lymphocyte	ebi-a-GCST90001914	GCST90001914	TBNK	MFI
CD45 on T cell	ebi-a-GCST90001915	GCST90001915	TBNK	MFI
CD45 on CD4+	ebi-a-GCST90001916	GCST90001916	TBNK	MFI
CD45 on CD8br	ebi-a-GCST90001917	GCST90001917	TBNK	MFI
CD45 on HLA DR+ T cell	ebi-a-GCST90001918	GCST90001918	TBNK	MFI
CD45 on NKT	ebi-a-GCST90001919	GCST90001919	TBNK	MFI
CD45 on HLA DR+ CD4+	ebi-a-GCST90001920	GCST90001920	TBNK	MFI
CD45 on HLA DR+ CD8br	ebi-a-GCST90001921	GCST90001921	TBNK	MFI
CD127 on T cell	ebi-a-GCST90001922	GCST90001922	Treg	MFI
CD127 on CD45RA- CD4	ebi-a-GCST90001923	GCST90001923	Treg	MFI
CD127 on CD28+ CD4+	ebi-a-GCST90001924	GCST90001924	Treg	MFI
CD127 on CD28+ DN	ebi-a-GCST90001925	GCST90001925	Treg	MFI
CD127 on granulocyte	ebi-a-GCST90001926	GCST90001926	Treg	MFI
CD127 on CD8br	ebi-a-GCST90001927	GCST90001927	Treg	MFI
CD127 on CD28+	ebi-a-GCST90001928	GCST90001928	Treg	MFI
CD127 on CD28+	ebi-a-GCST90001929	GCST90001929	Treg	MFI
CD127 on CD28- CD8br	ebi-a-GCST90001930	GCST90001930	Treg	MFI
CD127 on CD4+	ebi-a-GCST90001931	GCST90001931	Treg	MFI
CD127 on CD45RA+	ebi-a-GCST90001932	GCST90001932	Treg	MFI
CD25 on CD45RA- CD4	ebi-a-GCST90001933	GCST90001933	Treg	MFI
CD25 on CD45RA+ CD4	ebi-a-GCST90001934	GCST90001934	Treg	MFI
CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	GCST90001935	Treg	MFI
CD25 on CD4 Treg	ebi-a-GCST90001936	GCST90001936	Treg	MFI
CD25 on resting Treg	ebi-a-GCST90001937	GCST90001937	Treg	MFI
CD25 on CD39+ resting	ebi-a-GCST90001938	GCST90001938	Treg	MFI
CD25 on activated Treg	ebi-a-GCST90001939	GCST90001939	Treg	MFI
CD25 on CD39+ activated	ebi-a-GCST90001940	GCST90001940	Treg	MFI
CD25 on secreting Treg	ebi-a-GCST90001941	GCST90001941	Treg	MFI
CD25 on CD39+ secreting	ebi-a-GCST90001942	GCST90001942	Treg	MFI
CD25 on activated &	ebi-a-GCST90001943	GCST90001943	Treg	MFI
CD123 on plasmacytoid DC	ebi-a-GCST90001944	GCST90001944	cDC	MFI
CD123 on CD62L+	ebi-a-GCST90001945	GCST90001945	cDC	MFI
CD33 on CD14+ monocyte	ebi-a-GCST90001946	GCST90001946	Myeloid cell	MFI
CD33 on CD33br HLA DR+ CD14dim	ebi-a-GCST90001947	GCST90001947	Myeloid cell	MFI
CD33 on CD33dim HLA DR+ CD11b+	ebi-a-GCST90001948	GCST90001948	Myeloid cell	MFI
CD33 on CD33dim HLA DR+ CD11b-	ebi-a-GCST90001949	GCST90001949	Myeloid cell	MFI
CD33 on Gr MDSC	ebi-a-GCST90001950	GCST90001950	Myeloid cell	MFI
CD33 on CD66b++ myeloid cell	ebi-a-GCST90001951	GCST90001951	Myeloid cell	MFI
CD33 on Mo MDSC	ebi-a-GCST90001952	GCST90001952	Myeloid cell	MFI
CD33 on CD33dim HLA DR-	ebi-a-GCST90001953	GCST90001953	Myeloid cell	MFI
CD33 on basophil	ebi-a-GCST90001954	GCST90001954	Myeloid cell	MFI
CD33 on Im MDSC	ebi-a-GCST90001955	GCST90001955	Myeloid cell	MFI
CD33 on CD33br HLA DR+	ebi-a-GCST90001956	GCST90001956	Myeloid cell	MFI
CD33 on CD33br HLA DR+ CD14-	ebi-a-GCST90001957	GCST90001957	Myeloid cell	MFI
CD4 on monocyte	ebi-a-GCST90001958	GCST90001958	TBNK	MFI
CD4 on HLA DR+ CD4+	ebi-a-GCST90001959	GCST90001959	TBNK	MFI
CD25 on CD4+	ebi-a-GCST90001960	GCST90001960	Treg	MFI

CD25 on CD39+ CD4+	ebi-a-GCST90001961	GCST90001961	Treg	MFI
CD25 on CD28+ CD4+	ebi-a-GCST90001962	GCST90001962	Treg	MFI
FSC-A on myeloid DC	ebi-a-GCST90001963	GCST90001963	cDC	Morphological parameter
FSC-A on plasmacytoid DC	ebi-a-GCST90001964	GCST90001964	cDC	Morphological parameter
FSC-A on monocyte	ebi-a-GCST90001965	GCST90001965	cDC	Morphological parameter
FSC-A on granulocyte	ebi-a-GCST90001966	GCST90001966	cDC	Morphological parameter
FSC-A on CD14+ monocyte	ebi-a-GCST90001967	GCST90001967	TBNK	Morphological parameter
FSC-A on B cell	ebi-a-GCST90001968	GCST90001968	TBNK	Morphological parameter
FSC-A on NK	ebi-a-GCST90001969	GCST90001969	TBNK	Morphological parameter
FSC-A on HLA DR+ NK	ebi-a-GCST90001970	GCST90001970	TBNK	Morphological parameter
FSC-A on lymphocyte	ebi-a-GCST90001971	GCST90001971	TBNK	Morphological parameter
FSC-A on T cell	ebi-a-GCST90001972	GCST90001972	TBNK	Morphological parameter
FSC-A on CD4+	ebi-a-GCST90001973	GCST90001973	TBNK	Morphological parameter
FSC-A on CD8br	ebi-a-GCST90001974	GCST90001974	TBNK	Morphological parameter
FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	GCST90001975	TBNK	Morphological parameter
FSC-A on NKT	ebi-a-GCST90001976	GCST90001976	TBNK	Morphological parameter
FSC-A on HLA DR+ CD4+	ebi-a-GCST90001977	GCST90001977	TBNK	Morphological parameter
FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	GCST90001978	TBNK	Morphological parameter
CD16 on CD14- CD16+ monocyte	ebi-a-GCST90001979	GCST90001979	Monocyte	MFI
CD40 on CD14+ CD16- monocyte	ebi-a-GCST90001980	GCST90001980	Monocyte	MFI
CD40 on CD14+ CD16+ monocyte	ebi-a-GCST90001981	GCST90001981	Monocyte	MFI
CCR2 on CD14- CD16+ monocyte	ebi-a-GCST90001982	GCST90001982	Monocyte	MFI
CD14 on CD14+ CD16+ monocyte	ebi-a-GCST90001983	GCST90001983	Monocyte	MFI
HLA DR on CD14- CD16+ monocyte	ebi-a-GCST90001984	GCST90001984	Monocyte	MFI
CD40 on monocytes	ebi-a-GCST90001985	GCST90001985	Monocyte	MFI
CD14 on CD14+ CD16- monocyte	ebi-a-GCST90001986	GCST90001986	Monocyte	MFI
CD64 on CD14+ CD16- monocyte	ebi-a-GCST90001987	GCST90001987	Monocyte	MFI
HLA DR on CD14+ CD16- monocyte	ebi-a-GCST90001988	GCST90001988	Monocyte	MFI
CD40 on CD14- CD16+ monocyte	ebi-a-GCST90001989	GCST90001989	Monocyte	MFI
CD64 on CD14- CD16+ monocyte	ebi-a-GCST90001990	GCST90001990	Monocyte	MFI
HLA DR on CD14+ monocyte	ebi-a-GCST90001991	GCST90001991	Monocyte	MFI
CCR2 on CD14+ CD16+ monocyte	ebi-a-GCST90001992	GCST90001992	Monocyte	MFI
PDL-1 on CD14+ CD16- monocyte	ebi-a-GCST90001993	GCST90001993	Monocyte	MFI

CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	GCST90001994	Monocyte	MFI
CX3CR1 on monocyte	ebi-a-GCST90001995	GCST90001995	Monocyte	MFI
CX3CR1 on CD14+ CD16+ monocyte	ebi-a-GCST90001996	GCST90001996	Monocyte	MFI
CX3CR1 on CD14+ CD16- monocyte	ebi-a-GCST90001997	GCST90001997	Monocyte	MFI
PDL-1 on CD14+ CD16+ monocyte	ebi-a-GCST90001998	GCST90001998	Monocyte	MFI
PDL-1 on CD14- CD16+ monocyte	ebi-a-GCST90001999	GCST90001999	Monocyte	MFI
PDL-1 on CD14- CD16-	ebi-a-GCST90002000	GCST90002000	Monocyte	MFI
CD64 on CD14- CD16-	ebi-a-GCST90002001	GCST90002001	Monocyte	MFI
PDL-1 on monocyte	ebi-a-GCST90002002	GCST90002002	Monocyte	MFI
CCR2 on CD14- CD16-	ebi-a-GCST90002003	GCST90002003	Monocyte	MFI
CCR2 on CD14+ CD16- monocyte	ebi-a-GCST90002004	GCST90002004	Monocyte	MFI
CD16 on CD14+ CD16+ monocyte	ebi-a-GCST90002005	GCST90002005	Monocyte	MFI
CD64 on monocyte	ebi-a-GCST90002006	GCST90002006	Monocyte	MFI
HLA DR on CD14+ CD16+ monocyte	ebi-a-GCST90002007	GCST90002007	Monocyte	MFI
CCR2 on monocyte	ebi-a-GCST90002008	GCST90002008	Monocyte	MFI
HLA DR on CD14- CD16-	ebi-a-GCST90002009	GCST90002009	Monocyte	MFI
HLA DR on monocyte	ebi-a-GCST90002010	GCST90002010	Monocyte	MFI
CD64 on CD14+ CD16+ monocyte	ebi-a-GCST90002011	GCST90002011	Monocyte	MFI
CX3CR1 on CD14- CD16+ monocyte	ebi-a-GCST90002012	GCST90002012	Monocyte	MFI
CCR2 on myeloid DC	ebi-a-GCST90002013	GCST90002013	cDC	MFI
CCR2 on CD62L+ myeloid	ebi-a-GCST90002014	GCST90002014	cDC	MFI
CCR2 on plasmacytoid DC	ebi-a-GCST90002015	GCST90002015	cDC	MFI
CCR2 on CD62L+	ebi-a-GCST90002016	GCST90002016	cDC	MFI
CCR2 on monocyte	ebi-a-GCST90002017	GCST90002017	cDC	MFI
CCR2 on granulocyte	ebi-a-GCST90002018	GCST90002018	cDC	MFI
CD14 on Mo MDSC	ebi-a-GCST90002019	GCST90002019	Myeloid cell	MFI
CD14 on CD33br HLA DR+ CD14dim	ebi-a-GCST90002020	GCST90002020	Myeloid cell	MFI
CD14 on CD33dim HLA DR+ CD11b+	ebi-a-GCST90002021	GCST90002021	Myeloid cell	MFI
CD4 on CD4+	ebi-a-GCST90002022	GCST90002022	Maturation stages of T cell	MFI
CD4 on CM CD4 +	ebi-a-GCST90002023	GCST90002023	Maturation stages of T cell	MFI

CD4 on naive CD4+	ebi-a-GCST90002024	GCST90002024	Maturation stages of T cell Maturation	MFI
CD4 on EM CD4+	ebi-a-GCST90002025	GCST90002025	Maturation stages of T cell Maturation	MFI
CD4 on TD CD4+	ebi-a-GCST90002026	GCST90002026	Maturation stages of T cell Maturation	MFI
CD4 on CD45RA+ CD4+	ebi-a-GCST90002027	GCST90002027	Maturation stages of T cell	MFI
CD19 on B cell	ebi-a-GCST90002028	GCST90002028	TBANK	MFI
CD39 on CD39+ CD8br	ebi-a-GCST90002029	GCST90002029	Treg	MFI
CD39 on CD39+ activated	ebi-a-GCST90002030	GCST90002030	Treg	MFI
CD39 on CD39+ secreting	ebi-a-GCST90002031	GCST90002031	Treg	MFI
CD39 on CD39+ CD4+	ebi-a-GCST90002032	GCST90002032	Treg	MFI
CD39 on granulocyte	ebi-a-GCST90002033	GCST90002033	Treg	MFI
CD39 on monocyte	ebi-a-GCST90002034	GCST90002034	Treg	MFI
CD80 on myeloid DC	ebi-a-GCST90002035	GCST90002035	cDC	MFI
CD80 on CD62L+ myeloid	ebi-a-GCST90002036	GCST90002036	cDC	MFI
CD80 on plasmacytoid DC	ebi-a-GCST90002037	GCST90002037	cDC	MFI
CD80 on CD62L+	ebi-a-GCST90002038	GCST90002038	cDC	MFI
CD80 on monocyte	ebi-a-GCST90002039	GCST90002039	cDC	MFI
CD80 on granulocyte	ebi-a-GCST90002040	GCST90002040	cDC	MFI
CD45 on lymphocyte	ebi-a-GCST90002041	GCST90002041	Myeloid cell	MFI
CD45 on CD33br HLA DR+ CD14-	ebi-a-GCST90002042	GCST90002042	Myeloid cell	MFI
CD45 on CD33br HLA DR+ CD14dim	ebi-a-GCST90002043	GCST90002043	Myeloid cell	MFI
CD45 on CD33dim HLA DR+ CD11b-	ebi-a-GCST90002044	GCST90002044	Myeloid cell	MFI
CD45 on CD33- HLA DR-	ebi-a-GCST90002045	GCST90002045	Myeloid cell	MFI
CD45 on CD33- HLA DR+	ebi-a-GCST90002046	GCST90002046	Myeloid cell	MFI
CD45 on Gr MDSC	ebi-a-GCST90002047	GCST90002047	Myeloid cell	MFI
CD45 on CD66b++ myeloid cell	ebi-a-GCST90002048	GCST90002048	Myeloid cell	MFI
CD45 on Mo MDSC	ebi-a-GCST90002049	GCST90002049	Myeloid cell	MFI
CD45 on CD33dim HLA DR-	ebi-a-GCST90002050	GCST90002050	Myeloid cell	MFI
CD45 on basophil	ebi-a-GCST90002051	GCST90002051	Myeloid cell	MFI
CD45 on Im MDSC	ebi-a-GCST90002052	GCST90002052	Myeloid cell	MFI
CD45 on CD33br HLA DR+	ebi-a-GCST90002053	GCST90002053	Myeloid cell Maturation	MFI
CD8 on CM CD8br	ebi-a-GCST90002054	GCST90002054	Maturation stages of T cell	MFI

CD8 on naive CD8br	ebi-a-GCST90002055	GCST90002055	Maturation stages of T cell Maturation	MFI
CD8 on EM CD8br	ebi-a-GCST90002056	GCST90002056	Maturation stages of T cell Maturation	MFI
CD8 on TD CD8br	ebi-a-GCST90002057	GCST90002057	Maturation stages of T cell	MFI
CD8 on CD8br	ebi-a-GCST90002058	GCST90002058	TBNK	MFI
CD8 on NKT	ebi-a-GCST90002059	GCST90002059	TBNK	MFI
CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	GCST90002060	TBNK	MFI
CD4 on CD39+ CD4+	ebi-a-GCST90002061	GCST90002061	Treg	MFI
CD4 on CD28+ CD4+	ebi-a-GCST90002062	GCST90002062	Treg	MFI
CD4 on CD4 Treg	ebi-a-GCST90002063	GCST90002063	Treg	MFI
CD4 on resting Treg	ebi-a-GCST90002064	GCST90002064	Treg	MFI
CD4 on CD39+ resting	ebi-a-GCST90002065	GCST90002065	Treg	MFI
CD4 on activated Treg	ebi-a-GCST90002066	GCST90002066	Treg	MFI
CD4 on CD39+ activated	ebi-a-GCST90002067	GCST90002067	Treg	MFI
CD4 on secreting Treg	ebi-a-GCST90002068	GCST90002068	Treg	MFI
CD4 on CD39+ secreting	ebi-a-GCST90002069	GCST90002069	Treg	MFI
CD4 on activated &	ebi-a-GCST90002070	GCST90002070	Treg	MFI
SSC-A on myeloid DC	ebi-a-GCST90002071	GCST90002071	cDC	Morphological parameter
SSC-A on plasmacytoid DC	ebi-a-GCST90002072	GCST90002072	cDC	Morphological parameter
SSC-A on monocyte	ebi-a-GCST90002073	GCST90002073	cDC	Morphological parameter
SSC-A on CD14+ monocyte	ebi-a-GCST90002074	GCST90002074	TBNK	Morphological parameter
SSC-A on B cell	ebi-a-GCST90002075	GCST90002075	TBNK	Morphological parameter
SSC-A on NK	ebi-a-GCST90002076	GCST90002076	TBNK	Morphological parameter
SSC-A on HLA DR+ NK	ebi-a-GCST90002077	GCST90002077	TBNK	Morphological parameter
SSC-A on granulocyte	ebi-a-GCST90002078	GCST90002078	TBNK	Morphological parameter
SSC-A on lymphocyte	ebi-a-GCST90002079	GCST90002079	TBNK	Morphological parameter
SSC-A on T cell	ebi-a-GCST90002080	GCST90002080	TBNK	Morphological parameter
SSC-A on CD4+	ebi-a-GCST90002081	GCST90002081	TBNK	Morphological parameter
SSC-A on CD8br	ebi-a-GCST90002082	GCST90002082	TBNK	Morphological parameter
SSC-A on HLA DR+ T cell	ebi-a-GCST90002083	GCST90002083	TBNK	Morphological parameter
SSC-A on NKT	ebi-a-GCST90002084	GCST90002084	TBNK	Morphological parameter
SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	GCST90002085	TBNK	Morphological parameter
SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	GCST90002086	TBNK	Morphological parameter
CD11c on myeloid DC	ebi-a-GCST90002087	GCST90002087	cDC	MFI
CD11c on CD62L+	ebi-a-GCST90002088	GCST90002088	cDC	MFI
CD11c on monocyte	ebi-a-GCST90002089	GCST90002089	cDC	MFI
CD11c on granulocyte	ebi-a-GCST90002090	GCST90002090	cDC	MFI

CD11b on CD14+ monocyte	ebi-a-GCST90002091	GCST90002091	Myeloid cell	MFI
CD11b on Gr MDSC	ebi-a-GCST90002092	GCST90002092	Myeloid cell	MFI
CD11b on CD66b++ myeloid cell	ebi-a-GCST90002093	GCST90002093	Myeloid cell	MFI
CD11b on Mo MDSC	ebi-a-GCST90002094	GCST90002094	Myeloid cell	MFI
CD11b on CD33dim HLA DR-	ebi-a-GCST90002095	GCST90002095	Myeloid cell	MFI
CD11b on basophil	ebi-a-GCST90002096	GCST90002096	Myeloid cell	MFI
CD11b on CD33br HLA DR+ CD14dim	ebi-a-GCST90002097	GCST90002097	Myeloid cell Maturation	MFI
CD45RA on naive CD4+	ebi-a-GCST90002098	GCST90002098	stages of T cell Maturation	MFI
CD4RA on TD CD4+	ebi-a-GCST90002099	GCST90002099	stages of T cell Maturation	MFI
CD45RA on naive CD8br	ebi-a-GCST90002100	GCST90002100	stages of T cell Maturation	MFI
CD45RA on TD CD8br	ebi-a-GCST90002101	GCST90002101	stages of T cell	MFI
CD45RA on resting Treg	ebi-a-GCST90002102	GCST90002102	Treg	MFI
CD45RA on CD39+ resting	ebi-a-GCST90002103	GCST90002103	Treg	MFI
HLA DR on myeloid DC	ebi-a-GCST90002104	GCST90002104	cDC	MFI
HLA DR on plasmacytoid	ebi-a-GCST90002105	GCST90002105	cDC	MFI
HLA DR on DC	ebi-a-GCST90002106	GCST90002106	cDC	MFI
HLA DR on HSC	ebi-a-GCST90002107	GCST90002107	Myeloid cell	MFI
HLA DR on CD33br HLA DR+ CD14-	ebi-a-GCST90002108	GCST90002108	Myeloid cell	MFI
HLA DR on CD33br HLA DR+ CD14dim	ebi-a-GCST90002109	GCST90002109	Myeloid cell	MFI
HLA DR on CD33dim	ebi-a-GCST90002110	GCST90002110	Myeloid cell	MFI
HLA DR+ CD11b+	ebi-a-GCST90002111	GCST90002111	Myeloid cell	MFI
HLA DR on CD33dim	ebi-a-GCST90002111	GCST90002111	Myeloid cell	MFI
HLA DR+ CD11b-	ebi-a-GCST90002111	GCST90002111	Myeloid cell	MFI
HLA DR on CD33- HLA DR+	ebi-a-GCST90002112	GCST90002112	Myeloid cell	MFI
HLA DR on HLA DR+ T	ebi-a-GCST90002113	GCST90002113	TBNK	MFI
HLA DR on HLA DR+	ebi-a-GCST90002114	GCST90002114	TBNK	MFI
HLA DR on HLA DR+	ebi-a-GCST90002115	GCST90002115	TBNK	MFI
HLA DR on B cell	ebi-a-GCST90002116	GCST90002116	TBNK	MFI
HLA DR on HLA DR+ NK	ebi-a-GCST90002117	GCST90002117	TBNK	MFI
CD8 on CD28+ CD45RA-	ebi-a-GCST90002118	GCST90002118	Treg	MFI
CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	GCST90002119	Treg	MFI
CD8 on CD28- CD8br	ebi-a-GCST90002120	GCST90002120	Treg	MFI
CD8 on CD39+ CD8br	ebi-a-GCST90002121	GCST90002121	Treg	MFI

Table S2. Information on 1400 plasma Trait

	GWAS Catalog	Sample size	URL
Carnitine levels	GCST90199621	8192	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199621/GCST90199621_buildGRCh38.ts
Benzoate levels	GCST90199622	7306	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199622/GCST90199622_buildGRCh38.ts
Maltotriose levels	GCST90199623	4641	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199623/GCST90199623_buildGRCh38.ts
Hippurate levels	GCST90199624	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199624/GCST90199624_buildGRCh38.ts
Methionine sulfoxide levels	GCST90199625	8243	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199625/GCST90199625_buildGRCh38.ts
Xanthurenate levels	GCST90199626	7965	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199626/GCST90199626_buildGRCh38.ts
N-alpha-acetylmethionine levels	GCST90199627	5606	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199627/GCST90199627_buildGRCh38.ts
3-methylhistidine levels	GCST90199628	8289	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199628/GCST90199628_buildGRCh38.ts
Glycerophosphorylcholine (GPC) levels	GCST90199629	8212	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199629/GCST90199629_buildGRCh38.ts
Phenylacetate levels	GCST90199630	7059	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199630/GCST90199630_buildGRCh38.ts
3-methyl-2-oxovalerate levels	GCST90199631	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199631/GCST90199631_buildGRCh38.ts
Tartarate levels	GCST90199632	7099	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199632/GCST90199632_buildGRCh38.ts

Suberate (C8-DC) levels	GCST90199633	6902	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199633/GCST90199633_buildGRCh38.ts
5-hydroxylysine levels	GCST90199634	8128	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199634/GCST90199634_buildGRCh38.ts
3-phenylpropionate hydrocinnamate levels	GCST90199635	7925	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199635/GCST90199635_buildGRCh38.ts
Kynurenine levels	GCST90199636	8244	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199636/GCST90199636_buildGRCh38.ts
N-acetylglutamate levels	GCST90199637	7802	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199637/GCST90199637_buildGRCh38.ts
Glycerol 3-phosphate levels	GCST90199638	8201	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199638/GCST90199638_buildGRCh38.ts
Imidazole lactate levels	GCST90199639	8256	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199639/GCST90199639_buildGRCh38.ts
4-guanidinobutanoate levels	GCST90199640	8144	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199640/GCST90199640_buildGRCh38.ts
Glucuronate levels	GCST90199641	7988	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199641/GCST90199641_buildGRCh38.ts
Ribitol levels	GCST90199642	8128	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199642/GCST90199642_buildGRCh38.ts
Glycodeoxycholate levels	GCST90199643	6877	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199643/GCST90199643_buildGRCh38.ts
Theobromine levels	GCST90199644	8137	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199644/GCST90199644_buildGRCh38.ts

Quinate levels	GCST90199645	8200	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199645/GCST90199645_buildGRCh38.ts
Gentisate levels	GCST90199646	8013	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199646/GCST90199646_buildGRCh38.ts
Theophylline levels	GCST90199647	7822	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199647/GCST90199647_buildGRCh38.ts
1,5-anhydroglucitol (1,5-ag) levels	GCST90199648	8139	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199648/GCST90199648_buildGRCh38.ts
1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	8134	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199649/GCST90199649_buildGRCh38.ts
Indolelactate levels	GCST90199650	8233	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199650/GCST90199650_buildGRCh38.ts
Docosahexaenoate DHA; 22:6n3 levels	GCST90199651	8279	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199651/GCST90199651_buildGRCh38.ts
1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	8055	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199652/GCST90199652_buildGRCh38.ts
1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	8271	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199653/GCST90199653_buildGRCh38.ts
Paraxanthine levels in elite athletes	GCST90199654	7840	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199654/GCST90199654_buildGRCh38.ts
4-methyl-2-oxopentanoate levels	GCST90199655	8255	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199655/GCST90199655_buildGRCh38.ts
3-indoxyl sulfate levels	GCST90199656	8242	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199656/GCST90199656_buildGRCh38.ts

Sphingosine 1-phosphate levels	GCST90199657	8246	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199657/GCST90199657_buildGRCh38.ts
Alpha-hydroxyisocaproate levels	GCST90199658	8250	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199658/GCST90199658_buildGRCh38.ts
1-stearoyl-GPI (18:0) levels	GCST90199659	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199659/GCST90199659_buildGRCh38.ts
1,2-dipalmitoyl-gpc (16:0/16:0) levels	GCST90199660	8264	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199660/GCST90199660_buildGRCh38.ts
Maleate levels	GCST90199661	8171	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199661/GCST90199661_buildGRCh38.ts
Isovalerate (i5:0) levels	GCST90199662	7862	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199662/GCST90199662_buildGRCh38.ts
4-acetylphenol sulfate levels	GCST90199663	7135	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199663/GCST90199663_buildGRCh38.ts
Phenyllactate (PLA) levels in elite athletes	GCST90199664	8235	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199664/GCST90199664_buildGRCh38.ts
N-acetylaspartate (naa) levels	GCST90199665	8148	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199665/GCST90199665_buildGRCh38.ts
Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	8256	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199666/GCST90199666_buildGRCh38.ts
Erythritol levels in elite athletes	GCST90199667	8167	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199667/GCST90199667_buildGRCh38.ts
Hexanoylcarnitine levels (Biocrates platform)	GCST90199668	8242	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199668/GCST90199668_buildGRCh38.ts

Acetylcarnitine levels (Biocrates platform)	GCST90199669	8262	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199669/GCST90199669_buildGRCh38.ts
Iminodiacetate (IDA) levels	GCST90199670	8213	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199670/GCST90199670_buildGRCh38.ts
Cysteine s-sulfate levels	GCST90199671	8229	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199671/GCST90199671_buildGRCh38.ts
Oxalate (ethanedioate) levels	GCST90199672	8181	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199672/GCST90199672_buildGRCh38.ts
DHEAS levels	GCST90199673	8228	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199673/GCST90199673_buildGRCh38.ts
3-hydroxymyristate levels	GCST90199674	8235	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199674/GCST90199674_buildGRCh38.ts
Homoarginine levels	GCST90199675	8265	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199675/GCST90199675_buildGRCh38.ts
1-oleoylglycerol (18:1) levels	GCST90199676	8225	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199676/GCST90199676_buildGRCh38.ts
3-methyl-2-oxobutyrate levels	GCST90199677	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199677/GCST90199677_buildGRCh38.ts
Tartronate (hydroxymalonate) levels	GCST90199678	8125	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199678/GCST90199678_buildGRCh38.ts
2,3-dihydroxypyridine levels	GCST90199679	6496	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199679/GCST90199679_buildGRCh38.ts
3-hydroxyoctanoate levels	GCST90199680	8182	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199680/GCST90199680_buildGRCh38.ts

2-hydroxyoctanoate levels	GCST90199681	8224	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199681/GCST90199681_buildGRCh38.ts
Homocitrulline levels	GCST90199682	7998	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199682/GCST90199682_buildGRCh38.ts
Indoleacetate levels	GCST90199683	8208	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199683/GCST90199683_buildGRCh38.ts
1-linoleoylglycerol (18:2) levels	GCST90199684	8212	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199684/GCST90199684_buildGRCh38.ts
2-linoleoylglycerol (18:2) levels	GCST90199685	6378	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199685/GCST90199685_buildGRCh38.ts
Indolepropionate levels	GCST90199686	8153	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199686/GCST90199686_buildGRCh38.ts
Threonate levels	GCST90199687	8151	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199687/GCST90199687_buildGRCh38.ts
N-acetylglycine levels	GCST90199688	8250	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199688/GCST90199688_buildGRCh38.ts
Glycolithocholate levels	GCST90199689	7158	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199689/GCST90199689_buildGRCh38.ts
EDTA levels	GCST90199690	8239	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199690/GCST90199690_buildGRCh38.ts
1-methylhistidine levels	GCST90199691	8226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199691/GCST90199691_buildGRCh38.ts
Citramalate levels	GCST90199692	7125	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199692/GCST90199692_buildGRCh38.ts

3-hydroxydecanoate levels	GCST90199693	8239	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199693/GCST90199693_buildGRCh38.ts
1,3-dimethylurate levels	GCST90199694	7444	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199694/GCST90199694_buildGRCh38.ts
Galactonate levels	GCST90199695	7518	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199695/GCST90199695_buildGRCh38.ts
Trigonelline levels	GCST90199696	8272	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199696/GCST90199696_buildGRCh38.ts
Dodecanedioate levels	GCST90199697	8240	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199697/GCST90199697_buildGRCh38.ts
Isobutyrylcarnitine (c4) levels	GCST90199698	8243	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199698/GCST90199698_buildGRCh38.ts
3-methylxanthine levels	GCST90199699	8085	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199699/GCST90199699_buildGRCh38.ts
3-hydroxylaurate levels	GCST90199700	8206	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199700/GCST90199700_buildGRCh38.ts
Pyridoxate levels	GCST90199701	8089	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199701/GCST90199701_buildGRCh38.ts
5-hydroxyhexanoate levels	GCST90199702	7097	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199702/GCST90199702_buildGRCh38.ts
Gamma-glutamylvaline levels	GCST90199703	8179	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199703/GCST90199703_buildGRCh38.ts
3-hydroxysebacate levels	GCST90199704	7325	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199704/GCST90199704_buildGRCh38.ts

Propionylglycine levels	GCST90199705	7311	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199705/GCST90199705_buildGRCh38.ts
Butyrylglycine levels	GCST90199706	6044	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199706/GCST90199706_buildGRCh38.ts
Pro-hydroxy-pro levels	GCST90199707	8208	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199707/GCST90199707_buildGRCh38.ts
Propionylcarnitine (c3) levels	GCST90199708	8273	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199708/GCST90199708_buildGRCh38.ts
Adrenate (22:4n6) levels	GCST90199709	8279	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199709/GCST90199709_buildGRCh38.ts
Docosatrienoate (22:3n3) levels	GCST90199710	6511	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199710/GCST90199710_buildGRCh38.ts
Docosadienoate (22:2n6) levels	GCST90199711	8264	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199711/GCST90199711_buildGRCh38.ts
3-carboxy-4-methyl-5-propyl-2-furanpropanoate (cmpf) levels	GCST90199712	8270	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199712/GCST90199712_buildGRCh38.ts
Docosapentaenoate n3 DPA; 22:5n3 levels	GCST90199713	8284	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199713/GCST90199713_buildGRCh38.ts
3-hydroxy-2-ethylpropionate levels	GCST90199714	8238	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199714/GCST90199714_buildGRCh38.ts
Myristoleate (14:1n5) levels	GCST90199715	8255	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199715/GCST90199715_buildGRCh38.ts
10-undecenoate (11:1n1) levels	GCST90199716	8243	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199716/GCST90199716_buildGRCh38.ts

1-methyl-4-imidazoleacetate levels	GCST90199717	8090	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199717/GCST90199717_buildGRCh38.ts
Sebacate (C10-DC) levels	GCST90199718	7926	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199718/GCST90199718_buildGRCh38.ts
Tauro-beta-muricholate levels	GCST90199719	4661	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199719/GCST90199719_buildGRCh38.ts
Octanoylcarnitine (c8) levels	GCST90199720	8226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199720/GCST90199720_buildGRCh38.ts
Stearidonate (18:4n3) levels	GCST90199721	8240	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199721/GCST90199721_buildGRCh38.ts
Decanoylcarnitine (C10) levels	GCST90199722	8225	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199722/GCST90199722_buildGRCh38.ts
5-dodecenoate (12:1n7) levels	GCST90199723	8248	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199723/GCST90199723_buildGRCh38.ts
N-acetylisooleucine levels	GCST90199724	7223	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199724/GCST90199724_buildGRCh38.ts
Campesterol levels	GCST90199725	5300	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199725/GCST90199725_buildGRCh38.ts
N-acetylthreonine levels	GCST90199726	8223	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199726/GCST90199726_buildGRCh38.ts
1-oleoyl-GPC (18:1) levels	GCST90199727	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199727/GCST90199727_buildGRCh38.ts
10-nonadecenoate (19:1n9) levels	GCST90199728	8277	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199728/GCST90199728_buildGRCh38.ts

Piperine levels	GCST90199729	8155	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199729/GCST90199729_buildGRCh38.ts
Carnitine C14 levels	GCST90199730	8241	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199730/GCST90199730_buildGRCh38.ts
10-heptadecenoate (17:1n7) levels	GCST90199731	8282	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199731/GCST90199731_buildGRCh38.ts
1-stearoyl-gpc (18:0) levels	GCST90199732	8240	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199732/GCST90199732_buildGRCh38.ts
1-palmitoyl-GPC (16:0) levels	GCST90199733	8232	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199733/GCST90199733_buildGRCh38.ts
Hyocholate levels	GCST90199734	5782	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199734/GCST90199734_buildGRCh38.ts
N-acetylhistidine levels	GCST90199735	7054	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199735/GCST90199735_buildGRCh38.ts
Alpha-hydroxyisovalerate levels	GCST90199736	8208	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199736/GCST90199736_buildGRCh38.ts
N-acetylproline levels	GCST90199737	7100	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199737/GCST90199737_buildGRCh38.ts
Stachydrine levels	GCST90199738	8297	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199738/GCST90199738_buildGRCh38.ts
Salicyluric glucuronide levels	GCST90199739	5190	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199739/GCST90199739_buildGRCh38.ts
P-cresol sulfate levels	GCST90199740	8183	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199740/GCST90199740_buildGRCh38.ts

Gamma-glutamylglycine levels	GCST90199741	8263	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199741/GCST90199741_buildGRCh38.ts
1-linoleoyl-gpc (18:2) levels	GCST90199742	8262	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199742/GCST90199742_buildGRCh38.ts
Stearoylcarnitine levels	GCST90199743	8133	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199743/GCST90199743_buildGRCh38.ts
Eicosenoate (20:1) levels	GCST90199744	8277	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199744/GCST90199744_buildGRCh38.ts
Aconitate [cis or trans] levels	GCST90199745	8262	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199745/GCST90199745_buildGRCh38.ts
Erythronate levels	GCST90199746	8198	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199746/GCST90199746_buildGRCh38.ts
Isovalerylcarnitine (C5) levels	GCST90199747	8266	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199747/GCST90199747_buildGRCh38.ts
Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199748/GCST90199748_buildGRCh38.ts
Gamma-glutamylthreonine levels	GCST90199749	8231	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199749/GCST90199749_buildGRCh38.ts
Laurylcarnitine levels	GCST90199750	8241	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199750/GCST90199750_buildGRCh38.ts
Gamma-glutamylmethionine levels	GCST90199751	8237	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199751/GCST90199751_buildGRCh38.ts
Epiandrosterone sulfate levels	GCST90199752	8174	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199752/GCST90199752_buildGRCh38.ts

Gamma-glutamyltryptophan levels	GCST90199753	7902	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199753/GCST90199753_buildGRCh38.ts
7-methylxanthine levels	GCST90199754	8019	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199754/GCST90199754_buildGRCh38.ts
3,7-dimethylurate levels	GCST90199755	6894	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199755/GCST90199755_buildGRCh38.ts
1,7-dimethyluric acid levels	GCST90199756	7950	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199756/GCST90199756_buildGRCh38.ts
1,3,7-trimethylurate levels	GCST90199757	7446	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199757/GCST90199757_buildGRCh38.ts
N4-acetylcytidine levels	GCST90199758	7425	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199758/GCST90199758_buildGRCh38.ts
Indolebutyrate levels	GCST90199759	4423	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199759/GCST90199759_buildGRCh38.ts
5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	8006	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199760/GCST90199760_buildGRCh38.ts
N1-methylinosine levels	GCST90199761	8147	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199761/GCST90199761_buildGRCh38.ts
N6-carbamoylthreonyladosine levels	GCST90199762	8176	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199762/GCST90199762_buildGRCh38.ts
1-methylxanthine levels	GCST90199763	7959	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199763/GCST90199763_buildGRCh38.ts
N2,n2-dimethylguanosine levels	GCST90199764	8210	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199764/GCST90199764_buildGRCh38.ts

4-hydroxyhippurate levels	GCST90199765	8259	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199765/GCST90199765_buildGRCh38.ts
3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	7679	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199766/GCST90199766_buildGRCh38.ts
5,6-dihydrouridine levels	GCST90199767	8210	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199767/GCST90199767_buildGRCh38.ts
Phenylacetylglutamine levels	GCST90199768	8251	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199768/GCST90199768_buildGRCh38.ts
3-hydroxydodecanedioate levels	GCST90199769	7168	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199769/GCST90199769_buildGRCh38.ts
1-arachidonylglycerol (20:4) levels	GCST90199770	7650	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199770/GCST90199770_buildGRCh38.ts
7-methylguanine levels	GCST90199771	8239	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199771/GCST90199771_buildGRCh38.ts
1-stearoyl-GPE (18:0) levels	GCST90199772	8270	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199772/GCST90199772_buildGRCh38.ts
Phenol sulfate levels	GCST90199773	8249	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199773/GCST90199773_buildGRCh38.ts
Oleoylcarnitine levels	GCST90199774	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199774/GCST90199774_buildGRCh38.ts
Gamma-glutamylisoleucine levels	GCST90199775	8267	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199775/GCST90199775_buildGRCh38.ts
Malonylcarnitine levels	GCST90199776	5822	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199776/GCST90199776_buildGRCh38.ts

1-palmitoleoyl-GPC (16:1) levels	GCST90199777	8227	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199777/GCST90199777_buildGRCh38.ts
N-methyl-2-pyridone-5-carboxamide levels	GCST90199778	8177	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199778/GCST90199778_buildGRCh38.ts
Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	7826	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199779/GCST90199779_buildGRCh38.ts
1-stearoyl-GPG (18:0) levels	GCST90199780	6806	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199780/GCST90199780_buildGRCh38.ts
Hexanoylglycine levels	GCST90199781	6015	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199781/GCST90199781_buildGRCh38.ts
Glutamine degradant levels	GCST90199782	8293	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199782/GCST90199782_buildGRCh38.ts
5-methyluridine (ribothymidine) levels	GCST90199783	8168	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199783/GCST90199783_buildGRCh38.ts
Cysteine-glutathione disulfide levels	GCST90199784	7812	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199784/GCST90199784_buildGRCh38.ts
Isovaleryl glycine levels	GCST90199785	7100	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199785/GCST90199785_buildGRCh38.ts
2-hydroxy-3-methylvalerate levels	GCST90199786	8246	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199786/GCST90199786_buildGRCh38.ts
Homostachydrine levels	GCST90199787	8248	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199787/GCST90199787_buildGRCh38.ts
1-arachidonoyl-gpc (20:4n6) levels	GCST90199788	8267	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199788/GCST90199788_buildGRCh38.ts

2-palmitoyl-GPC (16:0) levels	GCST90199789	8249	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199789/GCST90199789_buildGRCh38.ts
2-palmitoleoyl-GPC (16:1) levels	GCST90199790	6697	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199790/GCST90199790_buildGRCh38.ts
1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	8270	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199791/GCST90199791_buildGRCh38.ts
1-palmitoyl-GPE (16:0) levels	GCST90199792	8276	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199792/GCST90199792_buildGRCh38.ts
1-linoleoyl-GPE (18:2) levels	GCST90199793	8279	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199793/GCST90199793_buildGRCh38.ts
1-oleoyl-GPE (18:1) levels	GCST90199794	8283	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199794/GCST90199794_buildGRCh38.ts
2-hydroxypalmitate levels	GCST90199795	8247	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199795/GCST90199795_buildGRCh38.ts
Docosapentaenoate (n6 DPA; 22:5n6) levels	GCST90199796	7540	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199796/GCST90199796_buildGRCh38.ts
Gulonate levels	GCST90199797	7731	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199797/GCST90199797_buildGRCh38.ts
Isobutyrylglycine levels	GCST90199798	7465	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199798/GCST90199798_buildGRCh38.ts
Glutaryl carnitine (c5-dc) levels	GCST90199799	8238	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199799/GCST90199799_buildGRCh38.ts
Carnitine C5:1 levels	GCST90199800	8097	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199800/GCST90199800_buildGRCh38.ts

Hydroquinone sulfate levels	GCST90199801	7682	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199801/GCST90199801_buildGRCh38.ts
Beta-hydroxyisovaleryl carnitine levels	GCST90199802	8232	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199802/GCST90199802_buildGRCh38.ts
Catechol sulfate levels	GCST90199803	8242	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199803/GCST90199803_buildGRCh38.ts
7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hoca) levels	GCST90199804	8236	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199804/GCST90199804_buildGRCh38.ts
Octadecanedioate levels	GCST90199805	8223	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199805/GCST90199805_buildGRCh38.ts
Tetradecanedioate (C14-DC) levels	GCST90199806	8268	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199806/GCST90199806_buildGRCh38.ts
Hexadecanedioate (C16-DC) levels	GCST90199807	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199807/GCST90199807_buildGRCh38.ts
Glycerophosphoethanolamine levels	GCST90199808	8231	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199808/GCST90199808_buildGRCh38.ts
Taurolithocholate 3-sulfate levels	GCST90199809	8124	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199809/GCST90199809_buildGRCh38.ts
1-palmitoyl-GPI (16:0) levels	GCST90199810	8246	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199810/GCST90199810_buildGRCh38.ts
Glycolithocholate sulfate levels	GCST90199811	8165	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199811/GCST90199811_buildGRCh38.ts
3-(3-hydroxyphenyl)propionate levels	GCST90199812	7304	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199812/GCST90199812_buildGRCh38.ts

Deoxycarnitine levels	GCST90199813	8271	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199813/GCST90199813_buildGRCh38.ts
Alpha-hydroxycaproate levels	GCST90199814	5169	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199814/GCST90199814_buildGRCh38.ts
1-ribosyl-imidazoleacetate levels	GCST90199815	8205	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199815/GCST90199815_buildGRCh38.ts
3,4-dihydroxybutyrate levels	GCST90199816	8142	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199816/GCST90199816_buildGRCh38.ts
Indoleacetylglutamine levels	GCST90199817	6161	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199817/GCST90199817_buildGRCh38.ts
Mannitol/sorbitol levels	GCST90199818	8211	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199818/GCST90199818_buildGRCh38.ts
Tryptophan betaine levels	GCST90199819	8216	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199819/GCST90199819_buildGRCh38.ts
Dihomo-linolenate (20:3n3 or n6) levels	GCST90199820	8273	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199820/GCST90199820_buildGRCh38.ts
1-linoleoyl-GPI (18:2) levels	GCST90199821	8268	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199821/GCST90199821_buildGRCh38.ts
1-oleoyl-GPI (18:1) levels	GCST90199822	8252	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199822/GCST90199822_buildGRCh38.ts
O-cresol sulfate levels	GCST90199823	7315	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199823/GCST90199823_buildGRCh38.ts
4-vinylphenol sulfate levels	GCST90199824	8280	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199824/GCST90199824_buildGRCh38.ts

Pyrraline levels	GCST90199825	7920	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199825/GCST90199825_buildGRCh38.ts
N6-acetyllysine levels	GCST90199826	8242	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199826/GCST90199826_buildGRCh38.ts
Thymol sulfate levels	GCST90199827	8063	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199827/GCST90199827_buildGRCh38.ts
N-acetylserine levels	GCST90199828	8217	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199828/GCST90199828_buildGRCh38.ts
3-methyladipate levels	GCST90199829	6958	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199829/GCST90199829_buildGRCh38.ts
4-ethylphenylsulfate levels	GCST90199830	8139	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199830/GCST90199830_buildGRCh38.ts
1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	8273	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199831/GCST90199831_buildGRCh38.ts
Dimethylarginine (sdma + adma) levels	GCST90199832	8233	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199832/GCST90199832_buildGRCh38.ts
Hexanoylglutamine levels	GCST90199833	8128	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199833/GCST90199833_buildGRCh38.ts
Gamma-glutamylalanine levels	GCST90199834	7518	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199834/GCST90199834_buildGRCh38.ts
5alpha-androstan-3beta,17beta-diol disulfate levels	GCST90199835	8199	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199835/GCST90199835_buildGRCh38.ts
N-methylproline levels	GCST90199836	8299	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199836/GCST90199836_buildGRCh38.ts

Carotenoid levels (cryptoxanthin)	GCST90199837	8226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199837/GCST90199837_buildGRCh38.ts
5alpha-pregnan-3beta,20alpha-diol disulfate levels	GCST90199838	8130	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199838/GCST90199838_buildGRCh38.ts
Taurocholate sulfate levels	GCST90199839	8249	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199839/GCST90199839_buildGRCh38.ts
Pregnenediol disulfate (C21H34O8S2) levels	GCST90199840	8245	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199840/GCST90199840_buildGRCh38.ts
Glycocholate sulfate levels	GCST90199841	8250	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199841/GCST90199841_buildGRCh38.ts
Androstenediol (3beta,17beta) disulfate (1) levels	GCST90199842	8222	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199842/GCST90199842_buildGRCh38.ts
Chiro-inositol levels	GCST90199843	4429	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199843/GCST90199843_buildGRCh38.ts
1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	8266	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199844/GCST90199844_buildGRCh38.ts
Sphinganine-1-phosphate levels	GCST90199845	8126	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199845/GCST90199845_buildGRCh38.ts
Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	8233	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199846/GCST90199846_buildGRCh38.ts
4-allylphenol sulfate levels	GCST90199847	8240	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199847/GCST90199847_buildGRCh38.ts
Succinylcarnitine levels	GCST90199848	8212	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199848/GCST90199848_buildGRCh38.ts

21-hydroxypregnenolone disulfate levels	GCST90199849	8132	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199849/GCST90199849_buildGRCh38.ts
5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	5524	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199850/GCST90199850_buildGRCh38.ts
Androstenediol (3beta,17beta) disulfate (2) levels	GCST90199851	8205	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199851/GCST90199851_buildGRCh38.ts
5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	7103	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199852/GCST90199852_buildGRCh38.ts
5alpha-pregnan-3beta,20beta-diol monosulfate (1) levels	GCST90199853	7772	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199853/GCST90199853_buildGRCh38.ts
5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	8028	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199854/GCST90199854_buildGRCh38.ts
5alpha-androstan-3beta,17beta-diol monosulfate (2) levels	GCST90199855	7066	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199855/GCST90199855_buildGRCh38.ts
Androstenediol (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	8192	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199856/GCST90199856_buildGRCh38.ts
5alpha-pregnan-diol disulfate levels	GCST90199857	4110	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199857/GCST90199857_buildGRCh38.ts
5alpha-androstan-3alpha,17beta-diol monosulfate (1) levels	GCST90199858	7608	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199858/GCST90199858_buildGRCh38.ts
5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	5082	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199859/GCST90199859_buildGRCh38.ts
Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	7415	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199860/GCST90199860_buildGRCh38.ts

Pregnenediol sulfate (C ₂₁ H ₃₄ O ₅ S) levels	GCST90199861	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199861/GCST90199861_buildGRCh38.ts
4-hydroxycoumarin levels	GCST90199862	6944	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199862/GCST90199862_buildGRCh38.ts
16a-hydroxy DHEA 3-sulfate levels	GCST90199863	8236	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199863/GCST90199863_buildGRCh38.ts
Gamma-CEHC levels	GCST90199864	8258	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199864/GCST90199864_buildGRCh38.ts
2-hydroxyglutarate levels	GCST90199865	7769	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199865/GCST90199865_buildGRCh38.ts
N-acetyl-beta-alanine levels	GCST90199866	8231	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199866/GCST90199866_buildGRCh38.ts
Tridecenedioate (C ₁₃ :1-DC) levels	GCST90199867	8231	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199867/GCST90199867_buildGRCh38.ts
N-acetyl-3-methylhistidine levels	GCST90199868	7018	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199868/GCST90199868_buildGRCh38.ts
2-hydroxyhippurate levels	GCST90199869	8241	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199869/GCST90199869_buildGRCh38.ts
4-cholesten-3-one levels	GCST90199870	6990	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199870/GCST90199870_buildGRCh38.ts
Androstenediol (3beta,17beta) monosulfate (2) levels	GCST90199871	7811	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199871/GCST90199871_buildGRCh38.ts
Androstenediol (3beta,17beta) monosulfate (1) levels	GCST90199872	8229	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199872/GCST90199872_buildGRCh38.ts

Pregnenolone sulfate levels	GCST90199873	7772	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199873/GCST90199873_buildGRCh38.ts
S-methylmethionine levels	GCST90199874	6674	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199874/GCST90199874_buildGRCh38.ts
13-HODE + 9-HODE levels	GCST90199875	8207	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199875/GCST90199875_buildGRCh38.ts
Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	8269	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199876/GCST90199876_buildGRCh38.ts
Indole-3-carboxylate levels	GCST90199877	4989	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199877/GCST90199877_buildGRCh38.ts
Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	8267	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199878/GCST90199878_buildGRCh38.ts
Ergothioneine levels	GCST90199879	8210	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199879/GCST90199879_buildGRCh38.ts
Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	8239	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199880/GCST90199880_buildGRCh38.ts
5-(galactosylhydroxy)-L-lysine levels	GCST90199881	6898	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199881/GCST90199881_buildGRCh38.ts
2s,3R-dihydroxybutyrate levels	GCST90199882	8252	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199882/GCST90199882_buildGRCh38.ts
Cysteinylglycine disulfide levels	GCST90199883	8216	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199883/GCST90199883_buildGRCh38.ts
2,3-dihydroxyisovalerate levels	GCST90199884	8268	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199884/GCST90199884_buildGRCh38.ts

Alpha-ketoglutarate levels	GCST90199885	8210	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199885/GCST90199885_buildGRCh38.ts
3-methylglutamate levels	GCST90199886	8197	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199886/GCST90199886_buildGRCh38.ts
(16 or 17)-methylstearate (a19:0 or i19:0) levels	GCST90199887	8239	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199887/GCST90199887_buildGRCh38.ts
Cinnamoylglycine levels	GCST90199888	7824	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199888/GCST90199888_buildGRCh38.ts
2R,3R-dihydroxybutyrate levels	GCST90199889	8223	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199889/GCST90199889_buildGRCh38.ts
4-hydroxyglutamate levels	GCST90199890	7226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199890/GCST90199890_buildGRCh38.ts
S-methylcysteine levels	GCST90199891	8239	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199891/GCST90199891_buildGRCh38.ts
Isoursodeoxycholate levels	GCST90199892	8234	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199892/GCST90199892_buildGRCh38.ts
Cis-4-decenoate (10:1n6) levels	GCST90199893	8173	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199893/GCST90199893_buildGRCh38.ts
4-oxo-retinoic acid levels	GCST90199894	7514	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199894/GCST90199894_buildGRCh38.ts
1-lignoceroyl-GPC (24:0) levels	GCST90199895	8208	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199895/GCST90199895_buildGRCh38.ts
Sulfate levels	GCST90199896	8230	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199896/GCST90199896_buildGRCh38.ts

4-hydroxy-2-oxoglutaric acid levels	GCST90199897	7919	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199897/GCST90199897_buildGRCh38.ts
Glycoursodeoxycholate levels	GCST90199898	8252	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199898/GCST90199898_buildGRCh38.ts
1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	8170	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199899/GCST90199899_buildGRCh38.ts
Argininate levels	GCST90199900	8226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199900/GCST90199900_buildGRCh38.ts
1-methyl-5-imidazoleacetate levels	GCST90199901	8171	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199901/GCST90199901_buildGRCh38.ts
Hydantoin-5-propionate levels	GCST90199902	8164	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199902/GCST90199902_buildGRCh38.ts
2-oxoarginine levels	GCST90199903	8223	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199903/GCST90199903_buildGRCh38.ts
Pantoate levels	GCST90199904	7662	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199904/GCST90199904_buildGRCh38.ts
Formiminoglutamate levels	GCST90199905	8175	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199905/GCST90199905_buildGRCh38.ts
1-(1-enyl-palmitoyl)-GPE (p-16:0) levels	GCST90199906	8227	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199906/GCST90199906_buildGRCh38.ts
S-methylcysteine sulfoxide levels	GCST90199907	8255	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199907/GCST90199907_buildGRCh38.ts
2-o-methylascorbic acid levels	GCST90199908	8219	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199908/GCST90199908_buildGRCh38.ts

Eicosanedioate (C20-DC) levels	GCST90199909	8258	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199901-GCST90200000/GCST90199909/GCST90199909_buildGRCh38.ts
1-(1-enyl-stearoyl)-GPE (p-18:0) levels	GCST90199910	8249	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199901-GCST90200000/GCST90199910/GCST90199910_buildGRCh38.ts
Beta-citrylglutamate levels	GCST90199911	8226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199901-GCST90200000/GCST90199911/GCST90199911_buildGRCh38.ts
N-oleoyltaurine levels	GCST90199912	7375	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199901-GCST90200000/GCST90199912/GCST90199912_buildGRCh38.ts
Docosadioate (C22-DC) levels	GCST90199913	8225	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199901-GCST90200000/GCST90199913/GCST90199913_buildGRCh38.ts
Oleoyl-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	8069	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199901-GCST90200000/GCST90199914/GCST90199914_buildGRCh38.ts
Imidazole propionate levels	GCST90199915	7776	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199901-GCST90200000/GCST90199915/GCST90199915_buildGRCh38.ts
Carnitine C18:2 levels	GCST90199916	8268	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199901-GCST90200000/GCST90199916/GCST90199916_buildGRCh38.ts
Pregnanediol-3-glucuronide levels	GCST90199917	7905	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199901-GCST90200000/GCST90199917/GCST90199917_buildGRCh38.ts
Carboxyethyl-gaba levels	GCST90199918	8090	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199901-GCST90200000/GCST90199918/GCST90199918_buildGRCh38.ts
Alliin levels	GCST90199919	6517	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199901-GCST90200000/GCST90199919/GCST90199919_buildGRCh38.ts
Trimethylamine n-oxide levels	GCST90199920	8218	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199901-GCST90200000/GCST90199920/GCST90199920_buildGRCh38.ts

Dihydroferulate levels	GCST90199921	6398	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199921/GCST90199921_buildGRCh38.ts
Prolylglycine levels	GCST90199922	7907	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199922/GCST90199922_buildGRCh38.ts
N-palmitoylglycine levels	GCST90199923	8236	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199923/GCST90199923_buildGRCh38.ts
N-methyltaurine levels	GCST90199924	5440	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199924/GCST90199924_buildGRCh38.ts
Succinimide levels	GCST90199925	5865	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199925/GCST90199925_buildGRCh38.ts
N-acetylcarnosine levels	GCST90199926	8233	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199926/GCST90199926_buildGRCh38.ts
Histidine betaine (hercynine) levels	GCST90199927	7518	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199927/GCST90199927_buildGRCh38.ts
2-stearoyl-GPE (18:0) levels	GCST90199928	8073	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199928/GCST90199928_buildGRCh38.ts
Margaroylcarnitine (C17) levels	GCST90199929	8112	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199929/GCST90199929_buildGRCh38.ts
(R)-3-hydroxybutyrylcarnitine levels	GCST90199930	7787	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199930/GCST90199930_buildGRCh38.ts
Lanthionine levels	GCST90199931	7760	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199931/GCST90199931_buildGRCh38.ts
Mannonate levels	GCST90199932	8166	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199932/GCST90199932_buildGRCh38.ts

3b-hydroxy-5-cholenoic acid levels	GCST90199933	6846	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199933/GCST90199933_buildGRCh38.ts
2-hydroxydecanoate levels	GCST90199934	8267	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199934/GCST90199934_buildGRCh38.ts
Glycohyocholate levels	GCST90199935	7095	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199935/GCST90199935_buildGRCh38.ts
3-methyl catechol sulfate (2) levels	GCST90199936	6320	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199936/GCST90199936_buildGRCh38.ts
2-aminooctanoate levels	GCST90199937	8178	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199937/GCST90199937_buildGRCh38.ts
3-methyl catechol sulfate (1) levels	GCST90199938	8233	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199938/GCST90199938_buildGRCh38.ts
4-methylcatechol sulfate levels	GCST90199939	8229	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199939/GCST90199939_buildGRCh38.ts
Guaiacol sulfate levels	GCST90199940	8262	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199940/GCST90199940_buildGRCh38.ts
Gamma-CEHC glucuronide levels	GCST90199941	6305	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199941/GCST90199941_buildGRCh38.ts
Dimethyl sulfone levels	GCST90199942	7905	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199942/GCST90199942_buildGRCh38.ts
2-piperidinone levels	GCST90199943	8225	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199943/GCST90199943_buildGRCh38.ts
Indolin-2-one levels	GCST90199944	7027	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199944/GCST90199944_buildGRCh38.ts

Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199945/GCST90199945_buildGRCh38.ts
3-acetylphenol sulfate levels	GCST90199946	6897	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199946/GCST90199946_buildGRCh38.ts
Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	8272	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199947/GCST90199947_buildGRCh38.ts
S-allylcysteine levels	GCST90199948	6857	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199948/GCST90199948_buildGRCh38.ts
6-oxopiperidine-2-carboxylate levels	GCST90199949	8032	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199949/GCST90199949_buildGRCh38.ts
2-aminophenol sulfate levels	GCST90199950	8264	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199950/GCST90199950_buildGRCh38.ts
N-acetyllalliin levels	GCST90199951	5432	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199951/GCST90199951_buildGRCh38.ts
2-aminoheptanoate levels	GCST90199952	8238	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199952/GCST90199952_buildGRCh38.ts
3-methoxytyramine sulfate levels	GCST90199953	5419	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199953/GCST90199953_buildGRCh38.ts
N2,N5-diacetylmethionine levels	GCST90199954	7596	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199954/GCST90199954_buildGRCh38.ts
Ferulic acid 4-sulfate levels	GCST90199955	7332	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199955/GCST90199955_buildGRCh38.ts
1H-indole-7-acetic acid levels	GCST90199956	5986	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199956/GCST90199956_buildGRCh38.ts

3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	5773	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199957/GCST90199957_buildGRCh38.ts
1-linolenoyl-GPC (18:3) levels	GCST90199958	8261	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199958/GCST90199958_buildGRCh38.ts
O-sulfo-l-tyrosine levels	GCST90199959	8229	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199959/GCST90199959_buildGRCh38.ts
N-formylanthranilic acid levels	GCST90199960	7534	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199960/GCST90199960_buildGRCh38.ts
Methionine sulfone levels	GCST90199961	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199961/GCST90199961_buildGRCh38.ts
Acisoga levels	GCST90199962	7489	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199962/GCST90199962_buildGRCh38.ts
17alpha-hydroxypregnanolone glucuronide levels	GCST90199963	5582	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199963/GCST90199963_buildGRCh38.ts
Etiocholanolone glucuronide levels	GCST90199964	7821	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199964/GCST90199964_buildGRCh38.ts
Fructosyllysine levels	GCST90199965	8238	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199965/GCST90199965_buildGRCh38.ts
1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	8157	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199966/GCST90199966_buildGRCh38.ts
N-acetyltaurine levels	GCST90199967	8160	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199967/GCST90199967_buildGRCh38.ts
1-palmitoyl-GPG (16:0) levels	GCST90199968	7708	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199968/GCST90199968_buildGRCh38.ts

1-oleoyl-GPG (18:1) levels	GCST90199969	6990	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199969/GCST90199969_buildGRCh38.ts
Octadecenedioylcarnitine (C18:1-DC) levels	GCST90199970	8245	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199970/GCST90199970_buildGRCh38.ts
3-methylglutaryl carnitine (2) levels	GCST90199971	8220	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199971/GCST90199971_buildGRCh38.ts
Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	8267	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199972/GCST90199972_buildGRCh38.ts
Methyl glucopyranoside (alpha + beta) levels	GCST90199973	7973	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199973/GCST90199973_buildGRCh38.ts
9-hydroxystearate levels	GCST90199974	7474	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199974/GCST90199974_buildGRCh38.ts
Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	8278	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199975/GCST90199975_buildGRCh38.ts
1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	6470	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199976/GCST90199976_buildGRCh38.ts
4-hydroxychlorothalonil levels	GCST90199977	8216	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199977/GCST90199977_buildGRCh38.ts
Vanillactate levels	GCST90199978	7935	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199978/GCST90199978_buildGRCh38.ts
Carnitine C14:1 levels	GCST90199979	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199979/GCST90199979_buildGRCh38.ts
N-formylphenylalanine levels	GCST90199980	7229	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199980/GCST90199980_buildGRCh38.ts

2-acetamidophenol sulfate levels	GCST90199981	6984	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199981/GCST90199981_buildGRCh38.ts
4-vinylguaiacol sulfate levels	GCST90199982	7592	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199982/GCST90199982_buildGRCh38.ts
5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	5920	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199983/GCST90199983_buildGRCh38.ts
Vanillic alcohol sulfate levels	GCST90199984	5076	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199984/GCST90199984_buildGRCh38.ts
Methyl-4-hydroxybenzoate sulfate levels	GCST90199985	8285	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199985/GCST90199985_buildGRCh38.ts
Eugenol sulfate levels	GCST90199986	7063	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199986/GCST90199986_buildGRCh38.ts
2-methoxyresorcinol sulfate levels	GCST90199987	5897	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199987/GCST90199987_buildGRCh38.ts
Tyramine O-sulfate levels	GCST90199988	7254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199988/GCST90199988_buildGRCh38.ts
4-methylguaiacol sulfate levels	GCST90199989	7141	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199989/GCST90199989_buildGRCh38.ts
3-hydroxypyridine sulfate levels	GCST90199990	8270	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199990/GCST90199990_buildGRCh38.ts
Arabonate/xylonate levels	GCST90199991	8211	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199991/GCST90199991_buildGRCh38.ts
Octadecanedioylcarnitine (C18-DC) levels	GCST90199992	8049	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199992/GCST90199992_buildGRCh38.ts

Phenylacetylcarnitine levels	GCST90199993	8127	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199993/GCST90199993_buildGRCh38.ts
Ethylparaben sulfate levels	GCST90199994	6408	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199994/GCST90199994_buildGRCh38.ts
Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2) levels	GCST90199995	8124	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199995/GCST90199995_buildGRCh38.ts
Sphingomyelin (d18:1/20:1, d18:2/20:0) levels	GCST90199996	8255	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199996/GCST90199996_buildGRCh38.ts
Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199997/GCST90199997_buildGRCh38.ts
Propyl 4-hydroxybenzoate sulfate levels	GCST90199998	7855	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199998/GCST90199998_buildGRCh38.ts
4-methoxyphenol sulfate levels	GCST90199999	7500	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90199999/GCST90199999_buildGRCh38.ts
Umbelliferone sulfate levels	GCST90200000	5598	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90199001-GCST90200000/GCST90200000/GCST90200000_buildGRCh38.ts
Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200001/GCST90200001_buildGRCh38.ts
6-hydroxyindole sulfate levels	GCST90200002	8229	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200002/GCST90200002_buildGRCh38.ts
P-cresol glucuronide levels	GCST90200003	7969	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200003/GCST90200003_buildGRCh38.ts
N-carbamoylalanine levels	GCST90200004	7315	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200004/GCST90200004_buildGRCh38.ts

Citraconate/glutaconate levels	GCST90200005	8263	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200005/GCST90200005_buildGRCh38.ts
1,2,3-benzenetriol sulfate (2) levels	GCST90200006	7484	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200006/GCST90200006_buildGRCh38.ts
3-methoxycatechol sulfate (2) levels	GCST90200007	7286	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200007/GCST90200007_buildGRCh38.ts
C-glycosyltryptophan levels	GCST90200008	8204	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200008/GCST90200008_buildGRCh38.ts
3-methoxycatechol sulfate (1) levels	GCST90200009	8194	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200009/GCST90200009_buildGRCh38.ts
Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1) levels	GCST90200010	8246	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200010/GCST90200010_buildGRCh38.ts
Arabitol/xylitol levels	GCST90200011	8219	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200011/GCST90200011_buildGRCh38.ts
3-hydroxyhexanoate levels	GCST90200012	8268	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200012/GCST90200012_buildGRCh38.ts
Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	8267	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200013/GCST90200013_buildGRCh38.ts
3beta-hydroxy-5-cholestenoate levels	GCST90200014	8259	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200014/GCST90200014_buildGRCh38.ts
N-acetylkynurenine (2) levels	GCST90200015	6193	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200015/GCST90200015_buildGRCh38.ts
Dopamine 4-sulfate levels	GCST90200016	6888	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200016/GCST90200016_buildGRCh38.ts

Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	8261	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200017_buildGRCh38.ts
Adipoylcarnitine (C6-DC) levels	GCST90200018	8216	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200018_buildGRCh38.ts
Dopamine 3-o-sulfate levels	GCST90200019	8252	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200019_buildGRCh38.ts
Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	8250	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200020_buildGRCh38.ts
N-acetylglucosamine/n-acetylgalactosamine levels	GCST90200021	7940	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200021_buildGRCh38.ts
Glycochenodeoxycholate 3-sulfate levels	GCST90200022	8123	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200022_buildGRCh38.ts
Trans 3,4-methyleneheptanoate levels	GCST90200023	7104	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200023_buildGRCh38.ts
Taurodeoxycholic acid 3-sulfate levels	GCST90200024	7333	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200024_buildGRCh38.ts
Phenol glucuronide levels	GCST90200025	4466	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200025_buildGRCh38.ts
Glycodeoxycholate 3-sulfate levels	GCST90200026	8066	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200026_buildGRCh38.ts
4-hydroxyphenylacetyl carnitine levels	GCST90200027	7523	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200027_buildGRCh38.ts
1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200028_buildGRCh38.ts

Linoleoyl ethanolamide levels	GCST90200029	7214	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200029/GCST90200029_buildGRCh38.ts
1,2-dilinoeoyl-GPC (18:2/18:2) levels	GCST90200030	8227	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200030/GCST90200030_buildGRCh38.ts
Nonanoylcarnitine (C9) levels	GCST90200031	7669	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200031/GCST90200031_buildGRCh38.ts
2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	8215	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200032/GCST90200032_buildGRCh38.ts
Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	8272	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200033/GCST90200033_buildGRCh38.ts
Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200034/GCST90200034_buildGRCh38.ts
Palmitoyl dihydrosphingomyelin (d18:0/16:0) levels	GCST90200035	8269	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200035/GCST90200035_buildGRCh38.ts
1-palmitoleoylglycerol (16:1) levels	GCST90200036	6432	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200036/GCST90200036_buildGRCh38.ts
1-stearoyl-2-linoleoyl-gpc (18:0/18:2) levels	GCST90200037	8231	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200037/GCST90200037_buildGRCh38.ts
1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	8276	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200038/GCST90200038_buildGRCh38.ts
1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	8241	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200039/GCST90200039_buildGRCh38.ts
Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	8273	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200040/GCST90200040_buildGRCh38.ts

1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	8271	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200041/GCST90200041_buildGRCh38.ts
Oleate/vaccenate (18:1) levels	GCST90200042	8230	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200042/GCST90200042_buildGRCh38.ts
1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	8256	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200043/GCST90200043_buildGRCh38.ts
1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	8258	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200044/GCST90200044_buildGRCh38.ts
1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	8259	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200045/GCST90200045_buildGRCh38.ts
1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200046/GCST90200046_buildGRCh38.ts
Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	8252	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200047/GCST90200047_buildGRCh38.ts
1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	8262	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200048/GCST90200048_buildGRCh38.ts
Myristoyl dihydrosphingomyelin (d18:0/14:0) levels	GCST90200049	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200049/GCST90200049_buildGRCh38.ts
5-hydroxyindole sulfate levels	GCST90200050	6163	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200050/GCST90200050_buildGRCh38.ts
1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 or 6) levels	GCST90200051	8230	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200051/GCST90200051_buildGRCh38.ts
1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	8251	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200052/GCST90200052_buildGRCh38.ts

Sphingomyelin (d18:1/21:0, d17:1/22:0, d16:1/23:0) levels	GCST90200053	8242	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200053/GCST90200053_buildGRCh38.ts
1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4) levels	GCST90200054	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200054/GCST90200054_buildGRCh38.ts
Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	8266	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200055/GCST90200055_buildGRCh38.ts
Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	8274	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200056/GCST90200056_buildGRCh38.ts
1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	8222	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200057/GCST90200057_buildGRCh38.ts
1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200058/GCST90200058_buildGRCh38.ts
Behenoyl dihydrosphingomyelin (d18:0/22:0) levels	GCST90200059	8275	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200059/GCST90200059_buildGRCh38.ts
1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200060/GCST90200060_buildGRCh38.ts
1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	8264	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200061/GCST90200061_buildGRCh38.ts
1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	8057	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200062/GCST90200062_buildGRCh38.ts
1-palmitoyl-2-docosahexaenoyl-GPE (16:0/22:6) levels	GCST90200063	8262	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200063/GCST90200063_buildGRCh38.ts
N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	8208	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200064/GCST90200064_buildGRCh38.ts

1-stearoyl-2-docosaheptaenoyl-GPE (18:0/22:6) levels	GCST90200065	8251	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200065/GCST90200065_buildGRCh38.ts
Gamma-tocopherol/beta-tocopherol levels	GCST90200066	8231	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200066/GCST90200066_buildGRCh38.ts
1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	8113	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200067/GCST90200067_buildGRCh38.ts
1,2-dilinoleoyl-GPE (18:2/18:2) levels	GCST90200068	6804	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200068/GCST90200068_buildGRCh38.ts
Phenylacetylglutamate levels	GCST90200069	6227	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200069/GCST90200069_buildGRCh38.ts
1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	8083	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200070/GCST90200070_buildGRCh38.ts
Palmitoylcholine levels	GCST90200071	8209	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200071/GCST90200071_buildGRCh38.ts
Thioproline levels	GCST90200072	8226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200072/GCST90200072_buildGRCh38.ts
1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	8063	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200073/GCST90200073_buildGRCh38.ts
1-linoleoyl-GPG (18:2) levels	GCST90200074	8115	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200074/GCST90200074_buildGRCh38.ts
1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200075/GCST90200075_buildGRCh38.ts
1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	8261	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200076/GCST90200076_buildGRCh38.ts

1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	8111	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200077/GCST90200077_buildGRCh38.ts
1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	8264	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200078/GCST90200078_buildGRCh38.ts
1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	8121	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200079/GCST90200079_buildGRCh38.ts
1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	8123	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200080/GCST90200080_buildGRCh38.ts
1-oleoyl-2-docosaehaenoyl-GPC (18:1/22:6) levels	GCST90200081	8267	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200081/GCST90200081_buildGRCh38.ts
1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	8205	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200082/GCST90200082_buildGRCh38.ts
1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) levels	GCST90200083	8266	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200083/GCST90200083_buildGRCh38.ts
Oleoylcholine levels	GCST90200084	8120	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200084/GCST90200084_buildGRCh38.ts
Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	8245	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200085/GCST90200085_buildGRCh38.ts
Arachidonoylcholine levels	GCST90200086	8170	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200086/GCST90200086_buildGRCh38.ts
2-methylserine levels	GCST90200087	7722	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200087/GCST90200087_buildGRCh38.ts
(S)-3-hydroxybutyrylcarnitine levels	GCST90200088	8249	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200088/GCST90200088_buildGRCh38.ts

Methylsuccinoylcarnitine levels	GCST90200089	8004	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200089/GCST90200089_buildGRCh38.ts
Dihomo-linolenoyl-choline levels	GCST90200090	6954	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200090/GCST90200090_buildGRCh38.ts
Docosahexaenoylcholine levels	GCST90200091	7440	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200091/GCST90200091_buildGRCh38.ts
Glycocholate glucuronide (1) levels	GCST90200092	4381	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200092/GCST90200092_buildGRCh38.ts
Caffeic acid sulfate levels	GCST90200093	7798	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200093/GCST90200093_buildGRCh38.ts
Ascorbic acid 2-sulfate levels	GCST90200094	8089	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200094/GCST90200094_buildGRCh38.ts
1-linoleoyl-2-linolenoyl-GPC (18:2/18:3) levels	GCST90200095	8188	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200095/GCST90200095_buildGRCh38.ts
Catechol glucuronide levels	GCST90200096	4698	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200096/GCST90200096_buildGRCh38.ts
Furaneol sulfate levels	GCST90200097	5882	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200097/GCST90200097_buildGRCh38.ts
Ceramide (d18:1/24:1) levels	GCST90200098	8265	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200098/GCST90200098_buildGRCh38.ts
N-oleoylserine levels	GCST90200099	7591	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200099/GCST90200099_buildGRCh38.ts
Perfluorooctanesulfonate (PFOS) levels	GCST90200100	8218	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200100/GCST90200100_buildGRCh38.ts

Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	7837	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200101/GCST90200101_buildGRCh38.ts
1-palmitoleoyl-2-linolenoyl-GPC (16:1/18:3) levels	GCST90200102	7540	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200102/GCST90200102_buildGRCh38.ts
Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [1] levels	GCST90200103	7731	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200103/GCST90200103_buildGRCh38.ts
Hexadecadienoate (16:2n6) levels	GCST90200104	8274	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200104/GCST90200104_buildGRCh38.ts
Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	8232	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200105/GCST90200105_buildGRCh38.ts
4-hydroxyphenylacetylglutamine levels	GCST90200106	7752	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200106/GCST90200106_buildGRCh38.ts
Gamma-glutamyl-alpha-lysine levels	GCST90200107	8250	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200107/GCST90200107_buildGRCh38.ts
N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	7805	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200108/GCST90200108_buildGRCh38.ts
Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2] levels	GCST90200109	7744	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200109/GCST90200109_buildGRCh38.ts
Palmitoleoylcarnitine (C16:1) levels	GCST90200110	8263	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200110/GCST90200110_buildGRCh38.ts
N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	7229	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200111/GCST90200111_buildGRCh38.ts
2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	8018	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200112/GCST90200112_buildGRCh38.ts

Stearoylcholine levels	GCST90200113	7140	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200113/GCST90200113_buildGRCh38.ts
Glycosyl-N-tricosanoyl-sphingadienine (d18:2/23:0) levels	GCST90200114	7274	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200114/GCST90200114_buildGRCh38.ts
N-palmitoyl-heptadecasphingosine (d17:1/16:0) levels	GCST90200115	7141	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200115/GCST90200115_buildGRCh38.ts
Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	7270	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200116/GCST90200116_buildGRCh38.ts
Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2OH)) levels	GCST90200117	8012	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200117/GCST90200117_buildGRCh38.ts
Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	8251	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200118/GCST90200118_buildGRCh38.ts
Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	5309	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200119/GCST90200119_buildGRCh38.ts
Sphingadienine levels	GCST90200120	4533	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200120/GCST90200120_buildGRCh38.ts
Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	6073	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200121/GCST90200121_buildGRCh38.ts
Nisinate (24:6n3) levels	GCST90200122	4765	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200122/GCST90200122_buildGRCh38.ts
Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	8277	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200123/GCST90200123_buildGRCh38.ts
Sphingomyelin (d18:2/24:2) levels	GCST90200124	8140	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200124/GCST90200124_buildGRCh38.ts

Sphingomyelin (d17:2/16:0, d18:2/15:0) levels	GCST90200125	8264	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200125/GCST90200125_buildGRCh38.ts
Sphingomyelin (d18:2/23:1) levels	GCST90200126	8267	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200126/GCST90200126_buildGRCh38.ts
Behenoylcarnitine (C22) levels	GCST90200127	7368	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200127/GCST90200127_buildGRCh38.ts
Sphingomyelin (d18:2/18:1) levels	GCST90200128	8253	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200128/GCST90200128_buildGRCh38.ts
Sphingomyelin (d18:2/21:0, d16:2/23:0) levels	GCST90200129	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200129/GCST90200129_buildGRCh38.ts
Linoleoylcholine levels	GCST90200130	8193	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200130/GCST90200130_buildGRCh38.ts
Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	8256	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200131/GCST90200131_buildGRCh38.ts
Linolenoylcarnitine (C18:3) levels	GCST90200132	8195	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200132/GCST90200132_buildGRCh38.ts
Heneicosapentaenoate (21:5n3) levels	GCST90200133	4827	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200133/GCST90200133_buildGRCh38.ts
Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	8126	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200134/GCST90200134_buildGRCh38.ts
Arachidoylcarnitine (C20) levels	GCST90200135	7682	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200135/GCST90200135_buildGRCh38.ts
Cerotoylcarnitine (C26) levels	GCST90200136	8266	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200136/GCST90200136_buildGRCh38.ts

Lignoceroylcarnitine (C24) levels	GCST90200137	8238	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200137/GCST90200137_buildGRCh38.ts
Docosatrienoate (22:3n6) levels	GCST90200138	5398	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200138/GCST90200138_buildGRCh38.ts
Dihomo-linolenoylcarnitine (C20:3n3 or 6) levels	GCST90200139	8092	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200139/GCST90200139_buildGRCh38.ts
Carotene diol (2) levels	GCST90200140	8196	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200140/GCST90200140_buildGRCh38.ts
Ethyl alpha-glucopyranoside levels	GCST90200141	6620	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200141/GCST90200141_buildGRCh38.ts
Carotene diol (1) levels	GCST90200142	8256	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200142/GCST90200142_buildGRCh38.ts
Nervonoylcarnitine (C24:1) levels	GCST90200143	7880	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200143/GCST90200143_buildGRCh38.ts
Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	7887	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200144/GCST90200144_buildGRCh38.ts
Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	8259	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200145/GCST90200145_buildGRCh38.ts
Docosahexaenoylcarnitine (C22:6) levels	GCST90200146	6287	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200146/GCST90200146_buildGRCh38.ts
N,N,N-trimethyl-5-aminovalerate levels	GCST90200147	8214	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200147/GCST90200147_buildGRCh38.ts
Eicosenoylcarnitine (C20:1) levels	GCST90200148	8145	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200148/GCST90200148_buildGRCh38.ts

Ximenoylcarnitine (C26:1) levels	GCST90200149	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200149/GCST90200149_buildGRCh38.ts
Arachidonoylcarnitine (C20:4) levels	GCST90200150	8202	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200150/GCST90200150_buildGRCh38.ts
5-dodecenoylcarnitine (C12:1) levels	GCST90200151	7899	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200151/GCST90200151_buildGRCh38.ts
2-butenoylglycine levels	GCST90200152	6253	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200152/GCST90200152_buildGRCh38.ts
(N(1) + N(8))-acetylspermidine levels	GCST90200153	8219	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200153/GCST90200153_buildGRCh38.ts
Hydroxy-cmpf levels	GCST90200154	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200154/GCST90200154_buildGRCh38.ts
2-furoylcarnitine levels	GCST90200155	6448	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200155/GCST90200155_buildGRCh38.ts
Cortolone glucuronide (1) levels	GCST90200156	8152	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200156/GCST90200156_buildGRCh38.ts
Carotene diol (3) levels	GCST90200157	7650	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200157/GCST90200157_buildGRCh38.ts
3-hydroxyoleoylcarnitine levels	GCST90200158	7532	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200158/GCST90200158_buildGRCh38.ts
Dodecenedioate (C12:1-DC) levels	GCST90200159	8217	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200159/GCST90200159_buildGRCh38.ts
Trans-2-hexenoylglycine levels	GCST90200160	6545	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200160/GCST90200160_buildGRCh38.ts

2-hydroxyarachidate levels	GCST90200161	8170	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200161/GCST90200161_buildGRCh38.ts
3-hydroxyphenylacetylglutamine levels	GCST90200162	5371	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200162/GCST90200162_buildGRCh38.ts
Heptenedioate (C7:1-DC) levels	GCST90200163	8128	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200163/GCST90200163_buildGRCh38.ts
Hexadecenedioate (C16:1-DC) levels	GCST90200164	8248	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200164/GCST90200164_buildGRCh38.ts
Octadecenedioate (C18:1-DC) levels	GCST90200165	8267	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200165/GCST90200165_buildGRCh38.ts
Dihydroferulic acid sulfate levels	GCST90200166	5188	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200166/GCST90200166_buildGRCh38.ts
Glutamine conjugate of C7H12O2 levels	GCST90200167	7881	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200167/GCST90200167_buildGRCh38.ts
Hydroxyasparagine levels	GCST90200168	8206	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200168/GCST90200168_buildGRCh38.ts
Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	8267	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200169/GCST90200169_buildGRCh38.ts
Octadecadienedioate (C18:2-DC) levels	GCST90200170	8231	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200170/GCST90200170_buildGRCh38.ts
Perfluorooctanoate (PFOA) levels	GCST90200171	8199	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200171/GCST90200171_buildGRCh38.ts
3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levels	GCST90200172	8234	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200172/GCST90200172_buildGRCh38.ts

Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	8233	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200173/GCST90200173_buildGRCh38.ts
3-hydroxybutyrylglycine levels	GCST90200174	8171	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200174/GCST90200174_buildGRCh38.ts
Glycine conjugate of C10H14O2 (1) levels	GCST90200175	8128	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200175/GCST90200175_buildGRCh38.ts
Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	7980	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200176/GCST90200176_buildGRCh38.ts
N-methylhydroxyproline levels	GCST90200177	6902	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200177/GCST90200177_buildGRCh38.ts
Glucuronide of C10H18O2 (7) levels	GCST90200178	6090	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200178/GCST90200178_buildGRCh38.ts
Glyco-beta-muricholate levels	GCST90200179	7206	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200179/GCST90200179_buildGRCh38.ts
Glucuronide of C12H22O4 (1) levels	GCST90200180	5831	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200180/GCST90200180_buildGRCh38.ts
N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	8220	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200181/GCST90200181_buildGRCh38.ts
Glycine conjugate of C10H12O2 levels	GCST90200182	6177	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200182/GCST90200182_buildGRCh38.ts
N-acetyl-2-aminooctanoate levels	GCST90200183	8253	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200183/GCST90200183_buildGRCh38.ts
3-formylindole levels	GCST90200184	8256	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200184/GCST90200184_buildGRCh38.ts

Gamma-glutamylcitrulline levels	GCST90200185	8163	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200185/GCST90200185_buildGRCh38.ts
8-methoxykynurenate levels	GCST90200186	6938	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200186/GCST90200186_buildGRCh38.ts
Tetradecadienoate (14:2) levels	GCST90200187	8255	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200187/GCST90200187_buildGRCh38.ts
3-amino-2-piperidone levels	GCST90200188	8237	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200188/GCST90200188_buildGRCh38.ts
Glucuronide of piperine metabolite C17H21NO3 (3) levels	GCST90200189	6512	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200189/GCST90200189_buildGRCh38.ts
Dodecadienoate (12:2) levels	GCST90200190	8244	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200190/GCST90200190_buildGRCh38.ts
N-lactoyl tyrosine levels	GCST90200191	6389	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200191/GCST90200191_buildGRCh38.ts
N,N-dimethylalanine levels	GCST90200192	8219	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200192/GCST90200192_buildGRCh38.ts
Ethyl beta-glucopyranoside levels	GCST90200193	8152	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200193/GCST90200193_buildGRCh38.ts
N-lactoyl phenylalanine levels	GCST90200194	8223	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200194/GCST90200194_buildGRCh38.ts
N-acetyl-isoptreanine levels	GCST90200195	8236	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200195/GCST90200195_buildGRCh38.ts
2,2'-Methylenebis(6-tert-butyl-p-cresol) levels	GCST90200196	7397	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200196/GCST90200196_buildGRCh38.ts

N-lactoyl isoleucine levels	GCST90200197	7526	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200197/GCST90200197_buildGRCh38.ts
2-hydroxysebacate levels	GCST90200198	7865	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200198/GCST90200198_buildGRCh38.ts
Ascorbic acid 3-sulfate levels	GCST90200199	8186	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200199/GCST90200199_buildGRCh38.ts
N-lactoyl valine levels	GCST90200200	8133	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200200/GCST90200200_buildGRCh38.ts
6-bromotryptophan levels	GCST90200201	8214	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200201/GCST90200201_buildGRCh38.ts
Delta-CEHC levels	GCST90200202	6233	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200202/GCST90200202_buildGRCh38.ts
Indoleacetyl carnitine levels	GCST90200203	7777	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200203/GCST90200203_buildGRCh38.ts
N-acetyl leucine levels	GCST90200204	7646	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200204/GCST90200204_buildGRCh38.ts
3-indoleglyoxylic acid levels	GCST90200205	7848	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200205/GCST90200205_buildGRCh38.ts
Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	7021	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200206/GCST90200206_buildGRCh38.ts
Methyl vanillate sulfate levels	GCST90200207	4303	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200207/GCST90200207_buildGRCh38.ts
Glucuronide of piperine metabolite C17H21NO3 (4) levels	GCST90200208	7833	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200208/GCST90200208_buildGRCh38.ts

Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	7705	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200209/GCST90200209_buildGRCh38.ts
Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	7950	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200210/GCST90200210_buildGRCh38.ts
3-hydroxypyridine glucuronide levels	GCST90200211	5882	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200211/GCST90200211_buildGRCh38.ts
Glucuronide of piperine metabolite C17H21NO3 (5) levels	GCST90200212	6582	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200212/GCST90200212_buildGRCh38.ts
2-naphthol sulfate levels	GCST90200213	7673	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200213/GCST90200213_buildGRCh38.ts
11beta-hydroxyandrosterone glucuronide levels	GCST90200214	8081	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200214/GCST90200214_buildGRCh38.ts
4-ethylcatechol sulfate levels	GCST90200215	8222	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200215/GCST90200215_buildGRCh38.ts
Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	7006	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200216/GCST90200216_buildGRCh38.ts
(2,4 or 2,5)-dimethylphenol sulfate levels	GCST90200217	5189	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200217/GCST90200217_buildGRCh38.ts
11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	7220	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200218/GCST90200218_buildGRCh38.ts
Cholic acid glucuronide levels	GCST90200219	4414	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200219/GCST90200219_buildGRCh38.ts
4-allylcatechol sulfate levels	GCST90200220	8139	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200220/GCST90200220_buildGRCh38.ts

Glycoursodeoxycholic acid sulfate (1) levels	GCST90200221	6622	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200221/GCST90200221_buildGRCh38.ts
Dihydrocaffeate sulfate (2) levels	GCST90200222	6519	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200222/GCST90200222_buildGRCh38.ts
4-methylhexanoylglutamine levels	GCST90200223	5576	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200223/GCST90200223_buildGRCh38.ts
2-ketocaprylate levels	GCST90200224	8240	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200224/GCST90200224_buildGRCh38.ts
3-hydroxy-2-methylpyridine sulfate levels	GCST90200225	7446	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200225/GCST90200225_buildGRCh38.ts
5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	6977	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200226/GCST90200226_buildGRCh38.ts
3-ethylcatechol sulfate (2) levels	GCST90200227	4814	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200227/GCST90200227_buildGRCh38.ts
3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	8227	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200228/GCST90200228_buildGRCh38.ts
2,6-dihydroxybenzoic acid levels	GCST90200229	8269	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200229/GCST90200229_buildGRCh38.ts
3-ethylcatechol sulfate (1) levels	GCST90200230	7062	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200230/GCST90200230_buildGRCh38.ts
Lithocholate sulfate (1) levels	GCST90200231	7891	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200231/GCST90200231_buildGRCh38.ts
4-acetylcatechol sulfate (1) levels	GCST90200232	7565	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200232/GCST90200232_buildGRCh38.ts

2,3-dihydroxy-5-methylthio-4-pentenoate (dmtpa) levels	GCST90200233	8225	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200233/GCST90200233_buildGRCh38.ts
Picolinoylglycine levels	GCST90200234	7862	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200234/GCST90200234_buildGRCh38.ts
Succinoyltaurine levels	GCST90200235	7897	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200235/GCST90200235_buildGRCh38.ts
Undecenoylcarnitine (C11:1) levels	GCST90200236	8253	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200236/GCST90200236_buildGRCh38.ts
Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	8140	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200237/GCST90200237_buildGRCh38.ts
Pregnenetriol disulfate levels	GCST90200238	8228	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200238/GCST90200238_buildGRCh38.ts
Tetradecadienedioate (C14:2-DC) levels	GCST90200239	7857	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200239/GCST90200239_buildGRCh38.ts
Hydroxy-N6,N6,N6-trimethyllysine levels	GCST90200240	8190	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200240/GCST90200240_buildGRCh38.ts
Pregnenetriol sulfate levels	GCST90200241	8233	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200241/GCST90200241_buildGRCh38.ts
Taurochenodeoxycholic acid 3-sulfate levels	GCST90200242	7157	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200242/GCST90200242_buildGRCh38.ts
Hydroxypalmitoyl sphingomyelin (d18:1/16:0(OH)) levels	GCST90200243	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200243/GCST90200243_buildGRCh38.ts
5-hydroxymethyl-2-furoylcarnitine levels	GCST90200244	4803	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200244/GCST90200244_buildGRCh38.ts

Eicosenedioate (C20:1-DC) levels	GCST90200245	7861	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200245/GCST90200245_buildGRCh38.ts
3-hydroxydecanoylcarnitine levels	GCST90200246	8237	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200246/GCST90200246_buildGRCh38.ts
Levulinoylcarnitine levels	GCST90200247	7197	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200247/GCST90200247_buildGRCh38.ts
Cis 3,4-methyleneheptanoate levels	GCST90200248	8223	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200248/GCST90200248_buildGRCh38.ts
Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	8256	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200249/GCST90200249_buildGRCh38.ts
Deoxycholic acid 12-sulfate levels	GCST90200250	7438	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200250/GCST90200250_buildGRCh38.ts
Branched-chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	8265	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200251/GCST90200251_buildGRCh38.ts
3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	8218	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200252/GCST90200252_buildGRCh38.ts
Vanillic acid glycine levels	GCST90200253	7512	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200253/GCST90200253_buildGRCh38.ts
(S)-a-amino-omega-caprolactam levels	GCST90200254	8185	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200254/GCST90200254_buildGRCh38.ts
3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	8127	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200255/GCST90200255_buildGRCh38.ts
Dibutyl sulfosuccinate levels	GCST90200256	8099	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200256/GCST90200256_buildGRCh38.ts

Metabolonic lactone sulfate levels	GCST90200257	8203	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200257/GCST90200257_buildGRCh38.ts
2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	8255	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200258/GCST90200258_buildGRCh38.ts
Pentose acid levels	GCST90200259	8235	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200259/GCST90200259_buildGRCh38.ts
Branched chain 14:0 dicarboxylic acid levels	GCST90200260	7990	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200260/GCST90200260_buildGRCh38.ts
S-carboxyethylcysteine levels	GCST90200261	8010	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200261/GCST90200261_buildGRCh38.ts
N-succinyl-phenylalanine levels	GCST90200262	6199	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200262/GCST90200262_buildGRCh38.ts
(2 or 3)-decenoate (10:1n7 or n8) levels	GCST90200263	8124	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200263/GCST90200263_buildGRCh38.ts
Bilirubin degradation product, C ₁₇ H ₂₀ N ₂ O ₅ (2) levels	GCST90200264	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200264/GCST90200264_buildGRCh38.ts
Bilirubin degradation product, C ₁₆ H ₁₈ N ₂ O ₅ (4) levels	GCST90200265	8159	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200265/GCST90200265_buildGRCh38.ts
Cis-3,4-methyleneheptanoylcarnitine levels	GCST90200266	8259	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200266/GCST90200266_buildGRCh38.ts
Tetrahydrocortisol glucuronide levels	GCST90200267	8182	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200267/GCST90200267_buildGRCh38.ts
N-acetyl-2-aminoadipate levels	GCST90200268	7606	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200268/GCST90200268_buildGRCh38.ts

Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	8252	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200269/GCST90200269_buildGRCh38.ts
2-methoxyhydroquinone sulfate (1) levels	GCST90200270	7487	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200270/GCST90200270_buildGRCh38.ts
Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	7970	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200271/GCST90200271_buildGRCh38.ts
3-hydroxyoctanoylcarnitine (1) levels	GCST90200272	8245	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200272/GCST90200272_buildGRCh38.ts
2-methoxyhydroquinone sulfate (2) levels	GCST90200273	5778	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200273/GCST90200273_buildGRCh38.ts
Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	8106	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200274/GCST90200274_buildGRCh38.ts
Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	8252	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200275/GCST90200275_buildGRCh38.ts
2,4-di-tert-butylphenol levels	GCST90200276	8251	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200276/GCST90200276_buildGRCh38.ts
Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	7864	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200277/GCST90200277_buildGRCh38.ts
3-hydroxyoctanoylcarnitine (2) levels	GCST90200278	8243	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200278/GCST90200278_buildGRCh38.ts
Pantothenate levels	GCST90200279	8194	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200279/GCST90200279_buildGRCh38.ts
5-oxoproline levels	GCST90200280	8247	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200280/GCST90200280_buildGRCh38.ts

Phosphoethanolamine levels	GCST90200281	8253	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200281/GCST90200281_buildGRCh38.ts
Picolinate levels	GCST90200282	7051	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200282/GCST90200282_buildGRCh38.ts
3-ureidopropionate levels	GCST90200283	7543	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200283/GCST90200283_buildGRCh38.ts
Erucate (22:1n9) levels	GCST90200284	8208	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200284/GCST90200284_buildGRCh38.ts
Eicosenedioate (C20:1-DC) levels	GCST90200285	8166	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200285/GCST90200285_buildGRCh38.ts
Allantoin levels	GCST90200286	8252	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200286/GCST90200286_buildGRCh38.ts
N-acetylvaline levels	GCST90200287	8218	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200287/GCST90200287_buildGRCh38.ts
N-acetylleucine levels	GCST90200288	7905	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200288/GCST90200288_buildGRCh38.ts
N-acetylmethionine levels	GCST90200289	7993	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200289/GCST90200289_buildGRCh38.ts
Glycerate levels	GCST90200290	8222	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200290/GCST90200290_buildGRCh38.ts
Sarcosine levels	GCST90200291	8223	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200291/GCST90200291_buildGRCh38.ts
Trans-4-hydroxyproline levels	GCST90200292	8252	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200292/GCST90200292_buildGRCh38.ts

Thyroxine levels	GCST90200293	8262	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200293/GCST90200293_buildGRCh38.ts
Pipecolate levels	GCST90200294	8161	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200294/GCST90200294_buildGRCh38.ts
Gamma-glutamyltyrosine levels	GCST90200295	8221	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200295/GCST90200295_buildGRCh38.ts
Methyl indole-3-acetate levels	GCST90200296	7032	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200296/GCST90200296_buildGRCh38.ts
Ursodeoxycholate levels	GCST90200297	6206	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200297/GCST90200297_buildGRCh38.ts
3-hydroxy-3-methylglutarate levels	GCST90200298	8073	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200298/GCST90200298_buildGRCh38.ts
Oleoyl ethanolamide levels	GCST90200299	8243	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200299/GCST90200299_buildGRCh38.ts
4-hydroxyphenylpyruvate levels	GCST90200300	7813	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200300/GCST90200300_buildGRCh38.ts
Gamma-glutamylglutamine levels	GCST90200301	8217	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200301/GCST90200301_buildGRCh38.ts
Alpha-tocopherol levels	GCST90200302	8192	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200302/GCST90200302_buildGRCh38.ts
N-acetyl-L-alanine levels	GCST90200303	8220	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200303/GCST90200303_buildGRCh38.ts
Citrate levels	GCST90200304	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200304/GCST90200304_buildGRCh38.ts

2-aminobutyrate levels	GCST90200305	8242	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200305/GCST90200305_buildGRCh38.ts
Butyrate/isobutyrate (4:0) levels	GCST90200306	8004	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200306/GCST90200306_buildGRCh38.ts
Urate levels	GCST90200307	8264	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200307/GCST90200307_buildGRCh38.ts
3-hydroxyisobutyrate levels	GCST90200308	8177	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200308/GCST90200308_buildGRCh38.ts
Vanillylmandelate (VMA) levels	GCST90200309	8216	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200309/GCST90200309_buildGRCh38.ts
3-aminoisobutyrate levels	GCST90200310	8265	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200310/GCST90200310_buildGRCh38.ts
4-acetamidobutanoate levels	GCST90200311	8154	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200311/GCST90200311_buildGRCh38.ts
2-hydroxystearate levels	GCST90200312	8241	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200312/GCST90200312_buildGRCh38.ts
N1-methyladenosine levels	GCST90200313	8247	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200313/GCST90200313_buildGRCh38.ts
N-acetylneuraminate levels	GCST90200314	8200	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200314/GCST90200314_buildGRCh38.ts
Gamma-glutamylhistidine levels	GCST90200315	8220	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200315/GCST90200315_buildGRCh38.ts
N-acetylglucosaminylasparagine levels	GCST90200316	8144	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200316/GCST90200316_buildGRCh38.ts

Homovanillate (hva) levels	GCST90200317	6320	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200317/GCST90200317_buildGRCh38.ts
Acetoacetate levels	GCST90200318	6883	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200318/GCST90200318_buildGRCh38.ts
Cys-gly, oxidized levels	GCST90200319	8256	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200319/GCST90200319_buildGRCh38.ts
Dihomo-linoleate (20:2n6) levels	GCST90200320	8284	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200320/GCST90200320_buildGRCh38.ts
Cholate levels	GCST90200321	7892	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200321/GCST90200321_buildGRCh38.ts
Beta-hydroxyisovalerate levels	GCST90200322	8201	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200322/GCST90200322_buildGRCh38.ts
Creatine levels	GCST90200323	8285	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200323/GCST90200323_buildGRCh38.ts
Anthranilate levels	GCST90200324	5773	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200324/GCST90200324_buildGRCh38.ts
Glycerol levels	GCST90200325	8285	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200325/GCST90200325_buildGRCh38.ts
Gamma-glutamylleucine levels	GCST90200326	8041	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200326/GCST90200326_buildGRCh38.ts
Choline levels	GCST90200327	8262	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200327/GCST90200327_buildGRCh38.ts
3-methoxytyrosine levels	GCST90200328	8258	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200328/GCST90200328_buildGRCh38.ts

3-phosphoglycerate levels	GCST90200329	8196	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200329/GCST90200329_buildGRCh38.ts
1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	8230	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200330/GCST90200330_buildGRCh38.ts
1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	8262	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200331/GCST90200331_buildGRCh38.ts
1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	8115	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200332/GCST90200332_buildGRCh38.ts
Taurocholic acid levels	GCST90200333	7743	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200333/GCST90200333_buildGRCh38.ts
Taurodeoxycholate levels	GCST90200334	7287	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200334/GCST90200334_buildGRCh38.ts
Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	8258	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200335/GCST90200335_buildGRCh38.ts
Ceramide (d18:1/16:0) levels	GCST90200336	8266	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200336/GCST90200336_buildGRCh38.ts
Taurochenodeoxycholate levels	GCST90200337	8048	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200337/GCST90200337_buildGRCh38.ts
4-hydroxyphenylacetate levels	GCST90200338	7906	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200338/GCST90200338_buildGRCh38.ts
5,6-dihydrothymine levels	GCST90200339	8219	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200339/GCST90200339_buildGRCh38.ts
1-palmitoyl-2-oleoyl-gpc (16:0/18:1) levels	GCST90200340	8249	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200340/GCST90200340_buildGRCh38.ts

N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200341/GCST90200341_buildGRCh38.ts
Glycochenodeoxycholate levels	GCST90200342	8164	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200342/GCST90200342_buildGRCh38.ts
N-formylmethionine levels	GCST90200343	8235	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200343/GCST90200343_buildGRCh38.ts
N6,n6,n6-trimethyllysine levels	GCST90200344	8180	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200344/GCST90200344_buildGRCh38.ts
S-adenosylhomocysteine (SAH) levels	GCST90200345	6142	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200345/GCST90200345_buildGRCh38.ts
4-acetaminophen sulfate levels	GCST90200346	4197	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200346/GCST90200346_buildGRCh38.ts
2-hydroxyhippurate (salicylurate) levels	GCST90200347	8244	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200347/GCST90200347_buildGRCh38.ts
Quinolate levels	GCST90200348	8203	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200348/GCST90200348_buildGRCh38.ts
Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200349/GCST90200349_buildGRCh38.ts
Laurate (12:0) levels	GCST90200350	8226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200350/GCST90200350_buildGRCh38.ts
N-acetylputrescine levels	GCST90200351	8243	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200351/GCST90200351_buildGRCh38.ts
Methylsuccinate levels	GCST90200352	7965	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200352/GCST90200352_buildGRCh38.ts

9,10-DiHOME levels	GCST90200353	7557	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200353/GCST90200353_buildGRCh38.ts
Linoleate (18:2n6) levels	GCST90200354	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200354/GCST90200354_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) levels	GCST90200355	4607	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200355/GCST90200355_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) levels	GCST90200356	8218	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200356/GCST90200356_buildGRCh38.ts
Adenosine 3',5'-cyclic monophosphate (camp) levels	GCST90200357	6756	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200357/GCST90200357_buildGRCh38.ts
Arachidonate (20:4n6) levels	GCST90200358	8272	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200358/GCST90200358_buildGRCh38.ts
5-methylthioadenosine (mta) levels	GCST90200359	8210	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200359/GCST90200359_buildGRCh38.ts
Cortisone levels	GCST90200360	8153	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200360/GCST90200360_buildGRCh38.ts
Beta-alanine levels	GCST90200361	8114	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200361/GCST90200361_buildGRCh38.ts
Succinate levels	GCST90200362	7943	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200362/GCST90200362_buildGRCh38.ts
Phosphocholine levels	GCST90200363	8245	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200363/GCST90200363_buildGRCh38.ts
Cysteinylglycine levels	GCST90200364	8214	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200364/GCST90200364_buildGRCh38.ts

Phenylpyruvate levels	GCST90200365	8241	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200365/GCST90200365_buildGRCh38.ts
Creatinine levels	GCST90200366	8239	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200366/GCST90200366_buildGRCh38.ts
3-Hydroxybutyrate levels	GCST90200367	8292	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200367/GCST90200367_buildGRCh38.ts
Cholesterol levels	GCST90200368	8258	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200368/GCST90200368_buildGRCh38.ts
2-hydroxyphenylacetate levels	GCST90200369	7564	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200369/GCST90200369_buildGRCh38.ts
Aspartate levels	GCST90200370	8253	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200370/GCST90200370_buildGRCh38.ts
3-(4-hydroxyphenyl)lactate levels	GCST90200371	8259	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200371/GCST90200371_buildGRCh38.ts
Arginine levels	GCST90200372	8237	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200372/GCST90200372_buildGRCh38.ts
Gluconate levels	GCST90200373	8106	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200373/GCST90200373_buildGRCh38.ts
Sphinganine levels	GCST90200374	7429	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200374/GCST90200374_buildGRCh38.ts
Gamma-glutamylglutamate levels	GCST90200375	8244	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200375/GCST90200375_buildGRCh38.ts
Flavin adenine dinucleotide (FAD) levels	GCST90200376	6257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200376/GCST90200376_buildGRCh38.ts

Histidine levels	GCST90200377	8223	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200377/GCST90200377_buildGRCh38.ts
Cortisol levels (plasma)	GCST90200378	8193	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200378/GCST90200378_buildGRCh38.ts
Hypotaurine levels	GCST90200379	8212	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200379/GCST90200379_buildGRCh38.ts
Glutarate (C5-DC) levels	GCST90200380	7757	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200380/GCST90200380_buildGRCh38.ts
S-1-pyrroline-5-carboxylate levels	GCST90200381	8232	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200381/GCST90200381_buildGRCh38.ts
Cystine levels	GCST90200382	8177	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200382/GCST90200382_buildGRCh38.ts
Cystathionine levels	GCST90200383	8014	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200383/GCST90200383_buildGRCh38.ts
Guanidinoacetate levels	GCST90200384	8238	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200384/GCST90200384_buildGRCh38.ts
Sphingosine levels	GCST90200385	7982	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200385/GCST90200385_buildGRCh38.ts
Deoxycholate levels	GCST90200386	7649	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200386/GCST90200386_buildGRCh38.ts
Glycocholate levels	GCST90200387	8247	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200387/GCST90200387_buildGRCh38.ts
Palmitoleate (16:1n7) levels	GCST90200388	8290	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200388/GCST90200388_buildGRCh38.ts

Leucine levels	GCST90200389	8252	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200389/GCST90200389_buildGRCh38.ts
Stearate (18:0) levels	GCST90200390	8272	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200390/GCST90200390_buildGRCh38.ts
Methionine levels	GCST90200391	8222	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200391/GCST90200391_buildGRCh38.ts
Orotate levels	GCST90200392	8128	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200392/GCST90200392_buildGRCh38.ts
Phosphate levels (UKB data field 30810)	GCST90200393	8247	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200393/GCST90200393_buildGRCh38.ts
Inosine levels	GCST90200394	4940	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200394/GCST90200394_buildGRCh38.ts
Inosine 5'-monophosphate (IMP) levels	GCST90200395	4639	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200395/GCST90200395_buildGRCh38.ts
Phenylalanine levels	GCST90200396	8228	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200396/GCST90200396_buildGRCh38.ts
Palmitate (16:0) levels	GCST90200397	8269	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200397/GCST90200397_buildGRCh38.ts
Malate levels	GCST90200398	8187	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200398/GCST90200398_buildGRCh38.ts
Isoleucine levels	GCST90200399	8255	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200399/GCST90200399_buildGRCh38.ts
Nicotinamide levels	GCST90200400	8110	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200400/GCST90200400_buildGRCh38.ts

Myo-inositol levels	GCST90200401	8193	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200401/GCST90200401_buildGRCh38.ts
Lysine levels	GCST90200402	8250	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200402/GCST90200402_buildGRCh38.ts
Citrulline levels	GCST90200403	8157	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200403/GCST90200403_buildGRCh38.ts
Ornithine levels	GCST90200404	8255	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200404/GCST90200404_buildGRCh38.ts
Retinol (Vitamin A) levels	GCST90200405	8247	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200405/GCST90200405_buildGRCh38.ts
1-methylnicotinamide levels	GCST90200406	8194	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200406/GCST90200406_buildGRCh38.ts
Uridine levels	GCST90200407	8253	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200407/GCST90200407_buildGRCh38.ts
Plasma lactate levels	GCST90200408	8217	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200408/GCST90200408_buildGRCh38.ts
Pristanate levels	GCST90200409	6497	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200409/GCST90200409_buildGRCh38.ts
Phytanate levels	GCST90200410	8223	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200410/GCST90200410_buildGRCh38.ts
Plasma free proline levels	GCST90200411	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200411/GCST90200411_buildGRCh38.ts
Glutamate levels	GCST90200412	8287	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200412/GCST90200412_buildGRCh38.ts

2'-deoxyuridine levels	GCST90200413	7915	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200413/GCST90200413_buildGRCh38.ts
Myristate (14:0) levels	GCST90200414	8282	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200414/GCST90200414_buildGRCh38.ts
Serine levels	GCST90200415	8271	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200415/GCST90200415_buildGRCh38.ts
Trans-urocanate levels	GCST90200416	8198	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200416/GCST90200416_buildGRCh38.ts
Urea levels	GCST90200417	8238	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200417/GCST90200417_buildGRCh38.ts
Pyridoxal levels	GCST90200418	8021	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200418/GCST90200418_buildGRCh38.ts
Glutamine levels	GCST90200419	8253	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200419/GCST90200419_buildGRCh38.ts
Taurine levels	GCST90200420	8219	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200420/GCST90200420_buildGRCh38.ts
Salicylate levels	GCST90200421	8191	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200421/GCST90200421_buildGRCh38.ts
Serotonin levels	GCST90200422	7498	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200422/GCST90200422_buildGRCh38.ts
Spermidine levels	GCST90200423	7348	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200423/GCST90200423_buildGRCh38.ts
Dimethylglycine levels	GCST90200424	8224	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200424/GCST90200424_buildGRCh38.ts

Betaine levels	GCST90200425	8232	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200425/GCST90200425_buildGRCh38.ts
Xylose levels	GCST90200426	6822	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200426/GCST90200426_buildGRCh38.ts
Tyrosine levels	GCST90200427	8252	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200427/GCST90200427_buildGRCh38.ts
Caprate (10:0) levels	GCST90200428	8272	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200428/GCST90200428_buildGRCh38.ts
Cytidine levels	GCST90200429	7659	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200429/GCST90200429_buildGRCh38.ts
Pyruvate levels	GCST90200430	8259	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200430/GCST90200430_buildGRCh38.ts
Alanine levels	GCST90200431	8265	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200431/GCST90200431_buildGRCh38.ts
Threonine levels	GCST90200432	8245	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200432/GCST90200432_buildGRCh38.ts
Cytosine levels	GCST90200433	6990	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200433/GCST90200433_buildGRCh38.ts
12,13-DiHOME levels	GCST90200434	7918	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200434/GCST90200434_buildGRCh38.ts
Mannose levels	GCST90200435	8212	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200435/GCST90200435_buildGRCh38.ts
Caffeine levels	GCST90200436	8005	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200436/GCST90200436_buildGRCh38.ts

Fructose levels	GCST90200437	8137	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200437/GCST90200437_buildGRCh38.ts
Alpha-ketobutyrate levels	GCST90200438	8192	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200438/GCST90200438_buildGRCh38.ts
Cysteine levels	GCST90200439	8216	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200439/GCST90200439_buildGRCh38.ts
Blood sugar levels	GCST90200440	8123	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200440/GCST90200440_buildGRCh38.ts
Tryptophan levels	GCST90200441	8235	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200441/GCST90200441_buildGRCh38.ts
Valine levels	GCST90200442	8247	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200442/GCST90200442_buildGRCh38.ts
Pseudouridine levels	GCST90200443	8213	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200443/GCST90200443_buildGRCh38.ts
Dihydroorotate levels	GCST90200444	8195	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200444/GCST90200444_buildGRCh38.ts
Caprylate (8:0) levels	GCST90200445	8163	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200445/GCST90200445_buildGRCh38.ts
Arachidate (20:0) levels	GCST90200446	8228	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200446/GCST90200446_buildGRCh38.ts
Maltose levels in coronary artery disease	GCST90200447	6351	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200447/GCST90200447_buildGRCh38.ts
N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	6737	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200448/GCST90200448_buildGRCh38.ts

Sucrose levels	GCST90200449	7803	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200449/GCST90200449_buildGRCh38.ts
Caproate (6:0) levels	GCST90200450	7564	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200450/GCST90200450_buildGRCh38.ts
Nonadecanoate (19:0) levels	GCST90200451	8231	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200451/GCST90200451_buildGRCh38.ts
Plasma free asparagine levels	GCST90200452	8245	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200452/GCST90200452_buildGRCh38.ts
X-07765 levels	GCST90200453	8127	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200453/GCST90200453_buildGRCh38.ts
Kynurenate levels	GCST90200454	8241	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200454/GCST90200454_buildGRCh38.ts
Alpha-ketoglutarate levels	GCST90200455	8212	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200455/GCST90200455_buildGRCh38.ts
X-11308 levels	GCST90200456	8253	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200456/GCST90200456_buildGRCh38.ts
Pentadecanoate (15:0) levels	GCST90200457	8273	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200457/GCST90200457_buildGRCh38.ts
X-11315 levels	GCST90200458	8139	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200458/GCST90200458_buildGRCh38.ts
Margarate (17:0) levels	GCST90200459	8279	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200459/GCST90200459_buildGRCh38.ts
X-11372 levels	GCST90200460	8251	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200460/GCST90200460_buildGRCh38.ts

X-10458 levels	GCST90200461	7970	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200461/GCST90200461_buildGRCh38.ts
X-11299 levels	GCST90200462	8203	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200462/GCST90200462_buildGRCh38.ts
X-11478 levels	GCST90200463	8242	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200463/GCST90200463_buildGRCh38.ts
X-11849 levels	GCST90200464	7679	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200464/GCST90200464_buildGRCh38.ts
X-11787 levels	GCST90200465	8247	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200465/GCST90200465_buildGRCh38.ts
X-11632 levels	GCST90200466	7784	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200466/GCST90200466_buildGRCh38.ts
X-11852 levels	GCST90200467	7295	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200467/GCST90200467_buildGRCh38.ts
X-11847 levels	GCST90200468	7193	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200468/GCST90200468_buildGRCh38.ts
X-11483 levels	GCST90200469	7798	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200469/GCST90200469_buildGRCh38.ts
X-11470 levels	GCST90200470	8134	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200470/GCST90200470_buildGRCh38.ts
X-11381 levels	GCST90200471	8225	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200471/GCST90200471_buildGRCh38.ts
X-11850 levels	GCST90200472	7629	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200472/GCST90200472_buildGRCh38.ts

X-11795 levels	GCST90200473	8238	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200473/GCST90200473_buildGRCh38.ts
X-11444 levels	GCST90200474	8206	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200474/GCST90200474_buildGRCh38.ts
X-11858 levels	GCST90200475	6008	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200475/GCST90200475_buildGRCh38.ts
X-11843 levels	GCST90200476	7230	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200476/GCST90200476_buildGRCh38.ts
X-12127 levels	GCST90200477	5878	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200477/GCST90200477_buildGRCh38.ts
X-12221 levels	GCST90200478	6819	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200478/GCST90200478_buildGRCh38.ts
X-12283 levels	GCST90200479	7763	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200479/GCST90200479_buildGRCh38.ts
X-12410 levels	GCST90200480	7442	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200480/GCST90200480_buildGRCh38.ts
X-12104 levels	GCST90200481	7194	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200481/GCST90200481_buildGRCh38.ts
X-12193 levels	GCST90200482	7705	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200482/GCST90200482_buildGRCh38.ts
X-12216 levels	GCST90200483	8181	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200483/GCST90200483_buildGRCh38.ts
X-12306 levels	GCST90200484	6054	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200484/GCST90200484_buildGRCh38.ts

X-12100 levels	GCST90200485	8210	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200485/GCST90200485_buildGRCh38.ts
X-12261 levels	GCST90200486	4347	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200486/GCST90200486_buildGRCh38.ts
X-11880 levels	GCST90200487	8206	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200487/GCST90200487_buildGRCh38.ts
X-12117 levels	GCST90200488	7379	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200488/GCST90200488_buildGRCh38.ts
X-12407 levels	GCST90200489	6534	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200489/GCST90200489_buildGRCh38.ts
X-12101 levels	GCST90200490	8217	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200490/GCST90200490_buildGRCh38.ts
X-12026 levels	GCST90200491	8180	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200491/GCST90200491_buildGRCh38.ts
X-12411 levels	GCST90200492	8174	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200492/GCST90200492_buildGRCh38.ts
X-12013 levels	GCST90200493	5848	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200493/GCST90200493_buildGRCh38.ts
X-12007 levels	GCST90200494	8002	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200494/GCST90200494_buildGRCh38.ts
X-12462 levels	GCST90200495	8236	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200495/GCST90200495_buildGRCh38.ts
X-12714 levels	GCST90200496	6870	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200496/GCST90200496_buildGRCh38.ts

X-12740 levels	GCST90200497	6449	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200497/GCST90200497_buildGRCh38.ts
X-12730 levels	GCST90200498	7133	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200498/GCST90200498_buildGRCh38.ts
X-12701 levels	GCST90200499	6278	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200499/GCST90200499_buildGRCh38.ts
X-12816 levels	GCST90200500	5190	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200500/GCST90200500_buildGRCh38.ts
X-12731 levels	GCST90200501	5770	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200501/GCST90200501_buildGRCh38.ts
X-12707 levels	GCST90200502	7461	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200502/GCST90200502_buildGRCh38.ts
X-12729 levels	GCST90200503	7446	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200503/GCST90200503_buildGRCh38.ts
X-12830 levels	GCST90200504	5725	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200504/GCST90200504_buildGRCh38.ts
X-12818 levels	GCST90200505	6246	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200505/GCST90200505_buildGRCh38.ts
X-12812 levels	GCST90200506	6435	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200506/GCST90200506_buildGRCh38.ts
X-12822 levels	GCST90200507	7957	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200507/GCST90200507_buildGRCh38.ts
X-12738 levels	GCST90200508	5874	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200508/GCST90200508_buildGRCh38.ts

X-12544 levels	GCST90200509	7471	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200509/GCST90200509_buildGRCh38.ts
X-12680 levels	GCST90200510	8255	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200510/GCST90200510_buildGRCh38.ts
X-12906 levels	GCST90200511	7896	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200511/GCST90200511_buildGRCh38.ts
X-13684 levels	GCST90200512	8112	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200512/GCST90200512_buildGRCh38.ts
X-13507 levels	GCST90200513	7936	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200513/GCST90200513_buildGRCh38.ts
X-12851 levels	GCST90200514	7385	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200514/GCST90200514_buildGRCh38.ts
X-12849 levels	GCST90200515	7555	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200515/GCST90200515_buildGRCh38.ts
X-12847 levels	GCST90200516	7790	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200516/GCST90200516_buildGRCh38.ts
X-13553 levels	GCST90200517	8118	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200517/GCST90200517_buildGRCh38.ts
X-12839 levels	GCST90200518	4867	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200518/GCST90200518_buildGRCh38.ts
X-13729 levels	GCST90200519	7724	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200519/GCST90200519_buildGRCh38.ts
X-13007 levels	GCST90200520	6270	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200520/GCST90200520_buildGRCh38.ts

X-13844 levels	GCST90200521	7501	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200521/GCST90200521_buildGRCh38.ts
X-13728 levels	GCST90200522	7905	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200522/GCST90200522_buildGRCh38.ts
X-12844 levels	GCST90200523	8231	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200523/GCST90200523_buildGRCh38.ts
X-13695 levels	GCST90200524	6486	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200524/GCST90200524_buildGRCh38.ts
X-13723 levels	GCST90200525	5269	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200525/GCST90200525_buildGRCh38.ts
X-14056 levels	GCST90200526	8242	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200526/GCST90200526_buildGRCh38.ts
X-13866 levels	GCST90200527	8252	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200527/GCST90200527_buildGRCh38.ts
X-17146 levels	GCST90200528	7778	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200528/GCST90200528_buildGRCh38.ts
X-16397 levels	GCST90200529	8057	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200529/GCST90200529_buildGRCh38.ts
X-17335 levels	GCST90200530	7747	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200530/GCST90200530_buildGRCh38.ts
X-16964 levels	GCST90200531	8048	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200531/GCST90200531_buildGRCh38.ts
X-16935 levels	GCST90200532	7804	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200532/GCST90200532_buildGRCh38.ts

X-15486 levels	GCST90200533	8236	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200533/GCST90200533_buildGRCh38.ts
X-16580 levels	GCST90200534	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200534/GCST90200534_buildGRCh38.ts
X-17325 levels	GCST90200535	7448	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200535/GCST90200535_buildGRCh38.ts
X-17328 levels	GCST90200536	5856	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200536/GCST90200536_buildGRCh38.ts
X-16087 levels	GCST90200537	7071	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200537/GCST90200537_buildGRCh38.ts
X-17010 levels	GCST90200538	7879	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200538/GCST90200538_buildGRCh38.ts
X-14939 levels	GCST90200539	8250	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200539/GCST90200539_buildGRCh38.ts
X-15461 levels	GCST90200540	8144	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200540/GCST90200540_buildGRCh38.ts
X-15523 levels	GCST90200541	8071	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200541/GCST90200541_buildGRCh38.ts
X-15728 levels	GCST90200542	7874	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200542/GCST90200542_buildGRCh38.ts
X-15503 levels	GCST90200543	8237	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200543/GCST90200543_buildGRCh38.ts
X-16124 levels	GCST90200544	5337	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200544/GCST90200544_buildGRCh38.ts

X-17438 levels	GCST90200545	6913	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200545/GCST90200545_buildGRCh38.ts
X-17354 levels	GCST90200546	5375	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200546/GCST90200546_buildGRCh38.ts
X-17654 levels	GCST90200547	7690	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200547/GCST90200547_buildGRCh38.ts
X-17676 levels	GCST90200548	8118	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200548/GCST90200548_buildGRCh38.ts
X-17367 levels	GCST90200549	6092	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200549/GCST90200549_buildGRCh38.ts
X-17357 levels	GCST90200550	8041	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200550/GCST90200550_buildGRCh38.ts
X-18886 levels	GCST90200551	8198	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200551/GCST90200551_buildGRCh38.ts
X-18887 levels	GCST90200552	6790	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200552/GCST90200552_buildGRCh38.ts
X-17653 levels	GCST90200553	8025	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200553/GCST90200553_buildGRCh38.ts
X-17346 levels	GCST90200554	6459	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200554/GCST90200554_buildGRCh38.ts
X-17690 levels	GCST90200555	7043	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200555/GCST90200555_buildGRCh38.ts
X-18345 levels	GCST90200556	5476	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200556/GCST90200556_buildGRCh38.ts

X-17685 levels	GCST90200557	7327	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200557/GCST90200557_buildGRCh38.ts v 07
X-18888 levels	GCST90200558	6974	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200558/GCST90200558_buildGRCh38.ts v 07
X-18901 levels	GCST90200559	8128	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200559/GCST90200559_buildGRCh38.ts v 07
X-17351 levels	GCST90200560	7281	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200560/GCST90200560_buildGRCh38.ts v 07
X-18779 levels	GCST90200561	8144	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200561/GCST90200561_buildGRCh38.ts v 07
X-21286 levels	GCST90200562	8231	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200562/GCST90200562_buildGRCh38.ts v 07
X-21355 levels	GCST90200563	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200563/GCST90200563_buildGRCh38.ts v 07
X-21319 levels	GCST90200564	8109	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200564/GCST90200564_buildGRCh38.ts v 07
X-21258 levels	GCST90200565	8198	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200565/GCST90200565_buildGRCh38.ts v 07
X-21364 levels	GCST90200566	8203	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200566/GCST90200566_buildGRCh38.ts v 07
X-21353 levels	GCST90200567	8265	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200567/GCST90200567_buildGRCh38.ts v 07
X-19438 levels	GCST90200568	7259	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200568/GCST90200568_buildGRCh38.ts v 07

X-18913 levels	GCST90200569	8271	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200569/GCST90200569_buildGRCh38.ts
X-18921 levels	GCST90200570	8257	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200570/GCST90200570_buildGRCh38.ts
X-21339 levels	GCST90200571	8203	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200571/GCST90200571_buildGRCh38.ts
X-19299 levels	GCST90200572	6100	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200572/GCST90200572_buildGRCh38.ts
X-18935 levels	GCST90200573	4952	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200573/GCST90200573_buildGRCh38.ts
X-21310 levels	GCST90200574	7801	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200574/GCST90200574_buildGRCh38.ts
X-21283 levels	GCST90200575	7055	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200575/GCST90200575_buildGRCh38.ts
X-21285 levels	GCST90200576	6180	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200576/GCST90200576_buildGRCh38.ts
X-21312 levels	GCST90200577	4897	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200577/GCST90200577_buildGRCh38.ts
X-18922 levels	GCST90200578	8174	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200578/GCST90200578_buildGRCh38.ts
X-21442 levels	GCST90200579	6827	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200579/GCST90200579_buildGRCh38.ts
X-21796 levels	GCST90200580	8130	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200580/GCST90200580_buildGRCh38.ts

X-21441 levels	GCST90200581	8030	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200581/GCST90200581_buildGRCh38.ts
X-21752 levels	GCST90200582	6526	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200582/GCST90200582_buildGRCh38.ts
X-21807 levels	GCST90200583	5602	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200583/GCST90200583_buildGRCh38.ts
X-21736 levels	GCST90200584	8232	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200584/GCST90200584_buildGRCh38.ts
X-21829 levels	GCST90200585	8217	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200585/GCST90200585_buildGRCh38.ts
X-21471 levels	GCST90200586	7982	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200586/GCST90200586_buildGRCh38.ts
X-21733 levels	GCST90200587	6916	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200587/GCST90200587_buildGRCh38.ts
X-21742 levels	GCST90200588	5918	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200588/GCST90200588_buildGRCh38.ts
X-21821 levels	GCST90200589	7699	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200589/GCST90200589_buildGRCh38.ts
X-21470 levels	GCST90200590	7700	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200590/GCST90200590_buildGRCh38.ts
X-21383 levels	GCST90200591	8226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200591/GCST90200591_buildGRCh38.ts
X-21607 levels	GCST90200592	7975	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200592/GCST90200592_buildGRCh38.ts

X-21834 levels	GCST90200593	7466	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200593/GCST90200593_buildGRCh38.ts
X-21467 levels	GCST90200594	8195	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200594/GCST90200594_buildGRCh38.ts
X-22776 levels	GCST90200595	6944	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200595/GCST90200595_buildGRCh38.ts
X-23655 levels	GCST90200596	6764	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200596/GCST90200596_buildGRCh38.ts
X-22834 levels	GCST90200597	6531	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200597/GCST90200597_buildGRCh38.ts
X-22771 levels	GCST90200598	8087	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200598/GCST90200598_buildGRCh38.ts
X-23639 levels	GCST90200599	8272	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200599/GCST90200599_buildGRCh38.ts
X-23648 levels	GCST90200600	7357	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200600/GCST90200600_buildGRCh38.ts
X-23654 levels	GCST90200601	8241	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200601/GCST90200601_buildGRCh38.ts
X-22520 levels	GCST90200602	5389	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200602/GCST90200602_buildGRCh38.ts
X-23641 levels	GCST90200603	6673	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200603/GCST90200603_buildGRCh38.ts
X-23276 levels	GCST90200604	5407	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200604/GCST90200604_buildGRCh38.ts

X-21845 levels	GCST90200605	4874	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200605/GCST90200605_buildGRCh38.ts
X-22509 levels	GCST90200606	5423	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200606/GCST90200606_buildGRCh38.ts
X-23644 levels	GCST90200607	8250	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200607/GCST90200607_buildGRCh38.ts
X-22162 levels	GCST90200608	8249	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200608/GCST90200608_buildGRCh38.ts
X-23587 levels	GCST90200609	7662	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200609/GCST90200609_buildGRCh38.ts
X-23593 levels	GCST90200610	7988	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200610/GCST90200610_buildGRCh38.ts
X-23636 levels	GCST90200611	8251	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200611/GCST90200611_buildGRCh38.ts
X-23678 levels	GCST90200612	5745	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200612/GCST90200612_buildGRCh38.ts
X-23680 levels	GCST90200613	8215	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200613/GCST90200613_buildGRCh38.ts
X-23780 levels	GCST90200614	7878	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200614/GCST90200614_buildGRCh38.ts
X-23974 levels	GCST90200615	7752	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200615/GCST90200615_buildGRCh38.ts
X-23659 levels	GCST90200616	8176	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200616/GCST90200616_buildGRCh38.ts

X-23665 levels	GCST90200617	8214	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200617/GCST90200617_buildGRCh38.ts
X-23782 levels	GCST90200618	8263	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200618/GCST90200618_buildGRCh38.ts
X-24295 levels	GCST90200619	7987	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200619/GCST90200619_buildGRCh38.ts
X-24243 levels	GCST90200620	7540	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200620/GCST90200620_buildGRCh38.ts
X-23739 levels	GCST90200621	8249	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200621/GCST90200621_buildGRCh38.ts
X-23997 levels	GCST90200622	7804	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200622/GCST90200622_buildGRCh38.ts
X-24241 levels	GCST90200623	8053	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200623/GCST90200623_buildGRCh38.ts
X-24328 levels	GCST90200624	7807	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200624/GCST90200624_buildGRCh38.ts
X-24456 levels	GCST90200625	6523	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200625/GCST90200625_buildGRCh38.ts
X-24418 levels	GCST90200626	5952	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200626/GCST90200626_buildGRCh38.ts
X-24344 levels	GCST90200627	5457	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200627/GCST90200627_buildGRCh38.ts
X-24556 levels	GCST90200628	8004	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200628/GCST90200628_buildGRCh38.ts

X-24337 levels	GCST90200629	8088	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200629/GCST90200629_buildGRCh38.ts
X-24546 levels	GCST90200630	6391	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200630/GCST90200630_buildGRCh38.ts
X-24306 levels	GCST90200631	8074	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200631/GCST90200631_buildGRCh38.ts
X-24307 levels	GCST90200632	8119	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200632/GCST90200632_buildGRCh38.ts
X-24334 levels	GCST90200633	6975	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200633/GCST90200633_buildGRCh38.ts
X-24518 levels	GCST90200634	6131	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200634/GCST90200634_buildGRCh38.ts
X-24494 levels	GCST90200635	6767	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200635/GCST90200635_buildGRCh38.ts
X-24544 levels	GCST90200636	7939	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200636/GCST90200636_buildGRCh38.ts
X-24531 levels	GCST90200637	6455	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200637/GCST90200637_buildGRCh38.ts
X-24811 levels	GCST90200638	6349	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200638/GCST90200638_buildGRCh38.ts
X-24757 levels	GCST90200639	6251	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200639/GCST90200639_buildGRCh38.ts
X-24978 levels	GCST90200640	5151	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200640/GCST90200640_buildGRCh38.ts

X-24970 levels	GCST90200641	8263	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200641/GCST90200641_buildGRCh38.ts
X-24795 levels	GCST90200642	4986	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200642/GCST90200642_buildGRCh38.ts
X-24951 levels	GCST90200643	8208	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200643/GCST90200643_buildGRCh38.ts
X-24728 levels	GCST90200644	8160	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200644/GCST90200644_buildGRCh38.ts
X-24565 levels	GCST90200645	4364	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200645/GCST90200645_buildGRCh38.ts
X-24801 levels	GCST90200646	8059	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200646/GCST90200646_buildGRCh38.ts
X-24736 levels	GCST90200647	4846	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200647/GCST90200647_buildGRCh38.ts
X-24585 levels	GCST90200648	8241	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200648/GCST90200648_buildGRCh38.ts
X-24588 levels	GCST90200649	8239	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200649/GCST90200649_buildGRCh38.ts
X-25109 levels	GCST90200650	7477	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200650/GCST90200650_buildGRCh38.ts
X-24947 levels	GCST90200651	8002	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200651/GCST90200651_buildGRCh38.ts
X-24949 levels	GCST90200652	7174	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200652/GCST90200652_buildGRCh38.ts

X-24812 levels	GCST90200653	7878	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200653/GCST90200653_buildGRCh38.ts
X-25217 levels	GCST90200654	4098	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200654/GCST90200654_buildGRCh38.ts
X-25828 levels	GCST90200655	8156	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200655/GCST90200655_buildGRCh38.ts
X-25371 levels	GCST90200656	8205	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200656/GCST90200656_buildGRCh38.ts
X-25419 levels	GCST90200657	7994	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200657/GCST90200657_buildGRCh38.ts
X-25265 levels	GCST90200658	7916	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200658/GCST90200658_buildGRCh38.ts
X-25172 levels	GCST90200659	8117	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200659/GCST90200659_buildGRCh38.ts
X-25957 levels	GCST90200660	7335	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200660/GCST90200660_buildGRCh38.ts
X-25422 levels	GCST90200661	8210	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200661/GCST90200661_buildGRCh38.ts
X-25790 levels	GCST90200662	8221	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200662/GCST90200662_buildGRCh38.ts
X-25420 levels	GCST90200663	8271	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200663/GCST90200663_buildGRCh38.ts
X-25810 levels	GCST90200664	8167	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200664/GCST90200664_buildGRCh38.ts

X-25433 levels	GCST90200665	6516	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200665/GCST90200665_buildGRCh38.ts
X-25343 levels	GCST90200666	8195	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200666/GCST90200666_buildGRCh38.ts
X-25271 levels	GCST90200667	7906	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200667/GCST90200667_buildGRCh38.ts
X-25520 levels	GCST90200668	7997	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200668/GCST90200668_buildGRCh38.ts
X-25519 levels	GCST90200669	8080	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200669/GCST90200669_buildGRCh38.ts
X-26111 levels	GCST90200670	8002	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200670/GCST90200670_buildGRCh38.ts
X-26109 levels	GCST90200671	6992	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200671/GCST90200671_buildGRCh38.ts
X-26054 levels	GCST90200672	8046	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200672/GCST90200672_buildGRCh38.ts
Carnitine C4 levels	GCST90200673	8111	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200673/GCST90200673_buildGRCh38.ts
Androsterone sulfate levels	GCST90200674	8182	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200674/GCST90200674_buildGRCh38.ts
N-acetyltyrosine levels	GCST90200675	7841	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200675/GCST90200675_buildGRCh38.ts
N-acetyl-L-glutamine levels	GCST90200676	8181	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200676/GCST90200676_buildGRCh38.ts

N-acetylphenylalanine levels	GCST90200677	8228	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200677/GCST90200677_buildGRCh38.ts
N-acetylasparagine levels	GCST90200678	7935	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200678/GCST90200678_buildGRCh38.ts
N-acetylarginine levels	GCST90200679	8271	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200679/GCST90200679_buildGRCh38.ts
5-acetylamino-6-formylamino-3-methyluracil levels	GCST90200680	7599	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200680/GCST90200680_buildGRCh38.ts
Orotidine levels	GCST90200681	8017	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200681/GCST90200681_buildGRCh38.ts
3-methylcytidine levels	GCST90200682	8117	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200682/GCST90200682_buildGRCh38.ts
N-acetylcitrulline levels	GCST90200683	7324	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200683/GCST90200683_buildGRCh38.ts
N-acetyl-aspartyl-glutamate (naag) levels	GCST90200684	7705	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200684/GCST90200684_buildGRCh38.ts
1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	8253	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200685/GCST90200685_buildGRCh38.ts
Bilirubin (E,E) levels	GCST90200686	8263	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200686/GCST90200686_buildGRCh38.ts
Bilirubin (E,Z or Z,E) levels	GCST90200687	8238	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200687/GCST90200687_buildGRCh38.ts
Androsterone glucuronide levels	GCST90200688	7980	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200688/GCST90200688_buildGRCh38.ts

N6-methyllysine levels	GCST90200689	8299	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200689/GCST90200689_buildGRCh38.ts
N-acetyl-1-methylhistidine levels	GCST90200690	7588	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200690/GCST90200690_buildGRCh38.ts
N-delta-acetylornithine levels	GCST90200691	8259	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200691/GCST90200691_buildGRCh38.ts
1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	8238	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200692/GCST90200692_buildGRCh38.ts
Glycochenodeoxycholate glucuronide (1) levels	GCST90200693	8236	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200693/GCST90200693_buildGRCh38.ts
2'-o-methylcytidine levels	GCST90200694	8122	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200694/GCST90200694_buildGRCh38.ts
2'-o-methyluridine levels	GCST90200695	7582	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200695/GCST90200695_buildGRCh38.ts
N6,N6-dimethyllysine levels	GCST90200696	8265	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200696/GCST90200696_buildGRCh38.ts
N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	7891	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200697/GCST90200697_buildGRCh38.ts
N2-acetyl,N6-methyllysine levels	GCST90200698	8069	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200698/GCST90200698_buildGRCh38.ts
Deoxycholic acid glucuronide levels	GCST90200699	8060	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200699/GCST90200699_buildGRCh38.ts
Decadienedioic acid (C10:2-DC) levels	GCST90200700	8131	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200700/GCST90200700_buildGRCh38.ts

Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200701/GCST90200701_buildGRCh38.ts
Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	8255	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200702/GCST90200702_buildGRCh38.ts
Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	8253	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200703/GCST90200703_buildGRCh38.ts
Bilirubin (z,z) levels	GCST90200704	8261	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200704/GCST90200704_buildGRCh38.ts
Ethylmalonate levels	GCST90200705	8172	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200705/GCST90200705_buildGRCh38.ts
Biliverdin levels	GCST90200706	8262	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200706/GCST90200706_buildGRCh38.ts
Glycine levels	GCST90200707	8262	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200707/GCST90200707_buildGRCh38.ts
X-12112 levels	GCST90200708	8211	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200708/GCST90200708_buildGRCh38.ts
X-12798 levels	GCST90200709	8186	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200709/GCST90200709_buildGRCh38.ts
X-13431 levels	GCST90200710	8161	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200710/GCST90200710_buildGRCh38.ts
X-19141 levels	GCST90200711	8244	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200711/GCST90200711_buildGRCh38.ts
Spermidine to 5-methylthioadenosine (MTA) ratio	GCST90200712	7320	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200712/GCST90200712_buildGRCh38.ts

Spermidine to ornithine ratio	GCST90200713	7309	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200713/GCST90200713_buildGRCh38.ts
Alpha-ketoglutarate to alpha-ketobutyrate ratio	GCST90200714	8216	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200714/GCST90200714_buildGRCh38.ts
Alpha-ketoglutarate to glutamate ratio	GCST90200715	8274	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200715/GCST90200715_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to phosphoethanolamine ratio	GCST90200716	4579	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200716/GCST90200716_buildGRCh38.ts
3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	4530	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200717/GCST90200717_buildGRCh38.ts
Alpha-ketoglutarate to succinate ratio	GCST90200718	8260	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200718/GCST90200718_buildGRCh38.ts
Adenosine 3',5'-cyclic monophosphate (cAMP) to adenosine 5'-monophosphate (AMP) ratio	GCST90200719	6726	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200719/GCST90200719_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to pantothenate ratio	GCST90200720	4561	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200720/GCST90200720_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to phosphate ratio	GCST90200721	4559	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200721/GCST90200721_buildGRCh38.ts
S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	6122	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200722/GCST90200722_buildGRCh38.ts
S-adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) ratio	GCST90200723	6078	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200723/GCST90200723_buildGRCh38.ts
Cholate to taurocholate ratio	GCST90200724	7328	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200724/GCST90200724_buildGRCh38.ts

Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	4561	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200725/GCST90200725_buildGRCh38.ts
N-acetylputrescine to (N(1) + N(8))-acetylpermidine ratio	GCST90200726	8144	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200726/GCST90200726_buildGRCh38.ts
Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	6329	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200727/GCST90200727_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	4573	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200728/GCST90200728_buildGRCh38.ts
3-phosphoglycerate to phosphate ratio	GCST90200729	8153	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200729/GCST90200729_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	4571	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200730/GCST90200730_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to mannose ratio	GCST90200731	4587	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200731/GCST90200731_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to tyrosine ratio	GCST90200732	4560	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200732/GCST90200732_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200733	4392	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200733/GCST90200733_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to palmitate (16:0) ratio	GCST90200734	8227	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200734/GCST90200734_buildGRCh38.ts
Arginine to ornithine ratio	GCST90200735	8250	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200735/GCST90200735_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to arginine ratio	GCST90200736	4568	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200736/GCST90200736_buildGRCh38.ts

Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	4391	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200737/GCST90200737_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	4601	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200738/GCST90200738_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	8190	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200739/GCST90200739_buildGRCh38.ts
Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	8171	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200740/GCST90200740_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	8172	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200741/GCST90200741_buildGRCh38.ts
Aspartate to citrate ratio	GCST90200742	8191	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200742/GCST90200742_buildGRCh38.ts
Arginine to citrulline ratio	GCST90200743	8192	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200743/GCST90200743_buildGRCh38.ts
Arginine to glutamate ratio	GCST90200744	8194	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200744/GCST90200744_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to phenylalanine ratio	GCST90200745	8189	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200745/GCST90200745_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to gluconate ratio	GCST90200746	4540	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200746/GCST90200746_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to phosphate ratio	GCST90200747	8184	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200747/GCST90200747_buildGRCh38.ts
Aspartate to glutamate ratio	GCST90200748	8190	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200748/GCST90200748_buildGRCh38.ts

Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	8200	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200749/GCST90200749_buildGRCh38.ts
Aspartate to asparagine ratio	GCST90200750	8195	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200750/GCST90200750_buildGRCh38.ts
Cortisone to cortisol ratio	GCST90200751	8173	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200751/GCST90200751_buildGRCh38.ts
Succinate to acetoacetate ratio	GCST90200752	6829	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200752/GCST90200752_buildGRCh38.ts
Aspartate to citrulline ratio	GCST90200753	8139	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200753/GCST90200753_buildGRCh38.ts
Sphingosine to phosphate ratio	GCST90200754	8017	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200754/GCST90200754_buildGRCh38.ts
Inosine 5'-monophosphate (IMP) to phosphate ratio	GCST90200755	4605	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200755/GCST90200755_buildGRCh38.ts
Glycine to pyridoxal ratio	GCST90200756	8173	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200756/GCST90200756_buildGRCh38.ts
Glycine to alanine ratio	GCST90200757	8167	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200757/GCST90200757_buildGRCh38.ts
Glycine to serine ratio	GCST90200758	8206	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200758/GCST90200758_buildGRCh38.ts
Histidine to trans-urocanate ratio	GCST90200759	8109	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200759/GCST90200759_buildGRCh38.ts
Methionine to methionine sulfoxide ratio	GCST90200760	8214	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200760/GCST90200760_buildGRCh38.ts

Citrulline to dimethylarginine (SDMA + ADMA) ratio	GCST90200761	8243	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200761/GCST90200761_buildGRCh38.ts v 07 http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200762/GCST90200762_buildGRCh38.ts v 07 http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200763/GCST90200763_buildGRCh38.ts v 07 http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200764/GCST90200764_buildGRCh38.ts v 07 http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200765/GCST90200765_buildGRCh38.ts v 07 http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200766/GCST90200766_buildGRCh38.ts v 07 http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200767/GCST90200767_buildGRCh38.ts v 07 http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200768/GCST90200768_buildGRCh38.ts v 07 http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200769/GCST90200769_buildGRCh38.ts v 07 http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200770/GCST90200770_buildGRCh38.ts v 07 http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200771/GCST90200771_buildGRCh38.ts v 07 http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200772/GCST90200772_buildGRCh38.ts v 07
Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	8215	
Phosphate to N-acetylneuraminate ratio	GCST90200763	8256	
Phosphate to uridine ratio	GCST90200764	8186	
Phosphate to alanine ratio	GCST90200765	8230	
Phosphate to phosphoethanolamine ratio	GCST90200766	8205	
Phosphate to glucose ratio	GCST90200767	8232	
Phosphate to 2'-deoxyuridine ratio	GCST90200768	7846	
Phosphate to mannose ratio	GCST90200769	8206	
Phenylalanine to tyrosine ratio	GCST90200770	8205	
Phosphate to fructose ratio	GCST90200771	8209	
Phosphate to citrate ratio	GCST90200772	8238	

Serine to alpha-tocopherol ratio	GCST90200773	8197	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200773/GCST90200773_buildGRCh38.ts
Uridine to pseudouridine ratio	GCST90200774	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200774/GCST90200774_buildGRCh38.ts
Serine to pyruvate ratio	GCST90200775	8235	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200775/GCST90200775_buildGRCh38.ts
Glutamate to glutamine ratio	GCST90200776	8228	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200776/GCST90200776_buildGRCh38.ts
Uridine to cytidine ratio	GCST90200777	7705	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200777/GCST90200777_buildGRCh38.ts
Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	8193	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200778/GCST90200778_buildGRCh38.ts
Pyruvate to N-acetylneuraminate ratio	GCST90200779	8194	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200779/GCST90200779_buildGRCh38.ts
Alanine to pyruvate ratio	GCST90200780	8250	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200780/GCST90200780_buildGRCh38.ts
Glucose to maltose ratio	GCST90200781	6308	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200781/GCST90200781_buildGRCh38.ts
Mannose to trans-4-hydroxyproline ratio	GCST90200782	8194	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200782/GCST90200782_buildGRCh38.ts
Mannose to S-methylcysteine ratio	GCST90200783	8182	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200783/GCST90200783_buildGRCh38.ts
Glutamate to cysteine ratio	GCST90200784	8199	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200784/GCST90200784_buildGRCh38.ts

Cysteine to 5-oxoproline ratio	GCST90200785	8203	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200785/GCST90200785_buildGRCh38.ts
Cysteine to alanine ratio	GCST90200786	8220	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200786/GCST90200786_buildGRCh38.ts
Glutamine to asparagine ratio	GCST90200787	8251	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200787/GCST90200787_buildGRCh38.ts
5-oxoproline to citrate ratio	GCST90200788	8256	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200788/GCST90200788_buildGRCh38.ts
Alpha-tocopherol to sulfate ratio	GCST90200789	8201	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200789/GCST90200789_buildGRCh38.ts
Thyroxine to taurocholate ratio	GCST90200790	7615	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200790/GCST90200790_buildGRCh38.ts
Creatine to carnitine ratio	GCST90200791	8235	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200791/GCST90200791_buildGRCh38.ts
Carnitine to palmitoylcarnitine (C16) ratio	GCST90200792	8146	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200792/GCST90200792_buildGRCh38.ts
Glycolithocholate to glycolithocholate sulfate ratio	GCST90200793	7043	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200793/GCST90200793_buildGRCh38.ts
Oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1] ratio	GCST90200794	7620	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200794/GCST90200794_buildGRCh38.ts
Oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2] ratio	GCST90200795	7615	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200795/GCST90200795_buildGRCh38.ts
Spermidine to (N(1) + N(8))-acetylspermidine ratio	GCST90200796	7287	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200796/GCST90200796_buildGRCh38.ts

Spermidine to N-acetylputrescine ratio	GCST90200797	7299	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200797/GCST90200797_buildGRCh38.ts
Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	6840	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200798/GCST90200798_buildGRCh38.ts
Spermidine to adenosine 5'-diphosphate (ADP) ratio	GCST90200799	4195	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200799/GCST90200799_buildGRCh38.ts
Spermidine to histidine ratio	GCST90200800	7297	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200800/GCST90200800_buildGRCh38.ts
5-methylthioadenosine (MTA) to phosphate ratio	GCST90200801	8261	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200801/GCST90200801_buildGRCh38.ts
Histidine to pyruvate ratio	GCST90200802	8241	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200802/GCST90200802_buildGRCh38.ts
Spermidine to phosphate ratio	GCST90200803	7382	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200803/GCST90200803_buildGRCh38.ts
Spermidine to pyruvate ratio	GCST90200804	7296	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200804/GCST90200804_buildGRCh38.ts
Spermidine to carnitine ratio	GCST90200805	7338	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200805/GCST90200805_buildGRCh38.ts
Spermidine to ergothioneine ratio	GCST90200806	7291	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200806/GCST90200806_buildGRCh38.ts
Carnitine to ergothioneine ratio	GCST90200807	8110	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200807/GCST90200807_buildGRCh38.ts
Spermidine to choline ratio	GCST90200808	7295	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200808/GCST90200808_buildGRCh38.ts

Spermidine to taurocholate ratio	GCST90200809	6777	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200809/GCST90200809_buildGRCh38.ts
Alpha-ketoglutarate to kynurenine ratio	GCST90200810	8272	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200810/GCST90200810_buildGRCh38.ts
Choline to taurocholate ratio	GCST90200811	7625	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200811/GCST90200811_buildGRCh38.ts
Glutamate to kynurenine ratio	GCST90200812	8184	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200812/GCST90200812_buildGRCh38.ts
Ornithine to glutamate ratio	GCST90200813	8202	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200813/GCST90200813_buildGRCh38.ts
Alpha-ketoglutarate to ornithine ratio	GCST90200814	8273	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200814/GCST90200814_buildGRCh38.ts
3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	4488	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200815/GCST90200815_buildGRCh38.ts
Alpha-ketoglutarate to aspartate ratio	GCST90200816	8272	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200816/GCST90200816_buildGRCh38.ts
3-hydroxyisobutyrate to phosphate ratio	GCST90200817	8170	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200817/GCST90200817_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to glycerate ratio	GCST90200818	4544	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200818/GCST90200818_buildGRCh38.ts
3-phosphoglycerate to glycerate ratio	GCST90200819	8101	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200819/GCST90200819_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to valine ratio	GCST90200820	4608	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200820/GCST90200820_buildGRCh38.ts

Adenosine 5'-diphosphate (ADP) to glycine ratio	GCST90200821	4577	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200821/GCST90200821_buildGRCh38.ts
Phosphate to valine ratio	GCST90200822	8277	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200822/GCST90200822_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200823	4561	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200823/GCST90200823_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to sulfate ratio	GCST90200824	4570	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200824/GCST90200824_buildGRCh38.ts
Phosphate to sulfate ratio	GCST90200825	8211	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200825/GCST90200825_buildGRCh38.ts
Glycine to phosphate ratio	GCST90200826	8271	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200826/GCST90200826_buildGRCh38.ts
Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	8223	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200827/GCST90200827_buildGRCh38.ts
Cholate to bilirubin (Z,Z) ratio	GCST90200828	7747	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200828/GCST90200828_buildGRCh38.ts
Bilirubin (Z,Z) to taurocholate ratio	GCST90200829	7620	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200829/GCST90200829_buildGRCh38.ts
Cholate to adenosine 3',5'-cyclic monophosphate (cAMP) ratio	GCST90200830	6359	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200830/GCST90200830_buildGRCh38.ts
Cholate to phosphate ratio	GCST90200831	7742	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200831/GCST90200831_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	4567	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200832/GCST90200832_buildGRCh38.ts

Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	7769	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200833/GCST90200833_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate ratio	GCST90200834	4588	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200834/GCST90200834_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to glycerol ratio	GCST90200835	4575	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200835/GCST90200835_buildGRCh38.ts
Glycerol to glycerol 3-phosphate ratio	GCST90200836	8188	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200836/GCST90200836_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to glutamate ratio	GCST90200837	4556	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200837/GCST90200837_buildGRCh38.ts
Phosphate to glutamate ratio	GCST90200838	8211	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200838/GCST90200838_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to aspartate ratio	GCST90200839	4563	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200839/GCST90200839_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	3441	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200840/GCST90200840_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	4556	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200841/GCST90200841_buildGRCh38.ts
Citrate to oxalate (ethanedioate) ratio	GCST90200842	8097	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200842/GCST90200842_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	6188	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200843/GCST90200843_buildGRCh38.ts
Aspartate to phosphate ratio	GCST90200844	8297	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200844/GCST90200844_buildGRCh38.ts

Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	8193	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200845/GCST90200845_buildGRCh38.ts
Phenylalanine to phosphate ratio	GCST90200846	8294	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200846/GCST90200846_buildGRCh38.ts
Phosphate to tryptophan ratio	GCST90200847	8206	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200847/GCST90200847_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to glutamine ratio	GCST90200848	8196	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200848/GCST90200848_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to threonine ratio	GCST90200849	8173	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200849/GCST90200849_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to tryptophan ratio	GCST90200850	8180	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200850/GCST90200850_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to glycine ratio	GCST90200851	8195	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200851/GCST90200851_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	8185	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200852/GCST90200852_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	8193	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200853/GCST90200853_buildGRCh38.ts
Arginine to phosphate ratio	GCST90200854	8297	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200854/GCST90200854_buildGRCh38.ts
Phosphate to threonine ratio	GCST90200855	8226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200855/GCST90200855_buildGRCh38.ts
Phosphate to glutamine ratio	GCST90200856	8258	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200856/GCST90200856_buildGRCh38.ts

Adenosine 5'-monophosphate (AMP) to aspartate ratio	GCST90200857	8205	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200857/GCST90200857_buildGRCh38.ts
Phosphate to tyrosine ratio	GCST90200858	8226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200858/GCST90200858_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	8188	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200859/GCST90200859_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to serine ratio	GCST90200860	8194	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200860/GCST90200860_buildGRCh38.ts
Histidine to phosphate ratio	GCST90200861	8294	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200861/GCST90200861_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	8194	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200862/GCST90200862_buildGRCh38.ts
Phosphate to serine ratio	GCST90200863	8226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200863/GCST90200863_buildGRCh38.ts
Methionine to phosphate ratio	GCST90200864	8291	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200864/GCST90200864_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	8180	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200865/GCST90200865_buildGRCh38.ts
phosphate to asparagine ratio	GCST90200866	8249	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200866/GCST90200866_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to isoleucine ratio	GCST90200867	8200	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200867/GCST90200867_buildGRCh38.ts
Isoleucine to phosphate ratio	GCST90200868	8298	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200868/GCST90200868_buildGRCh38.ts

Adenosine 5'-monophosphate (AMP) to valine ratio	GCST90200869	8225	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200869/GCST90200869_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to acetoacetate ratio	GCST90200870	6773	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200870/GCST90200870_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to cysteine ratio	GCST90200871	8177	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200871/GCST90200871_buildGRCh38.ts
Phosphate to cysteine ratio	GCST90200872	8195	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200872/GCST90200872_buildGRCh38.ts
Cortisol to 4-cholesten-3-one ratio	GCST90200873	7027	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200873/GCST90200873_buildGRCh38.ts
Cysteinyglycine to taurine ratio	GCST90200874	8193	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200874/GCST90200874_buildGRCh38.ts
Cysteinyglycine to glutamate ratio	GCST90200875	8197	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200875/GCST90200875_buildGRCh38.ts
Cortisone to 4-cholesten-3-one ratio	GCST90200876	6971	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200876/GCST90200876_buildGRCh38.ts
Taurine to glutamate ratio	GCST90200877	8220	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200877/GCST90200877_buildGRCh38.ts
Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	7685	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200878/GCST90200878_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to glutamate ratio	GCST90200879	8213	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200879/GCST90200879_buildGRCh38.ts
Glutarate (C5-DC) to salicylate ratio	GCST90200880	7684	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200880/GCST90200880_buildGRCh38.ts

Aspartate to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200881	7899	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200881/GCST90200881_buildGRCh38.ts
Aspartate to mannose ratio	GCST90200882	8162	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200882/GCST90200882_buildGRCh38.ts
Phosphate to acetoacetate ratio	GCST90200883	6791	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200883/GCST90200883_buildGRCh38.ts
Mannose to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200884	7907	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200884/GCST90200884_buildGRCh38.ts
Phenylpyruvate to citrate ratio	GCST90200885	8177	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200885/GCST90200885_buildGRCh38.ts
Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	7829	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200886/GCST90200886_buildGRCh38.ts
Cholesterol to cortisol ratio	GCST90200887	8211	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200887/GCST90200887_buildGRCh38.ts
Citrate to 4-hydroxyphenylpyruvate ratio	GCST90200888	7851	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200888/GCST90200888_buildGRCh38.ts
Cholesterol to taurocholate ratio	GCST90200889	7611	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200889/GCST90200889_buildGRCh38.ts
Cortisol to taurocholate ratio	GCST90200890	7610	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200890/GCST90200890_buildGRCh38.ts
Salicylate to caprylate (8:0) ratio	GCST90200891	8068	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200891/GCST90200891_buildGRCh38.ts
Hypotaurine to taurine ratio	GCST90200892	8157	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200892/GCST90200892_buildGRCh38.ts

Taurine to cysteine ratio	GCST90200893	8186	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200893/GCST90200893_buildGRCh38.ts
Inosine to theophylline ratio	GCST90200894	4662	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200894/GCST90200894_buildGRCh38.ts
Hypotaurine to cysteine ratio	GCST90200895	8134	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200895/GCST90200895_buildGRCh38.ts
Inosine to EDTA ratio	GCST90200896	4926	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200896/GCST90200896_buildGRCh38.ts
Theophylline to EDTA ratio	GCST90200897	7867	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200897/GCST90200897_buildGRCh38.ts
Citrulline to phosphate ratio	GCST90200898	8294	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200898/GCST90200898_buildGRCh38.ts
Citrulline to ornithine ratio	GCST90200899	8225	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200899/GCST90200899_buildGRCh38.ts
Phosphate to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200900	7992	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200900/GCST90200900_buildGRCh38.ts
Ornithine to phosphate ratio	GCST90200901	8295	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200901/GCST90200901_buildGRCh38.ts
Phosphate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2] ratio	GCST90200902	7649	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200902/GCST90200902_buildGRCh38.ts
Phosphate to glycerol ratio	GCST90200903	8179	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200903/GCST90200903_buildGRCh38.ts
Phosphate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1] ratio	GCST90200904	7623	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200904/GCST90200904_buildGRCh38.ts

Glucose to glycerol ratio	GCST90200905	8160	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200905/GCST90200905_buildGRCh38.ts
2'-deoxyuridine to cytidine ratio	GCST90200906	7410	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200906/GCST90200906_buildGRCh38.ts
Retinol (Vitamin A) to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1] ratio	GCST90200907	7617	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200907/GCST90200907_buildGRCh38.ts
Retinol (Vitamin A) to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2] ratio	GCST90200908	7668	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200908/GCST90200908_buildGRCh38.ts
Uridine to 2'-deoxyuridine ratio	GCST90200909	7873	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200909/GCST90200909_buildGRCh38.ts
Retinol (Vitamin A) to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200910	7981	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200910/GCST90200910_buildGRCh38.ts
Tryptophan to pyruvate ratio	GCST90200911	8224	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200911/GCST90200911_buildGRCh38.ts
tryptophan to tyrosine ratio	GCST90200912	8226	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200912/GCST90200912_buildGRCh38.ts
Glucose to sucrose ratio	GCST90200913	7695	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200913/GCST90200913_buildGRCh38.ts
Tyrosine to pyruvate ratio	GCST90200914	8220	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200914/GCST90200914_buildGRCh38.ts
Glucose to fructose ratio	GCST90200915	8214	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200915/GCST90200915_buildGRCh38.ts
Fructose to sucrose ratio	GCST90200916	7719	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200916/GCST90200916_buildGRCh38.ts

Alpha-ketobutyrate to 3-methyl-2-oxobutyrate ratio	GCST90200917	8133	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200917/GCST90200917_buildGRCh38.ts
N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90200918	8155	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200918/GCST90200918_buildGRCh38.ts
Caffeine to theophylline ratio	GCST90200919	7756	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200919/GCST90200919_buildGRCh38.ts
Mannose to glycerol ratio	GCST90200920	8168	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200920/GCST90200920_buildGRCh38.ts
Mannose to mannitol to sorbitol ratio	GCST90200921	8208	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200921/GCST90200921_buildGRCh38.ts
Alpha-ketobutyrate to pyruvate ratio	GCST90200922	8129	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200922/GCST90200922_buildGRCh38.ts
Glycerol to mannitol to sorbitol ratio	GCST90200923	8153	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200923/GCST90200923_buildGRCh38.ts
Alpha-tocopherol to glycerol ratio	GCST90200924	8158	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200924/GCST90200924_buildGRCh38.ts
Caffeine to theobromine ratio	GCST90200925	7952	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200925/GCST90200925_buildGRCh38.ts
N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90200926	8159	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200926/GCST90200926_buildGRCh38.ts
Theophylline to theobromine ratio	GCST90200927	7858	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200927/GCST90200927_buildGRCh38.ts
N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90200928	8191	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200928/GCST90200928_buildGRCh38.ts

Glycerol to carnitine ratio	GCST90200929	8235	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200929/GCST90200929_buildGRCh38.ts
Carnitine to acetylcarnitine (C2) ratio	GCST90200930	8206	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200930/GCST90200930_buildGRCh38.ts
Glycerol to sulfate ratio	GCST90200931	8176	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200931/GCST90200931_buildGRCh38.ts
Glycerol to palmitoylcarnitine (C16) ratio	GCST90200932	8165	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200932/GCST90200932_buildGRCh38.ts
Alpha-ketoglutarate to proline ratio	GCST90200933	8273	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200933/GCST90200933_buildGRCh38.ts
Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	8200	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200934/GCST90200934_buildGRCh38.ts
Carnitine to propionylcarnitine (C3) ratio	GCST90200935	8185	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200935/GCST90200935_buildGRCh38.ts
Succinate to proline ratio	GCST90200936	8209	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200936/GCST90200936_buildGRCh38.ts
Alpha-ketoglutarate to trans-4-hydroxyproline ratio	GCST90200937	8272	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200937/GCST90200937_buildGRCh38.ts
Alpha-ketoglutarate to alanine ratio	GCST90200938	8272	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200938/GCST90200938_buildGRCh38.ts
Proline to trans-4-hydroxyproline ratio	GCST90200939	8194	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200939/GCST90200939_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to EDTA ratio	GCST90200940	4563	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200940/GCST90200940_buildGRCh38.ts

Succinate to trans-4-hydroxyproline ratio	GCST90200941	8198	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200941/GCST90200941_buildGRCh38.ts
Glutamate to pyruvate ratio	GCST90200942	8188	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200942/GCST90200942_buildGRCh38.ts
Phosphate to EDTA ratio	GCST90200943	8225	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200943/GCST90200943_buildGRCh38.ts
Alpha-ketoglutarate to pyruvate ratio	GCST90200944	8272	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200944/GCST90200944_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	8179	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200945/GCST90200945_buildGRCh38.ts
Glutamate to alanine ratio	GCST90200946	8172	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200946/GCST90200946_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	4581	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200947/GCST90200947_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	4566	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200948/GCST90200948_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to N-acetylneuraminate ratio	GCST90200949	4553	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200949/GCST90200949_buildGRCh38.ts
Glucose to mannitol to sorbitol ratio	GCST90200950	8254	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200950/GCST90200950_buildGRCh38.ts
Mannose to fructose ratio	GCST90200951	8202	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200951/GCST90200951_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to cytidine ratio	GCST90200952	4350	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200952/GCST90200952_buildGRCh38.ts

Glucose-to-mannose ratio	GCST90200953	8191	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200953/GCST90200953_buildGRCh38.ts
Cytidine to N-acetylneuraminate ratio	GCST90200954	7683	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200954/GCST90200954_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to choline phosphate ratio	GCST90200955	4560	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200955/GCST90200955_buildGRCh38.ts
Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	7427	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200956/GCST90200956_buildGRCh38.ts
N-acetylneuraminate to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200957	7988	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200957/GCST90200957_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to choline ratio	GCST90200958	4560	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200958/GCST90200958_buildGRCh38.ts
Choline phosphate to choline ratio	GCST90200959	8196	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200959/GCST90200959_buildGRCh38.ts
Choline phosphate to phosphoethanolamine ratio	GCST90200960	8213	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200960/GCST90200960_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to ornithine ratio	GCST90200961	4566	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200961/GCST90200961_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to glutamine ratio	GCST90200962	4569	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200962/GCST90200962_buildGRCh38.ts
Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	4598	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200963/GCST90200963_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to 5-oxoproline ratio	GCST90200964	4570	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200964/GCST90200964_buildGRCh38.ts

Glutamate to 5-oxoproline ratio	GCST90200965	8171	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200965/GCST90200965_buildGRCh38.ts
Adenosine 5'-diphosphate (ADP) to uridine ratio	GCST90200966	4565	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200966/GCST90200966_buildGRCh38.ts
Phosphate to urate ratio	GCST90200967	8204	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200967/GCST90200967_buildGRCh38.ts
Phosphate to 5-oxoproline ratio	GCST90200968	8217	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200968/GCST90200968_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	8188	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200969/GCST90200969_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to leucine ratio	GCST90200970	8201	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200970/GCST90200970_buildGRCh38.ts
Leucine to phosphate ratio	GCST90200971	8298	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200971/GCST90200971_buildGRCh38.ts
Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	8198	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200972/GCST90200972_buildGRCh38.ts
Proline to glutamate ratio	GCST90200973	8185	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200973/GCST90200973_buildGRCh38.ts
Phosphate to proline ratio	GCST90200974	8241	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200974/GCST90200974_buildGRCh38.ts
Arachidonate (20:4n6) to caffeine ratio	GCST90200975	8000	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200975/GCST90200975_buildGRCh38.ts
Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	8181	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200976/GCST90200976_buildGRCh38.ts

Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	7776	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200977/GCST90200977_buildGRCh38.ts
Caffeine to paraxanthine ratio	GCST90200978	7873	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200978/GCST90200978_buildGRCh38.ts
Arachidonate (20:4n6) to linoleate (18:2n6) ratio	GCST90200979	8162	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200979/GCST90200979_buildGRCh38.ts
Phosphoethanolamine to choline ratio	GCST90200980	8204	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200980/GCST90200980_buildGRCh38.ts
Caffeine to linoleate (18:2n6) ratio	GCST90200981	7939	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200981/GCST90200981_buildGRCh38.ts
Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	7785	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200982/GCST90200982_buildGRCh38.ts
Cholesterol to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1] ratio	GCST90200983	7624	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200983/GCST90200983_buildGRCh38.ts
Cholesterol to benzoate ratio	GCST90200984	7387	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200984/GCST90200984_buildGRCh38.ts
Cholesterol to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200985	7981	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200985/GCST90200985_buildGRCh38.ts
Cholesterol to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2] ratio	GCST90200986	7655	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200986/GCST90200986_buildGRCh38.ts
Benzoate to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200987	7162	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200987/GCST90200987_buildGRCh38.ts
Benzoate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1] ratio	GCST90200988	6813	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200988/GCST90200988_buildGRCh38.ts

Histidine to asparagine ratio	GCST90200989	8225	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200989/GCST90200989_buildGRCh38.ts
Benzoate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2] ratio	GCST90200990	6865	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200990/GCST90200990_buildGRCh38.ts
Histidine to alanine ratio	GCST90200991	8233	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200991/GCST90200991_buildGRCh38.ts
Alanine to asparagine ratio	GCST90200992	8248	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200992/GCST90200992_buildGRCh38.ts
Salicylate to oxalate (ethanedioate) ratio	GCST90200993	8107	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200993/GCST90200993_buildGRCh38.ts
Glutamine to alanine ratio	GCST90200994	8222	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200994/GCST90200994_buildGRCh38.ts
Salicylate to taurocholate ratio	GCST90200995	7614	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200995/GCST90200995_buildGRCh38.ts
Citrate to taurocholate ratio	GCST90200996	7618	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200996/GCST90200996_buildGRCh38.ts
Histidine to glutamine ratio	GCST90200997	8223	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200997/GCST90200997_buildGRCh38.ts
Salicylate to citrate ratio	GCST90200998	8147	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200998/GCST90200998_buildGRCh38.ts
Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	7755	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90200001-GCST90201000/GCST90200999/GCST90200999_buildGRCh38.ts
Serine to threonine ratio	GCST90201000	8237	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201000-GCST90201000/GCST90201000/GCST90201000_buildGRCh38.ts

Serine to alpha-ketobutyrate ratio	GCST90201001	8100	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201001/GCST90201001_buildGRCh38.ts
Maltose to sucrose ratio	GCST90201002	5984	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201002/GCST90201002_buildGRCh38.ts
Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	8173	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201003/GCST90201003_buildGRCh38.ts
Glucose to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90201004	8179	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201004/GCST90201004_buildGRCh38.ts
Fructose to maltose ratio	GCST90201005	6307	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201005/GCST90201005_buildGRCh38.ts
Alpha-ketobutyrate to 3-methyl-2-oxovalerate ratio	GCST90201006	8136	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201006/GCST90201006_buildGRCh38.ts
Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	8119	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201007/GCST90201007_buildGRCh38.ts
Threonine to alpha-ketobutyrate ratio	GCST90201008	8099	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201008/GCST90201008_buildGRCh38.ts
Threonine to pyruvate ratio	GCST90201009	8220	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201009/GCST90201009_buildGRCh38.ts
Alpha-ketobutyrate to 4-methyl-2-oxopentanoate ratio	GCST90201010	8142	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201010/GCST90201010_buildGRCh38.ts
3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	8233	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201011/GCST90201011_buildGRCh38.ts
3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	8200	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201012/GCST90201012_buildGRCh38.ts

Androsterone glucuronide to etiocholanolone glucuronide ratio	GCST90201013	7555	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201013/GCST90201013_buildGRCh38.ts v 07
Glucuronate to androsterone glucuronide ratio	GCST90201014	7804	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201014/GCST90201014_buildGRCh38.ts v 07
Bilirubin (Z,Z) to androsterone glucuronide ratio	GCST90201015	7888	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201015/GCST90201015_buildGRCh38.ts v 07
Bilirubin (Z,Z) to etiocholanolone glucuronide ratio	GCST90201016	7707	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201016/GCST90201016_buildGRCh38.ts v 07
4-methyl-2-oxopentanoate to 3-methyl-2-oxobutyrate ratio	GCST90201017	8224	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201017/GCST90201017_buildGRCh38.ts v 07
Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	8103	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201018/GCST90201018_buildGRCh38.ts v 07
Glucuronate to etiocholanolone glucuronide ratio	GCST90201019	7631	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201019/GCST90201019_buildGRCh38.ts v 07
Paraxanthine to 5-acetylamino-6-formylamino-3-methyluracil ratio	GCST90201020	7388	http://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/GCST90201001-GCST90202000/GCST90201020/GCST90201020_buildGRCh38.ts v 07

Table S3. Instrumental variables extraction of immune cells

SNP	Trait	ID	Chromosome	Position	Effect allele	Other allele	Sample-size	Beta	Se	P-val	R2	F
rs72757888	IgD+ %B cell	ebi-a-GCST90001391	1	233045963	T	C	3658	0.59	0.12	0.00	0.01	23.83
rs56209800	IgD+ %B cell	ebi-a-GCST90001391	2	238560295	T	A	3658	-0.24	0.05	0.00	0.01	20.01
rs7597061	IgD+ %B cell	ebi-a-GCST90001391	2	66001846	G	T	3658	0.18	0.04	0.00	0.01	19.61
rs138919897	IgD+ %B cell	ebi-a-GCST90001391	3	106834795	G	A	3658	1.40	0.30	0.00	0.01	21.87
rs4691917	IgD+ %B cell	ebi-a-GCST90001391	4	164344795	G	A	3658	0.94	0.19	0.00	0.01	24.95
rs17405603	IgD+ %B cell	ebi-a-GCST90001391	5	144608340	T	A	3658	0.15	0.03	0.00	0.01	31.26
rs72952600	IgD+ %B cell	ebi-a-GCST90001391	6	114522609	G	C	3658	0.49	0.10	0.00	0.01	21.97
rs9265870	IgD+ %B cell	ebi-a-GCST90001391	6	31312892	G	A	3658	0.15	0.03	0.00	0.01	22.73
rs12204136	IgD+ %B cell	ebi-a-GCST90001391	6	91791081	C	T	3658	0.24	0.05	0.00	0.01	19.55
rs10226722	IgD+ %B cell	ebi-a-GCST90001391	7	68025695	C	T	3658	0.12	0.03	0.00	0.01	21.38
rs2450220	IgD+ %B cell	ebi-a-GCST90001391	8	119323401	T	C	3658	-0.15	0.03	0.00	0.01	23.02
rs140191306	IgD+ %B cell	ebi-a-GCST90001391	9	2570753	T	C	3658	0.44	0.09	0.00	0.01	22.28
rs11068290	IgD+ %B cell	ebi-a-GCST90001391	12	110228055	T	C	3658	0.39	0.08	0.00	0.01	23.23
rs11616703	IgD+ %B cell	ebi-a-GCST90001391	13	22879729	T	G	3658	-0.42	0.09	0.00	0.01	19.81
rs62057183	IgD+ %B cell	ebi-a-GCST90001391	16	30744826	T	C	3658	0.13	0.03	0.00	0.01	19.64
rs73426855	IgD+ %B cell	ebi-a-GCST90001391	17	77637123	C	T	3658	-0.17	0.03	0.00	0.01	24.96
rs148496020	IgD+ %B cell	ebi-a-GCST90001391	17	51092001	A	T	3658	-0.41	0.09	0.00	0.01	20.99
rs1919856	IgD+ CD38br AC	ebi-a-GCST90001392	1	247700906	G	A	3656	0.17	0.04	0.00	0.01	19.77
rs116285595	IgD+ CD38br AC	ebi-a-GCST90001392	1	200858159	T	C	3656	0.65	0.14	0.00	0.01	21.11
rs116104104	IgD+ CD38br AC	ebi-a-GCST90001392	1	214476260	T	C	3656	5.39	1.18	0.00	0.01	20.69
rs12036556	IgD+ CD38br AC	ebi-a-GCST90001392	1	99149370	T	C	3656	0.35	0.07	0.00	0.01	22.07
rs1294253	IgD+ CD38br AC	ebi-a-GCST90001392	1	233503875	C	T	3656	-0.14	0.03	0.00	0.01	27.02
rs146959444	IgD+ CD38br AC	ebi-a-GCST90001392	1	167027268	C	T	3656	1.25	0.26	0.00	0.01	23.53
rs113965271	IgD+ CD38br AC	ebi-a-GCST90001392	2	128428350	C	G	3656	-0.33	0.07	0.00	0.01	20.45
rs733555	IgD+ CD38br AC	ebi-a-GCST90001392	2	16464227	T	G	3656	-0.14	0.03	0.00	0.01	26.44
rs78188887	IgD+ CD38br AC	ebi-a-GCST90001392	2	155636739	G	A	3656	1.53	0.32	0.00	0.01	22.85
rs140380950	IgD+ CD38br AC	ebi-a-GCST90001392	2	105587803	C	T	3656	-0.36	0.06	0.00	0.01	32.10
rs374727947	IgD+ CD38br AC	ebi-a-GCST90001392	3	163801921	G	T	3656	0.61	0.13	0.00	0.01	21.85
rs794185	IgD+ CD38br AC	ebi-a-GCST90001392	3	4437358	C	T	3656	-0.11	0.03	0.00	0.01	19.74
rs76112278	IgD+ CD38br AC	ebi-a-GCST90001392	4	15915069	A	G	3656	-0.46	0.09	0.00	0.01	28.30
rs7667070	IgD+ CD38br AC	ebi-a-GCST90001392	4	38379833	C	T	3656	-0.30	0.06	0.00	0.01	22.33
rs80330977	IgD+ CD38br AC	ebi-a-GCST90001392	5	158276610	A	G	3656	-0.26	0.04	0.00	0.01	33.92
rs78658073	IgD+ CD38br AC	ebi-a-GCST90001392	5	498773	A	G	3656	1.67	0.36	0.00	0.01	21.14
rs76660971	IgD+ CD38br AC	ebi-a-GCST90001392	5	18919526	A	G	3656	-0.13	0.03	0.00	0.01	19.97
rs117772462	IgD+ CD38br AC	ebi-a-GCST90001392	7	48791017	A	T	3656	-0.42	0.10	0.00	0.01	19.83
rs10265656	IgD+ CD38br AC	ebi-a-GCST90001392	7	187171	G	A	3656	-0.22	0.05	0.00	0.01	20.49
rs143397127	IgD+ CD38br AC	ebi-a-GCST90001392	7	12847391	C	T	3656	-0.46	0.10	0.00	0.01	23.32
rs1695681	IgD+ CD38br AC	ebi-a-GCST90001392	8	118255950	A	C	3656	-0.13	0.02	0.00	0.01	27.08

rs16868356	IgD+ CD38br AC	ebi-a-GCST90001392	8	102770464	C	T	3656	0.41	0.09	0.00	0.01	23.60
rs2395904	IgD+ CD38br AC	ebi-a-GCST90001392	8	130617819	G	T	3656	-0.13	0.03	0.00	0.01	23.00
rs10821937	IgD+ CD38br AC	ebi-a-GCST90001392	10	63723909	T	C	3656	-0.11	0.03	0.00	0.01	19.81
rs61878035	IgD+ CD38br AC	ebi-a-GCST90001392	11	15328898	A	G	3656	0.15	0.03	0.00	0.01	22.42
rs11068290	IgD+ CD38br AC	ebi-a-GCST90001392	12	110228055	T	C	3656	0.36	0.08	0.00	0.01	20.68
rs118090735	IgD+ CD38br AC	ebi-a-GCST90001392	12	78790468	G	T	3656	1.52	0.34	0.00	0.01	19.93
rs11159480	IgD+ CD38br AC	ebi-a-GCST90001392	14	81466662	T	G	3656	-0.15	0.03	0.00	0.01	22.31
rs7169431	IgD+ CD38br AC	ebi-a-GCST90001392	15	56340896	G	A	3656	-0.20	0.04	0.00	0.01	20.72
rs76608654	IgD+ CD38br AC	ebi-a-GCST90001392	16	55450479	C	T	3656	0.25	0.05	0.00	0.01	21.05
rs12939565	IgD+ CD38br AC	ebi-a-GCST90001392	17	38038389	T	A	3656	-0.14	0.03	0.00	0.01	26.04
rs75766272	IgD+ CD38dim %B cell	ebi-a-GCST90001393	1	8009985	T	C	3657	0.39	0.09	0.00	0.01	20.21
rs7595353	IgD+ CD38dim %B cell	ebi-a-GCST90001393	2	229232050	C	T	3657	-0.12	0.03	0.00	0.01	20.54
rs9865821	IgD+ CD38dim %B cell	ebi-a-GCST90001393	3	7014131	A	C	3657	0.12	0.03	0.00	0.01	20.20
rs6835759	IgD+ CD38dim %B cell	ebi-a-GCST90001393	4	170328209	G	A	3657	0.12	0.02	0.00	0.01	22.86
rs2301101	IgD+ CD38dim %B cell	ebi-a-GCST90001393	5	83420407	G	T	3657	-0.19	0.04	0.00	0.01	21.91
rs9459562	IgD+ CD38dim %B cell	ebi-a-GCST90001393	6	166502048	C	G	3657	0.11	0.02	0.00	0.01	19.73
rs6998850	IgD+ CD38dim %B cell	ebi-a-GCST90001393	8	61848028	G	A	3657	0.12	0.03	0.00	0.01	20.13
rs546147740	IgD+ CD38dim %B cell	ebi-a-GCST90001393	8	4318676	C	T	3657	0.76	0.17	0.00	0.01	20.99
rs62488766	IgD+ CD38dim %B cell	ebi-a-GCST90001393	8	12518295	G	A	3657	-0.36	0.08	0.00	0.01	20.30
rs61912200	IgD+ CD38dim %B cell	ebi-a-GCST90001393	12	1637126	A	T	3657	1.22	0.27	0.00	0.01	20.97
rs78269238	IgD+ CD38dim %B cell	ebi-a-GCST90001393	14	65673804	T	C	3657	-0.28	0.05	0.00	0.01	26.82
rs60521331	IgD+ CD38dim %B cell	ebi-a-GCST90001393	17	8639905	A	G	3657	0.11	0.02	0.00	0.01	20.19
rs34157595	IgD+ CD38dim %B cell	ebi-a-GCST90001393	17	49200947	C	T	3657	0.13	0.03	0.00	0.01	24.63
rs329966	IgD+ CD38dim %B cell	ebi-a-GCST90001393	19	53070617	G	A	3657	-0.13	0.02	0.00	0.01	26.41
rs4811007	IgD+ CD38dim %B cell	ebi-a-GCST90001393	20	48839604	G	A	3657	0.13	0.02	0.00	0.01	26.24
rs73909843	IgD+ CD38dim %B cell	ebi-a-GCST90001393	20	49554764	C	T	3657	0.21	0.05	0.00	0.01	20.14
rs78958229	IgD+ CD38dim %B cell	ebi-a-GCST90001393	21	39363957	T	C	3657	0.29	0.06	0.00	0.01	24.63
rs72691696	IgD+ CD38dim AC	ebi-a-GCST90001394	1	166598682	T	C	3656	1.48	0.33	0.00	0.01	19.75

rs7690529	IgD+ CD38dim AC	ebi-a-GCST90001394	4	91412392	G	A	3656	0.53	0.12	0.00	0.01	20.07
rs147207149	IgD+ CD38dim AC	ebi-a-GCST90001394	5	128786753	G	A	3656	0.67	0.14	0.00	0.01	22.88
rs17056318	IgD+ CD38dim AC	ebi-a-GCST90001394	5	158285953	C	T	3656	-0.22	0.04	0.00	0.01	25.20
rs1510970	IgD+ CD38dim AC	ebi-a-GCST90001394	5	118216738	A	G	3656	-0.20	0.04	0.00	0.01	21.55
rs115150472	IgD+ CD38dim AC	ebi-a-GCST90001394	5	146138788	T	C	3656	2.53	0.57	0.00	0.01	19.63
rs141880653	IgD+ CD38dim AC	ebi-a-GCST90001394	5	166970737	T	C	3656	1.85	0.40	0.00	0.01	21.58
rs115951641	IgD+ CD38dim AC	ebi-a-GCST90001394	6	52336715	T	A	3656	0.25	0.06	0.00	0.01	19.70
rs12197153	IgD+ CD38dim AC	ebi-a-GCST90001394	6	100821460	A	G	3656	2.22	0.44	0.00	0.01	25.00
rs143397127	IgD+ CD38dim AC	ebi-a-GCST90001394	7	12847391	C	T	3656	-0.45	0.10	0.00	0.01	22.32
rs190448231	IgD+ CD38dim AC	ebi-a-GCST90001394	7	87868543	G	T	3656	0.33	0.07	0.00	0.01	19.78
rs2395904	IgD+ CD38dim AC	ebi-a-GCST90001394	8	130617819	G	T	3656	-0.13	0.03	0.00	0.01	21.85
rs283340	IgD+ CD38dim AC	ebi-a-GCST90001394	8	70193536	C	T	3656	0.12	0.02	0.00	0.01	23.78
rs150663332	IgD+ CD38dim AC	ebi-a-GCST90001394	8	2044843	T	C	3656	-0.19	0.04	0.00	0.01	20.58
rs139801247	IgD+ CD38dim AC	ebi-a-GCST90001394	9	138747854	C	T	3656	0.38	0.08	0.00	0.01	20.66
rs116851238	IgD+ CD38dim AC	ebi-a-GCST90001394	10	33792014	T	C	3656	-0.43	0.09	0.00	0.01	23.04
rs12799241	IgD+ CD38dim AC	ebi-a-GCST90001394	11	119980729	A	G	3656	0.13	0.03	0.00	0.01	22.66
rs75474045	IgD+ CD38dim AC	ebi-a-GCST90001394	13	72428296	A	G	3656	0.55	0.11	0.00	0.01	27.03
rs12906621	IgD+ CD38dim AC	ebi-a-GCST90001394	15	37177413	A	G	3656	0.18	0.04	0.00	0.01	21.35
rs117518951	IgD+ CD38dim AC	ebi-a-GCST90001394	16	55449193	C	T	3656	0.25	0.05	0.00	0.01	20.26
rs143176410	IgD+ CD38dim AC	ebi-a-GCST90001394	16	84305239	C	G	3656	1.91	0.39	0.00	0.01	23.67
rs8076302	IgD+ CD38dim AC	ebi-a-GCST90001394	17	79265701	T	C	3656	-0.14	0.03	0.00	0.01	20.53
rs12939566	IgD+ CD38dim AC	ebi-a-GCST90001394	17	38038390	T	A	3656	-0.15	0.03	0.00	0.01	29.72
rs4792571	IgD+ CD38dim AC	ebi-a-GCST90001394	17	14931234	T	G	3656	0.11	0.02	0.00	0.01	21.13
rs655580	IgD+ CD38dim AC	ebi-a-GCST90001394	19	53039110	A	G	3656	0.12	0.02	0.00	0.01	24.49
rs34764986	IgD+ CD38dim AC	ebi-a-GCST90001394	20	59926554	C	T	3656	-0.22	0.05	0.00	0.01	21.67
rs12122084	IgD+ CD38- %B cell	ebi-a-GCST90001395	1	111914431	A	G	3657	-0.14	0.03	0.00	0.01	20.56
rs1512044	IgD+ CD38- %B cell	ebi-a-GCST90001395	3	188624425	A	G	3657	0.20	0.04	0.00	0.01	27.06
rs76376526	IgD+ CD38- %B cell	ebi-a-GCST90001395	4	109408667	T	C	3657	0.49	0.11	0.00	0.01	20.19
rs78009119	IgD+ CD38- %B cell	ebi-a-GCST90001395	5	136421498	G	T	3657	-0.49	0.11	0.00	0.01	21.36
rs34843244	IgD+ CD38- %B cell	ebi-a-GCST90001395	5	90267368	T	A	3657	0.31	0.07	0.00	0.01	20.29
rs115802369	IgD+ CD38- %B cell	ebi-a-GCST90001395	6	5380890	G	A	3657	-0.41	0.09	0.00	0.01	20.04
rs2621369	IgD+ CD38- %B cell	ebi-a-GCST90001395	6	32768285	T	C	3657	0.15	0.03	0.00	0.01	22.53
rs113398446	IgD+ CD38- %B cell	ebi-a-GCST90001395	6	161871755	C	A	3657	0.18	0.03	0.00	0.01	30.31
rs80032720	IgD+ CD38- %B cell	ebi-a-GCST90001395	6	32384933	A	G	3657	0.25	0.05	0.00	0.01	21.82
rs10254361	IgD+ CD38- %B cell	ebi-a-GCST90001395	7	119564205	T	G	3657	0.13	0.03	0.00	0.01	21.13
rs2251199	IgD+ CD38- %B cell	ebi-a-GCST90001395	8	14671281	G	A	3657	0.12	0.03	0.00	0.01	20.61
rs62502412	IgD+ CD38- %B cell	ebi-a-GCST90001395	8	28265475	T	A	3657	0.12	0.03	0.00	0.01	19.86

rs10111625	IgD+ CD38- %B cell	ebi-a-GCST90001395	8	79595404	G	A	3657	-0.12	0.03	0.00	0.01	20.03
rs7012048	IgD+ CD38- %B cell	ebi-a-GCST90001395	8	29631839	C	T	3657	0.14	0.03	0.00	0.01	20.46
rs148952274	IgD+ CD38- %B cell	ebi-a-GCST90001395	9	37982527	T	C	3657	-2.91	0.65	0.00	0.01	20.24
rs79870102	IgD+ CD38- %B cell	ebi-a-GCST90001395	12	66341509	G	A	3657	0.97	0.22	0.00	0.01	20.29
rs1959342	IgD+ CD38- %B cell	ebi-a-GCST90001395	14	20673865	T	A	3657	0.11	0.03	0.00	0.01	19.60
rs77762131	IgD+ CD38- %B cell	ebi-a-GCST90001395	14	96205838	C	G	3657	0.34	0.06	0.00	0.01	34.72
rs10444793	IgD+ CD38- %B cell	ebi-a-GCST90001395	15	44517689	A	G	3657	-0.46	0.09	0.00	0.01	25.62
rs147135384	IgD+ CD38- %B cell	ebi-a-GCST90001395	15	40195637	C	T	3657	-2.76	0.62	0.00	0.01	19.80
rs11150426	IgD+ CD38- %B cell	ebi-a-GCST90001395	16	81986583	C	G	3657	-0.12	0.02	0.00	0.01	22.87
rs181771926	IgD+ CD38- %B cell	ebi-a-GCST90001395	16	52294553	A	G	3657	-0.53	0.11	0.00	0.01	22.95
rs329966	IgD+ CD38- %B cell	ebi-a-GCST90001395	19	53070617	G	A	3657	0.12	0.02	0.00	0.01	25.96
rs73909843	IgD+ CD38- %B cell	ebi-a-GCST90001395	20	49554764	C	T	3657	-0.21	0.05	0.00	0.01	21.32
rs35050775	IgD+ CD38- %B cell	ebi-a-GCST90001395	20	8003880	T	G	3657	0.35	0.08	0.00	0.01	20.09
rs10493766	IgD+ CD38- AC	ebi-a-GCST90001396	1	85945660	G	A	3656	-0.13	0.03	0.00	0.01	20.74
rs149701635	IgD+ CD38- AC	ebi-a-GCST90001396	3	44741083	G	C	3656	-0.35	0.08	0.00	0.01	20.59
rs79207264	IgD+ CD38- AC	ebi-a-GCST90001396	3	96406408	A	G	3656	0.19	0.04	0.00	0.01	22.06
rs71615254	IgD+ CD38- AC	ebi-a-GCST90001396	4	178658413	C	A	3656	-0.28	0.06	0.00	0.01	19.97
rs146127735	IgD+ CD38- AC	ebi-a-GCST90001396	5	502938	A	G	3656	0.30	0.06	0.00	0.01	22.16
rs1158784	IgD+ CD38- AC	ebi-a-GCST90001396	6	32758761	T	A	3656	0.17	0.04	0.00	0.01	20.94
rs12216018	IgD+ CD38- AC	ebi-a-GCST90001396	6	130514590	T	C	3656	-0.17	0.04	0.00	0.01	21.89
rs7809268	IgD+ CD38- AC	ebi-a-GCST90001396	7	96302607	C	T	3656	-0.22	0.05	0.00	0.01	20.86
rs144625305	IgD+ CD38- AC	ebi-a-GCST90001396	7	7871676	T	C	3656	0.61	0.14	0.00	0.01	19.82
rs10866982	IgD+ CD38- AC	ebi-a-GCST90001396	8	5127400	A	G	3656	-0.11	0.02	0.00	0.01	20.38
rs12763172	IgD+ CD38- AC	ebi-a-GCST90001396	10	85447519	C	T	3656	0.13	0.03	0.00	0.01	20.41
rs7909504	IgD+ CD38- AC	ebi-a-GCST90001396	10	32174610	A	G	3656	-0.17	0.04	0.00	0.01	19.80
rs146687492	IgD+ CD38- AC	ebi-a-GCST90001396	11	125619694	T	G	3656	-0.34	0.07	0.00	0.01	20.97
rs12874404	IgD+ CD38- AC	ebi-a-GCST90001396	13	108993494	G	A	3656	0.14	0.03	0.00	0.01	26.06
rs77762131	IgD+ CD38- AC	ebi-a-GCST90001396	14	96205838	C	G	3656	0.32	0.06	0.00	0.01	30.91
rs10444793	IgD+ CD38- AC	ebi-a-GCST90001396	15	44517689	A	G	3656	-0.41	0.09	0.00	0.01	19.79
rs1529727	IgD+ CD38- AC	ebi-a-GCST90001396	19	11164067	G	T	3656	0.12	0.03	0.00	0.01	21.75
rs62235484	IgD+ CD38- AC	ebi-a-GCST90001396	21	41083050	A	G	3656	0.46	0.09	0.00	0.01	24.29
rs7412746	Unsw mem %B cell	ebi-a-GCST90001397	1	150860471	T	C	3657	-0.12	0.03	0.00	0.01	20.03
rs146430312	Unsw mem %B cell	ebi-a-GCST90001397	1	236060214	T	G	3657	1.02	0.22	0.00	0.01	20.94
rs75766272	Unsw mem %B cell	ebi-a-GCST90001397	1	8009985	T	C	3657	-0.44	0.09	0.00	0.01	25.70
rs72686460	Unsw mem %B cell	ebi-a-GCST90001397	1	45867753	A	T	3657	0.13	0.03	0.00	0.01	20.71
rs77201712	Unsw mem %B cell	ebi-a-GCST90001397	2	157311822	C	T	3657	0.29	0.06	0.00	0.01	21.13
rs17006489	Unsw mem %B cell	ebi-a-GCST90001397	2	28304630	G	A	3657	-0.17	0.04	0.00	0.01	20.90

rs72844588	Unsw mem %B cell	ebi-a-GCST90001397	2	138420154	A	G	3657	0.21	0.04	0.00	0.01	22.38
rs45608038	Unsw mem %B cell	ebi-a-GCST90001397	2	73679013	G	A	3657	0.29	0.06	0.00	0.01	22.00
rs73041424	Unsw mem %B cell	ebi-a-GCST90001397	3	16414269	G	A	3657	-0.26	0.06	0.00	0.01	19.94
rs183471524	Unsw mem %B cell	ebi-a-GCST90001397	4	27108645	G	A	3657	-0.20	0.04	0.00	0.01	20.10
rs116525939	Unsw mem %B cell	ebi-a-GCST90001397	5	97611924	C	T	3657	0.95	0.21	0.00	0.01	20.80
rs895377	Unsw mem %B cell	ebi-a-GCST90001397	5	58050530	A	G	3657	-0.12	0.03	0.00	0.01	20.61
rs73032183	Unsw mem %B cell	ebi-a-GCST90001397	6	169456830	C	T	3657	0.17	0.04	0.00	0.01	22.81
rs4710879	Unsw mem %B cell	ebi-a-GCST90001397	6	170426027	T	C	3657	-0.12	0.03	0.00	0.01	22.63
rs12539793	Unsw mem %B cell	ebi-a-GCST90001397	7	25971860	T	C	3657	-0.54	0.11	0.00	0.01	22.26
rs11779181	Unsw mem %B cell	ebi-a-GCST90001397	8	9063027	T	C	3657	-0.14	0.03	0.00	0.01	19.89
rs1679013	Unsw mem %B cell	ebi-a-GCST90001397	9	22206987	T	C	3657	-0.13	0.03	0.00	0.01	24.00
rs1930922	Unsw mem %B cell	ebi-a-GCST90001397	9	93297086	G	A	3657	-0.14	0.03	0.00	0.01	21.56
rs12380223	Unsw mem %B cell	ebi-a-GCST90001397	9	7639660	A	T	3657	-0.58	0.13	0.00	0.01	20.63
rs143553941	Unsw mem %B cell	ebi-a-GCST90001397	12	109368119	C	G	3657	0.52	0.11	0.00	0.01	22.55
rs11519226	Unsw mem %B cell	ebi-a-GCST90001397	12	20322449	T	A	3657	0.12	0.03	0.00	0.01	20.45
rs7322292	Unsw mem %B cell	ebi-a-GCST90001397	13	51370899	T	C	3657	-0.13	0.03	0.00	0.01	22.13
rs73192651	Unsw mem %B cell	ebi-a-GCST90001397	13	50212885	T	C	3657	0.56	0.09	0.00	0.01	38.11
rs2793491	Unsw mem %B cell	ebi-a-GCST90001397	13	24826051	T	C	3657	-0.13	0.03	0.00	0.01	19.83
rs73518104	Unsw mem %B cell	ebi-a-GCST90001397	13	70177578	A	G	3657	0.22	0.05	0.00	0.01	20.11
rs117004076	Unsw mem %B cell	ebi-a-GCST90001397	14	97702226	G	A	3657	0.45	0.10	0.00	0.01	19.65
rs77762131	Unsw mem %B cell	ebi-a-GCST90001397	14	96205838	C	G	3657	0.31	0.06	0.00	0.01	27.74
rs143666202	Unsw mem %B cell	ebi-a-GCST90001397	14	77579227	A	G	3657	0.28	0.06	0.00	0.01	22.69
rs150839591	Unsw mem %B cell	ebi-a-GCST90001397	17	260039	G	T	3657	0.25	0.05	0.00	0.01	20.76
rs1596383	Unsw mem %B cell	ebi-a-GCST90001397	18	7993103	A	G	3657	0.12	0.03	0.00	0.01	21.83
rs1883832	Unsw mem %B cell	ebi-a-GCST90001397	20	44746982	C	T	3657	-0.12	0.03	0.00	0.01	21.23
rs138380722	Unsw mem %B cell	ebi-a-GCST90001397	20	56790125	A	G	3657	-1.91	0.42	0.00	0.01	20.91
rs146720368	Unsw mem %B cell	ebi-a-GCST90001397	22	32003463	T	C	3657	0.85	0.19	0.00	0.01	19.62
rs75766272	Unsw mem AC	ebi-a-GCST90001398	1	8009985	T	C	3656	-0.38	0.09	0.00	0.01	19.85
rs11737576	Unsw mem AC	ebi-a-GCST90001398	4	55923201	T	C	3656	-0.23	0.05	0.00	0.01	20.12
rs79831025	Unsw mem AC	ebi-a-GCST90001398	6	40981212	G	C	3656	0.30	0.07	0.00	0.01	19.92
rs4076316	Unsw mem AC	ebi-a-GCST90001398	6	167859623	A	T	3656	-0.13	0.03	0.00	0.01	24.04
rs144625305	Unsw mem AC	ebi-a-GCST90001398	7	7871676	T	C	3656	0.60	0.13	0.00	0.01	19.82
rs2436878	Unsw mem AC	ebi-a-GCST90001398	8	103767171	G	A	3656	0.21	0.05	0.00	0.01	20.42
rs118092259	Unsw mem AC	ebi-a-GCST90001398	8	89432719	G	T	3656	-0.29	0.06	0.00	0.01	21.31
rs11794578	Unsw mem AC	ebi-a-GCST90001398	9	808529	G	T	3656	0.11	0.02	0.00	0.01	20.73
rs112839090	Unsw mem AC	ebi-a-GCST90001398	12	119727983	A	G	3656	-0.15	0.03	0.00	0.01	22.47
rs12874404	Unsw mem AC	ebi-a-GCST90001398	13	108993494	G	A	3656	0.15	0.03	0.00	0.01	33.29

rs557577736	Unsw mem AC	ebi-a-GCST90001398	13	46224092	G	A	3656	1.92	0.38	0.00	0.01	24.97
rs145371905	Unsw mem AC	ebi-a-GCST90001398	13	70325772	T	G	3656	0.41	0.09	0.00	0.01	21.62
rs73192651	Unsw mem AC	ebi-a-GCST90001398	13	50212885	T	C	3656	0.50	0.09	0.00	0.01	31.53
rs77762131	Unsw mem AC	ebi-a-GCST90001398	14	96205838	C	G	3656	0.31	0.06	0.00	0.01	28.70
rs143666202	Unsw mem AC	ebi-a-GCST90001398	14	77579227	A	G	3656	0.27	0.06	0.00	0.01	22.07
rs8014978	Unsw mem AC	ebi-a-GCST90001398	14	94936964	C	T	3656	-0.12	0.02	0.00	0.01	24.76
rs880311	Unsw mem AC	ebi-a-GCST90001398	16	8963504	T	C	3656	-0.18	0.04	0.00	0.01	20.34
rs11657118	Unsw mem AC	ebi-a-GCST90001398	17	2714118	C	T	3656	-0.11	0.02	0.00	0.01	21.24
rs12461001	Unsw mem AC	ebi-a-GCST90001398	19	14885525	A	G	3656	0.12	0.03	0.00	0.01	21.92
rs7254039	Unsw mem AC	ebi-a-GCST90001398	19	14993354	A	G	3656	-0.26	0.06	0.00	0.01	20.12
rs6032660	Unsw mem AC	ebi-a-GCST90001398	20	44730245	A	G	3656	-0.13	0.03	0.00	0.01	25.92
rs55712190	Unsw mem AC	ebi-a-GCST90001398	22	22613458	T	C	3656	0.21	0.05	0.00	0.01	20.61
rs76625665	IgD- CD27- %B cell	ebi-a-GCST90001399	1	233049739	T	G	3657	-0.65	0.14	0.00	0.01	20.35
rs116473015	IgD- CD27- %B cell	ebi-a-GCST90001399	2	147859010	T	C	3657	0.35	0.07	0.00	0.01	21.78
rs9842571	IgD- CD27- %B cell	ebi-a-GCST90001399	3	125931267	A	G	3657	-0.11	0.03	0.00	0.01	20.25
rs35574803	IgD- CD27- %B cell	ebi-a-GCST90001399	3	32533246	C	T	3657	-0.35	0.05	0.00	0.01	43.07
rs79430021	IgD- CD27- %B cell	ebi-a-GCST90001399	4	25037515	A	G	3657	0.76	0.16	0.00	0.01	21.42
rs35661323	IgD- CD27- %B cell	ebi-a-GCST90001399	7	44284783	T	C	3657	0.12	0.03	0.00	0.01	20.99
rs2250246	IgD- CD27- %B cell	ebi-a-GCST90001399	12	6553016	G	A	3657	0.15	0.02	0.00	0.01	36.02
rs7224129	IgD- CD27- %B cell	ebi-a-GCST90001399	17	38075426	A	G	3657	-0.13	0.03	0.00	0.01	22.14
rs11658240	IgD- CD27- %B cell	ebi-a-GCST90001399	17	80484139	G	A	3657	-0.17	0.04	0.00	0.01	22.03
rs7209088	IgD- CD27- %B cell	ebi-a-GCST90001399	17	8030165	G	C	3657	-0.12	0.03	0.00	0.01	19.67
rs72897237	IgD- CD27- %B cell	ebi-a-GCST90001399	18	37553257	C	T	3657	0.47	0.10	0.00	0.01	22.97
rs645554	IgD- CD27- %B cell	ebi-a-GCST90001399	19	14389948	A	G	3657	-0.12	0.03	0.00	0.01	20.68
rs4810485	IgD- CD27- %B cell	ebi-a-GCST90001399	20	44747947	G	T	3657	0.39	0.03	0.00	0.06	227.26
rs6073079	IgD- CD27- %B cell	ebi-a-GCST90001399	20	42024537	A	G	3657	0.18	0.04	0.00	0.01	22.47
rs11086984	IgD- CD27- %B cell	ebi-a-GCST90001399	20	44511627	T	C	3657	-0.18	0.03	0.00	0.01	26.79
rs62223906	IgD- CD27- %B cell	ebi-a-GCST90001399	21	38699025	T	C	3657	0.22	0.05	0.00	0.01	19.89
rs71615254	IgD+ AC	ebi-a-GCST90001400	4	178658413	C	A	3657	-0.30	0.06	0.00	0.01	24.59
rs12197153	IgD+ AC	ebi-a-GCST90001400	6	100821460	A	G	3657	2.08	0.45	0.00	0.01	21.44
rs9354413	IgD+ AC	ebi-a-GCST90001400	6	67039330	C	T	3657	0.13	0.03	0.00	0.01	21.15
rs2390504	IgD+ AC	ebi-a-GCST90001400	7	21321670	A	G	3657	-0.26	0.06	0.00	0.01	20.47
rs146233710	IgD+ AC	ebi-a-GCST90001400	7	106139682	G	C	3657	-0.39	0.08	0.00	0.01	20.63
rs150663332	IgD+ AC	ebi-a-GCST90001400	8	2044843	T	C	3657	-0.23	0.04	0.00	0.01	27.97
rs3019260	IgD+ AC	ebi-a-GCST90001400	8	102068804	A	C	3657	0.12	0.03	0.00	0.01	20.84
rs701839	IgD+ AC	ebi-a-GCST90001400	10	102955294	G	A	3657	0.13	0.03	0.00	0.01	22.08
rs189761842	IgD+ AC	ebi-a-GCST90001400	10	125485345	T	C	3657	0.83	0.17	0.00	0.01	23.73
rs116906133	IgD+ AC	ebi-a-GCST90001400	13	100023905	G	A	3657	-0.98	0.22	0.00	0.01	19.89
rs4145212	IgD+ AC	ebi-a-GCST90001400	13	108960188	A	T	3657	0.13	0.02	0.00	0.01	27.63
rs3811215	IgD+ AC	ebi-a-GCST90001400	14	22954777	T	G	3657	-0.13	0.03	0.00	0.01	24.71

rs11638959	IgD+ AC	ebi-a-GCST90001400	15	25171150	A	G	3657	0.15	0.03	0.00	0.01	21.59
rs143176410	IgD+ AC	ebi-a-GCST90001400	16	84305239	C	G	3657	1.83	0.40	0.00	0.01	20.61
rs11653761	IgD+ AC	ebi-a-GCST90001400	17	2716535	T	G	3657	-0.12	0.02	0.00	0.01	24.48
rs62067029	IgD+ AC	ebi-a-GCST90001400	17	38038391	T	A	3657	-0.17	0.03	0.00	0.01	34.28
rs67017503	IgD+ AC	ebi-a-GCST90001400	17	74280991	A	C	3657	0.20	0.05	0.00	0.01	19.74
rs12461001	IgD+ AC	ebi-a-GCST90001400	19	14885525	A	G	3657	0.12	0.03	0.00	0.01	21.61
rs77110486	IgD+ AC	ebi-a-GCST90001400	20	56359017	T	C	3657	0.52	0.12	0.00	0.01	19.96
rs61786059	IgD- CD27-AC	ebi-a-GCST90001401	1	29035758	T	G	3656	-0.12	0.03	0.00	0.01	21.14
rs7518494	IgD- CD27-AC	ebi-a-GCST90001401	1	217233446	A	G	3656	0.23	0.05	0.00	0.01	21.74
rs185621536	IgD- CD27-AC	ebi-a-GCST90001401	1	113524501	T	C	3656	-0.32	0.07	0.00	0.01	20.93
rs12129123	IgD- CD27-AC	ebi-a-GCST90001401	1	10083709	T	C	3656	-0.14	0.03	0.00	0.01	20.14
rs72953104	IgD- CD27-AC	ebi-a-GCST90001401	1	41379583	G	C	3656	0.23	0.05	0.00	0.01	21.24
rs113442137	IgD- CD27-AC	ebi-a-GCST90001401	1	160254955	A	G	3656	-0.26	0.06	0.00	0.01	19.93
rs11688492	IgD- CD27-AC	ebi-a-GCST90001401	2	64865804	C	T	3656	-0.12	0.03	0.00	0.01	23.57
rs7606024	IgD- CD27-AC	ebi-a-GCST90001401	2	56616595	A	T	3656	-0.14	0.03	0.00	0.01	20.49
rs114551034	IgD- CD27-AC	ebi-a-GCST90001401	2	66709035	A	G	3656	-0.28	0.06	0.00	0.01	23.94
rs35574803	IgD- CD27-AC	ebi-a-GCST90001401	3	32533246	C	T	3656	-0.28	0.05	0.00	0.01	27.10
rs13099360	IgD- CD27-AC	ebi-a-GCST90001401	3	60476875	G	A	3656	-0.26	0.06	0.00	0.01	19.57
rs59951351	IgD- CD27-AC	ebi-a-GCST90001401	4	38152090	T	A	3656	0.17	0.04	0.00	0.01	19.89
rs74356874	IgD- CD27-AC	ebi-a-GCST90001401	5	22936562	A	G	3656	0.66	0.15	0.00	0.01	20.56
rs144306835	IgD- CD27-AC	ebi-a-GCST90001401	8	96356983	A	G	3656	0.38	0.08	0.00	0.01	23.07
rs112432445	IgD- CD27-AC	ebi-a-GCST90001401	9	4162626	A	G	3656	0.28	0.06	0.00	0.01	25.07
rs78763642	IgD- CD27-AC	ebi-a-GCST90001401	9	25294308	A	G	3656	-0.33	0.07	0.00	0.01	19.70
rs117493606	IgD- CD27-AC	ebi-a-GCST90001401	10	28340929	G	T	3656	0.65	0.14	0.00	0.01	20.47
rs117833074	IgD- CD27-AC	ebi-a-GCST90001401	12	77551907	C	T	3656	-0.18	0.04	0.00	0.01	19.83
rs1047792	IgD- CD27-AC	ebi-a-GCST90001401	12	6649099	T	G	3656	-0.15	0.03	0.00	0.01	20.38
rs2250246	IgD- CD27-AC	ebi-a-GCST90001401	12	6553016	G	A	3656	0.14	0.02	0.00	0.01	30.73
rs11843493	IgD- CD27-AC	ebi-a-GCST90001401	13	47527957	C	A	3656	-0.11	0.02	0.00	0.01	19.95
rs421516	IgD- CD27-AC	ebi-a-GCST90001401	17	63135589	A	C	3656	-0.29	0.06	0.00	0.01	21.34
rs11661511	IgD- CD27-AC	ebi-a-GCST90001401	18	60852258	C	T	3656	-0.12	0.03	0.00	0.01	20.85
rs72977632	IgD- CD27-AC	ebi-a-GCST90001401	19	1930174	A	T	3656	-0.23	0.05	0.00	0.01	20.77
rs406298	IgD- CD27-AC	ebi-a-GCST90001401	19	16409903	G	C	3656	0.11	0.02	0.00	0.01	21.63
rs77126700	IgD- CD27-AC	ebi-a-GCST90001401	20	47313887	C	T	3656	0.38	0.08	0.00	0.01	22.70
rs4239702	IgD- CD27-AC	ebi-a-GCST90001401	20	44749251	C	T	3656	0.28	0.03	0.00	0.03	119.98
rs909692	IgD- CD27-AC	ebi-a-GCST90001401	22	50710633	G	C	3656	-0.11	0.02	0.00	0.01	19.68
rs9615714	IgD- CD27-AC	ebi-a-GCST90001401	22	48376963	G	A	3656	-0.17	0.03	0.00	0.01	24.70
rs72757888	Sw mem %B cell	ebi-a-GCST90001402	1	233045963	T	C	3657	-0.57	0.12	0.00	0.01	22.33
rs11204752	Sw mem %B cell	ebi-a-GCST90001402	1	150958133	C	T	3657	0.12	0.03	0.00	0.01	21.54

rs1519529	Sw mem %B cell	ebi-a-GCST90001402	2	136974257	G	C	3657	0.13	0.03	0.00	0.01	20.21
rs138919897	Sw mem %B cell	ebi-a-GCST90001402	3	106834795	G	A	3657	-1.35	0.30	0.00	0.01	19.87
rs55658041	Sw mem %B cell	ebi-a-GCST90001402	4	164291862	T	G	3657	1.01	0.21	0.00	0.01	22.92
rs17405603	Sw mem %B cell	ebi-a-GCST90001402	5	144608340	T	A	3657	-0.14	0.03	0.00	0.01	25.58
rs830682	Sw mem %B cell	ebi-a-GCST90001402	5	165597506	C	T	3657	-0.13	0.03	0.00	0.01	20.28
rs9265880	Sw mem %B cell	ebi-a-GCST90001402	6	31313054	C	T	3657	-0.15	0.03	0.00	0.01	23.83
rs2450220	Sw mem %B cell	ebi-a-GCST90001402	8	119323401	T	C	3657	0.15	0.03	0.00	0.01	22.44
rs140191306	Sw mem %B cell	ebi-a-GCST90001402	9	2570753	T	C	3657	-0.46	0.09	0.00	0.01	23.79
rs2105800	Sw mem %B cell	ebi-a-GCST90001402	11	90592716	A	G	3657	-0.12	0.03	0.00	0.01	20.51
rs11068290	Sw mem %B cell	ebi-a-GCST90001402	12	110228055	T	C	3657	-0.41	0.08	0.00	0.01	24.60
rs114917376	Sw mem %B cell	ebi-a-GCST90001402	17	51764168	G	A	3657	0.20	0.04	0.00	0.01	21.45
rs73426855	Sw mem %B cell	ebi-a-GCST90001402	17	77637123	C	T	3657	0.18	0.04	0.00	0.01	25.19
rs142587763	Sw mem AC	ebi-a-GCST90001403	1	165680636	T	C	3656	-0.27	0.06	0.00	0.01	20.69
rs115414430	Sw mem AC	ebi-a-GCST90001403	2	36720835	G	C	3656	0.35	0.07	0.00	0.01	22.48
rs1519526	Sw mem AC	ebi-a-GCST90001403	2	136967396	C	T	3656	0.15	0.03	0.00	0.01	23.41
rs7595246	Sw mem AC	ebi-a-GCST90001403	2	238554657	C	T	3656	0.15	0.03	0.00	0.01	21.85
rs73185679	Sw mem AC	ebi-a-GCST90001403	3	186485863	C	T	3656	0.18	0.04	0.00	0.01	20.33
rs141352577	Sw mem AC	ebi-a-GCST90001403	3	8492010	T	C	3656	0.36	0.08	0.00	0.01	20.57
rs115218350	Sw mem AC	ebi-a-GCST90001403	3	104146883	A	T	3656	-1.84	0.40	0.00	0.01	21.04
rs80076964	Sw mem AC	ebi-a-GCST90001403	4	94935625	C	G	3656	0.48	0.10	0.00	0.01	22.76
rs4697617	Sw mem AC	ebi-a-GCST90001403	4	25771115	A	G	3656	0.12	0.03	0.00	0.01	20.21
rs452973	Sw mem AC	ebi-a-GCST90001403	5	11308990	T	G	3656	0.12	0.03	0.00	0.01	19.65
rs4076316	Sw mem AC	ebi-a-GCST90001403	6	167859623	A	T	3656	-0.13	0.03	0.00	0.01	21.06
rs1161387	Sw mem AC	ebi-a-GCST90001403	6	50598963	G	C	3656	0.13	0.03	0.00	0.01	19.80
rs60508745	Sw mem AC	ebi-a-GCST90001403	7	40554169	C	T	3656	-0.12	0.02	0.00	0.01	21.62
rs11777835	Sw mem AC	ebi-a-GCST90001403	8	144986103	C	T	3656	-0.12	0.02	0.00	0.01	24.73
rs62521107	Sw mem AC	ebi-a-GCST90001403	8	118851954	T	C	3656	-0.25	0.05	0.00	0.01	22.52
rs2454536	Sw mem AC	ebi-a-GCST90001403	10	53764740	C	T	3656	-0.14	0.03	0.00	0.01	23.93
rs192544457	Sw mem AC	ebi-a-GCST90001403	13	42337460	A	G	3656	0.80	0.16	0.00	0.01	24.46
rs73178168	Sw mem AC	ebi-a-GCST90001403	13	47809629	T	C	3656	0.16	0.03	0.00	0.01	22.88
rs9520836	Sw mem AC	ebi-a-GCST90001403	13	108957063	G	A	3656	0.13	0.02	0.00	0.01	29.05
rs11653761	Sw mem AC	ebi-a-GCST90001403	17	2716535	T	G	3656	-0.13	0.02	0.00	0.01	26.57
rs421516	Sw mem AC	ebi-a-GCST90001403	17	63135589	A	C	3656	-0.29	0.06	0.00	0.01	21.85
rs117605782	Sw mem AC	ebi-a-GCST90001403	18	46442174	A	G	3656	0.92	0.20	0.00	0.01	20.18
rs149462070	Sw mem AC	ebi-a-GCST90001403	21	14412199	C	A	3656	-0.75	0.16	0.00	0.01	20.88
rs77741094	Sw mem AC	ebi-a-GCST90001403	21	42362418	G	C	3656	-0.55	0.11	0.00	0.01	24.19
rs5994482	Sw mem AC	ebi-a-GCST90001403	22	32570873	G	C	3656	-0.18	0.04	0.00	0.01	20.37
rs187723151	PB/PC %B cell	ebi-a-GCST90001404	1	242186219	A	G	3658	-0.91	0.19	0.00	0.01	22.21
rs2792563	PB/PC %B cell	ebi-a-GCST90001404	1	213100225	A	G	3658	-0.13	0.03	0.00	0.01	26.26
rs150152228	PB/PC %B cell	ebi-a-GCST90001404	2	235278654	G	A	3658	-1.51	0.33	0.00	0.01	20.53
rs79423067	PB/PC %B cell	ebi-a-GCST90001404	4	143873369	T	A	3658	0.49	0.11	0.00	0.01	21.13
rs78804535	PB/PC %B cell	ebi-a-GCST90001404	4	144419847	T	C	3658	0.33	0.07	0.00	0.01	21.60
rs140642786	PB/PC %B cell	ebi-a-GCST90001404	5	148927495	A	G	3658	0.17	0.04	0.00	0.01	21.00

rs2019885	PB/PC %B cell	ebi-a-GCST90001404	5	163177849	C	T	3658	-0.17	0.04	0.00	0.01	21.78
rs193552	PB/PC %B cell	ebi-a-GCST90001404	5	148172599	T	A	3658	0.12	0.03	0.00	0.01	20.55
rs34629	PB/PC %B cell	ebi-a-GCST90001404	5	60527506	A	G	3658	-0.24	0.05	0.00	0.01	23.47
rs61294310	PB/PC %B cell	ebi-a-GCST90001404	6	5266557	G	A	3658	0.50	0.11	0.00	0.01	20.95
rs11754551	PB/PC %B cell	ebi-a-GCST90001404	6	145631063	C	T	3658	0.21	0.05	0.00	0.01	19.84
rs78370279	PB/PC %B cell	ebi-a-GCST90001404	7	71338898	G	A	3658	0.56	0.12	0.00	0.01	21.56
rs74326785	PB/PC %B cell	ebi-a-GCST90001404	8	24549984	C	T	3658	0.34	0.07	0.00	0.01	21.01
rs138542577	PB/PC %B cell	ebi-a-GCST90001404	8	16074805	C	G	3658	0.35	0.06	0.00	0.01	30.42
rs4458909	PB/PC %B cell	ebi-a-GCST90001404	8	118447297	A	G	3658	-0.12	0.03	0.00	0.01	21.80
rs3138500	PB/PC %B cell	ebi-a-GCST90001404	9	92219945	T	C	3658	-0.22	0.05	0.00	0.01	20.39
rs12412378	PB/PC %B cell	ebi-a-GCST90001404	10	130483163	A	C	3658	-0.17	0.03	0.00	0.01	25.88
rs185836310	PB/PC %B cell	ebi-a-GCST90001404	10	73504848	C	T	3658	-0.26	0.06	0.00	0.01	21.22
rs76195952	PB/PC %B cell	ebi-a-GCST90001404	11	129797755	T	C	3658	-0.46	0.10	0.00	0.01	20.47
rs55728331	PB/PC %B cell	ebi-a-GCST90001404	11	117526440	A	G	3658	1.71	0.34	0.00	0.01	24.51
rs10849436	PB/PC %B cell	ebi-a-GCST90001404	12	6409619	A	G	3658	0.16	0.03	0.00	0.01	21.86
rs62012610	PB/PC %B cell	ebi-a-GCST90001404	15	34006114	C	G	3658	0.29	0.06	0.00	0.01	21.09
rs8191161	PB/PC %B cell	ebi-a-GCST90001404	16	82103595	C	G	3658	-0.20	0.04	0.00	0.01	20.73
rs12709039	PB/PC %B cell	ebi-a-GCST90001404	16	59861376	A	C	3658	-0.14	0.03	0.00	0.01	25.53
rs80148662	PB/PC %B cell	ebi-a-GCST90001404	17	52836239	A	G	3658	0.47	0.10	0.00	0.01	20.12
rs186329	PB/PC %B cell	ebi-a-GCST90001404	19	56065534	C	T	3658	0.15	0.03	0.00	0.01	22.85
rs8132059	PB/PC %B cell	ebi-a-GCST90001404	21	16916284	T	C	3658	-0.13	0.03	0.00	0.01	20.03
rs11089305	PB/PC %B cell	ebi-a-GCST90001404	22	19729361	G	A	3658	0.13	0.03	0.00	0.01	24.82
rs80297308	PB/PC AC	ebi-a-GCST90001405	1	102294391	T	C	3657	1.47	0.31	0.00	0.01	22.75
rs10800645	PB/PC AC	ebi-a-GCST90001405	1	199586940	A	G	3657	0.11	0.02	0.00	0.01	20.55
rs74458303	PB/PC AC	ebi-a-GCST90001405	2	121699864	A	G	3657	2.69	0.57	0.00	0.01	21.94
rs148362575	PB/PC AC	ebi-a-GCST90001405	2	187165335	T	A	3657	2.57	0.55	0.00	0.01	21.87
rs148389014	PB/PC AC	ebi-a-GCST90001405	3	188082431	T	C	3657	0.76	0.17	0.00	0.01	20.24
rs116540222	PB/PC AC	ebi-a-GCST90001405	3	117331256	T	C	3657	1.67	0.37	0.00	0.01	20.64
rs149048155	PB/PC AC	ebi-a-GCST90001405	3	957228	C	A	3657	-0.29	0.06	0.00	0.01	20.13
rs62353585	PB/PC AC	ebi-a-GCST90001405	4	168102710	C	T	3657	0.37	0.08	0.00	0.01	21.56
rs76709581	PB/PC AC	ebi-a-GCST90001405	5	179574693	C	T	3657	-0.18	0.04	0.00	0.01	21.27
rs7449190	PB/PC AC	ebi-a-GCST90001405	5	1297918	C	T	3657	0.12	0.03	0.00	0.01	20.20
rs61294310	PB/PC AC	ebi-a-GCST90001405	6	5266557	G	A	3657	0.51	0.11	0.00	0.01	22.95
rs4506076	PB/PC AC	ebi-a-GCST90001405	6	8860293	C	A	3657	-0.13	0.03	0.00	0.01	19.85
rs149559870	PB/PC AC	ebi-a-GCST90001405	8	39638049	T	C	3657	0.45	0.10	0.00	0.01	20.73
rs74565954	PB/PC AC	ebi-a-GCST90001405	8	24520468	T	C	3657	0.49	0.10	0.00	0.01	22.58
rs62519719	PB/PC AC	ebi-a-GCST90001405	8	118376967	A	G	3657	-0.12	0.03	0.00	0.01	22.03
rs12412378	PB/PC AC	ebi-a-GCST90001405	10	130483163	A	C	3657	-0.16	0.03	0.00	0.01	24.65
rs1681588	PB/PC AC	ebi-a-GCST90001405	14	23098304	C	T	3657	0.11	0.02	0.00	0.01	20.35
rs17765677	PB/PC AC	ebi-a-GCST90001405	16	65999760	C	T	3657	-0.34	0.07	0.00	0.01	23.42
rs7185719	PB/PC AC	ebi-a-GCST90001405	16	59859266	G	C	3657	-0.12	0.03	0.00	0.01	20.36

rs112471525	PB/PC AC	ebi-a-GCST90001405	17	52797903	G	A	3657	0.39	0.09	0.00	0.01	20.09
rs72883992	PB/PC AC	ebi-a-GCST90001405	18	24475181	C	G	3657	0.19	0.04	0.00	0.01	19.79
rs4806937	PB/PC AC	ebi-a-GCST90001405	19	3443405	A	C	3657	-0.11	0.03	0.00	0.01	20.04
rs6014246	PB/PC AC	ebi-a-GCST90001405	20	53613034	A	G	3657	-0.12	0.03	0.00	0.01	21.17
rs4820558	PB/PC AC	ebi-a-GCST90001405	22	21022887	G	C	3657	0.12	0.02	0.00	0.01	23.68
rs28652751	PB/PC AC	ebi-a-GCST90001405	22	35861208	A	T	3657	-0.11	0.03	0.00	0.01	19.79
rs75766272	Memory B cell %B cell	ebi-a-GCST90001406	1	8009985	T	C	3657	-0.47	0.09	0.00	0.01	29.28
rs4658141	Memory B cell %B cell	ebi-a-GCST90001406	1	89814066	C	T	3657	-0.14	0.03	0.00	0.01	27.38
rs149876490	Memory B cell %B cell	ebi-a-GCST90001406	1	16668240	T	C	3657	-1.00	0.22	0.00	0.01	20.00
rs7412746	Memory B cell %B cell	ebi-a-GCST90001406	1	150860471	T	C	3657	-0.14	0.03	0.00	0.01	29.46
rs72635970	Memory B cell %B cell	ebi-a-GCST90001406	2	73868977	G	T	3657	0.36	0.06	0.00	0.01	34.17
rs116391651	Memory B cell %B cell	ebi-a-GCST90001406	2	183843344	A	G	3657	0.43	0.10	0.00	0.01	19.62
rs72844588	Memory B cell %B cell	ebi-a-GCST90001406	2	138420154	A	G	3657	0.22	0.04	0.00	0.01	25.48
rs55710170	Memory B cell %B cell	ebi-a-GCST90001406	3	16416145	A	G	3657	-0.17	0.04	0.00	0.01	21.27
rs60515154	Memory B cell %B cell	ebi-a-GCST90001406	4	47914545	T	C	3657	0.13	0.03	0.00	0.01	20.45
rs35698683	Memory B cell %B cell	ebi-a-GCST90001406	4	11590243	G	A	3657	-0.28	0.06	0.00	0.01	21.81
rs77312528	Memory B cell %B cell	ebi-a-GCST90001406	4	36385921	G	T	3657	-0.62	0.13	0.00	0.01	24.61
rs895377	Memory B cell %B cell	ebi-a-GCST90001406	5	58050530	A	G	3657	-0.14	0.03	0.00	0.01	27.01
rs690488	Memory B cell %B cell	ebi-a-GCST90001406	5	40183220	A	C	3657	0.17	0.04	0.00	0.01	22.29
rs115405874	Memory B cell %B cell	ebi-a-GCST90001406	5	119742816	G	A	3657	0.99	0.20	0.00	0.01	24.28
rs62398379	Memory B cell %B cell	ebi-a-GCST90001406	6	37585447	C	T	3657	0.13	0.03	0.00	0.01	23.50
rs9270558	Memory B cell %B cell	ebi-a-GCST90001406	6	32560667	A	G	3657	-0.15	0.03	0.00	0.01	20.96
rs9492229	Memory B cell %B cell	ebi-a-GCST90001406	6	129409652	C	T	3657	0.31	0.06	0.00	0.01	26.49
rs633090	Memory B cell %B cell	ebi-a-GCST90001406	8	12933368	T	A	3657	0.12	0.03	0.00	0.01	20.00
rs140191306	Memory B cell %B cell	ebi-a-GCST90001406	9	2570753	T	C	3657	-0.42	0.09	0.00	0.01	19.76
rs145123647	Memory B cell %B cell	ebi-a-GCST90001406	10	26959594	T	C	3657	-1.08	0.22	0.00	0.01	23.24
rs10750504	Memory B cell %B cell	ebi-a-GCST90001406	11	132156175	A	C	3657	-0.18	0.04	0.00	0.01	20.26
rs61896866	Memory B cell %B cell	ebi-a-GCST90001406	11	111318165	A	G	3657	0.13	0.03	0.00	0.01	20.32
rs112570989	Memory B cell %B cell	ebi-a-GCST90001406	12	2866164	T	C	3657	-0.47	0.10	0.00	0.01	21.49
rs9584780	Memory B cell %B cell	ebi-a-GCST90001406	13	98901269	C	T	3657	0.37	0.08	0.00	0.01	22.92
rs76477280	Memory B cell %B cell	ebi-a-GCST90001406	13	50147180	G	A	3657	0.43	0.09	0.00	0.01	23.74
rs116844769	Memory B cell %B cell	ebi-a-GCST90001406	14	65713895	A	G	3657	0.28	0.05	0.00	0.01	31.39
rs77762131	Memory B cell %B cell	ebi-a-GCST90001406	14	96205838	C	G	3657	0.27	0.06	0.00	0.01	22.05
rs72914692	Memory B cell %B cell	ebi-a-GCST90001406	18	54422995	A	G	3657	0.42	0.09	0.00	0.01	20.40
rs329966	Memory B cell %B cell	ebi-a-GCST90001406	19	53070617	G	A	3657	0.11	0.02	0.00	0.01	19.82
rs16867231	Memory B cell AC	ebi-a-GCST90001407	2	181050023	A	G	3656	0.54	0.12	0.00	0.01	21.61
rs10018308	Memory B cell AC	ebi-a-GCST90001407	4	120657899	G	A	3656	0.12	0.03	0.00	0.01	19.97
rs17708396	Memory B cell AC	ebi-a-GCST90001407	5	148410250	A	C	3656	2.50	0.52	0.00	0.01	23.00

rs12216018	Memory B cell AC	ebi-a-GCST90001407	6	130514590	T	C	3656	-0.16	0.04	0.00	0.01	20.76
rs74565175	Memory B cell AC	ebi-a-GCST90001407	7	81370578	A	G	3656	0.14	0.03	0.00	0.01	20.17
rs77643931	Memory B cell AC	ebi-a-GCST90001407	9	129171041	G	T	3656	0.12	0.03	0.00	0.01	19.77
rs12763172	Memory B cell AC	ebi-a-GCST90001407	10	85447519	C	T	3656	0.13	0.03	0.00	0.01	20.45
rs2879633	Memory B cell AC	ebi-a-GCST90001407	10	53757050	A	G	3656	-0.13	0.03	0.00	0.01	21.97
rs36072728	Memory B cell AC	ebi-a-GCST90001407	11	29448646	T	C	3656	0.31	0.07	0.00	0.01	20.60
rs557577736	Memory B cell AC	ebi-a-GCST90001407	13	46224092	G	A	3656	1.83	0.39	0.00	0.01	22.08
rs12874404	Memory B cell AC	ebi-a-GCST90001407	13	108993494	G	A	3656	0.17	0.03	0.00	0.01	42.24
rs61997631	Memory B cell AC	ebi-a-GCST90001407	14	104600920	G	C	3656	-0.30	0.06	0.00	0.01	23.41
rs77762131	Memory B cell AC	ebi-a-GCST90001407	14	96205838	C	G	3656	0.27	0.06	0.00	0.01	21.91
rs139196765	Memory B cell AC	ebi-a-GCST90001407	15	24733764	G	A	3656	1.20	0.25	0.00	0.01	22.76
rs11653761	Memory B cell AC	ebi-a-GCST90001407	17	2716535	T	G	3656	-0.12	0.02	0.00	0.01	21.94
rs144295598	Memory B cell AC	ebi-a-GCST90001407	22	45164171	A	G	3656	0.61	0.12	0.00	0.01	25.54
rs9614226	Memory B cell AC	ebi-a-GCST90001407	22	44688150	G	T	3656	-0.42	0.09	0.00	0.01	23.61
rs4658141	Naive-mature B cell %B cell	ebi-a-GCST90001408	1	89814066	C	T	3657	0.14	0.03	0.00	0.01	28.01
rs7412746	Naive-mature B cell %B cell	ebi-a-GCST90001408	1	150860471	T	C	3657	0.13	0.03	0.00	0.01	26.52
rs75766272	Naive-mature B cell %B cell	ebi-a-GCST90001408	1	8009985	T	C	3657	0.46	0.09	0.00	0.01	28.57
rs149876490	Naive-mature B cell %B cell	ebi-a-GCST90001408	1	16668240	T	C	3657	1.01	0.22	0.00	0.01	20.43
rs72844588	Naive-mature B cell %B cell	ebi-a-GCST90001408	2	138420154	A	G	3657	-0.21	0.04	0.00	0.01	24.31
rs13421263	Naive-mature B cell %B cell	ebi-a-GCST90001408	2	169182294	T	C	3657	0.26	0.06	0.00	0.01	21.52
rs72635970	Naive-mature B cell %B cell	ebi-a-GCST90001408	2	73868977	G	T	3657	-0.34	0.06	0.00	0.01	30.82
rs55710170	Naive-mature B cell %B cell	ebi-a-GCST90001408	3	16416145	A	G	3657	0.17	0.04	0.00	0.01	19.60
rs35698683	Naive-mature B cell %B cell	ebi-a-GCST90001408	4	11590243	G	A	3657	0.27	0.06	0.00	0.01	20.49
rs77312528	Naive-mature B cell %B cell	ebi-a-GCST90001408	4	36385921	G	T	3657	0.60	0.13	0.00	0.01	23.00
rs115405874	Naive-mature B cell %B cell	ebi-a-GCST90001408	5	119742816	G	A	3657	-1.01	0.20	0.00	0.01	25.23
rs690488	Naive-mature B cell %B cell	ebi-a-GCST90001408	5	40183220	A	C	3657	-0.17	0.04	0.00	0.01	21.34
rs895377	Naive-mature B cell %B cell	ebi-a-GCST90001408	5	58050530	A	G	3657	0.13	0.03	0.00	0.01	25.47
rs62398379	Naive-mature B cell %B cell	ebi-a-GCST90001408	6	37585447	C	T	3657	-0.13	0.03	0.00	0.01	23.26
rs9492229	Naive-mature B cell %B cell	ebi-a-GCST90001408	6	129409652	C	T	3657	-0.30	0.06	0.00	0.01	24.28
rs9270578	Naive-mature B cell %B cell	ebi-a-GCST90001408	6	32561093	A	G	3657	0.15	0.03	0.00	0.01	20.28
rs633090	Naive-mature B cell %B cell	ebi-a-GCST90001408	8	12933368	T	A	3657	-0.12	0.03	0.00	0.01	20.39
rs145123647	Naive-mature B cell %B cell	ebi-a-GCST90001408	10	26959594	T	C	3657	1.08	0.22	0.00	0.01	22.96
rs61896866	Naive-mature B cell %B cell	ebi-a-GCST90001408	11	111318165	A	G	3657	-0.13	0.03	0.00	0.01	20.64
rs2334904	Naive-mature B cell %B cell	ebi-a-GCST90001408	11	132133144	A	G	3657	0.18	0.04	0.00	0.01	20.92
rs112570989	Naive-mature B cell %B cell	ebi-a-GCST90001408	12	2866164	T	C	3657	0.49	0.10	0.00	0.01	22.48
rs76477280	Naive-mature B cell %B cell	ebi-a-GCST90001408	13	50147180	G	A	3657	-0.42	0.09	0.00	0.01	22.90
rs9584780	Naive-mature B cell %B cell	ebi-a-GCST90001408	13	98901269	C	T	3657	-0.39	0.08	0.00	0.01	25.27

rs2476213	Naive-mature B cell %B cell	ebi-a-GCST90001408	13	102612226	T	C	3657	0.11	0.03	0.00	0.01	19.69
rs77762131	Naive-mature B cell %B cell	ebi-a-GCST90001408	14	96205838	C	G	3657	-0.27	0.06	0.00	0.01	21.80
rs974368	Naive-mature B cell %B cell	ebi-a-GCST90001408	14	63009549	A	G	3657	-0.12	0.03	0.00	0.01	21.30
rs116844769	Naive-mature B cell %B cell	ebi-a-GCST90001408	14	65713895	A	G	3657	-0.27	0.05	0.00	0.01	27.80
rs72914692	Naive-mature B cell %B cell	ebi-a-GCST90001408	18	54422995	A	G	3657	-0.42	0.09	0.00	0.01	20.63
rs9614418	Naive-mature B cell %B cell	ebi-a-GCST90001408	22	44674143	G	C	3657	-2.18	0.48	0.00	0.01	20.40
rs139077655	Naive-mature B cell AC	ebi-a-GCST90001409	2	132741527	T	C	3656	-0.12	0.03	0.00	0.01	21.16
rs76981518	Naive-mature B cell AC	ebi-a-GCST90001409	4	152777207	T	C	3656	-0.21	0.05	0.00	0.01	20.53
rs115150472	Naive-mature B cell AC	ebi-a-GCST90001409	5	146138788	T	C	3656	2.63	0.58	0.00	0.01	20.57
rs10042327	Naive-mature B cell AC	ebi-a-GCST90001409	5	58278611	A	G	3656	0.23	0.05	0.00	0.01	20.13
rs17056318	Naive-mature B cell AC	ebi-a-GCST90001409	5	158285953	C	T	3656	-0.24	0.05	0.00	0.01	26.79
rs9354413	Naive-mature B cell AC	ebi-a-GCST90001409	6	67039330	C	T	3656	0.12	0.03	0.00	0.01	20.16
rs35607968	Naive-mature B cell AC	ebi-a-GCST90001409	7	67653879	T	C	3656	0.16	0.03	0.00	0.01	21.45
rs2390504	Naive-mature B cell AC	ebi-a-GCST90001409	7	21321670	A	G	3656	-0.27	0.06	0.00	0.01	21.57
rs143397127	Naive-mature B cell AC	ebi-a-GCST90001409	7	12847391	C	T	3656	-0.46	0.10	0.00	0.01	21.69
rs2395904	Naive-mature B cell AC	ebi-a-GCST90001409	8	130617819	G	T	3656	-0.14	0.03	0.00	0.01	27.38
rs283340	Naive-mature B cell AC	ebi-a-GCST90001409	8	70193536	C	T	3656	0.13	0.02	0.00	0.01	25.49
rs189761842	Naive-mature B cell AC	ebi-a-GCST90001409	10	125485345	T	C	3656	0.79	0.17	0.00	0.01	21.37
rs117344365	Naive-mature B cell AC	ebi-a-GCST90001409	10	33779474	A	G	3656	-0.41	0.09	0.00	0.01	19.95
rs12799241	Naive-mature B cell AC	ebi-a-GCST90001409	11	119980729	A	G	3656	0.14	0.03	0.00	0.01	24.19
rs2286599	Naive-mature B cell AC	ebi-a-GCST90001409	12	6499533	A	G	3656	0.12	0.03	0.00	0.01	19.77
rs58114937	Naive-mature B cell AC	ebi-a-GCST90001409	12	67638132	G	A	3656	0.17	0.04	0.00	0.01	21.97
rs9564767	Naive-mature B cell AC	ebi-a-GCST90001409	13	71534535	G	A	3656	-0.12	0.03	0.00	0.01	21.51
rs3811215	Naive-mature B cell AC	ebi-a-GCST90001409	14	22954777	T	G	3656	-0.12	0.03	0.00	0.01	20.75
rs76263497	Naive-mature B cell AC	ebi-a-GCST90001409	15	60878804	A	G	3656	-0.19	0.04	0.00	0.01	20.76
rs143176410	Naive-mature B cell AC	ebi-a-GCST90001409	16	84305239	C	G	3656	1.82	0.41	0.00	0.01	20.08
rs77983244	Naive-mature B cell AC	ebi-a-GCST90001409	17	7316027	A	G	3656	-0.31	0.07	0.00	0.01	21.16
rs62067029	Naive-mature B cell AC	ebi-a-GCST90001409	17	38038391	T	A	3656	-0.16	0.03	0.00	0.01	31.30
rs62115322	Naive-mature B cell AC	ebi-a-GCST90001409	19	53848484	G	C	3656	0.14	0.03	0.00	0.01	21.67
rs34764986	Naive-mature B cell AC	ebi-a-GCST90001409	20	59926554	C	T	3656	-0.23	0.05	0.00	0.01	23.85
rs2792563	IgD- CD38br %B cell	ebi-a-GCST90001410	1	213100225	A	G	3657	-0.14	0.02	0.00	0.01	32.20
rs1250061	IgD- CD38br %B cell	ebi-a-GCST90001410	2	216542855	A	T	3657	-0.11	0.02	0.00	0.01	20.05
rs12636371	IgD- CD38br %B cell	ebi-a-GCST90001410	3	125894785	A	G	3657	0.12	0.02	0.00	0.01	24.08
rs12493961	IgD- CD38br %B cell	ebi-a-GCST90001410	3	11244825	G	A	3657	0.39	0.08	0.00	0.01	22.78
rs13075403	IgD- CD38br %B cell	ebi-a-GCST90001410	3	28830276	G	A	3657	0.12	0.03	0.00	0.01	19.84
rs11938966	IgD- CD38br %B cell	ebi-a-GCST90001410	4	55386841	A	C	3657	0.32	0.07	0.00	0.01	20.50
rs76912165	IgD- CD38br %B cell	ebi-a-GCST90001410	5	92965344	G	A	3657	0.41	0.09	0.00	0.01	21.74

rs139843122	IgD- CD38br %B cell	ebi-a-GCST90001410	6	107939307	T	A	3657	-0.50	0.11	0.00	0.01	21.62
rs148377259	IgD- CD38br %B cell	ebi-a-GCST90001410	7	106306631	C	T	3657	-0.34	0.07	0.00	0.01	27.08
rs13235778	IgD- CD38br %B cell	ebi-a-GCST90001410	7	57550983	A	G	3657	-0.12	0.03	0.00	0.01	20.73
rs10270812	IgD- CD38br %B cell	ebi-a-GCST90001410	7	68026886	C	T	3657	-0.12	0.02	0.00	0.01	23.37
rs188550599	IgD- CD38br %B cell	ebi-a-GCST90001410	8	15730211	G	A	3657	0.44	0.10	0.00	0.01	20.15
rs138542577	IgD- CD38br %B cell	ebi-a-GCST90001410	8	16074805	C	G	3657	0.32	0.06	0.00	0.01	25.97
rs137930158	IgD- CD38br %B cell	ebi-a-GCST90001410	8	109663198	C	G	3657	-0.66	0.14	0.00	0.01	22.04
rs113087021	IgD- CD38br %B cell	ebi-a-GCST90001410	11	97765784	A	T	3657	0.20	0.05	0.00	0.01	19.86
rs478251	IgD- CD38br %B cell	ebi-a-GCST90001410	11	127827727	C	A	3657	0.17	0.03	0.00	0.01	24.86
rs238926	IgD- CD38br %B cell	ebi-a-GCST90001410	11	113975210	A	G	3657	-0.12	0.03	0.00	0.01	21.12
rs7185719	IgD- CD38br %B cell	ebi-a-GCST90001410	16	59859266	G	C	3657	-0.13	0.03	0.00	0.01	21.11
rs11705673	IgD- CD38br %B cell	ebi-a-GCST90001410	22	45016637	G	C	3657	0.17	0.04	0.00	0.01	21.35
rs75766272	IgD+ CD24+ %B cell	ebi-a-GCST90001411	1	8009985	T	C	3657	-0.46	0.09	0.00	0.01	27.13
rs11584183	IgD+ CD24+ %B cell	ebi-a-GCST90001411	1	230130712	C	T	3657	-0.13	0.03	0.00	0.01	19.62
rs45608038	IgD+ CD24+ %B cell	ebi-a-GCST90001411	2	73679013	G	A	3657	0.28	0.06	0.00	0.01	19.70
rs6781675	IgD+ CD24+ %B cell	ebi-a-GCST90001411	3	4408435	C	G	3657	0.37	0.08	0.00	0.01	20.11
rs11134931	IgD+ CD24+ %B cell	ebi-a-GCST90001411	5	175234476	A	G	3657	-0.12	0.03	0.00	0.01	19.87
rs34418535	IgD+ CD24+ %B cell	ebi-a-GCST90001411	6	32553200	G	A	3657	0.44	0.09	0.00	0.01	23.19
rs45575344	IgD+ CD24+ %B cell	ebi-a-GCST90001411	6	133003242	C	T	3657	-0.17	0.04	0.00	0.01	20.79
rs147867176	IgD+ CD24+ %B cell	ebi-a-GCST90001411	6	169106376	T	A	3657	-0.28	0.06	0.00	0.01	20.23
rs9369326	IgD+ CD24+ %B cell	ebi-a-GCST90001411	6	42013868	C	T	3657	-0.12	0.03	0.00	0.01	21.37
rs7457479	IgD+ CD24+ %B cell	ebi-a-GCST90001411	7	66493985	C	T	3657	-0.13	0.03	0.00	0.01	20.09
rs62562996	IgD+ CD24+ %B cell	ebi-a-GCST90001411	9	21576571	A	G	3657	-0.43	0.09	0.00	0.01	22.22
rs112570989	IgD+ CD24+ %B cell	ebi-a-GCST90001411	12	2866164	T	C	3657	-0.48	0.10	0.00	0.01	21.74
rs12874404	IgD+ CD24+ %B cell	ebi-a-GCST90001411	13	108993494	G	A	3657	0.13	0.03	0.00	0.01	23.64
rs7988851	IgD+ CD24+ %B cell	ebi-a-GCST90001411	13	51367583	T	C	3657	-0.14	0.03	0.00	0.01	25.42
rs76477280	IgD+ CD24+ %B cell	ebi-a-GCST90001411	13	50147180	G	A	3657	0.47	0.09	0.00	0.01	28.32
rs145371905	IgD+ CD24+ %B cell	ebi-a-GCST90001411	13	70325772	T	G	3657	0.41	0.09	0.00	0.01	20.71
rs77762131	IgD+ CD24+ %B cell	ebi-a-GCST90001411	14	96205838	C	G	3657	0.28	0.06	0.00	0.01	23.12
rs78269238	IgD+ CD24+ %B cell	ebi-a-GCST90001411	14	65673804	T	C	3657	0.25	0.05	0.00	0.01	20.20
rs35130455	IgD+ CD24+ %B cell	ebi-a-GCST90001411	14	93256694	A	T	3657	-0.12	0.03	0.00	0.01	19.77
rs17256322	IgD+ CD24+ %B cell	ebi-a-GCST90001411	16	4127619	A	T	3657	0.12	0.03	0.00	0.01	20.99
rs144479315	IgD+ CD24+ %B cell	ebi-a-GCST90001411	18	23575118	T	A	3657	0.29	0.06	0.00	0.01	20.37
rs7586359	IgD+ CD24+ AC	ebi-a-GCST90001412	2	237195419	G	T	3656	-0.19	0.04	0.00	0.01	23.69
rs10513789	IgD+ CD24+ AC	ebi-a-GCST90001412	3	182760073	G	T	3656	0.13	0.03	0.00	0.01	20.10
rs13132141	IgD+ CD24+ AC	ebi-a-GCST90001412	4	156739300	A	G	3656	-0.12	0.03	0.00	0.01	21.68
rs147556975	IgD+ CD24+ AC	ebi-a-GCST90001412	5	148456360	T	C	3656	-0.30	0.06	0.00	0.01	23.20

rs4702913	IgD+ CD24+ AC	ebi-a-GCST90001412	5	4700587	C	A	3656	0.20	0.04	0.00	0.01	21.83
rs10942726	IgD+ CD24+ AC	ebi-a-GCST90001412	5	74257985	G	A	3656	0.12	0.03	0.00	0.01	20.01
rs144607178	IgD+ CD24+ AC	ebi-a-GCST90001412	7	63248560	T	C	3656	0.22	0.05	0.00	0.01	19.61
rs10749417	IgD+ CD24+ AC	ebi-a-GCST90001412	10	85446387	T	A	3656	-0.13	0.03	0.00	0.01	20.39
rs11047113	IgD+ CD24+ AC	ebi-a-GCST90001412	12	23968609	C	A	3656	-0.18	0.04	0.00	0.01	20.64
rs183466766	IgD+ CD24+ AC	ebi-a-GCST90001412	13	108710731	A	G	3656	0.31	0.06	0.00	0.01	27.00
rs139981802	IgD+ CD24+ AC	ebi-a-GCST90001412	13	108488351	C	T	3656	0.30	0.06	0.00	0.01	25.25
rs557577736	IgD+ CD24+ AC	ebi-a-GCST90001412	13	46224092	G	A	3656	1.82	0.38	0.00	0.01	22.72
rs145371905	IgD+ CD24+ AC	ebi-a-GCST90001412	13	70325772	T	G	3656	0.43	0.09	0.00	0.01	23.95
rs9314892	IgD+ CD24+ AC	ebi-a-GCST90001412	13	114873368	G	A	3656	-0.16	0.03	0.00	0.01	21.36
rs12874404	IgD+ CD24+ AC	ebi-a-GCST90001412	13	108993494	G	A	3656	0.20	0.03	0.00	0.02	56.93
rs73192651	IgD+ CD24+ AC	ebi-a-GCST90001412	13	50212885	T	C	3656	0.44	0.09	0.00	0.01	25.75
rs8014978	IgD+ CD24+ AC	ebi-a-GCST90001412	14	94936964	C	T	3656	-0.11	0.02	0.00	0.01	21.56
rs77762131	IgD+ CD24+ AC	ebi-a-GCST90001412	14	96205838	C	G	3656	0.29	0.06	0.00	0.01	26.19
rs12595433	IgD+ CD24+ AC	ebi-a-GCST90001412	15	63290645	A	G	3656	-0.11	0.02	0.00	0.01	20.61
rs880312	IgD+ CD24+ AC	ebi-a-GCST90001412	16	8963501	A	G	3656	-0.18	0.04	0.00	0.01	21.02
rs11653761	IgD+ CD24+ AC	ebi-a-GCST90001412	17	2716535	T	G	3656	-0.13	0.02	0.00	0.01	26.47
rs7254039	IgD+ CD24+ AC	ebi-a-GCST90001412	19	14993354	A	G	3656	-0.26	0.06	0.00	0.01	19.80
rs9614226	IgD+ CD24+ AC	ebi-a-GCST90001412	22	44688150	G	T	3656	-0.41	0.09	0.00	0.01	23.25
rs111237501	IgD- CD24- %B cell	ebi-a-GCST90001413	1	163272701	C	T	3657	1.06	0.22	0.00	0.01	22.01
rs11887461	IgD- CD24- %B cell	ebi-a-GCST90001413	2	128660247	G	A	3657	0.11	0.02	0.00	0.01	20.80
rs13020544	IgD- CD24- %B cell	ebi-a-GCST90001413	2	217809198	A	G	3657	-2.75	0.57	0.00	0.01	23.51
rs145137909	IgD- CD24- %B cell	ebi-a-GCST90001413	2	215618238	A	G	3657	-2.77	0.57	0.00	0.01	23.84
rs114209430	IgD- CD24- %B cell	ebi-a-GCST90001413	4	83018399	C	T	3657	-0.64	0.14	0.00	0.01	22.02
rs17044633	IgD- CD24- %B cell	ebi-a-GCST90001413	4	113331648	G	A	3657	0.36	0.08	0.00	0.01	22.43
rs183821560	IgD- CD24- %B cell	ebi-a-GCST90001413	5	62072324	A	G	3657	-1.84	0.39	0.00	0.01	22.44
rs9398107	IgD- CD24- %B cell	ebi-a-GCST90001413	6	107155687	G	A	3657	0.27	0.06	0.00	0.01	23.52
rs73045003	IgD- CD24- %B cell	ebi-a-GCST90001413	7	2651996	T	C	3657	-0.16	0.04	0.00	0.01	19.75
rs76377003	IgD- CD24- %B cell	ebi-a-GCST90001413	8	112881828	G	A	3657	-0.40	0.09	0.00	0.01	21.44
rs112898282	IgD- CD24- %B cell	ebi-a-GCST90001413	10	28462184	C	T	3657	0.47	0.10	0.00	0.01	21.88
rs7966251	IgD- CD24- %B cell	ebi-a-GCST90001413	12	103731395	A	G	3657	0.19	0.04	0.00	0.01	27.78
rs142305616	IgD- CD24- %B cell	ebi-a-GCST90001413	14	103946237	C	A	3657	0.47	0.10	0.00	0.01	19.80
rs7198605	IgD- CD24- %B cell	ebi-a-GCST90001413	16	6107421	T	C	3657	0.15	0.03	0.00	0.01	20.75
rs35192093	IgD- CD24- %B cell	ebi-a-GCST90001413	18	29387367	T	C	3657	0.16	0.04	0.00	0.01	20.75
rs8109503	IgD- CD24- %B cell	ebi-a-GCST90001413	19	19073798	A	T	3657	-0.20	0.04	0.00	0.01	21.20
rs6073000	IgD- CD24- %B cell	ebi-a-GCST90001413	20	41777449	C	T	3657	-0.31	0.06	0.00	0.01	24.38
rs115218594	IgD- CD24- %B cell	ebi-a-GCST90001413	22	27642688	A	G	3657	-0.28	0.06	0.00	0.01	19.99

rs72953104	IgD- CD24-AC	ebi-a-GCST90001414	1	41379583	G	C	3656	0.23	0.05	0.00	0.01	21.22
rs111237501	IgD- CD24-AC	ebi-a-GCST90001414	1	163272701	C	T	3656	1.05	0.23	0.00	0.01	21.64
rs114114265	IgD- CD24-AC	ebi-a-GCST90001414	2	79806712	A	G	3656	0.23	0.05	0.00	0.01	20.69
rs7615875	IgD- CD24-AC	ebi-a-GCST90001414	3	29345411	C	T	3656	0.14	0.03	0.00	0.01	19.81
rs76499400	IgD- CD24-AC	ebi-a-GCST90001414	3	191888629	T	G	3656	0.21	0.05	0.00	0.01	20.32
rs4697616	IgD- CD24-AC	ebi-a-GCST90001414	4	25767183	A	G	3656	0.12	0.03	0.00	0.01	21.57
rs17044633	IgD- CD24-AC	ebi-a-GCST90001414	4	113331648	G	A	3656	0.35	0.08	0.00	0.01	20.66
rs76225955	IgD- CD24-AC	ebi-a-GCST90001414	4	31594004	C	T	3656	-0.19	0.04	0.00	0.01	19.82
rs74356874	IgD- CD24-AC	ebi-a-GCST90001414	5	22936562	A	G	3656	0.68	0.15	0.00	0.01	21.00
rs145638783	IgD- CD24-AC	ebi-a-GCST90001414	6	1238442	A	G	3656	-0.99	0.21	0.00	0.01	21.10
rs112898282	IgD- CD24-AC	ebi-a-GCST90001414	10	28462184	C	T	3656	0.46	0.10	0.00	0.01	20.46
rs75453701	IgD- CD24-AC	ebi-a-GCST90001414	13	55229646	G	A	3656	0.27	0.06	0.00	0.01	19.65
rs7982713	IgD- CD24-AC	ebi-a-GCST90001414	13	71376322	G	A	3656	-0.15	0.03	0.00	0.01	23.86
rs191543445	IgD- CD24-AC	ebi-a-GCST90001414	14	31505138	G	A	3656	0.33	0.07	0.00	0.01	21.26
rs496760	IgD- CD24-AC	ebi-a-GCST90001414	15	54695686	A	G	3656	0.13	0.03	0.00	0.01	25.10
rs421516	IgD- CD24-AC	ebi-a-GCST90001414	17	63135589	A	C	3656	-0.29	0.06	0.00	0.01	21.08
rs72977632	IgD- CD24-AC	ebi-a-GCST90001414	19	1930174	A	T	3656	-0.23	0.05	0.00	0.01	20.61
rs451367	IgD- CD24-AC	ebi-a-GCST90001414	19	16412842	C	T	3656	-0.15	0.03	0.00	0.01	24.32
rs11184230	IgD+ CD24-%B cell	ebi-a-GCST90001415	1	105159724	T	C	3657	-0.19	0.04	0.00	0.01	23.86
rs7412746	IgD+ CD24-%B cell	ebi-a-GCST90001415	1	150860471	T	C	3657	0.13	0.03	0.00	0.01	23.80
rs75766272	IgD+ CD24-%B cell	ebi-a-GCST90001415	1	8009985	T	C	3657	0.48	0.09	0.00	0.01	30.33
rs45608038	IgD+ CD24-%B cell	ebi-a-GCST90001415	2	73679013	G	A	3657	-0.29	0.06	0.00	0.01	21.40
rs12465275	IgD+ CD24-%B cell	ebi-a-GCST90001415	2	4082267	C	T	3657	-0.61	0.14	0.00	0.01	19.79
rs56335940	IgD+ CD24-%B cell	ebi-a-GCST90001415	3	106579815	A	G	3657	-0.17	0.04	0.00	0.01	20.96
rs1972883	IgD+ CD24-%B cell	ebi-a-GCST90001415	4	47951945	A	G	3657	-0.14	0.03	0.00	0.01	20.29
rs35698683	IgD+ CD24-%B cell	ebi-a-GCST90001415	4	11590243	G	A	3657	0.27	0.06	0.00	0.01	20.75
rs6910508	IgD+ CD24-%B cell	ebi-a-GCST90001415	6	166531345	A	G	3657	0.12	0.03	0.00	0.01	20.65
rs533239981	IgD+ CD24-%B cell	ebi-a-GCST90001415	8	75515052	C	G	3657	0.30	0.07	0.00	0.01	21.12
rs2450220	IgD+ CD24-%B cell	ebi-a-GCST90001415	8	119323401	T	C	3657	-0.14	0.03	0.00	0.01	19.82
rs7870388	IgD+ CD24-%B cell	ebi-a-GCST90001415	9	8660693	G	C	3657	-0.14	0.03	0.00	0.01	21.89
rs140191306	IgD+ CD24-%B cell	ebi-a-GCST90001415	9	2570753	T	C	3657	0.44	0.10	0.00	0.01	21.42
rs145123647	IgD+ CD24-%B cell	ebi-a-GCST90001415	10	26959594	T	C	3657	1.02	0.23	0.00	0.01	20.04
rs116844769	IgD+ CD24-%B cell	ebi-a-GCST90001415	14	65713895	A	G	3657	-0.28	0.05	0.00	0.01	29.09
rs182854545	IgD+ CD24-%B cell	ebi-a-GCST90001415	14	54016223	T	C	3657	1.36	0.30	0.00	0.01	20.59
rs73426855	IgD+ CD24-%B cell	ebi-a-GCST90001415	17	77637123	C	T	3657	-0.16	0.04	0.00	0.01	21.25
rs2159343	IgD+ CD24-%B cell	ebi-a-GCST90001415	17	49451837	G	A	3657	-0.12	0.03	0.00	0.01	22.32
rs78958229	IgD+ CD24-%B cell	ebi-a-GCST90001415	21	39363957	T	C	3657	0.27	0.06	0.00	0.01	20.31

rs58706313	IgD+ CD24- %B cell	ebi-a-GCST90001415	22	44492562	T	C	3657	-0.30	0.07	0.00	0.01	20.10
rs71615254	IgD+ CD24- AC	ebi-a-GCST90001416	4	178658413	C	A	3656	-0.30	0.06	0.00	0.01	23.63
rs17056318	IgD+ CD24- AC	ebi-a-GCST90001416	5	158285953	C	T	3656	-0.21	0.05	0.00	0.01	21.32
rs141108367	IgD+ CD24- AC	ebi-a-GCST90001416	5	21916806	A	G	3656	1.50	0.33	0.00	0.01	20.77
rs115150472	IgD+ CD24- AC	ebi-a-GCST90001416	5	146138788	T	C	3656	2.62	0.58	0.00	0.01	20.63
rs12197153	IgD+ CD24- AC	ebi-a-GCST90001416	6	100821460	A	G	3656	2.12	0.45	0.00	0.01	22.13
rs9354413	IgD+ CD24- AC	ebi-a-GCST90001416	6	67039330	C	T	3656	0.14	0.03	0.00	0.01	25.56
rs143397127	IgD+ CD24- AC	ebi-a-GCST90001416	7	12847391	C	T	3656	-0.45	0.10	0.00	0.01	20.38
rs190448231	IgD+ CD24- AC	ebi-a-GCST90001416	7	87868543	G	T	3656	0.34	0.08	0.00	0.01	19.84
rs34910780	IgD+ CD24- AC	ebi-a-GCST90001416	7	77469688	T	A	3656	-0.27	0.06	0.00	0.01	21.92
rs2395904	IgD+ CD24- AC	ebi-a-GCST90001416	8	130617819	G	T	3656	-0.13	0.03	0.00	0.01	23.55
rs150663332	IgD+ CD24- AC	ebi-a-GCST90001416	8	2044843	T	C	3656	-0.20	0.04	0.00	0.01	20.88
rs117190494	IgD+ CD24- AC	ebi-a-GCST90001416	8	75563339	A	G	3656	0.41	0.08	0.00	0.01	25.96
rs701839	IgD+ CD24- AC	ebi-a-GCST90001416	10	102955294	G	A	3656	0.13	0.03	0.00	0.01	20.66
rs189761842	IgD+ CD24- AC	ebi-a-GCST90001416	10	125485345	T	C	3656	0.77	0.17	0.00	0.01	20.32
rs12799241	IgD+ CD24- AC	ebi-a-GCST90001416	11	119980729	A	G	3656	0.13	0.03	0.00	0.01	22.31
rs34771848	IgD+ CD24- AC	ebi-a-GCST90001416	12	14302579	T	C	3656	-0.37	0.08	0.00	0.01	21.12
rs76578043	IgD+ CD24- AC	ebi-a-GCST90001416	13	105214810	A	G	3656	0.32	0.07	0.00	0.01	20.62
rs75474045	IgD+ CD24- AC	ebi-a-GCST90001416	13	72428296	A	G	3656	0.49	0.11	0.00	0.01	20.47
rs3811215	IgD+ CD24- AC	ebi-a-GCST90001416	14	22954777	T	G	3656	-0.13	0.03	0.00	0.01	22.15
rs143176410	IgD+ CD24- AC	ebi-a-GCST90001416	16	84305239	C	G	3656	1.82	0.40	0.00	0.01	20.19
rs73426855	IgD+ CD24- AC	ebi-a-GCST90001416	17	77637123	C	T	3656	-0.16	0.03	0.00	0.01	21.83
rs77983244	IgD+ CD24- AC	ebi-a-GCST90001416	17	7316027	A	G	3656	-0.30	0.07	0.00	0.01	20.81
rs62067029	IgD+ CD24- AC	ebi-a-GCST90001416	17	38038391	T	A	3656	-0.16	0.03	0.00	0.01	31.09
rs34764986	IgD+ CD24- AC	ebi-a-GCST90001416	20	59926554	C	T	3656	-0.22	0.05	0.00	0.01	20.32
rs145208372	CD27+ %B cell CD24+	ebi-a-GCST90001417	1	83678678	A	G	3657	-0.56	0.12	0.00	0.01	20.58
rs7412746	CD27+ %B cell CD24+	ebi-a-GCST90001417	1	150860471	T	C	3657	-0.13	0.03	0.00	0.01	26.08
rs72758947	CD27+ %B cell CD24+	ebi-a-GCST90001417	1	207087053	G	A	3657	-0.24	0.05	0.00	0.01	21.48
rs4658141	CD27+ %B cell CD24+	ebi-a-GCST90001417	1	89814066	C	T	3657	-0.13	0.03	0.00	0.01	23.96
rs75766272	CD27+ %B cell CD24+	ebi-a-GCST90001417	1	8009985	T	C	3657	-0.49	0.09	0.00	0.01	31.57
rs72944931	CD27+ %B cell CD24+	ebi-a-GCST90001417	2	178116262	G	A	3657	0.47	0.11	0.00	0.01	19.59
rs45608038	CD27+ %B cell CD24+	ebi-a-GCST90001417	2	73679013	G	A	3657	0.35	0.06	0.00	0.01	31.93
rs72844588	CD27+ %B cell	ebi-a-GCST90001417	2	138420154	A	G	3657	0.21	0.04	0.00	0.01	22.84

rs62233948	CD24+ CD27+ %B cell	ebi-a-GCST90001417	3	7831627	T	C	3657	-0.74	0.16	0.00	0.01	20.11
rs145442262	CD24+ CD27+ %B cell	ebi-a-GCST90001417	3	186702869	A	G	3657	-0.21	0.04	0.00	0.01	23.72
rs55710170	CD24+ CD27+ %B cell	ebi-a-GCST90001417	3	16416145	A	G	3657	-0.17	0.04	0.00	0.01	20.32
rs35698683	CD24+ CD27+ %B cell	ebi-a-GCST90001417	4	11590243	G	A	3657	-0.29	0.06	0.00	0.01	24.39
rs115405874	CD24+ CD27+ %B cell	ebi-a-GCST90001417	5	119742816	G	A	3657	0.93	0.20	0.00	0.01	21.36
rs681014	CD24+ CD27+ %B cell	ebi-a-GCST90001417	5	140636323	C	T	3657	0.96	0.21	0.00	0.01	21.56
rs9492229	CD24+ CD27+ %B cell	ebi-a-GCST90001417	6	129409652	C	T	3657	0.27	0.06	0.00	0.01	19.70
rs148702078	CD24+ CD27+ %B cell	ebi-a-GCST90001417	6	100574892	C	G	3657	0.93	0.21	0.00	0.01	20.08
rs62459310	CD24+ CD27+ %B cell	ebi-a-GCST90001417	7	56242182	C	G	3657	0.37	0.08	0.00	0.01	20.49
rs10505439	CD24+ CD27+ %B cell	ebi-a-GCST90001417	8	124662104	T	C	3657	-0.19	0.04	0.00	0.01	19.67
rs10743163	CD24+ CD27+ %B cell	ebi-a-GCST90001417	11	11033950	A	G	3657	-0.12	0.03	0.00	0.01	22.48
rs265612	CD24+ CD27+ %B cell	ebi-a-GCST90001417	12	130112732	T	C	3657	0.11	0.03	0.00	0.01	19.69
rs112294465	CD24+ CD27+ %B cell	ebi-a-GCST90001417	12	123744082	A	C	3657	1.25	0.28	0.00	0.01	20.12
rs76477280	CD24+ CD27+ %B cell	ebi-a-GCST90001417	13	50147180	G	A	3657	0.49	0.09	0.00	0.01	30.81
rs117004076	CD24+ CD27+ %B cell	ebi-a-GCST90001417	14	97702226	G	A	3657	0.46	0.10	0.00	0.01	19.84
rs77762131	CD24+ CD27+ %B cell	ebi-a-GCST90001417	14	96205838	C	G	3657	0.27	0.06	0.00	0.01	21.06
rs116844769	CD24+ CD27+ %B cell	ebi-a-GCST90001417	14	65713895	A	G	3657	0.25	0.05	0.00	0.01	23.88
rs7221794	CD24+ CD27+ %B cell	ebi-a-GCST90001417	17	76979729	A	G	3657	-0.16	0.03	0.00	0.01	21.18
rs75766272	CD24+ CD27+ AC	ebi-a-GCST90001418	1	8009985	T	C	3656	-0.41	0.09	0.00	0.01	22.17
rs16867231	CD24+ CD27+ AC	ebi-a-GCST90001418	2	181050023	A	G	3656	0.51	0.12	0.00	0.01	19.74
rs79207264	CD24+ CD27+ AC	ebi-a-GCST90001418	3	96406408	A	G	3656	0.18	0.04	0.00	0.01	19.86
rs7640784	CD24+ CD27+ AC	ebi-a-GCST90001418	3	176029498	A	C	3656	-0.11	0.02	0.00	0.01	20.12
rs149085540	CD24+ CD27+ AC	ebi-a-GCST90001418	4	110550623	T	C	3656	-0.43	0.10	0.00	0.01	20.33
rs17708396	CD24+ CD27+ AC	ebi-a-GCST90001418	5	148410250	A	C	3656	2.54	0.52	0.00	0.01	23.82
rs10942726	CD24+ CD27+ AC	ebi-a-GCST90001418	5	74257985	G	A	3656	0.12	0.03	0.00	0.01	19.76
rs35057381	CD24+ CD27+ AC	ebi-a-GCST90001418	5	26412301	C	T	3656	0.13	0.03	0.00	0.01	20.48
rs56033406	CD24+ CD27+ AC	ebi-a-GCST90001418	6	41084740	T	C	3656	0.31	0.07	0.00	0.01	21.72
rs4076316	CD24+ CD27+ AC	ebi-a-GCST90001418	6	167859623	A	T	3656	-0.14	0.03	0.00	0.01	26.45

rs144625305	CD24+ CD27+ AC	ebi-a-GCST90001418	7	7871676	T	C	3656	0.62	0.14	0.00	0.01	20.61
rs184496770	CD24+ CD27+ AC	ebi-a-GCST90001418	8	124255582	T	C	3656	1.16	0.26	0.00	0.01	19.84
rs118092259	CD24+ CD27+ AC	ebi-a-GCST90001418	8	89432719	G	T	3656	-0.29	0.06	0.00	0.01	20.89
rs10759006	CD24+ CD27+ AC	ebi-a-GCST90001418	9	8855603	C	T	3656	0.11	0.03	0.00	0.01	19.64
rs10762541	CD24+ CD27+ AC	ebi-a-GCST90001418	10	53790461	T	C	3656	0.15	0.03	0.00	0.01	24.95
rs138329462	CD24+ CD27+ AC	ebi-a-GCST90001418	12	11634360	A	G	3656	-0.44	0.09	0.00	0.01	21.80
rs557577736	CD24+ CD27+ AC	ebi-a-GCST90001418	13	46224092	G	A	3656	1.82	0.39	0.00	0.01	21.97
rs12874404	CD24+ CD27+ AC	ebi-a-GCST90001418	13	108993494	G	A	3656	0.17	0.03	0.00	0.01	40.60
rs73192651	CD24+ CD27+ AC	ebi-a-GCST90001418	13	50212885	T	C	3656	0.44	0.09	0.00	0.01	24.59
rs76552872	CD24+ CD27+ AC	ebi-a-GCST90001418	13	70167316	T	G	3656	0.28	0.06	0.00	0.01	20.70
rs77762131	CD24+ CD27+ AC	ebi-a-GCST90001418	14	96205838	C	G	3656	0.28	0.06	0.00	0.01	23.76
rs11653761	CD24+ CD27+ AC	ebi-a-GCST90001418	17	2716535	T	G	3656	-0.12	0.02	0.00	0.01	22.81
rs11649808	CD24+ CD27+ AC	ebi-a-GCST90001418	17	62258665	A	G	3656	0.15	0.03	0.00	0.01	19.82
rs7254039	CD24+ CD27+ AC	ebi-a-GCST90001418	19	14993354	A	G	3656	-0.26	0.06	0.00	0.01	19.83
rs728776	CD24+ CD27+ AC	ebi-a-GCST90001418	22	45400116	G	A	3656	-0.17	0.04	0.00	0.01	20.20
rs144295598	CD24+ CD27+ AC	ebi-a-GCST90001418	22	45164171	A	G	3656	0.57	0.12	0.00	0.01	22.16
rs529500582	CD20- %B cell	ebi-a-GCST90001419	1	11620068	A	G	3658	-0.40	0.08	0.00	0.01	23.98
rs187723151	CD20- %B cell	ebi-a-GCST90001419	1	242186219	A	G	3658	-0.94	0.19	0.00	0.01	23.85
rs112180455	CD20- %B cell	ebi-a-GCST90001419	2	221466858	T	C	3658	0.33	0.07	0.00	0.01	20.48
rs58352426	CD20- %B cell	ebi-a-GCST90001419	3	154090291	A	G	3658	0.14	0.03	0.00	0.01	22.59
rs75951284	CD20- %B cell	ebi-a-GCST90001419	3	187638796	T	C	3658	0.31	0.07	0.00	0.01	20.84
rs74786971	CD20- %B cell	ebi-a-GCST90001419	4	90909176	C	G	3658	0.22	0.05	0.00	0.01	20.36
rs316122	CD20- %B cell	ebi-a-GCST90001419	5	93014071	C	G	3658	0.30	0.06	0.00	0.01	21.33
rs9270911	CD20- %B cell	ebi-a-GCST90001419	6	32572202	T	C	3658	0.14	0.03	0.00	0.01	22.56
rs9477367	CD20- %B cell	ebi-a-GCST90001419	6	17249496	C	T	3658	-0.19	0.04	0.00	0.01	20.12
rs111761453	CD20- %B cell	ebi-a-GCST90001419	7	137173666	T	G	3658	0.25	0.06	0.00	0.01	19.84
rs75368642	CD20- %B cell	ebi-a-GCST90001419	7	150969808	T	C	3658	0.21	0.05	0.00	0.01	20.41
rs7875273	CD20- %B cell	ebi-a-GCST90001419	9	9023522	C	T	3658	0.11	0.03	0.00	0.01	20.57
rs118084343	CD20- %B cell	ebi-a-GCST90001419	11	17687837	G	A	3658	-0.27	0.05	0.00	0.01	23.95
rs3885787	CD20- %B cell	ebi-a-GCST90001419	12	92375948	C	A	3658	0.24	0.05	0.00	0.01	20.59
rs4244568	CD20- %B cell	ebi-a-GCST90001419	15	39319915	G	T	3658	-0.12	0.03	0.00	0.01	22.10
rs140134875	CD20- %B cell	ebi-a-GCST90001419	15	80306120	A	C	3658	-1.69	0.35	0.00	0.01	23.04
rs4889373	CD20- %B cell	ebi-a-GCST90001419	16	81747602	G	A	3658	-0.14	0.03	0.00	0.01	20.21
rs2107459	CD20- %B cell	ebi-a-GCST90001419	16	74140113	A	C	3658	0.20	0.04	0.00	0.01	21.25
rs7265879	CD20- %B cell	ebi-a-GCST90001419	20	6103341	G	C	3658	-0.22	0.05	0.00	0.01	22.33
rs57840701	CD20- %B cell	ebi-a-GCST90001419	20	46686437	C	A	3658	0.46	0.10	0.00	0.01	20.64
rs115156019	IgD- CD38br AC	ebi-a-GCST90001420	1	168227395	T	C	3656	-0.62	0.12	0.00	0.01	24.88

rs2792563	IgD- CD38br AC	ebi-a-GCST90001420	1	213100225	A	G	3656	-0.11	0.02	0.00	0.01	19.63
rs138158989	IgD- CD38br AC	ebi-a-GCST90001420	2	204476635	A	G	3656	-1.34	0.28	0.00	0.01	22.34
rs114044800	IgD- CD38br AC	ebi-a-GCST90001420	2	237823477	C	G	3656	0.56	0.13	0.00	0.01	20.04
rs148362575	IgD- CD38br AC	ebi-a-GCST90001420	2	187165335	T	A	3656	2.54	0.53	0.00	0.01	23.04
rs66491584	IgD- CD38br AC	ebi-a-GCST90001420	3	20980398	A	G	3656	-0.15	0.03	0.00	0.01	24.57
rs141490841	IgD- CD38br AC	ebi-a-GCST90001420	3	149265655	A	G	3656	0.38	0.09	0.00	0.01	20.24
rs62353585	IgD- CD38br AC	ebi-a-GCST90001420	4	168102710	C	T	3656	0.34	0.08	0.00	0.01	19.88
rs3105149	IgD- CD38br AC	ebi-a-GCST90001420	5	36474634	T	A	3656	0.35	0.08	0.00	0.01	19.92
rs78678130	IgD- CD38br AC	ebi-a-GCST90001420	7	105792831	A	G	3656	-0.17	0.04	0.00	0.01	19.97
rs138058221	IgD- CD38br AC	ebi-a-GCST90001420	7	132571443	T	C	3656	-0.67	0.14	0.00	0.01	21.10
rs10815908	IgD- CD38br AC	ebi-a-GCST90001420	9	8537763	T	G	3656	0.25	0.05	0.00	0.01	22.03
rs912755	IgD- CD38br AC	ebi-a-GCST90001420	10	7484185	C	G	3656	-2.49	0.53	0.00	0.01	22.51
rs11605946	IgD- CD38br AC	ebi-a-GCST90001420	11	19547027	A	G	3656	0.15	0.03	0.00	0.01	20.84
rs79801395	IgD- CD38br AC	ebi-a-GCST90001420	11	97756814	C	G	3656	0.20	0.04	0.00	0.01	20.34
rs478251	IgD- CD38br AC	ebi-a-GCST90001420	11	127827727	C	A	3656	0.17	0.03	0.00	0.01	24.22
rs147319637	IgD- CD38br AC	ebi-a-GCST90001420	11	111211623	A	G	3656	-0.57	0.12	0.00	0.01	21.35
rs11609248	IgD- CD38br AC	ebi-a-GCST90001420	12	14317207	G	A	3656	-0.14	0.03	0.00	0.01	20.20
rs17037450	IgD- CD38br AC	ebi-a-GCST90001420	12	106098314	A	G	3656	-0.33	0.07	0.00	0.01	20.93
rs2075365	IgD- CD38br AC	ebi-a-GCST90001420	12	31092966	A	G	3656	-0.11	0.02	0.00	0.01	21.24
rs74011406	IgD- CD38br AC	ebi-a-GCST90001420	15	47631034	A	G	3656	0.19	0.04	0.00	0.01	21.96
rs72834736	IgD- CD38br AC	ebi-a-GCST90001420	16	81821361	C	G	3656	0.35	0.08	0.00	0.01	19.92
rs6712095	CD20- AC	ebi-a-GCST90001421	2	205623497	T	G	3657	0.36	0.08	0.00	0.01	20.44
rs57641238	CD20- AC	ebi-a-GCST90001421	2	75536553	C	G	3657	-0.15	0.03	0.00	0.01	27.69
rs34625183	CD20- AC	ebi-a-GCST90001421	3	146097919	T	C	3657	-0.17	0.04	0.00	0.01	19.98
rs36123742	CD20- AC	ebi-a-GCST90001421	3	133253719	T	A	3657	0.12	0.03	0.00	0.01	21.25
rs74786971	CD20- AC	ebi-a-GCST90001421	4	90909176	C	G	3657	0.23	0.05	0.00	0.01	22.62
rs116699251	CD20- AC	ebi-a-GCST90001421	5	142419461	A	G	3657	-0.27	0.06	0.00	0.01	21.72
rs41494	CD20- AC	ebi-a-GCST90001421	5	9688280	T	A	3657	1.73	0.38	0.00	0.01	20.46
rs7773849	CD20- AC	ebi-a-GCST90001421	6	128553518	G	A	3657	1.51	0.28	0.00	0.01	28.83
rs9273241	CD20- AC	ebi-a-GCST90001421	6	32614025	T	C	3657	0.18	0.03	0.00	0.01	26.23
rs2102662	CD20- AC	ebi-a-GCST90001421	7	56828069	A	G	3657	0.13	0.03	0.00	0.01	19.60
rs111761453	CD20- AC	ebi-a-GCST90001421	7	137173666	T	G	3657	0.25	0.05	0.00	0.01	20.62
rs38182	CD20- AC	ebi-a-GCST90001421	7	15900650	T	C	3657	-0.15	0.03	0.00	0.01	21.73
rs6586822	CD20- AC	ebi-a-GCST90001421	8	19139514	C	T	3657	-0.12	0.03	0.00	0.01	21.17
rs6482467	CD20- AC	ebi-a-GCST90001421	10	25320223	G	A	3657	-0.11	0.03	0.00	0.01	19.62
rs16936840	CD20- AC	ebi-a-GCST90001421	11	19531128	T	C	3657	0.19	0.04	0.00	0.01	21.57
rs2212443	CD20- AC	ebi-a-GCST90001421	11	88131197	G	T	3657	-0.14	0.03	0.00	0.01	20.51
rs12146943	CD20- AC	ebi-a-GCST90001421	13	21076875	A	G	3657	-0.11	0.02	0.00	0.01	20.39
rs77553819	CD20- AC	ebi-a-GCST90001421	13	24882401	C	G	3657	-0.12	0.03	0.00	0.01	21.55
rs71431666	CD20- AC	ebi-a-GCST90001421	14	95266847	C	G	3657	-0.19	0.04	0.00	0.01	21.58
rs252298	CD20- AC	ebi-a-GCST90001421	16	29232967	A	G	3657	0.11	0.02	0.00	0.01	20.33
rs56736306	CD20- AC	ebi-a-GCST90001421	16	87840577	G	C	3657	-0.15	0.03	0.00	0.01	20.55

rs2637364	CD20- AC	ebi-a-GCST90001421	17	32078878	C	T	3657	-0.12	0.03	0.00	0.01	21.44
rs6029245	CD20- AC	ebi-a-GCST90001421	20	39267990	C	T	3657	0.31	0.07	0.00	0.01	21.74
rs6052993	CD20- AC	ebi-a-GCST90001421	20	4944838	G	C	3657	-0.11	0.02	0.00	0.01	20.83
rs6008703	CD20- AC	ebi-a-GCST90001421	22	48837650	C	G	3657	-0.11	0.03	0.00	0.01	19.62
rs75839951	CD20- CD38- %B cell	ebi-a-GCST90001422	2	34491589	G	T	3659	-0.25	0.05	0.00	0.01	22.73
rs4832496	CD20- CD38- %B cell	ebi-a-GCST90001422	2	17752538	A	G	3659	0.13	0.03	0.00	0.01	20.36
rs141595421	CD20- CD38- %B cell	ebi-a-GCST90001422	3	63492195	G	T	3659	-0.49	0.11	0.00	0.01	19.85
rs396692	CD20- CD38- %B cell	ebi-a-GCST90001422	4	163553861	A	G	3659	0.12	0.03	0.00	0.01	20.54
rs182720746	CD20- CD38- %B cell	ebi-a-GCST90001422	4	113092883	T	C	3659	0.63	0.13	0.00	0.01	22.65
rs2215848	CD20- CD38- %B cell	ebi-a-GCST90001422	4	25065221	A	G	3659	0.52	0.11	0.00	0.01	21.84
rs62311900	CD20- CD38- %B cell	ebi-a-GCST90001422	4	74145187	T	C	3659	-0.14	0.03	0.00	0.01	19.57
rs2339996	CD20- CD38- %B cell	ebi-a-GCST90001422	5	173070505	A	G	3659	-0.15	0.03	0.00	0.01	26.26
rs13176237	CD20- CD38- %B cell	ebi-a-GCST90001422	5	42353044	G	A	3659	0.21	0.05	0.00	0.01	19.73
rs72492305	CD20- CD38- %B cell	ebi-a-GCST90001422	6	32509333	T	C	3659	0.21	0.04	0.00	0.01	25.68
rs56284619	CD20- CD38- %B cell	ebi-a-GCST90001422	6	90013983	T	C	3659	0.16	0.03	0.00	0.01	20.62
rs10988372	CD20- CD38- %B cell	ebi-a-GCST90001422	9	132193568	C	G	3659	0.14	0.03	0.00	0.01	20.30
rs118073973	CD20- CD38- %B cell	ebi-a-GCST90001422	9	19948908	A	T	3659	0.28	0.06	0.00	0.01	20.72
rs72652459	CD20- CD38- %B cell	ebi-a-GCST90001422	9	22099416	T	C	3659	-1.51	0.34	0.00	0.01	19.71
rs55767134	CD20- CD38- %B cell	ebi-a-GCST90001422	10	17048435	C	G	3659	-0.15	0.03	0.00	0.01	21.95
rs34666228	CD20- CD38- %B cell	ebi-a-GCST90001422	11	123385425	T	G	3659	0.14	0.03	0.00	0.01	23.26
rs78301150	CD20- CD38- %B cell	ebi-a-GCST90001422	12	82233392	A	G	3659	-1.07	0.22	0.00	0.01	23.32
rs55897487	CD20- CD38- %B cell	ebi-a-GCST90001422	12	261706	T	C	3659	-1.34	0.29	0.00	0.01	21.45
rs117308259	CD20- CD38- %B cell	ebi-a-GCST90001422	14	31993501	C	T	3659	-0.83	0.15	0.00	0.01	31.21
rs17099538	CD20- CD38- %B cell	ebi-a-GCST90001422	14	33254318	C	T	3659	-0.24	0.05	0.00	0.01	21.82
rs77911577	CD20- CD38- %B cell	ebi-a-GCST90001422	14	28669022	C	A	3659	-0.26	0.06	0.00	0.01	19.80
rs2113943	CD20- CD38- %B cell	ebi-a-GCST90001422	15	60895636	G	A	3659	0.13	0.03	0.00	0.01	19.75
rs35639639	CD20- CD38- %B cell	ebi-a-GCST90001422	16	5488091	C	T	3659	0.13	0.03	0.00	0.01	19.83
rs16955339	CD20- CD38- %B cell	ebi-a-GCST90001422	17	52971060	T	G	3659	0.29	0.06	0.00	0.01	22.17
rs36071180	CD20- CD38- %B cell	ebi-a-GCST90001422	20	765164	A	G	3659	0.15	0.03	0.00	0.01	19.97
rs6125184	CD20- CD38- %B cell	ebi-a-GCST90001422	20	46576714	A	G	3659	-0.12	0.02	0.00	0.01	23.17
rs182720746	CD20- CD38- AC	ebi-a-GCST90001423	4	113092883	T	C	3658	0.60	0.13	0.00	0.01	20.73
rs62311900	CD20- CD38- AC	ebi-a-GCST90001423	4	74145187	T	C	3658	-0.15	0.03	0.00	0.01	23.42
rs2339996	CD20- CD38- AC	ebi-a-GCST90001423	5	173070505	A	G	3658	-0.14	0.03	0.00	0.01	24.80
rs72492305	CD20- CD38- AC	ebi-a-GCST90001423	6	32509333	T	C	3658	0.21	0.04	0.00	0.01	25.65
rs6906886	CD20- CD38- AC	ebi-a-GCST90001423	6	85038851	A	T	3658	0.19	0.04	0.00	0.01	21.70
rs11203884	CD20- CD38- AC	ebi-a-GCST90001423	8	17516564	T	C	3658	-0.15	0.03	0.00	0.01	22.41
rs10988372	CD20- CD38- AC	ebi-a-GCST90001423	9	132193568	C	G	3658	0.14	0.03	0.00	0.01	21.29
rs118073973	CD20- CD38- AC	ebi-a-GCST90001423	9	19948908	A	T	3658	0.29	0.06	0.00	0.01	21.96

rs75609575	CD20- CD38- AC	ebi-a-GCST90001423	11	97639659	A	G	3658	-0.31	0.07	0.00	0.01	21.60
rs308820	CD20- CD38- AC	ebi-a-GCST90001423	11	88142031	C	T	3658	-0.13	0.03	0.00	0.01	21.04
rs61906277	CD20- CD38- AC	ebi-a-GCST90001423	11	123384801	G	A	3658	0.14	0.03	0.00	0.01	25.79
rs117308259	CD20- CD38- AC	ebi-a-GCST90001423	14	31993501	C	T	3658	-0.69	0.15	0.00	0.01	21.14
rs16955339	CD20- CD38- AC	ebi-a-GCST90001423	17	52971060	T	G	3658	0.31	0.06	0.00	0.01	24.52
rs77510701	CD20- CD38- AC	ebi-a-GCST90001423	18	34838106	A	C	3658	-0.25	0.06	0.00	0.01	20.32
rs80339814	CD20- CD38- AC	ebi-a-GCST90001423	19	53396009	C	T	3658	-0.21	0.05	0.00	0.01	19.98
rs6125184	CD20- CD38- AC	ebi-a-GCST90001423	20	46576714	A	G	3658	-0.11	0.02	0.00	0.01	19.64
rs36071180	CD20- CD38- AC	ebi-a-GCST90001423	20	765164	A	G	3658	0.15	0.03	0.00	0.01	20.06
rs143109147	IgD+ %Lymphocyt	ebi-a-GCST90001424	1	40387371	C	T	3657	2.75	0.59	0.00	0.01	21.71
rs16837671	IgD+ %Lymphocyt	ebi-a-GCST90001424	2	206655953	G	T	3657	-0.28	0.06	0.00	0.01	24.57
rs141070091	IgD+ %Lymphocyt	ebi-a-GCST90001424	4	46715880	T	G	3657	0.61	0.14	0.00	0.01	20.25
rs76845048	IgD+ %Lymphocyt	ebi-a-GCST90001424	5	115785493	C	A	3657	-0.30	0.07	0.00	0.01	20.98
rs4361609	IgD+ %Lymphocyt	ebi-a-GCST90001424	6	31240635	C	G	3657	-0.21	0.04	0.00	0.01	24.74
rs73078428	IgD+ %Lymphocyt	ebi-a-GCST90001424	7	20106029	A	T	3657	-0.17	0.04	0.00	0.01	20.95
rs111830700	IgD+ %Lymphocyt	ebi-a-GCST90001424	7	121332400	A	G	3657	0.29	0.06	0.00	0.01	20.81
rs34910780	IgD+ %Lymphocyt	ebi-a-GCST90001424	7	77469688	T	A	3657	-0.27	0.06	0.00	0.01	23.55
rs2395904	IgD+ %Lymphocyt	ebi-a-GCST90001424	8	130617819	G	T	3657	-0.13	0.03	0.00	0.01	22.44
rs533239981	IgD+ %Lymphocyt	ebi-a-GCST90001424	8	75515052	C	G	3657	0.28	0.06	0.00	0.01	19.95
rs1977295	IgD+ %Lymphocyt	ebi-a-GCST90001424	10	7188484	A	G	3657	0.11	0.02	0.00	0.01	21.81
rs75319860	IgD+ %Lymphocyt	ebi-a-GCST90001424	12	110312229	C	T	3657	0.35	0.08	0.00	0.01	20.29
rs116906133	IgD+ %Lymphocyt	ebi-a-GCST90001424	13	100023905	G	A	3657	-1.03	0.22	0.00	0.01	22.44
rs12874404	IgD+ %Lymphocyt	ebi-a-GCST90001424	13	108993494	G	A	3657	0.19	0.03	0.00	0.01	53.30
rs2402519	IgD+ %Lymphocyt	ebi-a-GCST90001424	14	95373465	C	G	3657	0.16	0.03	0.00	0.01	22.56
rs11657531	IgD+ %Lymphocyt	ebi-a-GCST90001424	17	2731370	T	C	3657	-0.15	0.02	0.00	0.01	38.67
rs12939565	IgD+ %Lymphocyt	ebi-a-GCST90001424	17	38038389	T	A	3657	-0.14	0.03	0.00	0.01	26.71
rs75956343	IgD+ %Lymphocyt	ebi-a-GCST90001424	17	70210257	G	A	3657	-0.26	0.06	0.00	0.01	19.81

rs55658072	IgD+ %Lymphocyte	ebi-a-GCST90001424	19	14873284	G	A	3657	0.12	0.02	0.00	0.01	21.72
rs6131010	IgD+ %Lymphocyte	ebi-a-GCST90001424	20	44724305	G	A	3657	-0.12	0.03	0.00	0.01	22.26
rs970081	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	1	213101844	A	G	3656	-0.12	0.02	0.00	0.01	23.01
rs78196740	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	1	63802723	C	T	3656	0.19	0.04	0.00	0.01	22.14
rs148362575	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	2	187165335	T	A	3656	2.57	0.54	0.00	0.01	22.72
rs62160934	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	2	136941539	A	T	3656	0.13	0.03	0.00	0.01	20.48
rs138158989	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	2	204476635	A	G	3656	-1.32	0.28	0.00	0.01	22.22
rs66491584	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	3	20980398	A	G	3656	-0.14	0.03	0.00	0.01	22.67
rs116540222	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	3	117331256	T	C	3656	1.62	0.36	0.00	0.01	20.10
rs79812543	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	3	157649504	A	G	3656	0.38	0.08	0.00	0.01	21.25
rs151009998	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	3	11712287	A	G	3656	0.29	0.06	0.00	0.01	22.37
rs11938966	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	4	55386841	A	C	3656	0.30	0.07	0.00	0.01	19.70
rs114428590	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	4	61089291	A	T	3656	-0.69	0.16	0.00	0.01	19.79
rs79264549	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	5	89585751	A	C	3656	1.58	0.36	0.00	0.01	19.77
rs6554754	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	5	1297258	C	T	3656	0.12	0.03	0.00	0.01	20.55
rs139101653	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	6	31274174	T	C	3656	-0.50	0.11	0.00	0.01	19.83
rs76624801	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	6	41935797	C	A	3656	-2.09	0.45	0.00	0.01	21.56
rs187459109	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	6	40333488	A	G	3656	-1.99	0.40	0.00	0.01	24.35
rs75346886	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	7	127285830	T	G	3656	0.33	0.07	0.00	0.01	22.25
rs138058221	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	7	132571443	T	C	3656	-0.65	0.14	0.00	0.01	19.91
rs148377259	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	7	106306631	C	T	3656	-0.31	0.06	0.00	0.01	23.24
rs12340211	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	9	8531036	G	C	3656	0.26	0.05	0.00	0.01	22.75
rs113087021	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	11	97765784	A	T	3656	0.20	0.04	0.00	0.01	19.85
rs478251	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	11	127827727	C	A	3656	0.16	0.03	0.00	0.01	20.83
rs6488283	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	12	10496783	G	A	3656	-0.11	0.02	0.00	0.01	20.39
rs7294591	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	12	52932031	T	C	3656	0.12	0.02	0.00	0.01	23.85
rs11609248	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	12	14317207	G	A	3656	-0.14	0.03	0.00	0.01	23.02
rs17037450	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	12	106098314	A	G	3656	-0.32	0.07	0.00	0.01	20.06
rs72686093	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	14	22129890	T	C	3656	0.29	0.06	0.00	0.01	23.04
rs2627305	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	15	74539114	A	G	3656	-0.12	0.03	0.00	0.01	20.21
rs4785074	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	16	59885737	T	C	3656	-0.13	0.02	0.00	0.01	27.20
rs72834736	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	16	81821361	C	G	3656	0.36	0.08	0.00	0.01	21.26
rs76348547	IgD- CD38br %lymphocyte	ebi-a-GCST90001425	22	31013921	T	G	3656	0.39	0.08	0.00	0.01	22.92
rs500586	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	1	41075209	T	C	3656	-0.12	0.03	0.00	0.01	19.65
rs72691171	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	1	119873920	T	A	3656	0.56	0.12	0.00	0.01	20.03

rs143785715	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	1	19500582	T	C	3656	1.03	0.23	0.00	0.01	21.09
rs10922490	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	1	89286072	C	T	3656	0.52	0.10	0.00	0.01	24.42
rs11687597	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	2	136926146	G	A	3656	0.16	0.03	0.00	0.01	29.87
rs7595246	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	2	238554657	C	T	3656	0.16	0.03	0.00	0.01	26.67
rs71612685	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	4	100279851	G	A	3656	0.51	0.11	0.00	0.01	21.89
rs1867929	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	4	1628280	A	C	3656	0.17	0.04	0.00	0.01	19.56
rs114839471	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	5	89545035	G	A	3656	2.93	0.65	0.00	0.01	20.30
rs17405603	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	5	144608340	T	A	3656	-0.13	0.03	0.00	0.01	22.39
rs146936090	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	6	41401285	T	C	3656	1.84	0.38	0.00	0.01	23.01
rs6972846	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	7	22048853	T	G	3656	-0.12	0.02	0.00	0.01	22.91
rs78027513	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	7	154618679	T	G	3656	0.27	0.06	0.00	0.01	20.97
rs7840395	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	8	144984956	G	A	3656	-0.14	0.02	0.00	0.01	33.33
rs2137277	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	8	40734662	G	A	3656	0.14	0.03	0.00	0.01	20.27
rs72816858	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	10	22940992	C	G	3656	0.44	0.09	0.00	0.01	22.43
rs12298227	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	12	54786414	C	T	3656	-0.21	0.04	0.00	0.01	24.84
rs593370	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	12	53022961	T	C	3656	-0.12	0.03	0.00	0.01	20.43
rs9520836	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	13	108957063	G	A	3656	0.13	0.02	0.00	0.01	28.38
rs118086652	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	15	76646870	G	A	3656	0.38	0.08	0.00	0.01	21.05
rs11653761	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	17	2716535	T	G	3656	-0.13	0.02	0.00	0.01	27.17
rs145744014	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	18	61418402	T	C	3656	0.50	0.11	0.00	0.01	20.34
rs652344	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	19	36290177	C	T	3656	-0.12	0.03	0.00	0.01	20.24
rs2328245	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	20	18194427	T	C	3656	0.11	0.02	0.00	0.01	20.53
rs134927	IgD- CD38dim %lymphocyte	ebi-a-GCST90001426	22	27421843	T	C	3656	0.38	0.08	0.00	0.01	20.58
rs61790670	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	1	84127219	A	C	3656	0.15	0.03	0.00	0.01	27.27
rs116661843	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	1	178417994	A	G	3656	-0.29	0.06	0.00	0.01	19.56

rs12128328	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	1	59700800	C	T	3656	0.14	0.03	0.00	0.01	21.77
rs12624265	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	2	119468602	G	A	3656	0.14	0.03	0.00	0.01	20.16
rs12992631	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	2	232313158	T	C	3656	-0.13	0.03	0.00	0.01	20.25
rs2084194	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	2	47117185	A	G	3656	-0.12	0.03	0.00	0.01	20.16
rs6723786	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	2	238550072	G	A	3656	0.14	0.03	0.00	0.01	26.42
rs114551034	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	2	66709035	A	G	3656	-0.27	0.06	0.00	0.01	22.79
rs75524570	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	3	191905058	C	T	3656	0.22	0.05	0.00	0.01	20.52
rs150378941	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	4	133090875	C	G	3656	-0.85	0.19	0.00	0.01	20.44
rs72942964	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	4	134727496	T	C	3656	-1.23	0.27	0.00	0.01	20.95
rs7676571	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	4	56547047	T	C	3656	0.17	0.04	0.00	0.01	20.42
rs4697617	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	4	25771115	A	G	3656	0.12	0.03	0.00	0.01	19.90
rs72711540	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	4	186920475	C	G	3656	-0.17	0.04	0.00	0.01	20.01
rs17405603	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	5	144608340	T	A	3656	-0.13	0.03	0.00	0.01	22.76
rs144625305	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	7	7871676	T	C	3656	0.62	0.14	0.00	0.01	20.39
rs11777835	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	8	144986103	C	T	3656	-0.12	0.03	0.00	0.01	24.73
rs190799514	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	8	55620993	C	T	3656	0.39	0.08	0.00	0.01	25.98
rs75116337	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	8	55914981	C	T	3656	0.40	0.09	0.00	0.01	20.53
rs814418	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	8	9936753	T	C	3656	0.20	0.04	0.00	0.01	21.14
rs4756916	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	11	12544361	C	T	3656	-0.11	0.03	0.00	0.01	19.90
rs17234595	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	11	23667143	A	G	3656	-0.38	0.09	0.00	0.01	19.75
rs12426629	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	12	54797571	G	C	3656	-0.20	0.04	0.00	0.01	20.91
rs9514859	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	13	109144845	C	G	3656	0.12	0.03	0.00	0.01	23.30
rs12874404	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	13	108993494	G	A	3656	0.14	0.03	0.00	0.01	27.84
rs4474666	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	16	85313662	A	G	3656	0.11	0.02	0.00	0.01	20.64
rs11653761	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	17	2716535	T	G	3656	-0.12	0.02	0.00	0.01	22.03
rs34157595	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	17	49200947	C	T	3656	-0.12	0.03	0.00	0.01	19.64
rs7236090	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	18	60947111	C	T	3656	0.12	0.02	0.00	0.01	21.68
rs77741094	IgD- CD38- %lymphocyte	ebi-a-GCST90001427	21	42362418	G	C	3656	-0.54	0.11	0.00	0.01	23.59
rs112904733	CD38dim %B cell IgD-	ebi-a-GCST90001428	1	214958496	T	G	3657	0.20	0.04	0.00	0.01	21.40
rs143109147	CD38dim %B cell IgD-	ebi-a-GCST90001428	1	40387371	C	T	3657	-2.64	0.59	0.00	0.01	19.70
rs12118242	CD38dim %B cell IgD-	ebi-a-GCST90001428	1	232094153	T	C	3657	-0.73	0.16	0.00	0.01	20.17
rs9424499	CD38dim %B cell IgD-	ebi-a-GCST90001428	1	233050029	C	G	3657	-0.59	0.11	0.00	0.01	26.47
rs16832731	CD38dim %B cell IgD-	ebi-a-GCST90001428	2	136864703	A	G	3657	0.15	0.03	0.00	0.01	22.22
rs138919897	CD38dim %B cell	ebi-a-GCST90001428	3	106834795	G	A	3657	-1.34	0.30	0.00	0.01	20.51

rs73205209	IgD- CD38dim %B ebi-a-GCST90001428 cell	3	106275239	C	T	3657	0.33	0.07	0.00	0.01	22.00
rs111854570	IgD- CD38dim %B ebi-a-GCST90001428 cell	3	8695105	A	G	3657	-0.29	0.06	0.00	0.01	21.14
rs114839471	IgD- CD38dim %B ebi-a-GCST90001428 cell	5	89545035	G	A	3657	3.03	0.67	0.00	0.01	20.47
rs17405749	IgD- CD38dim %B ebi-a-GCST90001428 cell	5	144609363	T	C	3657	-0.14	0.03	0.00	0.01	23.18
rs80088375	IgD- CD38dim %B ebi-a-GCST90001428 cell	5	11638274	T	C	3657	-0.36	0.08	0.00	0.01	20.39
rs75273600	IgD- CD38dim %B ebi-a-GCST90001428 cell	6	125594743	A	G	3657	0.64	0.13	0.00	0.01	26.06
rs849133	IgD- CD38dim %B ebi-a-GCST90001428 cell	7	28192280	T	C	3657	-0.12	0.03	0.00	0.01	19.67
rs146267894	IgD- CD38dim %B ebi-a-GCST90001428 cell	9	75147206	T	C	3657	-0.46	0.10	0.00	0.01	19.90
rs2397752	IgD- CD38dim %B ebi-a-GCST90001428 cell	10	132983821	T	C	3657	-0.14	0.03	0.00	0.01	23.33
rs117987395	IgD- CD38dim %B ebi-a-GCST90001428 cell	10	10573290	G	T	3657	-0.25	0.06	0.00	0.01	19.93
rs80216562	IgD- CD38dim %B ebi-a-GCST90001428 cell	11	128322602	A	G	3657	-0.37	0.07	0.00	0.01	26.14
rs10743163	IgD- CD38dim %B ebi-a-GCST90001428 cell	11	11033950	A	G	3657	-0.12	0.03	0.00	0.01	21.28
rs61946381	IgD- CD38dim %B ebi-a-GCST90001428 cell	12	121343559	C	A	3657	0.32	0.07	0.00	0.01	19.57
rs1846398	IgD- CD38dim %B ebi-a-GCST90001428 cell	12	57302799	C	A	3657	-0.13	0.03	0.00	0.01	19.81
rs4038038	IgD- CD38dim %B ebi-a-GCST90001428 cell	13	19499423	A	G	3657	0.12	0.03	0.00	0.01	21.65
rs117227598	IgD- CD38dim %B ebi-a-GCST90001428 cell	15	77402748	G	C	3657	0.65	0.15	0.00	0.01	20.12
rs11548656	IgD- CD38dim %B ebi-a-GCST90001428 cell	16	81916912	G	A	3657	-0.17	0.04	0.00	0.01	21.59
rs75659776	IgD- CD38dim %B ebi-a-GCST90001428 cell	17	49605668	T	C	3657	0.26	0.06	0.00	0.01	22.04
rs117541917	IgD- CD38dim %B ebi-a-GCST90001428 cell	17	41946947	C	A	3657	-0.24	0.05	0.00	0.01	19.79
rs113530462	IgD- CD38dim %B ebi-a-GCST90001428 cell	20	6688542	C	G	3657	0.89	0.20	0.00	0.01	20.47
rs1919856	IgD+ CD38br %lymphocyte ebi-a-GCST90001429	1	247700906	G	A	3656	0.17	0.04	0.00	0.01	20.63
rs11682311	IgD+ CD38br %lymphocyte ebi-a-GCST90001429	2	16464977	C	T	3656	-0.13	0.03	0.00	0.01	24.17
rs4907205	IgD+ CD38br %lymphocyte ebi-a-GCST90001429	2	97558150	C	T	3656	-0.17	0.04	0.00	0.01	19.63
rs140380950	IgD+ CD38br %lymphocyte ebi-a-GCST90001429	2	105587803	C	T	3656	-0.36	0.06	0.00	0.01	31.55
rs2686423	IgD+ CD38br %lymphocyte ebi-a-GCST90001429	3	183195708	G	A	3656	0.34	0.07	0.00	0.01	20.33
rs76112278	IgD+ CD38br %lymphocyte ebi-a-GCST90001429	4	15915069	A	G	3656	-0.42	0.09	0.00	0.01	23.55
rs7667070	IgD+ CD38br %lymphocyte ebi-a-GCST90001429	4	38379833	C	T	3656	-0.28	0.06	0.00	0.01	19.86

rs78658073	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	5	498773	A	G	3656	1.79	0.37	0.00	0.01	23.97
rs80330977	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	5	158276610	A	G	3656	-0.23	0.05	0.00	0.01	26.71
rs76660971	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	5	18919526	A	G	3656	-0.14	0.03	0.00	0.01	22.64
rs2857599	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	6	31562150	A	G	3656	-0.17	0.04	0.00	0.01	20.51
rs117772462	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	7	48791017	A	T	3656	-0.46	0.10	0.00	0.01	23.10
rs11185560	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	7	190115	A	G	3656	-0.23	0.05	0.00	0.01	21.90
rs10103048	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	8	130602281	C	A	3656	0.13	0.03	0.00	0.01	21.90
rs1695681	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	8	118255950	A	C	3656	-0.12	0.02	0.00	0.01	24.48
rs13300113	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	9	115678594	T	A	3656	0.12	0.03	0.00	0.01	20.03
rs10821937	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	10	63723909	T	C	3656	-0.12	0.03	0.00	0.01	20.63
rs10832409	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	11	15377699	A	G	3656	0.15	0.03	0.00	0.01	21.45
rs11068290	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	12	110228055	T	C	3656	0.39	0.08	0.00	0.01	23.82
rs59879144	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	12	75564449	A	C	3656	-0.46	0.10	0.00	0.01	22.77
rs10877626	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	12	61758121	G	C	3656	0.11	0.02	0.00	0.01	20.37
rs17408660	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	12	27184482	G	A	3656	-0.47	0.11	0.00	0.01	19.98
rs75589249	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	14	43915569	T	C	3656	-0.54	0.12	0.00	0.01	20.21
rs3811315	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	14	22499870	A	T	3656	0.18	0.04	0.00	0.01	22.22
rs2216762	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	16	84759446	C	T	3656	-0.15	0.03	0.00	0.01	24.23
rs60521331	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	17	8639905	A	G	3656	0.12	0.02	0.00	0.01	22.79
rs55708924	IgD+ CD38br %lymphocyte	ebi-a-GCST90001429	21	16767346	G	A	3656	-0.39	0.09	0.00	0.01	19.85
rs143109147	CD38dim %lymphocyte	ebi-a-GCST90001430	1	40387371	C	T	3656	2.96	0.58	0.00	0.01	25.63
rs55877424	CD38dim %lymphocyte	ebi-a-GCST90001430	2	12243809	A	G	3656	0.14	0.03	0.00	0.01	19.62
rs149290264	CD38dim %lymphocyte	ebi-a-GCST90001430	3	41659628	T	C	3656	0.63	0.14	0.00	0.01	19.78
rs182174914	CD38dim %lymphocyte	ebi-a-GCST90001430	3	80085882	A	T	3656	2.44	0.55	0.00	0.01	19.64
rs10933716	CD38dim %lymphocyte	ebi-a-GCST90001430	3	193840329	T	C	3656	-0.13	0.03	0.00	0.01	20.67
rs28399382	CD38dim %lymphocyte	ebi-a-GCST90001430	3	115393238	T	C	3656	0.14	0.03	0.00	0.01	20.98
rs28654727	CD38dim %lymphocyte	ebi-a-GCST90001430	4	61631854	A	C	3656	0.13	0.03	0.00	0.01	20.02
rs6831487	CD38dim %lymphocyte	ebi-a-GCST90001430	4	170331972	G	T	3656	0.12	0.02	0.00	0.01	22.29
rs75512885	CD38dim %lymphocyte	ebi-a-GCST90001430	5	158317602	A	T	3656	-0.21	0.05	0.00	0.01	20.77
rs1510971	CD38dim %lymphocyte	ebi-a-GCST90001430	5	118216796	A	T	3656	-0.20	0.04	0.00	0.01	20.78
rs12516105	CD38dim %lymphocyte	ebi-a-GCST90001430	5	160198880	C	T	3656	0.15	0.03	0.00	0.01	21.44

rs4361609	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	6	31240635	C	G	3656	-0.19	0.04	0.00	0.01	19.99
rs9459562	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	6	166502048	C	G	3656	0.11	0.02	0.00	0.01	20.20
rs34910780	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	7	77469688	T	A	3656	-0.25	0.06	0.00	0.01	20.17
rs62474511	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	7	123275484	T	A	3656	0.20	0.04	0.00	0.01	23.31
rs4716961	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	7	155224134	C	T	3656	-0.34	0.07	0.00	0.01	20.55
rs7840067	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	8	130582787	C	T	3656	-0.15	0.03	0.00	0.01	25.79
rs533239981	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	8	75515052	C	G	3656	0.30	0.06	0.00	0.01	22.37
rs60953943	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	8	60077245	A	G	3656	-0.42	0.09	0.00	0.01	22.74
rs76400856	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	10	56638876	C	A	3656	0.22	0.05	0.00	0.01	21.19
rs74151247	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	10	97801073	A	C	3656	0.35	0.07	0.00	0.01	23.83
rs75319860	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	12	110312229	C	T	3656	0.37	0.08	0.00	0.01	21.37
rs139695291	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	13	104519594	G	A	3656	1.58	0.35	0.00	0.01	20.32
rs75474045	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	13	72428296	A	G	3656	0.50	0.11	0.00	0.01	21.80
rs12874404	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	13	108993494	G	A	3656	0.14	0.03	0.00	0.01	27.23
rs116844769	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	14	65713895	A	G	3656	-0.23	0.05	0.00	0.01	22.30
rs16974449	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	16	84754964	A	C	3656	0.12	0.02	0.00	0.01	25.42
rs60521331	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	17	8639905	A	G	3656	0.12	0.02	0.00	0.01	24.88
rs11657531	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	17	2731370	T	C	3656	-0.12	0.02	0.00	0.01	24.23
rs2291516	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	19	11508177	A	G	3656	0.20	0.04	0.00	0.01	19.64
rs655580	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	19	53039110	A	G	3656	0.13	0.02	0.00	0.01	26.94
rs6131010	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	20	44724305	G	A	3656	-0.12	0.03	0.00	0.01	20.92
rs55708924	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	21	16767346	G	A	3656	-0.42	0.09	0.00	0.01	23.34
rs143518319	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	21	36295623	A	C	3656	-0.45	0.10	0.00	0.01	20.18
rs142838362	IgD+ CD38dim %lymphocyte	ebi-a-GCST90001430	21	47606966	T	C	3656	0.25	0.05	0.00	0.01	22.06
rs149701635	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	3	44741083	G	C	3656	-0.35	0.08	0.00	0.01	20.86

rs35088452	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	3	8847483	A	C	3656	-0.14	0.03	0.00	0.01	22.51
rs6895553	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	5	114821667	C	T	3656	-0.20	0.04	0.00	0.01	21.69
rs78009119	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	5	136421498	G	T	3656	-0.51	0.11	0.00	0.01	22.24
rs77055472	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	5	157655991	A	T	3656	-0.27	0.06	0.00	0.01	21.65
rs12197754	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	6	130521070	C	T	3656	-0.14	0.03	0.00	0.01	20.97
rs144625305	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	7	7871676	T	C	3656	0.61	0.14	0.00	0.01	20.26
rs12763172	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	10	85447519	C	T	3656	0.13	0.03	0.00	0.01	20.86
rs12146653	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	11	21411891	C	T	3656	0.19	0.04	0.00	0.01	21.02
rs12829274	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	12	129349167	G	A	3656	-0.25	0.05	0.00	0.01	23.43
rs3730631	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	12	69228178	C	T	3656	-0.18	0.04	0.00	0.01	23.00
rs12874404	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	13	108993494	G	A	3656	0.17	0.03	0.00	0.01	41.40
rs112782756	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	13	34506073	G	A	3656	3.09	0.68	0.00	0.01	20.46
rs2003291	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	13	21566923	T	C	3656	-0.16	0.04	0.00	0.01	19.80
rs77762131	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	14	96205838	C	G	3656	0.35	0.06	0.00	0.01	37.06
rs72706301	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	14	94852219	A	G	3656	0.45	0.09	0.00	0.01	22.67
rs149731447	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	14	52536948	T	C	3656	-0.96	0.22	0.00	0.01	19.90
rs10444793	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	15	44517689	A	G	3656	-0.43	0.09	0.00	0.01	21.95
rs28594458	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	17	2728777	G	C	3656	-0.11	0.02	0.00	0.01	22.02
rs62235484	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	21	41083050	A	G	3656	0.47	0.09	0.00	0.01	24.66
rs78007261	IgD+ CD38- %lymphocyte	ebi-a-GCST90001431	22	45666517	T	C	3656	-0.30	0.07	0.00	0.01	20.97
rs75766272	Unsw Mem %lymphocyte	ebi-a-GCST90001432	1	8009985	T	C	3656	-0.40	0.09	0.00	0.01	21.57
rs56326639	Unsw Mem %lymphocyte	ebi-a-GCST90001432	3	32512523	G	A	3656	0.15	0.03	0.00	0.01	20.45
rs6557137	Unsw Mem %lymphocyte	ebi-a-GCST90001432	6	150197022	T	C	3656	-0.15	0.03	0.00	0.01	21.50
rs144625305	Unsw Mem %lymphocyte	ebi-a-GCST90001432	7	7871676	T	C	3656	0.60	0.13	0.00	0.01	19.90
rs2956955	Unsw Mem %lymphocyte	ebi-a-GCST90001432	8	1552537	C	T	3656	-0.33	0.07	0.00	0.01	23.25
rs141247883	Unsw Mem %lymphocyte	ebi-a-GCST90001432	8	144986071	G	A	3656	-0.32	0.07	0.00	0.01	21.66
rs57757402	Unsw Mem %lymphocyte	ebi-a-GCST90001432	9	37390411	G	A	3656	-0.16	0.04	0.00	0.01	20.64
rs11794578	Unsw Mem %lymphocyte	ebi-a-GCST90001432	9	808529	G	T	3656	0.12	0.02	0.00	0.01	23.79
rs10119513	Unsw Mem %lymphocyte	ebi-a-GCST90001432	9	16899526	A	G	3656	0.36	0.08	0.00	0.01	19.57
rs10840410	Unsw Mem %lymphocyte	ebi-a-GCST90001432	11	10437096	C	T	3656	-0.12	0.03	0.00	0.01	20.00
rs10894530	Unsw Mem %lymphocyte	ebi-a-GCST90001432	11	132159459	A	C	3656	-0.16	0.04	0.00	0.01	19.76
rs143553941	Unsw Mem %lymphocyte	ebi-a-GCST90001432	12	109368119	C	G	3656	0.50	0.11	0.00	0.01	21.91
rs12829274	Unsw Mem %lymphocyte	ebi-a-GCST90001432	12	129349167	G	A	3656	-0.25	0.05	0.00	0.01	24.62
rs73192651	Unsw Mem %lymphocyte	ebi-a-GCST90001432	13	50212885	T	C	3656	0.55	0.09	0.00	0.01	38.34
rs12874404	Unsw Mem %lymphocyte	ebi-a-GCST90001432	13	108993494	G	A	3656	0.18	0.03	0.00	0.01	48.42
rs557577736	Unsw Mem %lymphocyte	ebi-a-GCST90001432	13	46224092	G	A	3656	1.80	0.38	0.00	0.01	21.96
rs77762131	Unsw Mem %lymphocyte	ebi-a-GCST90001432	14	96205838	C	G	3656	0.33	0.06	0.00	0.01	33.22

rs8014978	Unsw Mem %lymphocyte	ebi-a-GCST90001432	14	94936964	C	T	3656	-0.12	0.02	0.00	0.01	23.84
rs112135308	Unsw Mem %lymphocyte	ebi-a-GCST90001432	16	86794463	G	C	3656	0.42	0.09	0.00	0.01	22.17
rs11657759	Unsw Mem %lymphocyte	ebi-a-GCST90001432	17	2715961	C	A	3656	-0.13	0.02	0.00	0.01	28.17
rs7254039	Unsw Mem %lymphocyte	ebi-a-GCST90001432	19	14993354	A	G	3656	-0.27	0.06	0.00	0.01	21.74
rs6032660	Unsw Mem %lymphocyte	ebi-a-GCST90001432	20	44730245	A	G	3656	-0.15	0.03	0.00	0.01	33.63
rs76762356	Unsw Mem %lymphocyte	ebi-a-GCST90001432	20	10454080	G	A	3656	-0.37	0.08	0.00	0.01	20.01
rs55712190	Unsw Mem %lymphocyte	ebi-a-GCST90001432	22	22613458	T	C	3656	0.23	0.05	0.00	0.01	23.25
rs2789568	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	1	217179038	C	T	3656	-0.25	0.05	0.00	0.01	26.12
rs113442137	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	1	160254955	A	G	3656	-0.27	0.06	0.00	0.01	22.67
rs185621536	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	1	113524501	T	C	3656	-0.32	0.07	0.00	0.01	21.42
rs7606024	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	2	56616595	A	T	3656	-0.15	0.03	0.00	0.01	23.32
rs35574803	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	3	32533246	C	T	3656	-0.30	0.05	0.00	0.01	31.79
rs78756830	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	4	99437210	C	T	3656	0.42	0.09	0.00	0.01	23.28
rs12654363	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	5	84064142	T	C	3656	-0.22	0.05	0.00	0.01	21.68
rs191610741	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	6	4201348	T	C	3656	-0.37	0.08	0.00	0.01	20.94
rs807894	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	6	164610887	G	T	3656	0.11	0.03	0.00	0.01	20.20
rs1978170	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	7	38757409	G	A	3656	-0.11	0.03	0.00	0.01	19.66
rs78763642	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	9	25294308	A	G	3656	-0.34	0.07	0.00	0.01	21.34
rs2250246	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	12	6553016	G	A	3656	0.13	0.02	0.00	0.01	29.14
rs77114347	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	16	7452768	T	A	3656	-0.24	0.05	0.00	0.01	19.89
rs4941188	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	18	60857029	A	G	3656	-0.13	0.03	0.00	0.01	23.64
rs111407982	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	19	8814367	T	C	3656	-0.16	0.03	0.00	0.01	22.77
rs7260348	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	19	15011442	C	T	3656	-0.22	0.05	0.00	0.01	22.23
rs77126700	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	20	47313887	C	T	3656	0.37	0.08	0.00	0.01	21.21
rs4810485	IgD- CD27- %lymphocyte	ebi-a-GCST90001433	20	44747947	G	T	3656	0.32	0.03	0.00	0.04	146.09
rs7595246	Sw mem %lymphocyte	ebi-a-GCST90001434	2	238554657	C	T	3656	0.17	0.03	0.00	0.01	28.69
rs1519526	Sw mem %lymphocyte	ebi-a-GCST90001434	2	136967396	C	T	3656	0.17	0.03	0.00	0.01	27.91
rs7640978	Sw mem %lymphocyte	ebi-a-GCST90001434	3	32533010	T	C	3656	0.16	0.04	0.00	0.01	21.56
rs17029267	Sw mem %lymphocyte	ebi-a-GCST90001434	4	100572746	T	C	3656	0.32	0.07	0.00	0.01	20.09
rs62382785	Sw mem %lymphocyte	ebi-a-GCST90001434	5	165581566	A	G	3656	0.13	0.03	0.00	0.01	20.46
rs17405603	Sw mem %lymphocyte	ebi-a-GCST90001434	5	144608340	T	A	3656	-0.13	0.03	0.00	0.01	23.31
rs190799514	Sw mem %lymphocyte	ebi-a-GCST90001434	8	55620993	C	T	3656	0.37	0.08	0.00	0.01	22.47
rs7840395	Sw mem %lymphocyte	ebi-a-GCST90001434	8	144984956	G	A	3656	-0.14	0.03	0.00	0.01	32.60
rs814418	Sw mem %lymphocyte	ebi-a-GCST90001434	8	9936753	T	C	3656	0.20	0.04	0.00	0.01	19.62
rs118076634	Sw mem %lymphocyte	ebi-a-GCST90001434	11	94589940	T	C	3656	1.12	0.23	0.00	0.01	23.84
rs12426629	Sw mem %lymphocyte	ebi-a-GCST90001434	12	54797571	G	C	3656	-0.22	0.04	0.00	0.01	25.55
rs726449	Sw mem %lymphocyte	ebi-a-GCST90001434	13	109151489	T	C	3656	0.11	0.03	0.00	0.01	20.45

rs9520836	Sw mem %lymphocyte	ebi-a-GCST90001434	13	108957063	G	A	3656	0.16	0.02	0.00	0.01	39.93
rs11653761	Sw mem %lymphocyte	ebi-a-GCST90001434	17	2716535	T	G	3656	-0.15	0.02	0.00	0.01	35.86
rs145744014	Sw mem %lymphocyte	ebi-a-GCST90001434	18	61418402	T	C	3656	0.51	0.11	0.00	0.01	20.27
rs138728953	Sw mem %lymphocyte	ebi-a-GCST90001434	19	14698416	A	C	3656	0.31	0.07	0.00	0.01	19.81
rs117231919	Sw mem %lymphocyte	ebi-a-GCST90001434	19	652628	T	C	3656	0.17	0.04	0.00	0.01	20.26
rs377621503	Sw mem %lymphocyte	ebi-a-GCST90001434	19	645485	T	C	3656	-0.76	0.17	0.00	0.01	19.81
rs141365416	PB/PC %lymphocyte	ebi-a-GCST90001435	1	102236814	T	C	3657	2.33	0.50	0.00	0.01	22.01
rs148362575	PB/PC %lymphocyte	ebi-a-GCST90001435	2	187165335	T	A	3657	2.61	0.55	0.00	0.01	22.26
rs116540222	PB/PC %lymphocyte	ebi-a-GCST90001435	3	117331256	T	C	3657	1.76	0.37	0.00	0.01	21.93
rs7449190	PB/PC %lymphocyte	ebi-a-GCST90001435	5	1297918	C	T	3657	0.13	0.03	0.00	0.01	21.48
rs61294310	PB/PC %lymphocyte	ebi-a-GCST90001435	6	5266557	G	A	3657	0.52	0.11	0.00	0.01	23.03
rs13244540	PB/PC %lymphocyte	ebi-a-GCST90001435	7	151002534	T	G	3657	0.27	0.06	0.00	0.01	21.01
rs62519719	PB/PC %lymphocyte	ebi-a-GCST90001435	8	118376967	A	G	3657	-0.12	0.03	0.00	0.01	20.57
rs74326785	PB/PC %lymphocyte	ebi-a-GCST90001435	8	24549984	C	T	3657	0.35	0.07	0.00	0.01	22.10
rs3138500	PB/PC %lymphocyte	ebi-a-GCST90001435	9	92219945	T	C	3657	-0.23	0.05	0.00	0.01	22.13
rs12412378	PB/PC %lymphocyte	ebi-a-GCST90001435	10	130483163	A	C	3657	-0.18	0.03	0.00	0.01	28.68
rs1938685	PB/PC %lymphocyte	ebi-a-GCST90001435	11	69277078	A	G	3657	-0.16	0.04	0.00	0.01	19.71
rs897989	PB/PC %lymphocyte	ebi-a-GCST90001435	11	91973528	G	T	3657	-0.12	0.03	0.00	0.01	19.86
rs55728331	PB/PC %lymphocyte	ebi-a-GCST90001435	11	117526440	A	G	3657	1.62	0.35	0.00	0.01	21.94
rs10849436	PB/PC %lymphocyte	ebi-a-GCST90001435	12	6409619	A	G	3657	0.15	0.03	0.00	0.01	20.21
rs1838357	PB/PC %lymphocyte	ebi-a-GCST90001435	13	93740906	A	G	3657	0.12	0.03	0.00	0.01	19.56
rs4785074	PB/PC %lymphocyte	ebi-a-GCST90001435	16	59885737	T	C	3657	-0.14	0.03	0.00	0.01	29.97
rs7255292	PB/PC %lymphocyte	ebi-a-GCST90001435	19	49529379	C	T	3657	-0.16	0.04	0.00	0.01	20.91
rs8132059	PB/PC %lymphocyte	ebi-a-GCST90001435	21	16916284	T	C	3657	-0.13	0.03	0.00	0.01	20.23
rs11089305	PB/PC %lymphocyte	ebi-a-GCST90001435	22	19729361	G	A	3657	0.13	0.03	0.00	0.01	23.27
rs75414548	cell %lymphocyte Memory B	ebi-a-GCST90001436	1	39385714	A	G	3656	0.29	0.06	0.00	0.01	19.94
rs75766272	cell %lymphocyte Memory B	ebi-a-GCST90001436	1	8009985	T	C	3656	-0.40	0.09	0.00	0.01	21.59
rs878471	cell %lymphocyte Memory B	ebi-a-GCST90001436	1	150547747	A	G	3656	-0.11	0.03	0.00	0.01	20.32
rs12636848	cell %lymphocyte Memory B	ebi-a-GCST90001436	3	147613080	G	T	3656	0.12	0.03	0.00	0.01	21.87
rs143003356	cell %lymphocyte Memory B	ebi-a-GCST90001436	4	142016471	A	G	3656	-0.53	0.12	0.00	0.01	20.96
rs17708396	cell %lymphocyte Memory B	ebi-a-GCST90001436	5	148410250	A	C	3656	2.52	0.52	0.00	0.01	23.33
rs6895553	cell %lymphocyte Memory B	ebi-a-GCST90001436	5	114821667	C	T	3656	-0.19	0.04	0.00	0.01	20.02
rs1770731	cell %lymphocyte	ebi-a-GCST90001436	6	107001456	T	A	3656	-0.15	0.03	0.00	0.01	20.40

rs74505387	Memory B cell %lymphocyte	ebi-a-GCST90001436	6	101891742	C	T	3656	-0.20	0.04	0.00	0.01	26.29
rs410173	Memory B cell %lymphocyte	ebi-a-GCST90001436	6	1163541	G	A	3656	-0.14	0.03	0.00	0.01	20.14
rs144625305	Memory B cell %lymphocyte	ebi-a-GCST90001436	7	7871676	T	C	3656	0.61	0.13	0.00	0.01	20.77
rs6558507	Memory B cell %lymphocyte	ebi-a-GCST90001436	8	1626220	T	C	3656	-0.26	0.06	0.00	0.01	20.80
rs34173062	Memory B cell %lymphocyte	ebi-a-GCST90001436	8	145158607	A	G	3656	0.15	0.03	0.00	0.01	23.59
rs12763172	Memory B cell %lymphocyte	ebi-a-GCST90001436	10	85447519	C	T	3656	0.13	0.03	0.00	0.01	23.04
rs10791220	Memory B cell %lymphocyte	ebi-a-GCST90001436	11	132145598	G	A	3656	-0.18	0.04	0.00	0.01	21.19
rs11225155	Memory B cell %lymphocyte	ebi-a-GCST90001436	11	102043400	A	G	3656	0.11	0.02	0.00	0.01	20.59
rs74839056	Memory B cell %lymphocyte	ebi-a-GCST90001436	13	107914821	T	C	3656	1.36	0.31	0.00	0.01	19.76
rs557577736	Memory B cell %lymphocyte	ebi-a-GCST90001436	13	46224092	G	A	3656	1.80	0.39	0.00	0.01	21.81
rs12874404	Memory B cell %lymphocyte	ebi-a-GCST90001436	13	108993494	G	A	3656	0.22	0.03	0.00	0.02	71.82
rs9514859	Memory B cell %lymphocyte	ebi-a-GCST90001436	13	109144845	C	G	3656	0.11	0.02	0.00	0.01	20.57
rs73192651	Memory B cell %lymphocyte	ebi-a-GCST90001436	13	50212885	T	C	3656	0.44	0.09	0.00	0.01	25.17
rs77762131	Memory B cell %lymphocyte	ebi-a-GCST90001436	14	96205838	C	G	3656	0.30	0.06	0.00	0.01	28.23
rs974368	Memory B cell %lymphocyte	ebi-a-GCST90001436	14	63009549	A	G	3656	0.11	0.02	0.00	0.01	21.24
rs139196765	Memory B cell %lymphocyte	ebi-a-GCST90001436	15	24733764	G	A	3656	1.24	0.25	0.00	0.01	24.57
rs11653761	Memory B cell %lymphocyte	ebi-a-GCST90001436	17	2716535	T	G	3656	-0.14	0.02	0.00	0.01	30.73
rs7254039	Memory B cell %lymphocyte	ebi-a-GCST90001436	19	14993354	A	G	3656	-0.27	0.06	0.00	0.01	21.01
rs551529415	Memory B cell %lymphocyte	ebi-a-GCST90001436	19	1157330	T	C	3656	-0.58	0.12	0.00	0.01	21.50
rs3810559	Memory B cell %lymphocyte	ebi-a-GCST90001436	20	3207749	G	T	3656	-0.11	0.02	0.00	0.01	21.22
rs4640493	Memory B cell %lymphocyte	ebi-a-GCST90001436	22	45387786	T	A	3656	0.15	0.03	0.00	0.01	21.30
rs9614226	Naive-mature cell %lymphocyte	ebi-a-GCST90001436	22	44688150	G	T	3656	-0.38	0.09	0.00	0.01	19.79
rs11937214	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	4	162634026	G	A	3656	0.27	0.06	0.00	0.01	19.71
rs76845048	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	5	115785493	C	A	3656	-0.30	0.07	0.00	0.01	20.43

rs115204570	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	5	135756457	T	G	3656	-0.48	0.10	0.00	0.01	21.70
rs17056318	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	5	158285953	C	T	3656	-0.23	0.05	0.00	0.01	24.34
rs4361609	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	6	31240635	C	G	3656	-0.20	0.04	0.00	0.01	19.74
rs35607968	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	7	67653879	T	C	3656	0.16	0.03	0.00	0.01	22.00
rs111830700	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	7	121332400	A	G	3656	0.29	0.06	0.00	0.01	20.38
rs140197720	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	7	108191234	T	C	3656	0.46	0.10	0.00	0.01	20.92
rs2395904	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	8	130617819	G	T	3656	-0.15	0.03	0.00	0.01	29.42
rs4361743	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	8	132657435	C	T	3656	0.33	0.07	0.00	0.01	20.25
rs533239981	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	8	75515052	C	G	3656	0.33	0.06	0.00	0.01	26.69
rs2978582	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	8	35485504	C	T	3656	0.15	0.03	0.00	0.01	22.79
rs74151247	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	10	97801073	A	C	3656	0.33	0.07	0.00	0.01	21.14
rs56097028	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	11	43575416	C	G	3656	0.12	0.03	0.00	0.01	20.40
rs74397782	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	12	25018659	A	G	3656	-0.32	0.07	0.00	0.01	23.00
rs78433555	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	12	107821321	A	C	3656	0.28	0.06	0.00	0.01	23.32
rs116844769	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	14	65713895	A	G	3656	-0.23	0.05	0.00	0.01	21.36
rs112850074	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	14	103229069	G	A	3656	0.34	0.07	0.00	0.01	23.26
rs12939565	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	17	38038389	T	A	3656	-0.13	0.03	0.00	0.01	20.73
rs11653761	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	17	2716535	T	G	3656	-0.11	0.02	0.00	0.01	20.49
rs4805840	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	19	33468482	G	A	3656	-0.16	0.03	0.00	0.01	23.34
rs55658072	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	19	14873284	G	A	3656	0.11	0.03	0.00	0.01	19.63
rs7270264	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	20	42078615	C	T	3656	-0.11	0.03	0.00	0.01	20.58
rs55708924	Naive-mature B cell %lymphocyte	ebi-a-GCST90001437	21	16767346	G	A	3656	-0.40	0.09	0.00	0.01	19.93
rs77848220	IgD- CD38dim AC	ebi-a-GCST90001438	1	61251434	T	C	3656	0.41	0.08	0.00	0.01	24.19
rs7595246	IgD- CD38dim AC	ebi-a-GCST90001438	2	238554657	C	T	3656	0.14	0.03	0.00	0.01	21.27
rs115414430	IgD- CD38dim AC	ebi-a-GCST90001438	2	36720835	G	C	3656	0.34	0.07	0.00	0.01	21.70
rs1519524	IgD- CD38dim AC	ebi-a-GCST90001438	2	136934125	A	T	3656	0.14	0.03	0.00	0.01	23.76

rs141352577	IgD- CD38dim AC	ebi-a-GCST90001438	3	8492010	T	C	3656	0.37	0.08	0.00	0.01	22.70
rs73185679	IgD- CD38dim AC	ebi-a-GCST90001438	3	186485863	C	T	3656	0.17	0.04	0.00	0.01	19.63
rs7840395	IgD- CD38dim AC	ebi-a-GCST90001438	8	144984956	G	A	3656	-0.13	0.02	0.00	0.01	27.28
rs16925715	IgD- CD38dim AC	ebi-a-GCST90001438	10	53772842	C	T	3656	-0.13	0.03	0.00	0.01	23.13
rs149006488	IgD- CD38dim AC	ebi-a-GCST90001438	11	67523715	G	C	3656	-0.16	0.03	0.00	0.01	21.39
rs61910510	IgD- CD38dim AC	ebi-a-GCST90001438	11	130557122	T	C	3656	0.34	0.07	0.00	0.01	22.87
rs4936106	IgD- CD38dim AC	ebi-a-GCST90001438	11	130360402	G	C	3656	0.33	0.07	0.00	0.01	21.50
rs79407211	IgD- CD38dim AC	ebi-a-GCST90001438	13	109119262	T	C	3656	-0.19	0.04	0.00	0.01	20.20
rs73178168	IgD- CD38dim AC	ebi-a-GCST90001438	13	47809629	T	C	3656	0.16	0.03	0.00	0.01	23.60
rs192544457	IgD- CD38dim AC	ebi-a-GCST90001438	13	42337460	A	G	3656	0.85	0.16	0.00	0.01	29.50
rs9520836	IgD- CD38dim AC	ebi-a-GCST90001438	13	108957063	G	A	3656	0.11	0.02	0.00	0.01	21.76
rs60035843	IgD- CD38dim AC	ebi-a-GCST90001438	15	69123222	G	A	3656	0.13	0.03	0.00	0.01	20.08
rs11653761	IgD- CD38dim AC	ebi-a-GCST90001438	17	2716535	T	G	3656	-0.11	0.02	0.00	0.01	21.71
rs117605782	IgD- CD38dim AC	ebi-a-GCST90001438	18	46442174	A	G	3656	0.89	0.20	0.00	0.01	20.11
rs533086	IgD- CD38dim AC	ebi-a-GCST90001438	19	16411841	G	A	3656	-0.12	0.03	0.00	0.01	20.71
rs78893742	IgD- CD38dim AC	ebi-a-GCST90001438	20	36100011	A	G	3656	0.61	0.13	0.00	0.01	21.58
rs61788860	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	1	60020239	A	G	3656	-0.26	0.06	0.00	0.01	20.27
rs75766272	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	1	8009985	T	C	3656	-0.41	0.09	0.00	0.01	22.84
rs2015983	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	2	237150166	C	A	3656	-0.17	0.04	0.00	0.01	22.77
rs6781675	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	3	4408435	C	G	3656	0.36	0.08	0.00	0.01	20.33
rs1382818	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	6	153645785	A	G	3656	0.11	0.03	0.00	0.01	20.21
rs4937689	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	11	132141201	G	A	3656	-0.17	0.04	0.00	0.01	19.69
rs183466766	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	13	108710731	A	G	3656	0.30	0.06	0.00	0.01	24.23
rs12874404	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	13	108993494	G	A	3656	0.23	0.03	0.00	0.02	78.66
rs141107540	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	13	109038407	T	C	3656	0.21	0.05	0.00	0.01	20.31
rs73192651	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	13	50212885	T	C	3656	0.48	0.09	0.00	0.01	29.45
rs77762131	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	14	96205838	C	G	3656	0.31	0.06	0.00	0.01	28.79
rs8014978	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	14	94936964	C	T	3656	-0.11	0.02	0.00	0.01	19.65
rs11657118	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	17	2714118	C	T	3656	-0.14	0.02	0.00	0.01	34.92
rs7254039	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	19	14993354	A	G	3656	-0.26	0.06	0.00	0.01	20.42
rs3810559	IgD+ CD24+ %lymphocyte	ebi-a-GCST90001439	20	3207749	G	T	3656	-0.11	0.02	0.00	0.01	20.09
rs6687573	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	1	35281308	A	C	3656	0.13	0.03	0.00	0.01	20.66
rs55756125	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	1	59740965	C	T	3656	0.14	0.03	0.00	0.01	22.45
rs111237501	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	1	163272701	C	T	3656	1.00	0.23	0.00	0.01	19.65
rs11674994	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	2	60125363	C	T	3656	0.25	0.06	0.00	0.01	19.91
rs72990172	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	2	238526279	A	G	3656	0.16	0.03	0.00	0.01	22.71
rs76225955	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	4	31594004	C	T	3656	-0.19	0.04	0.00	0.01	19.71

rs17044633	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	4	113331648	G	A	3656	0.34	0.08	0.00	0.01	20.39
rs183821560	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	5	62072324	A	G	3656	-1.77	0.39	0.00	0.01	20.23
rs807894	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	6	164610887	G	T	3656	0.12	0.03	0.00	0.01	21.90
rs9398107	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	6	107155687	G	A	3656	0.27	0.06	0.00	0.01	23.40
rs75464772	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	6	19788226	T	C	3656	-0.33	0.07	0.00	0.01	21.34
rs6991364	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	8	145050345	A	G	3656	-0.12	0.03	0.00	0.01	20.80
rs146221269	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	11	94920856	C	T	3656	-1.07	0.24	0.00	0.01	20.35
rs73277142	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	12	11974332	T	C	3656	0.27	0.06	0.00	0.01	23.12
rs11066272	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	12	112802224	T	A	3656	-0.12	0.03	0.00	0.01	19.74
rs139509958	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	12	54727027	A	G	3656	-0.22	0.05	0.00	0.01	20.67
rs191543445	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	14	31505138	G	A	3656	0.33	0.07	0.00	0.01	20.23
rs17102161	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	14	65283958	A	G	3656	0.26	0.06	0.00	0.01	20.44
rs496760	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	15	54695686	A	G	3656	0.12	0.03	0.00	0.01	19.95
rs75150138	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	16	49238584	A	T	3656	-0.26	0.06	0.00	0.01	21.28
rs11862268	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	16	81239867	A	G	3656	0.43	0.09	0.00	0.01	22.26
rs58904842	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	16	3463156	A	C	3656	-0.12	0.02	0.00	0.01	22.06
rs30146	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	16	14342183	C	T	3656	-0.42	0.09	0.00	0.01	21.68
rs8098848	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	18	60857793	T	C	3656	-0.13	0.03	0.00	0.01	22.43
rs451367	IgD- CD24- %lymphocyte	ebi-a-GCST90001440	19	16412842	C	T	3656	-0.13	0.03	0.00	0.01	19.67
rs16837671	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	2	206655953	G	T	3656	-0.26	0.06	0.00	0.01	21.35
rs520786	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	3	187559064	A	T	3656	-0.11	0.03	0.00	0.01	19.65
rs34712193	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	3	1814140	T	A	3656	0.16	0.03	0.00	0.01	23.29
rs17056318	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	5	158285953	C	T	3656	-0.20	0.05	0.00	0.01	19.96
rs76845048	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	5	115785493	C	A	3656	-0.30	0.07	0.00	0.01	20.24
rs115204570	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	5	135756457	T	G	3656	-0.46	0.10	0.00	0.01	20.85
rs140523784	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	6	16887609	T	C	3656	0.14	0.03	0.00	0.01	21.05
rs9354413	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	6	67039330	C	T	3656	0.13	0.03	0.00	0.01	21.62
rs4361609	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	6	31240635	C	G	3656	-0.22	0.04	0.00	0.01	25.99
rs111830700	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	7	121332400	A	G	3656	0.29	0.06	0.00	0.01	21.39
rs34910780	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	7	77469688	T	A	3656	-0.28	0.06	0.00	0.01	24.67
rs12542190	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	8	130594761	C	A	3656	-0.16	0.03	0.00	0.01	26.53
rs2978582	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	8	35485504	C	T	3656	0.14	0.03	0.00	0.01	20.42
rs533239981	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	8	75515052	C	G	3656	0.34	0.06	0.00	0.01	28.87
rs71483382	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	10	83763586	A	G	3656	0.63	0.14	0.00	0.01	20.25
rs75319860	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	12	110312229	C	T	3656	0.35	0.08	0.00	0.01	19.84
rs76578043	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	13	105214810	A	G	3656	0.33	0.07	0.00	0.01	21.94
rs2994690	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	14	95363646	C	G	3656	0.13	0.03	0.00	0.01	21.65

rs116844769	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	14	65713895	A	G	3656	-0.23	0.05	0.00	0.01	21.70
rs9900847	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	17	2717218	C	T	3656	-0.11	0.02	0.00	0.01	21.30
rs12939565	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	17	38038389	T	A	3656	-0.13	0.03	0.00	0.01	22.78
rs73426855	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	17	77637123	C	T	3656	-0.15	0.03	0.00	0.01	20.32
rs4805840	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	19	33468482	G	A	3656	-0.15	0.03	0.00	0.01	21.97
rs6131010	IgD+ CD24- %lymphocyte	ebi-a-GCST90001441	20	44724305	G	A	3656	-0.13	0.03	0.00	0.01	24.79
rs75766272	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	1	8009985	T	C	3656	-0.43	0.09	0.00	0.01	25.07
rs76720471	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	2	222274805	T	C	3656	1.56	0.34	0.00	0.01	20.73
rs1519524	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	2	136934125	A	T	3656	0.13	0.03	0.00	0.01	20.18
rs112542522	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	2	4031340	A	G	3656	0.61	0.13	0.00	0.01	21.45
rs12636848	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	3	147613080	G	T	3656	0.12	0.03	0.00	0.01	21.84
rs4689417	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	4	4392393	A	C	3656	-0.12	0.03	0.00	0.01	21.58
rs17708396	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	5	148410250	A	C	3656	2.52	0.52	0.00	0.01	23.46
rs35057381	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	5	26412301	C	T	3656	0.13	0.03	0.00	0.01	20.02
rs4076316	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	6	167859623	A	T	3656	-0.13	0.03	0.00	0.01	22.71
rs74505387	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	6	101891742	C	T	3656	-0.18	0.04	0.00	0.01	21.60
rs144625305	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	7	7871676	T	C	3656	0.63	0.13	0.00	0.01	21.91
rs6997704	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	8	140978857	G	A	3656	0.11	0.02	0.00	0.01	22.30
rs1332199	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	9	9503477	C	T	3656	-0.13	0.03	0.00	0.01	20.72
rs144440894	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	10	53795073	A	G	3656	-0.14	0.03	0.00	0.01	20.65
rs6486433	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	11	9594690	G	T	3656	-0.11	0.02	0.00	0.01	19.99
rs4763704	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	12	11698759	A	G	3656	0.38	0.08	0.00	0.01	22.07
rs12829274	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	12	129349167	G	A	3656	-0.27	0.05	0.00	0.01	28.06
rs12874404	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	13	108993494	G	A	3656	0.21	0.03	0.00	0.02	65.37
rs557577736	CD27+ %lymphocyte CD24+	ebi-a-GCST90001442	13	46224092	G	A	3656	1.81	0.38	0.00	0.01	22.33
rs73192651	CD27+ %lymphocyte	ebi-a-GCST90001442	13	50212885	T	C	3656	0.51	0.09	0.00	0.01	33.23

rs112782756	CD24+ CD27+ %lymphocyte	ebi-a-GCST90001442	13	34506073	G	A	3656	2.99	0.67	0.00	0.01	19.75
rs9578529	CD24+ CD27+ %lymphocyte	ebi-a-GCST90001442	13	23613190	G	A	3656	-0.13	0.03	0.00	0.01	22.25
rs77762131	CD24+ CD27+ %lymphocyte	ebi-a-GCST90001442	14	96205838	C	G	3656	0.31	0.06	0.00	0.01	28.90
rs11657759	CD24+ CD27+ %lymphocyte	ebi-a-GCST90001442	17	2715961	C	A	3656	-0.14	0.02	0.00	0.01	31.80
rs7254039	CD24+ CD27+ %lymphocyte	ebi-a-GCST90001442	19	14993354	A	G	3656	-0.27	0.06	0.00	0.01	22.30
rs6712095	CD20- %lymphocyte	ebi-a-GCST90001443	2	205623497	T	G	3657	0.36	0.08	0.00	0.01	21.01
rs34625183	CD20- %lymphocyte	ebi-a-GCST90001443	3	146097919	T	C	3657	-0.17	0.04	0.00	0.01	20.00
rs75951284	CD20- %lymphocyte	ebi-a-GCST90001443	3	187638796	T	C	3657	0.31	0.07	0.00	0.01	20.50
rs186229706	CD20- %lymphocyte	ebi-a-GCST90001443	4	2029089	T	G	3657	0.48	0.10	0.00	0.01	21.32
rs4647601	CD20- %lymphocyte	ebi-a-GCST90001443	4	185570032	A	C	3657	0.11	0.02	0.00	0.01	20.02
rs72791978	CD20- %lymphocyte	ebi-a-GCST90001443	5	108070072	T	A	3657	0.56	0.13	0.00	0.01	20.02
rs9273241	CD20- %lymphocyte	ebi-a-GCST90001443	6	32614025	T	C	3657	0.18	0.03	0.00	0.01	27.54
rs7773849	CD20- %lymphocyte	ebi-a-GCST90001443	6	128553518	G	A	3657	1.53	0.28	0.00	0.01	29.55
rs13244540	CD20- %lymphocyte	ebi-a-GCST90001443	7	151002534	T	G	3657	0.27	0.06	0.00	0.01	20.42
rs38201	CD20- %lymphocyte	ebi-a-GCST90001443	7	15911408	A	T	3657	-0.12	0.03	0.00	0.01	19.75
rs34313582	CD20- %lymphocyte	ebi-a-GCST90001443	8	84919811	A	C	3657	-0.16	0.04	0.00	0.01	20.75
rs72825207	CD20- %lymphocyte	ebi-a-GCST90001443	10	62909955	A	T	3657	0.51	0.11	0.00	0.01	23.37
rs147937648	CD20- %lymphocyte	ebi-a-GCST90001443	12	82008771	T	C	3657	-0.74	0.16	0.00	0.01	21.86
rs77553819	CD20- %lymphocyte	ebi-a-GCST90001443	13	24882401	C	G	3657	-0.13	0.03	0.00	0.01	21.86
rs12432015	CD20- %lymphocyte	ebi-a-GCST90001443	14	49052782	C	T	3657	-0.17	0.04	0.00	0.01	21.05
rs4244568	CD20- %lymphocyte	ebi-a-GCST90001443	15	39319915	G	T	3657	-0.12	0.03	0.00	0.01	22.69
rs252294	CD20- %lymphocyte	ebi-a-GCST90001443	16	29235533	C	G	3657	0.11	0.02	0.00	0.01	19.90
rs4782702	CD20- %lymphocyte	ebi-a-GCST90001443	16	85477299	G	A	3657	0.41	0.09	0.00	0.01	21.78
rs11662133	CD20- %lymphocyte	ebi-a-GCST90001443	18	74434633	C	T	3657	0.15	0.03	0.00	0.01	20.36
rs186355283	CD20- %lymphocyte	ebi-a-GCST90001443	20	46615708	T	C	3657	0.63	0.14	0.00	0.01	19.92
rs6052993	CD20- %lymphocyte	ebi-a-GCST90001443	20	4944838	G	C	3657	-0.11	0.02	0.00	0.01	21.18
rs75839951	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	2	34491589	G	T	3658	-0.25	0.05	0.00	0.01	22.32
rs4619804	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	3	18674644	C	A	3658	0.12	0.03	0.00	0.01	19.80
rs709082	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	3	191447446	C	A	3658	0.11	0.03	0.00	0.01	20.53
rs2215848	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	4	25065221	A	G	3658	0.50	0.11	0.00	0.01	20.14
rs182720746	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	4	113092883	T	C	3658	0.63	0.13	0.00	0.01	22.76
rs62311900	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	4	74145187	T	C	3658	-0.14	0.03	0.00	0.01	19.66
rs2339996	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	5	173070505	A	G	3658	-0.15	0.03	0.00	0.01	26.27
rs72492305	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	6	32509333	T	C	3658	0.20	0.04	0.00	0.01	23.61

rs6906886	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	6	85038851	A	T	3658	0.18	0.04	0.00	0.01	19.87
rs10279688	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	7	9851008	T	C	3658	0.50	0.11	0.00	0.01	20.35
rs11203884	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	8	17516564	T	C	3658	-0.15	0.03	0.00	0.01	20.27
rs118073973	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	9	19948908	A	T	3658	0.29	0.06	0.00	0.01	22.46
rs55767134	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	10	17048435	C	G	3658	-0.14	0.03	0.00	0.01	21.22
rs308820	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	11	88142031	C	T	3658	-0.13	0.03	0.00	0.01	19.75
rs34666228	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	11	123385425	T	G	3658	0.15	0.03	0.00	0.01	28.79
rs78301150	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	12	82233392	A	G	3658	-1.03	0.22	0.00	0.01	21.40
rs117308259	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	14	31993501	C	T	3658	-0.76	0.15	0.00	0.01	25.78
rs35639639	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	16	5488091	C	T	3658	0.14	0.03	0.00	0.01	20.33
rs111737298	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	17	52847291	G	A	3658	0.23	0.05	0.00	0.01	20.24
rs16955339	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	17	52971060	T	G	3658	0.31	0.06	0.00	0.01	24.32
rs77510701	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	18	34838106	A	C	3658	-0.26	0.06	0.00	0.01	21.35
rs80339814	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	19	53396009	C	T	3658	-0.23	0.05	0.00	0.01	22.59
rs6125184	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	20	46576714	A	G	3658	-0.12	0.02	0.00	0.01	22.16
rs59902361	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	20	38334734	A	G	3658	-0.25	0.06	0.00	0.01	20.69
rs36071180	CD20- CD38- %lymphocyte	ebi-a-GCST90001444	20	765164	A	G	3658	0.16	0.03	0.00	0.01	21.77
rs61790670	IgD- CD38- %B cell	ebi-a-GCST90001445	1	84127219	A	C	3657	0.13	0.03	0.00	0.01	20.13
rs115576360	IgD- CD38- %B cell	ebi-a-GCST90001445	4	156996644	A	G	3657	-0.41	0.09	0.00	0.01	19.99
rs4691920	IgD- CD38- %B cell	ebi-a-GCST90001445	4	164351901	C	G	3657	-0.98	0.21	0.00	0.01	22.21
rs7726548	IgD- CD38- %B cell	ebi-a-GCST90001445	5	116807553	G	T	3657	-0.19	0.04	0.00	0.01	22.12
rs17405603	IgD- CD38- %B cell	ebi-a-GCST90001445	5	144608340	T	A	3657	-0.14	0.03	0.00	0.01	26.06
rs62417843	IgD- CD38- %B cell	ebi-a-GCST90001445	6	91779902	C	T	3657	-0.26	0.06	0.00	0.01	21.99
rs9265864	IgD- CD38- %B cell	ebi-a-GCST90001445	6	31312747	T	C	3657	-0.14	0.03	0.00	0.01	21.34
rs2450220	IgD- CD38- %B cell	ebi-a-GCST90001445	8	119323401	T	C	3657	0.17	0.03	0.00	0.01	27.55
rs140191306	IgD- CD38- %B cell	ebi-a-GCST90001445	9	2570753	T	C	3657	-0.45	0.09	0.00	0.01	22.57
rs138977782	IgD- CD38- %B cell	ebi-a-GCST90001445	9	4744416	G	A	3657	-0.55	0.12	0.00	0.01	19.82
rs11068290	IgD- CD38- %B cell	ebi-a-GCST90001445	12	110228055	T	C	3657	-0.37	0.08	0.00	0.01	21.22
rs7994585	IgD- CD38- %B cell	ebi-a-GCST90001445	13	111083495	C	G	3657	-0.11	0.02	0.00	0.01	20.92
rs7215243	IgD- CD38- %B cell	ebi-a-GCST90001445	17	78261805	G	A	3657	0.17	0.04	0.00	0.01	22.89
rs77146037	IgD- CD38- AC	ebi-a-GCST90001446	1	178195174	G	A	3656	-0.27	0.06	0.00	0.01	20.96
rs61790670	IgD- CD38- AC	ebi-a-GCST90001446	1	84127219	A	C	3656	0.14	0.03	0.00	0.01	23.32
rs114551034	IgD- CD38- AC	ebi-a-GCST90001446	2	66709035	A	G	3656	-0.29	0.06	0.00	0.01	25.73
rs115218350	IgD- CD38- AC	ebi-a-GCST90001446	3	104146883	A	T	3656	-1.90	0.41	0.00	0.01	21.63
rs112964950	IgD- CD38- AC	ebi-a-GCST90001446	3	73697496	C	G	3656	0.60	0.14	0.00	0.01	19.65
rs75524570	IgD- CD38- AC	ebi-a-GCST90001446	3	191905058	C	T	3656	0.22	0.05	0.00	0.01	19.79
rs56741207	IgD- CD38- AC	ebi-a-GCST90001446	4	134733663	G	C	3656	-1.45	0.29	0.00	0.01	24.69

rs4697617	IgD- CD38- AC	ebi-a-GCST90001446	4	25771115	A	G	3656	0.14	0.03	0.00	0.01	26.09
rs144625305	IgD- CD38- AC	ebi-a-GCST90001446	7	7871676	T	C	3656	0.61	0.14	0.00	0.01	19.78
rs62521107	IgD- CD38- AC	ebi-a-GCST90001446	8	118851954	T	C	3656	-0.27	0.05	0.00	0.01	24.21
rs118121266	IgD- CD38- AC	ebi-a-GCST90001446	10	20380753	T	C	3656	0.76	0.17	0.00	0.01	20.53
rs79416092	IgD- CD38- AC	ebi-a-GCST90001446	12	6775503	C	T	3656	-0.42	0.09	0.00	0.01	20.42
rs421516	IgD- CD38- AC	ebi-a-GCST90001446	17	63135589	A	C	3656	-0.31	0.06	0.00	0.01	24.28
rs77741094	IgD- CD38- AC	ebi-a-GCST90001446	21	42362418	G	C	3656	-0.63	0.11	0.00	0.01	30.72
rs144295598	IgD- CD38- AC	ebi-a-GCST90001446	22	45164171	A	G	3656	0.57	0.12	0.00	0.01	21.43
rs74907325	IgD+ CD38br %B cell	ebi-a-GCST90001447	1	218429679	T	A	3657	0.23	0.05	0.00	0.01	22.88
rs76084861	IgD+ CD38br %B cell	ebi-a-GCST90001447	2	16114539	T	G	3657	0.27	0.06	0.00	0.01	19.68
rs16867231	IgD+ CD38br %B cell	ebi-a-GCST90001447	2	181050023	A	G	3657	-0.55	0.11	0.00	0.01	23.09
rs140380950	IgD+ CD38br %B cell	ebi-a-GCST90001447	2	105587803	C	T	3657	-0.34	0.06	0.00	0.01	28.62
rs76112278	IgD+ CD38br %B cell	ebi-a-GCST90001447	4	15915069	A	G	3657	-0.41	0.09	0.00	0.01	22.41
rs28393044	IgD+ CD38br %B cell	ebi-a-GCST90001447	4	157437839	G	C	3657	0.31	0.07	0.00	0.01	21.21
rs78658073	IgD+ CD38br %B cell	ebi-a-GCST90001447	5	498773	A	G	3657	1.71	0.37	0.00	0.01	21.23
rs139996875	IgD+ CD38br %B cell	ebi-a-GCST90001447	5	78010341	T	A	3657	0.67	0.15	0.00	0.01	21.00
rs13196511	IgD+ CD38br %B cell	ebi-a-GCST90001447	6	44643196	A	G	3657	-0.21	0.04	0.00	0.01	24.77
rs117772462	IgD+ CD38br %B cell	ebi-a-GCST90001447	7	48791017	A	T	3657	-0.43	0.10	0.00	0.01	19.92
rs17739715	IgD+ CD38br %B cell	ebi-a-GCST90001447	8	9957457	C	A	3657	0.87	0.20	0.00	0.01	19.66
rs17771512	IgD+ CD38br %B cell	ebi-a-GCST90001447	8	120047880	A	C	3657	-0.19	0.04	0.00	0.01	20.38
rs57998613	IgD+ CD38br %B cell	ebi-a-GCST90001447	9	93109339	A	T	3657	0.43	0.10	0.00	0.01	20.40
rs28491938	IgD+ CD38br %B cell	ebi-a-GCST90001447	9	41980474	T	C	3657	0.18	0.04	0.00	0.01	19.78
rs11002952	IgD+ CD38br %B cell	ebi-a-GCST90001447	10	81145177	A	G	3657	-1.17	0.26	0.00	0.01	20.38
rs2362966	IgD+ CD38br %B cell	ebi-a-GCST90001447	10	125560687	C	G	3657	-0.26	0.05	0.00	0.01	23.75
rs35060907	IgD+ CD38br %B cell	ebi-a-GCST90001447	10	132636158	T	G	3657	-0.20	0.04	0.00	0.01	23.53
rs61880664	IgD+ CD38br %B cell	ebi-a-GCST90001447	11	15343532	G	A	3657	0.16	0.04	0.00	0.01	19.89
rs11068290	IgD+ CD38br %B cell	ebi-a-GCST90001447	12	110228055	T	C	3657	0.36	0.08	0.00	0.01	20.21
rs59879144	IgD+ CD38br %B cell	ebi-a-GCST90001447	12	75564449	A	C	3657	-0.47	0.10	0.00	0.01	23.35
rs4903967	IgD+ CD38br %B cell	ebi-a-GCST90001447	14	81485149	A	G	3657	-0.14	0.03	0.00	0.01	25.04
rs17278914	IgD+ CD38br %B cell	ebi-a-GCST90001447	14	44595691	C	T	3657	-0.68	0.15	0.00	0.01	19.85
rs76840770	IgD+ CD38br %B cell	ebi-a-GCST90001447	14	54814017	A	C	3657	0.35	0.08	0.00	0.01	20.73
rs79487320	IgD+ CD38br %B cell	ebi-a-GCST90001447	14	43717096	G	C	3657	-0.69	0.14	0.00	0.01	24.23
rs147226531	IgD+ CD38br %B cell	ebi-a-GCST90001447	16	54686774	C	T	3657	0.52	0.12	0.00	0.01	20.20
rs2216762	IgD+ CD38br %B cell	ebi-a-GCST90001447	16	84759446	C	T	3657	-0.15	0.03	0.00	0.01	22.41
rs8059803	IgD+ CD38br %B cell	ebi-a-GCST90001447	16	81603001	A	G	3657	-0.12	0.03	0.00	0.01	22.40
rs72927038	IgD+ CD38br %B cell	ebi-a-GCST90001447	18	51760939	T	C	3657	-0.33	0.07	0.00	0.01	23.59
rs114693598	CD11c+ monocyte AC	ebi-a-GCST90001448	1	161500712	T	G	3020	-0.18	0.04	0.00	0.01	21.31

rs2404849	CD11c+ monocyte AC	ebi-a-GCST90001448	1	224272792	G	T	3020	0.16	0.03	0.00	0.01	26.37
rs72724781	CD11c+ monocyte AC	ebi-a-GCST90001448	1	89327063	G	A	3020	0.96	0.20	0.00	0.01	22.71
rs3040901	CD11c+ monocyte AC	ebi-a-GCST90001448	2	79926958	T	C	3020	-0.16	0.03	0.00	0.01	21.33
rs74610143	CD11c+ monocyte AC	ebi-a-GCST90001448	3	172744541	T	C	3020	0.56	0.12	0.00	0.01	20.06
rs13104041	CD11c+ monocyte AC	ebi-a-GCST90001448	4	173569449	A	G	3020	0.70	0.16	0.00	0.01	19.77
rs72835655	CD11c+ monocyte AC	ebi-a-GCST90001448	5	167349999	T	G	3020	0.25	0.06	0.00	0.01	19.76
rs2295270	CD11c+ monocyte AC	ebi-a-GCST90001448	6	47216562	A	G	3020	0.15	0.03	0.00	0.01	19.64
rs151194174	CD11c+ monocyte AC	ebi-a-GCST90001448	7	20995778	A	G	3020	-0.35	0.08	0.00	0.01	20.58
rs2587473	CD11c+ monocyte AC	ebi-a-GCST90001448	10	72515785	T	C	3020	-0.14	0.03	0.00	0.01	21.10
rs72830905	CD11c+ monocyte AC	ebi-a-GCST90001448	10	85138481	G	C	3020	0.81	0.18	0.00	0.01	20.64
rs34936922	CD11c+ monocyte AC	ebi-a-GCST90001448	12	115758242	G	T	3020	-0.13	0.03	0.00	0.01	19.60
rs113800324	CD11c+ monocyte AC	ebi-a-GCST90001448	12	69766606	T	C	3020	0.27	0.06	0.00	0.01	19.98
rs9894233	CD11c+ monocyte AC	ebi-a-GCST90001448	17	45778747	A	T	3020	-0.40	0.09	0.00	0.01	21.65
rs113451095	CD11c+ monocyte AC	ebi-a-GCST90001448	17	9975038	C	T	3020	-0.30	0.06	0.00	0.01	22.52
rs73445777	CD11c+ monocyte AC	ebi-a-GCST90001448	18	46954097	G	T	3020	-0.48	0.11	0.00	0.01	20.58
rs8175830	CD11c+ monocyte AC	ebi-a-GCST90001448	19	27851156	A	G	3020	-0.23	0.05	0.00	0.01	19.84
rs150248455	CD11c+ monocyte AC	ebi-a-GCST90001448	21	46373171	A	G	3020	0.25	0.05	0.00	0.01	23.09
rs191730825	monocyte %monocvte CD11c+	ebi-a-GCST90001449	1	46613239	G	A	3043	0.43	0.08	0.00	0.01	29.19
rs115058278	monocyte %monocyte CD11c+	ebi-a-GCST90001449	3	101915678	A	T	3043	0.48	0.10	0.00	0.01	21.83
rs74610143	monocyte %monocvte CD11c+	ebi-a-GCST90001449	3	172744541	T	C	3043	0.64	0.12	0.00	0.01	26.13
rs11921245	monocyte %monocvte CD11c+	ebi-a-GCST90001449	3	65576520	C	T	3043	0.17	0.04	0.00	0.01	19.86
rs35237330	monocyte %monocvte CD11c+	ebi-a-GCST90001449	4	182768743	A	G	3043	-0.21	0.04	0.00	0.01	22.91
rs13186506	monocyte %monocvte CD11c+	ebi-a-GCST90001449	5	59111915	T	A	3043	-0.19	0.04	0.00	0.01	20.25
rs75256410	monocyte %monocvte CD11c+	ebi-a-GCST90001449	5	176914227	T	C	3043	0.55	0.12	0.00	0.01	20.54
rs13241407	monocyte %monocvte CD11c+	ebi-a-GCST90001449	7	153684820	G	A	3043	-0.28	0.06	0.00	0.01	20.91
rs11766273	monocyte %monocvte CD11c+	ebi-a-GCST90001449	7	22775663	A	G	3043	0.59	0.13	0.00	0.01	21.20
rs10227905	monocyte %monocvte CD11c+	ebi-a-GCST90001449	7	122075261	G	T	3043	0.12	0.03	0.00	0.01	20.05
rs73073066	monocyte %monocvte CD11c+	ebi-a-GCST90001449	7	23486970	T	C	3043	0.41	0.09	0.00	0.01	22.33
rs17689291	monocyte %monocvte CD11c+	ebi-a-GCST90001449	8	94037230	C	G	3043	-0.58	0.13	0.00	0.01	19.70
rs4922033	monocyte %monocvte	ebi-a-GCST90001449	8	19326303	T	C	3043	0.12	0.03	0.00	0.01	20.19

rs703009	CD11c+ monocyte %monocvte	ebi-a-GCST90001449	10	26889823	T	C	3043	-0.16	0.04	0.00	0.01	20.33
rs11610005	CD11c+ monocyte %monocvte	ebi-a-GCST90001449	12	27966210	G	C	3043	-0.12	0.03	0.00	0.01	21.11
rs57566659	CD11c+ monocyte %monocvte	ebi-a-GCST90001449	12	42973243	C	G	3043	0.32	0.06	0.00	0.01	25.49
rs76968110	CD11c+ monocyte %monocvte	ebi-a-GCST90001449	14	31160823	A	G	3043	-0.48	0.10	0.00	0.01	24.75
rs117909439	CD11c+ monocyte %monocvte	ebi-a-GCST90001449	14	29918210	T	C	3043	-0.68	0.14	0.00	0.01	22.85
rs62002392	CD11c+ monocyte %monocvte	ebi-a-GCST90001449	15	37200279	G	A	3043	0.19	0.04	0.00	0.01	20.72
rs16952634	CD11c+ monocyte %monocvte	ebi-a-GCST90001449	16	53934556	A	G	3043	-0.19	0.04	0.00	0.01	19.63
rs8065103	CD11c+ monocyte %monocvte	ebi-a-GCST90001449	17	45062476	G	A	3043	0.15	0.03	0.00	0.01	24.43
rs1381984	CD11c+ monocyte %monocvte	ebi-a-GCST90001449	20	52655304	A	G	3043	-0.16	0.03	0.00	0.01	20.20
rs35149557	CD11c+ monocyte %monocvte	ebi-a-GCST90001449	20	5421681	C	T	3043	0.16	0.03	0.00	0.01	22.87
rs4656708	CD62L- monocyte AC	ebi-a-GCST90001450	1	169701466	C	A	3019	-0.37	0.06	0.00	0.01	32.61
rs4987369	CD62L- monocyte AC	ebi-a-GCST90001450	1	169662742	T	G	3019	0.24	0.03	0.00	0.02	62.54
rs62167331	CD62L- monocyte AC	ebi-a-GCST90001450	2	56524393	A	G	3019	-0.35	0.07	0.00	0.01	21.60
rs13068785	CD62L- monocyte AC	ebi-a-GCST90001450	3	74703663	T	C	3019	0.27	0.06	0.00	0.01	21.05
rs1907980	CD62L- monocyte AC	ebi-a-GCST90001450	4	4859590	T	G	3019	0.13	0.03	0.00	0.01	20.72
rs11935230	CD62L- monocyte AC	ebi-a-GCST90001450	4	136447876	C	G	3019	0.18	0.04	0.00	0.01	26.06
rs278949	CD62L- monocyte AC	ebi-a-GCST90001450	4	40461712	A	G	3019	0.12	0.03	0.00	0.01	20.29
rs17082777	CD62L- monocyte AC	ebi-a-GCST90001450	4	63361327	A	G	3019	-0.20	0.05	0.00	0.01	20.26
rs11249570	CD62L- monocyte AC	ebi-a-GCST90001450	5	177033794	A	G	3019	-0.15	0.03	0.00	0.01	33.55
rs79930588	CD62L- monocyte AC	ebi-a-GCST90001450	5	6308011	G	T	3019	1.72	0.35	0.00	0.01	23.90
rs528135834	CD62L- monocyte AC	ebi-a-GCST90001450	7	41362245	G	T	3019	0.86	0.18	0.00	0.01	22.04
rs4484736	CD62L- monocyte AC	ebi-a-GCST90001450	8	66059237	A	G	3019	-0.14	0.03	0.00	0.01	21.16
rs530377	CD62L- monocyte AC	ebi-a-GCST90001450	9	135337621	C	T	3019	0.16	0.03	0.00	0.01	24.95
rs143153359	CD62L- monocyte AC	ebi-a-GCST90001450	9	76145588	T	C	3019	2.05	0.40	0.00	0.01	25.74
rs77287889	CD62L- monocyte AC	ebi-a-GCST90001450	10	89954638	A	G	3019	0.35	0.08	0.00	0.01	19.71
rs116691483	CD62L- monocyte AC	ebi-a-GCST90001450	11	111990120	A	G	3019	0.40	0.09	0.00	0.01	19.70
rs1800973	CD62L- monocyte AC	ebi-a-GCST90001450	12	69744014	A	C	3019	0.22	0.05	0.00	0.01	20.84
rs4899265	CD62L- monocyte AC	ebi-a-GCST90001450	14	69321561	C	A	3019	0.14	0.03	0.00	0.01	23.64
rs146793376	CD62L- monocyte AC	ebi-a-GCST90001450	16	31775655	G	T	3019	0.46	0.10	0.00	0.01	19.88
rs435806	CD62L- monocyte AC	ebi-a-GCST90001450	19	2993427	C	T	3019	-0.14	0.03	0.00	0.01	20.52
rs149543954	CD62L- monocyte AC	ebi-a-GCST90001450	20	15302488	T	G	3019	0.30	0.06	0.00	0.01	23.31

rs4987360	CD62L- monocyte %monocvte	ebi-a-GCST90001451	1	169664867	G	A	3042	0.34	0.03	0.00	0.04	127.91
rs4656708	CD62L- monocyte %monocvte	ebi-a-GCST90001451	1	169701466	C	A	3042	-0.33	0.06	0.00	0.01	25.82
rs141287837	CD62L- monocyte %monocvte	ebi-a-GCST90001451	1	99082513	C	T	3042	0.35	0.08	0.00	0.01	19.76
rs11694457	CD62L- monocyte %monocvte	ebi-a-GCST90001451	2	356029	C	T	3042	0.58	0.13	0.00	0.01	19.70
rs9824107	CD62L- monocyte %monocvte	ebi-a-GCST90001451	3	174360449	A	C	3042	-0.20	0.04	0.00	0.01	20.66
rs62236339	CD62L- monocyte %monocvte	ebi-a-GCST90001451	3	16446085	A	T	3042	0.23	0.05	0.00	0.01	20.43
rs9859349	CD62L- monocyte %monocyte	ebi-a-GCST90001451	3	31661754	A	G	3042	0.23	0.04	0.00	0.01	29.89
rs36141595	CD62L- monocyte %monocvte	ebi-a-GCST90001451	4	32848987	G	A	3042	-0.15	0.03	0.00	0.01	22.37
rs1816932	CD62L- monocyte %monocvte	ebi-a-GCST90001451	4	56771414	A	G	3042	0.15	0.03	0.00	0.01	24.51
rs17624563	CD62L- monocyte %monocvte	ebi-a-GCST90001451	5	110456263	G	C	3042	-0.29	0.06	0.00	0.01	25.35
rs11249570	CD62L- monocyte %monocyte	ebi-a-GCST90001451	5	177033794	A	G	3042	-0.13	0.03	0.00	0.01	24.91
rs2399610	CD62L- monocyte %monocvte	ebi-a-GCST90001451	5	5737796	G	A	3042	-0.13	0.03	0.00	0.01	23.39
rs76717104	CD62L- monocyte %monocvte	ebi-a-GCST90001451	7	17644035	T	C	3042	0.49	0.11	0.00	0.01	20.24
rs717824	CD62L- monocyte %monocvte	ebi-a-GCST90001451	7	14032498	T	C	3042	-0.31	0.07	0.00	0.01	20.14
rs2124027	CD62L- monocyte %monocyte	ebi-a-GCST90001451	8	14941111	G	C	3042	-0.43	0.09	0.00	0.01	20.43
rs530377	CD62L- monocyte %monocvte	ebi-a-GCST90001451	9	135337621	C	T	3042	0.16	0.03	0.00	0.01	24.62
rs117765367	CD62L- monocyte %monocvte	ebi-a-GCST90001451	11	2024995	T	C	3042	0.30	0.07	0.00	0.01	19.60
rs7139370	CD62L- monocyte %monocvte	ebi-a-GCST90001451	13	109976273	T	C	3042	0.29	0.05	0.00	0.01	29.87
rs117309559	CD62L- monocyte %monocyte	ebi-a-GCST90001451	14	31030304	G	A	3042	0.57	0.12	0.00	0.01	22.59
rs4899389	CD62L- monocyte %monocvte	ebi-a-GCST90001451	14	71667863	A	G	3042	-0.19	0.04	0.00	0.01	23.52
rs45487297	CD62L- monocyte %monocvte	ebi-a-GCST90001451	14	30153119	A	T	3042	0.66	0.12	0.00	0.01	30.39
rs7150584	CD62L- monocyte %monocvte	ebi-a-GCST90001451	14	58316355	T	C	3042	-0.18	0.04	0.00	0.01	24.01
rs9807014	CD62L- monocyte %monocvte	ebi-a-GCST90001451	17	76108637	T	C	3042	-0.21	0.04	0.00	0.01	26.83
rs9944612	%monocvte	ebi-a-GCST90001451	18	60116421	A	C	3042	0.13	0.03	0.00	0.01	20.79

rs55859756	CD62L- monocyte %monocyte CD11c+	ebi-a-GCST90001451	22	37139371	C	G	3042	0.21	0.05	0.00	0.01	19.77
rs2404849	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	1	224272792	G	T	3017	0.15	0.03	0.00	0.01	26.01
rs1407142	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	1	86940820	C	T	3017	0.20	0.05	0.00	0.01	19.61
rs55971447	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	1	161515326	T	C	3017	-0.18	0.03	0.00	0.01	34.38
rs72660177	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	1	34019363	T	C	3017	-0.20	0.04	0.00	0.01	21.54
rs72724781	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	1	89327063	G	A	3017	0.94	0.20	0.00	0.01	22.26
rs3040901	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	2	79926958	T	C	3017	-0.16	0.03	0.00	0.01	22.01
rs13104041	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	4	173569449	A	G	3017	0.71	0.16	0.00	0.01	20.72
rs72835655	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	5	167349999	T	G	3017	0.25	0.06	0.00	0.01	19.74
rs75220521	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	6	81660130	G	T	3017	-1.36	0.29	0.00	0.01	21.92
rs11772116	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	7	23594922	C	G	3017	0.23	0.05	0.00	0.01	21.31
rs1268974	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	10	80852378	G	A	3017	0.12	0.03	0.00	0.01	20.70
rs11213272	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	11	109986288	G	A	3017	0.36	0.08	0.00	0.01	19.96
rs12277397	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	11	134569102	T	G	3017	0.18	0.04	0.00	0.01	20.83
rs10891433	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	11	112642209	T	A	3017	-0.12	0.03	0.00	0.01	19.99
rs76524078	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	12	26355696	A	G	3017	1.31	0.28	0.00	0.01	21.23
rs113800324	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	12	69766606	T	C	3017	0.31	0.06	0.00	0.01	27.47
rs17474599	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	13	100593548	T	C	3017	-0.52	0.11	0.00	0.01	22.91
rs77694582	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	14	102895904	A	G	3017	-0.23	0.05	0.00	0.01	20.09
rs4899265	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	14	69321561	C	A	3017	0.12	0.03	0.00	0.01	20.40
rs4359381	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	15	61748527	C	G	3017	0.25	0.05	0.00	0.01	21.03
rs12708874	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	16	66062093	T	A	3017	-0.15	0.03	0.00	0.01	21.87
rs9894233	CD62L- monocyte AC CD11c+	ebi-a-GCST90001452	17	45778747	A	T	3017	-0.41	0.08	0.00	0.01	23.42
rs34142458	CD62L- monocyte AC	ebi-a-GCST90001452	17	2792530	G	A	3017	-0.16	0.03	0.00	0.01	20.41

rs150248455	CD11c+ CD62L- monocyte AC	ebi-a-GCST90001452	21	46373171	A	G	3017	0.24	0.05	0.00	0.01	22.42
rs117545845	CD11c+ CD62L- monocyte AC	ebi-a-GCST90001452	22	25622885	T	C	3017	0.18	0.04	0.00	0.01	20.18
rs116249234	CD11c+ CD62L- monocyte	ebi-a-GCST90001453	1	56894640	A	G	3040	0.25	0.06	0.00	0.01	19.69
rs80087840	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	1	17966505	A	G	3040	-0.62	0.13	0.00	0.01	21.15
rs191730825	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	1	46613239	G	A	3040	0.38	0.08	0.00	0.01	22.40
rs10924239	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	1	245721841	A	G	3040	0.21	0.04	0.00	0.01	21.58
rs114693598	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	1	161500712	T	G	3040	-0.20	0.04	0.00	0.01	25.48
rs114857887	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	2	47354461	A	G	3040	0.25	0.05	0.00	0.01	20.72
rs10804278	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	2	220533049	T	C	3040	0.12	0.03	0.00	0.01	20.57
rs74610143	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	3	172744541	T	C	3040	0.60	0.13	0.00	0.01	22.22
rs11921245	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	3	65576520	C	T	3040	0.17	0.04	0.00	0.01	20.15
rs138567833	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	4	182783833	A	G	3040	-0.22	0.05	0.00	0.01	21.49
rs13241407	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	7	153684820	G	A	3040	-0.28	0.06	0.00	0.01	20.19
rs73073066	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	7	23486970	T	C	3040	0.45	0.09	0.00	0.01	26.09
rs4922033	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	8	19326303	T	C	3040	0.12	0.03	0.00	0.01	20.22
rs1469503	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	11	112076693	T	A	3040	0.30	0.06	0.00	0.01	21.37
rs57566659	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	12	42973243	C	G	3040	0.31	0.06	0.00	0.01	23.63
rs1800973	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	12	69744014	A	C	3040	0.25	0.05	0.00	0.01	27.04
rs11610005	%monocyte CD11c+ CD62L- monocyte	ebi-a-GCST90001453	12	27966210	G	C	3040	-0.13	0.03	0.00	0.01	22.62

rs117909439	CD11c+ CD62L- monocyte %monocvte CD11c+	ebi-a-GCST90001453	14	29918210	T	C	3040	-0.64	0.14	0.00	0.01	19.93
rs62002392	CD62L- monocyte %monocvte CD11c+	ebi-a-GCST90001453	15	37200279	G	A	3040	0.20	0.04	0.00	0.01	21.80
rs16952634	CD62L- monocyte %monocvte CD11c+	ebi-a-GCST90001453	16	53934556	A	G	3040	-0.20	0.04	0.00	0.01	20.04
rs4468691	CD62L- monocyte %monocvte CD62L- HLA	ebi-a-GCST90001453	17	45064678	G	A	3040	0.15	0.03	0.00	0.01	24.19
rs74805957	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	2	112941273	T	C	3018	0.30	0.07	0.00	0.01	20.58
rs115431394	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	3	1641354	C	A	3018	0.60	0.13	0.00	0.01	19.94
rs1320172	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	3	61569753	T	C	3018	0.14	0.03	0.00	0.01	19.58
rs111224423	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	4	1531162	G	C	3018	-0.29	0.07	0.00	0.01	19.77
rs7437802	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	4	148180897	T	C	3018	-0.12	0.03	0.00	0.01	19.85
rs3797612	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	5	178631699	C	T	3018	0.11	0.03	0.00	0.01	19.65
rs10948829	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	6	54476928	G	A	3018	-0.21	0.05	0.00	0.01	20.44
rs10759491	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	9	113852341	T	C	3018	-0.12	0.03	0.00	0.01	19.82
rs10980077	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	9	112600304	A	G	3018	-0.13	0.03	0.00	0.01	20.57
rs10887149	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	10	124167004	A	G	3018	0.13	0.03	0.00	0.01	19.92
rs28680389	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	11	134566275	A	G	3018	0.24	0.05	0.00	0.01	23.26
rs938447	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	12	108746427	C	T	3018	0.14	0.03	0.00	0.01	24.71
rs148420500	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	13	76034172	A	G	3018	-0.42	0.09	0.00	0.01	21.98
rs4899265	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	14	69321561	C	A	3018	0.13	0.03	0.00	0.01	21.07
rs139554006	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	14	53831558	A	G	3018	0.39	0.08	0.00	0.01	22.52
rs144348353	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	15	88341038	T	G	3018	0.36	0.08	0.00	0.01	20.44
rs7190107	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	16	50273295	A	T	3018	-0.14	0.03	0.00	0.01	20.22
rs2240899	DR++ monocvte AC CD62L- HLA	ebi-a-GCST90001454	18	3595011	C	G	3018	-0.12	0.03	0.00	0.01	19.78
rs117545845	DR++ monocvte AC	ebi-a-GCST90001454	22	25622885	T	C	3018	0.20	0.04	0.00	0.01	25.34

	CD62L- HLA												
rs76234991	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	1	89120861	T	A	3041	0.46	0.10	0.00	0.01	19.69	
rs9919190	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	1	165676784	G	C	3041	-0.14	0.03	0.00	0.01	20.69	
rs4668750	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	2	12351867	A	G	3041	0.28	0.06	0.00	0.01	22.13	
rs6430066	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	2	145504787	C	T	3041	0.13	0.03	0.00	0.01	19.57	
rs356651	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	2	101541798	T	C	3041	-0.18	0.04	0.00	0.01	20.58	
rs2955643	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	3	9386094	A	G	3041	0.12	0.03	0.00	0.01	22.45	
rs12485444	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	3	188135783	A	T	3041	0.13	0.03	0.00	0.01	23.01	
rs151240896	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	3	9228763	G	A	3041	-0.25	0.05	0.00	0.01	23.31	
rs189575603	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	4	83340880	C	T	3041	-0.82	0.17	0.00	0.01	22.38	
rs111224423	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	4	1531162	G	C	3041	-0.30	0.07	0.00	0.01	19.96	
rs11766800	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	7	50435617	T	A	3041	-0.15	0.03	0.00	0.01	20.80	
rs1969797	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	9	85828008	A	T	3041	0.81	0.18	0.00	0.01	21.11	
rs78736203	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	10	18422972	A	G	3041	-0.30	0.07	0.00	0.01	20.40	
rs35079623	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	14	31868358	C	T	3041	0.35	0.07	0.00	0.01	22.01	
rs765044	DR++ monocyte %monocyte CD62L- HLA	ebi-a-GCST90001455	19	2560423	G	T	3041	0.15	0.03	0.00	0.01	23.35	
rs5761319	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001455	22	26322953	T	A	3041	0.13	0.03	0.00	0.01	24.80	
rs506388	DR++ monocyte AC CD11c+ HLA	ebi-a-GCST90001456	1	229571061	G	T	3019	0.13	0.03	0.00	0.01	20.09	
rs561934182	DR++ monocyte AC CD11c+ HLA	ebi-a-GCST90001456	1	103631826	G	C	3019	1.16	0.25	0.00	0.01	21.54	
rs56186608	DR++ monocyte AC	ebi-a-GCST90001456	1	45056124	T	C	3019	-0.13	0.03	0.00	0.01	20.58	

rs72660177	CD11c+ HLA DR++	ebi-a-GCST90001456	1	34019363	T	C	3019	-0.20	0.04	0.00	0.01	20.22
rs2404849	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	1	224272792	G	T	3019	0.15	0.03	0.00	0.01	22.86
rs116484930	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	1	76985141	T	C	3019	1.84	0.40	0.00	0.01	20.82
rs6808893	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	3	188133439	T	C	3019	-0.13	0.03	0.00	0.01	22.40
rs548306594	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	3	87446622	C	T	3019	-0.50	0.11	0.00	0.01	22.46
rs74610143	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	3	172744541	T	C	3019	0.58	0.13	0.00	0.01	21.39
rs55651060	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	6	67292748	T	G	3019	-0.51	0.11	0.00	0.01	22.97
rs2295270	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	6	47216562	A	G	3019	0.16	0.03	0.00	0.01	22.74
rs151194174	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	7	20995778	A	G	3019	-0.38	0.08	0.00	0.01	22.75
rs2587473	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	10	72515785	T	C	3019	-0.16	0.03	0.00	0.01	25.58
rs12277397	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	11	134569102	T	G	3019	0.19	0.04	0.00	0.01	21.32
rs112353331	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	13	100594821	T	C	3019	-0.44	0.10	0.00	0.01	20.23
rs148420500	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	13	76034172	A	G	3019	-0.41	0.09	0.00	0.01	20.26
rs9894233	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	17	45778747	A	T	3019	-0.39	0.09	0.00	0.01	19.88
rs76376209	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	17	35215045	T	C	3019	-0.17	0.04	0.00	0.01	19.75
rs117545845	monocyte AC CD11c+ HLA DR++	ebi-a-GCST90001456	22	25622885	T	C	3019	0.19	0.04	0.00	0.01	22.11
rs77361483	monocyte %monocyte CD11c+ HLA DR++	ebi-a-GCST90001457	1	56892198	T	C	3042	0.25	0.06	0.00	0.01	21.13
rs191730825	monocyte %monocyte CD11c+ HLA DR++	ebi-a-GCST90001457	1	46613239	G	A	3042	0.37	0.08	0.00	0.01	21.00
rs6808893	monocyte %monocyte CD11c+ HLA DR++	ebi-a-GCST90001457	3	188133439	T	C	3042	-0.16	0.03	0.00	0.01	33.34
rs74610143	monocyte %monocyte CD11c+ HLA DR++	ebi-a-GCST90001457	3	172744541	T	C	3042	0.67	0.13	0.00	0.01	28.05
rs76838015	monocyte %monocyte CD11c+ HLA DR++	ebi-a-GCST90001457	4	141946812	A	G	3042	3.19	0.72	0.00	0.01	19.81
rs35237330	monocyte %monocyte DR++	ebi-a-GCST90001457	4	182768743	A	G	3042	-0.23	0.05	0.00	0.01	25.87

	CD11c+ HLA											
rs6942832	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001457	7	24465888	T	A	3042	0.12	0.03	0.00	0.01	20.76
rs78175301	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001457	7	23629053	G	A	3042	0.40	0.09	0.00	0.01	21.43
rs11785252	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001457	8	117400280	A	C	3042	-0.15	0.03	0.00	0.01	22.37
rs2587473	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001457	10	72515785	T	C	3042	-0.14	0.03	0.00	0.01	19.88
rs1469503	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001457	11	112076693	T	A	3042	0.30	0.06	0.00	0.01	22.02
rs117853201	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001457	11	80035628	A	G	3042	0.70	0.15	0.00	0.01	20.41
rs7101558	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001457	11	115387449	G	A	3042	-0.30	0.06	0.00	0.01	21.75
rs76968110	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001457	14	31160823	A	G	3042	-0.45	0.10	0.00	0.01	21.35
rs9897015	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001457	17	45202758	A	G	3042	-0.13	0.03	0.00	0.01	21.54
rs76376209	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001457	17	35215045	T	C	3042	-0.18	0.04	0.00	0.01	22.94
rs6038180	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001457	20	5465449	C	T	3042	0.13	0.03	0.00	0.01	20.14
rs143643742	DR++ monocyte %monocyte CD11c+ HLA	ebi-a-GCST90001457	20	45975692	G	A	3042	-0.47	0.10	0.00	0.01	20.13
rs141320646	Myeloid DC AC	ebi-a-GCST90001458	1	73622958	A	G	3387	0.87	0.18	0.00	0.01	22.52
rs115805162	Myeloid DC AC	ebi-a-GCST90001458	1	161410253	T	C	3387	-0.23	0.03	0.00	0.01	49.17
rs71632979	Myeloid DC AC	ebi-a-GCST90001458	1	161526397	G	A	3387	0.65	0.03	0.00	0.14	547.41
rs147678401	Myeloid DC AC	ebi-a-GCST90001458	1	161035780	A	G	3387	0.32	0.06	0.00	0.01	25.94
rs569911	Myeloid DC AC	ebi-a-GCST90001458	1	160798209	C	T	3387	0.15	0.03	0.00	0.01	34.19
rs142472859	Myeloid DC AC	ebi-a-GCST90001458	2	40026310	C	T	3387	0.79	0.16	0.00	0.01	23.57
rs17017403	Myeloid DC AC	ebi-a-GCST90001458	2	112435483	C	T	3387	-0.20	0.04	0.00	0.01	21.76
rs72794768	Myeloid DC AC	ebi-a-GCST90001458	2	40472950	A	C	3387	0.55	0.12	0.00	0.01	22.41
rs115389169	Myeloid DC AC	ebi-a-GCST90001458	3	1981195	T	C	3387	-0.56	0.12	0.00	0.01	20.38
rs4681269	Myeloid DC AC	ebi-a-GCST90001458	3	145530567	G	A	3387	-0.12	0.03	0.00	0.01	19.99
rs17036497	Myeloid DC AC	ebi-a-GCST90001458	4	106927356	T	C	3387	-0.48	0.11	0.00	0.01	20.24
rs79275634	Myeloid DC AC	ebi-a-GCST90001458	5	112543958	A	G	3387	0.57	0.13	0.00	0.01	20.58
rs76168011	Myeloid DC AC	ebi-a-GCST90001458	7	4372544	G	C	3387	-0.82	0.18	0.00	0.01	20.47

rs62504404	Myeloid DC AC	ebi-a-GCST90001458	8	38806068	A	G	3387	0.12	0.03	0.00	0.01	22.85
rs16938204	Myeloid DC AC	ebi-a-GCST90001458	8	73348626	T	C	3387	0.13	0.03	0.00	0.01	22.15
rs138949944	Myeloid DC AC	ebi-a-GCST90001458	9	21870164	T	C	3387	-1.33	0.29	0.00	0.01	20.78
rs10746769	Myeloid DC AC	ebi-a-GCST90001458	9	88374754	C	T	3387	-0.14	0.03	0.00	0.01	19.94
rs10763776	Myeloid DC AC	ebi-a-GCST90001458	10	30413417	A	T	3387	-0.12	0.03	0.00	0.01	20.06
rs17711429	Myeloid DC AC	ebi-a-GCST90001458	11	34866130	G	A	3387	0.39	0.09	0.00	0.01	19.65
rs206131	Myeloid DC AC	ebi-a-GCST90001458	13	32875763	T	C	3387	-0.12	0.03	0.00	0.01	20.15
rs1664690	Myeloid DC AC	ebi-a-GCST90001458	19	4079922	T	A	3387	0.20	0.04	0.00	0.01	19.58
rs147711004	Myeloid DC AC	ebi-a-GCST90001458	19	45337918	A	G	3387	-1.92	0.43	0.00	0.01	20.00
rs6048352	Myeloid DC AC	ebi-a-GCST90001458	20	22780354	G	A	3387	-0.13	0.03	0.00	0.01	21.77
rs147431504	Myeloid DC AC	ebi-a-GCST90001458	20	2470273	G	C	3387	0.94	0.20	0.00	0.01	21.49
rs143140559	Myeloid DC %DC	ebi-a-GCST90001459	1	160972255	T	C	3410	0.64	0.13	0.00	0.01	25.05
rs71639910	Myeloid DC %DC	ebi-a-GCST90001459	1	161937774	A	G	3410	0.25	0.05	0.00	0.01	24.16
rs71632979	Myeloid DC %DC	ebi-a-GCST90001459	1	161526397	G	A	3410	0.63	0.03	0.00	0.12	475.17
rs74341264	Myeloid DC %DC	ebi-a-GCST90001459	1	161561151	A	G	3410	-0.26	0.04	0.00	0.01	42.59
rs66730637	Myeloid DC %DC	ebi-a-GCST90001459	2	65193712	T	C	3410	-0.22	0.05	0.00	0.01	21.59
rs142472859	Myeloid DC %DC	ebi-a-GCST90001459	2	40026310	C	T	3410	0.74	0.16	0.00	0.01	19.98
rs7577824	Myeloid DC %DC	ebi-a-GCST90001459	2	111876763	A	G	3410	-0.12	0.03	0.00	0.01	22.53
rs141267173	Myeloid DC %DC	ebi-a-GCST90001459	2	211051993	T	C	3410	-0.25	0.06	0.00	0.01	20.58
rs11715127	Myeloid DC %DC	ebi-a-GCST90001459	3	384169	C	G	3410	-0.17	0.04	0.00	0.01	20.90
rs62272723	Myeloid DC %DC	ebi-a-GCST90001459	3	151963160	T	G	3410	0.30	0.06	0.00	0.01	24.63
rs114586806	Myeloid DC %DC	ebi-a-GCST90001459	6	36323614	T	C	3410	0.36	0.08	0.00	0.01	21.91
rs196051	Myeloid DC %DC	ebi-a-GCST90001459	6	22056131	G	A	3410	0.12	0.03	0.00	0.01	19.72
rs78726632	Myeloid DC %DC	ebi-a-GCST90001459	7	14195723	C	G	3410	-0.62	0.13	0.00	0.01	22.26
rs876036	Myeloid DC %DC	ebi-a-GCST90001459	7	50307710	C	T	3410	0.16	0.03	0.00	0.01	28.60
rs4921823	Myeloid DC %DC	ebi-a-GCST90001459	8	17810983	T	C	3410	-0.33	0.07	0.00	0.01	22.31
rs34547718	Myeloid DC %DC	ebi-a-GCST90001459	8	130647985	G	T	3410	-0.14	0.03	0.00	0.01	24.07
rs17767335	Myeloid DC %DC	ebi-a-GCST90001459	8	71747316	C	T	3410	1.20	0.26	0.00	0.01	20.86
rs1571857	Myeloid DC %DC	ebi-a-GCST90001459	9	135295345	T	C	3410	-0.20	0.05	0.00	0.01	19.87
rs145330472	Myeloid DC %DC	ebi-a-GCST90001459	9	31374800	A	G	3410	-0.36	0.08	0.00	0.01	21.14
rs1330145	Myeloid DC %DC	ebi-a-GCST90001459	9	110467582	G	T	3410	0.12	0.03	0.00	0.01	21.17
rs4752481	Myeloid DC %DC	ebi-a-GCST90001459	10	122700529	T	G	3410	0.13	0.03	0.00	0.01	23.93
rs10735429	Myeloid DC %DC	ebi-a-GCST90001459	12	108726677	G	A	3410	-0.14	0.03	0.00	0.01	20.78
rs73180904	Myeloid DC %DC	ebi-a-GCST90001459	13	44765322	T	C	3410	0.21	0.05	0.00	0.01	20.47
rs79691782	Myeloid DC %DC	ebi-a-GCST90001459	16	111247	T	C	3410	-0.22	0.05	0.00	0.01	20.67
rs79631949	Myeloid DC %DC	ebi-a-GCST90001459	17	12078483	T	C	3410	0.51	0.11	0.00	0.01	20.05
rs73064521	Myeloid DC %DC	ebi-a-GCST90001459	19	58148090	T	A	3410	-0.27	0.06	0.00	0.01	20.36

rs6079813	Myeloid DC %DC	ebi-a-GCST90001459	20	15407093	A	G	3410	-0.51	0.11	0.00	0.01	21.12
rs12628370	Myeloid DC %DC	ebi-a-GCST90001459	22	27665142	T	C	3410	-0.17	0.04	0.00	0.01	21.67
rs6751072	Plasmacytoid DC AC	ebi-a-GCST90001460	2	1970675	T	C	3374	-0.18	0.04	0.00	0.01	19.90
rs6708784	Plasmacytoid DC AC	ebi-a-GCST90001460	2	111927379	G	A	3374	0.12	0.02	0.00	0.01	23.59
rs12616455	Plasmacytoid DC AC	ebi-a-GCST90001460	2	85696551	A	G	3374	0.13	0.03	0.00	0.01	25.16
rs7560153	Plasmacytoid DC AC	ebi-a-GCST90001460	2	221584311	G	T	3374	-0.64	0.14	0.00	0.01	20.39
rs115638174	Plasmacytoid DC AC	ebi-a-GCST90001460	2	178694935	T	C	3374	-0.80	0.17	0.00	0.01	23.11
rs2164210	Plasmacytoid DC AC	ebi-a-GCST90001460	2	136580287	C	T	3374	0.19	0.03	0.00	0.02	54.29
rs192992420	Plasmacytoid DC AC	ebi-a-GCST90001460	3	19131454	T	C	3374	-1.74	0.39	0.00	0.01	20.30
rs77908862	Plasmacytoid DC AC	ebi-a-GCST90001460	3	104696995	C	T	3374	0.23	0.05	0.00	0.01	22.87
rs2545798	Plasmacytoid DC AC	ebi-a-GCST90001460	5	176855627	A	T	3374	0.12	0.02	0.00	0.01	23.88
rs62354582	Plasmacytoid DC AC	ebi-a-GCST90001460	5	36514924	T	C	3374	0.55	0.10	0.00	0.01	28.08
rs144152085	Plasmacytoid DC AC	ebi-a-GCST90001460	6	67895544	G	C	3374	-1.82	0.40	0.00	0.01	21.25
rs73064418	Plasmacytoid DC AC	ebi-a-GCST90001460	7	21574985	C	T	3374	-0.22	0.05	0.00	0.01	20.64
rs186765793	Plasmacytoid DC AC	ebi-a-GCST90001460	7	11535712	T	C	3374	-0.31	0.07	0.00	0.01	21.13
rs876039	Plasmacytoid DC AC	ebi-a-GCST90001460	7	50308811	C	G	3374	-0.20	0.03	0.00	0.01	51.26
rs117039412	Plasmacytoid DC AC	ebi-a-GCST90001460	8	34472241	A	T	3374	2.01	0.42	0.00	0.01	23.47
rs11776881	Plasmacytoid DC AC	ebi-a-GCST90001460	8	131805603	C	A	3374	0.11	0.02	0.00	0.01	21.80
rs2862050	Plasmacytoid DC AC	ebi-a-GCST90001460	10	99691593	T	C	3374	-0.15	0.03	0.00	0.01	22.00
rs17108993	Plasmacytoid DC AC	ebi-a-GCST90001460	10	95364033	G	C	3374	-0.45	0.10	0.00	0.01	19.78
rs55901425	Plasmacytoid DC AC	ebi-a-GCST90001460	11	80180769	C	T	3374	1.04	0.23	0.00	0.01	21.42
rs117839924	Plasmacytoid DC AC	ebi-a-GCST90001460	12	101344076	C	T	3374	1.34	0.29	0.00	0.01	20.59
rs117112573	Plasmacytoid DC AC	ebi-a-GCST90001460	12	53745426	C	G	3374	0.38	0.08	0.00	0.01	20.63
rs17582557	Plasmacytoid DC AC	ebi-a-GCST90001460	13	101828654	C	T	3374	0.43	0.09	0.00	0.01	22.20
rs76924856	Plasmacytoid DC AC	ebi-a-GCST90001460	14	100464091	G	T	3374	-0.21	0.05	0.00	0.01	20.15
rs217667	Plasmacytoid DC AC	ebi-a-GCST90001460	14	62358847	T	C	3374	0.16	0.03	0.00	0.01	23.32
rs138423727	Plasmacytoid DC AC	ebi-a-GCST90001460	15	43005653	C	T	3374	0.31	0.07	0.00	0.01	20.69
rs142129101	Plasmacytoid DC AC	ebi-a-GCST90001460	16	3995624	C	A	3374	-0.70	0.16	0.00	0.01	20.60
rs147983983	Plasmacytoid DC AC	ebi-a-GCST90001460	16	83921634	G	T	3374	0.31	0.07	0.00	0.01	20.34
rs16977238	Plasmacytoid DC AC	ebi-a-GCST90001460	17	70427321	A	G	3374	0.15	0.03	0.00	0.01	19.97
rs16944211	Plasmacytoid DC AC	ebi-a-GCST90001460	17	10991039	T	C	3374	-1.21	0.23	0.00	0.01	26.46
rs117990934	Plasmacytoid DC AC	ebi-a-GCST90001460	17	35059123	C	G	3374	-1.18	0.26	0.00	0.01	20.22
rs10853636	Plasmacytoid DC AC	ebi-a-GCST90001460	18	51412543	G	A	3374	0.11	0.02	0.00	0.01	22.06
rs191217950	DC AC	ebi-a-GCST90001461	1	160940671	A	G	3374	0.67	0.13	0.00	0.01	28.00
rs911228	DC AC	ebi-a-GCST90001461	1	160145298	A	G	3374	0.12	0.03	0.00	0.01	21.80
rs55971447	DC AC	ebi-a-GCST90001461	1	161515326	T	C	3374	0.59	0.03	0.00	0.11	427.91
rs75072970	DC AC	ebi-a-GCST90001461	1	161058351	C	T	3374	0.35	0.06	0.00	0.01	37.57
rs12144062	DC AC	ebi-a-GCST90001461	1	120123990	T	C	3374	0.16	0.04	0.00	0.01	19.99

rs17438107	DC AC	ebi-a-GCST90001461	1	162920561	T	A	3374	0.20	0.04	0.00	0.01	20.59
rs2322660	DC AC	ebi-a-GCST90001461	2	136557319	T	C	3374	0.13	0.03	0.00	0.01	20.61
rs17017403	DC AC	ebi-a-GCST90001461	2	112435483	C	T	3374	-0.20	0.04	0.00	0.01	21.02
rs7355664	DC AC	ebi-a-GCST90001461	2	47496463	C	G	3374	0.12	0.03	0.00	0.01	21.27
rs6782857	DC AC	ebi-a-GCST90001461	3	31185662	A	G	3374	0.18	0.04	0.00	0.01	20.63
rs115751481	DC AC	ebi-a-GCST90001461	3	41531792	A	T	3374	-0.38	0.08	0.00	0.01	21.40
rs11748731	DC AC	ebi-a-GCST90001461	5	30878060	T	C	3374	0.31	0.07	0.00	0.01	21.45
rs79275634	DC AC	ebi-a-GCST90001461	5	112543958	A	G	3374	0.59	0.12	0.00	0.01	22.68
rs2490034	DC AC	ebi-a-GCST90001461	6	3870889	A	G	3374	0.13	0.03	0.00	0.01	21.06
rs76168011	DC AC	ebi-a-GCST90001461	7	4372544	G	C	3374	-0.80	0.18	0.00	0.01	19.61
rs35802809	DC AC	ebi-a-GCST90001461	7	46017435	T	G	3374	-0.33	0.07	0.00	0.01	20.55
rs28854187	DC AC	ebi-a-GCST90001461	8	73320315	A	G	3374	0.13	0.03	0.00	0.01	22.27
rs62504404	DC AC	ebi-a-GCST90001461	8	38806068	A	G	3374	0.13	0.02	0.00	0.01	25.17
rs138192280	DC AC	ebi-a-GCST90001461	9	88411604	T	C	3374	0.15	0.03	0.00	0.01	21.13
rs142917473	DC AC	ebi-a-GCST90001461	12	133840072	C	G	3374	-0.15	0.03	0.00	0.01	22.77
rs9590896	DC AC	ebi-a-GCST90001461	13	32877696	A	G	3374	-0.12	0.03	0.00	0.01	19.63
rs115102594	DC AC	ebi-a-GCST90001461	17	35251042	G	C	3374	-0.25	0.05	0.00	0.01	21.61
rs147431504	DC AC	ebi-a-GCST90001461	20	2470273	G	C	3374	0.94	0.20	0.00	0.01	22.02
rs74341264	CD62L- DC AC	ebi-a-GCST90001462	1	161561151	A	G	3387	-0.37	0.04	0.00	0.03	87.90
rs143140559	CD62L- DC AC	ebi-a-GCST90001462	1	160972255	T	C	3387	0.74	0.13	0.00	0.01	33.36
rs71632979	CD62L- DC AC	ebi-a-GCST90001462	1	161526397	G	A	3387	0.75	0.03	0.00	0.18	756.36
rs147678401	CD62L- DC AC	ebi-a-GCST90001462	1	161035780	A	G	3387	0.33	0.06	0.00	0.01	27.30
rs71639910	CD62L- DC AC	ebi-a-GCST90001462	1	161937774	A	G	3387	0.36	0.05	0.00	0.01	49.78
rs17438107	CD62L- DC AC	ebi-a-GCST90001462	1	162920561	T	A	3387	0.21	0.04	0.00	0.01	21.64
rs75055130	CD62L- DC AC	ebi-a-GCST90001462	2	155187137	C	G	3387	-1.14	0.24	0.00	0.01	21.64
rs9855547	CD62L- DC AC	ebi-a-GCST90001462	3	163257483	G	T	3387	0.14	0.03	0.00	0.01	19.84
rs35740507	CD62L- DC AC	ebi-a-GCST90001462	4	90807488	C	T	3387	-4.15	0.88	0.00	0.01	22.44
rs139894456	CD62L- DC AC	ebi-a-GCST90001462	8	141396189	A	C	3387	-1.18	0.26	0.00	0.01	20.85
rs771894	CD62L- DC AC	ebi-a-GCST90001462	9	1642516	A	G	3387	0.24	0.05	0.00	0.01	19.57
rs116910026	CD62L- DC AC	ebi-a-GCST90001462	11	19877912	T	C	3387	0.28	0.06	0.00	0.01	23.83
rs149812305	CD62L- DC AC	ebi-a-GCST90001462	11	5480718	C	T	3387	-0.36	0.08	0.00	0.01	22.72
rs73231298	CD62L- DC AC	ebi-a-GCST90001462	12	127036033	A	G	3387	0.13	0.03	0.00	0.01	22.80
rs35519924	CD62L- DC AC	ebi-a-GCST90001462	15	81119490	A	G	3387	0.13	0.03	0.00	0.01	21.84
rs151030554	CD62L- DC AC	ebi-a-GCST90001462	15	57324322	A	C	3387	-2.09	0.46	0.00	0.01	20.25
rs139058442	CD62L- DC AC	ebi-a-GCST90001462	16	74973365	A	G	3387	0.31	0.07	0.00	0.01	19.57
rs112701148	CD62L- DC AC	ebi-a-GCST90001462	18	10175131	T	G	3387	-0.22	0.05	0.00	0.01	20.06
rs6048352	CD62L- DC AC	ebi-a-GCST90001462	20	22780354	G	A	3387	-0.12	0.03	0.00	0.01	20.12
rs1515318	CD62L- DC %DC	ebi-a-GCST90001463	1	105108278	A	G	3410	-0.13	0.03	0.00	0.01	22.35
rs143140559	CD62L- DC %DC	ebi-a-GCST90001463	1	160972255	T	C	3410	0.66	0.13	0.00	0.01	25.27
rs74341264	CD62L- DC %DC	ebi-a-GCST90001463	1	161561151	A	G	3410	-0.38	0.04	0.00	0.03	92.18
rs143032729	CD62L- DC %DC	ebi-a-GCST90001463	1	160353789	G	A	3410	0.41	0.08	0.00	0.01	30.28

rs6537835	CD62L- DC %DC	ebi-a-GCST90001463	1	115108914	A	G	3410	-0.21	0.04	0.00	0.01	31.16
rs79979402	CD62L- DC %DC	ebi-a-GCST90001463	1	62527805	G	A	3410	0.24	0.05	0.00	0.01	20.67
rs341029	CD62L- DC %DC	ebi-a-GCST90001463	1	77072414	A	G	3410	-0.14	0.03	0.00	0.01	21.72
rs56199187	CD62L- DC %DC	ebi-a-GCST90001463	1	161520931	T	C	3410	0.75	0.03	0.00	0.17	721.61
rs4680245	CD62L- DC %DC	ebi-a-GCST90001463	3	155938532	A	G	3410	-0.33	0.07	0.00	0.01	20.30
rs112985320	CD62L- DC %DC	ebi-a-GCST90001463	3	67260176	T	C	3410	-0.86	0.19	0.00	0.01	20.63
rs62300075	CD62L- DC %DC	ebi-a-GCST90001463	4	43118540	C	A	3410	0.14	0.03	0.00	0.01	26.15
rs116473196	CD62L- DC %DC	ebi-a-GCST90001463	5	179543345	T	C	3410	-0.99	0.21	0.00	0.01	22.09
rs75220521	CD62L- DC %DC	ebi-a-GCST90001463	6	81660130	G	T	3410	1.36	0.29	0.00	0.01	21.57
rs11754319	CD62L- DC %DC	ebi-a-GCST90001463	6	8259337	T	G	3410	-1.70	0.38	0.00	0.01	20.10
rs78548019	CD62L- DC %DC	ebi-a-GCST90001463	6	148373443	T	C	3410	-1.04	0.23	0.00	0.01	20.22
rs702185	CD62L- DC %DC	ebi-a-GCST90001463	9	1621830	G	A	3410	0.22	0.05	0.00	0.01	21.13
rs138315340	CD62L- DC %DC	ebi-a-GCST90001463	11	19889219	T	A	3410	0.26	0.06	0.00	0.01	19.91
rs41275192	CD62L- DC %DC	ebi-a-GCST90001463	11	6479487	C	T	3410	0.41	0.09	0.00	0.01	20.09
rs149812305	CD62L- DC %DC	ebi-a-GCST90001463	11	5480718	C	T	3410	-0.36	0.08	0.00	0.01	21.96
rs2332920	CD62L- DC %DC	ebi-a-GCST90001463	14	73286458	G	A	3410	0.12	0.03	0.00	0.01	20.41
rs7163051	CD62L- DC %DC	ebi-a-GCST90001463	15	68361528	A	G	3410	0.13	0.03	0.00	0.01	21.15
rs148188224	CD62L- DC %DC	ebi-a-GCST90001463	16	65149970	G	C	3410	-1.43	0.31	0.00	0.01	21.37
rs2024391	CD62L- DC %DC	ebi-a-GCST90001463	16	11907102	T	C	3410	0.16	0.03	0.00	0.01	21.79
rs5767014	CD62L- DC %DC	ebi-a-GCST90001463	22	48474288	C	T	3410	-0.14	0.03	0.00	0.01	19.81
rs72711599	myeloid DC AC CD86+	ebi-a-GCST90001464	1	162752670	A	G	3387	0.22	0.05	0.00	0.01	21.94
rs12134798	myeloid DC AC CD86+	ebi-a-GCST90001464	1	120115384	T	C	3387	0.16	0.03	0.00	0.01	22.28
rs147678401	myeloid DC AC CD86+	ebi-a-GCST90001464	1	161035780	A	G	3387	0.31	0.06	0.00	0.01	23.49
rs139939515	myeloid DC AC CD86+	ebi-a-GCST90001464	1	163958750	T	C	3387	-0.56	0.12	0.00	0.01	22.42
rs71639910	myeloid DC AC CD86+	ebi-a-GCST90001464	1	161937774	A	G	3387	0.37	0.05	0.00	0.01	49.60
rs6656063	myeloid DC AC CD86+	ebi-a-GCST90001464	1	157964856	T	C	3387	0.14	0.03	0.00	0.01	22.58
rs71632979	myeloid DC AC CD86+	ebi-a-GCST90001464	1	161526397	G	A	3387	0.81	0.03	0.00	0.20	842.90
rs113995133	myeloid DC AC CD86+	ebi-a-GCST90001464	1	163485197	A	G	3387	-0.61	0.13	0.00	0.01	22.21
rs3789359	myeloid DC AC CD86+	ebi-a-GCST90001464	1	181020181	C	T	3387	-0.39	0.09	0.00	0.01	20.49
rs74341264	myeloid DC AC CD86+	ebi-a-GCST90001464	1	161561151	A	G	3387	-0.36	0.04	0.00	0.02	78.48
rs143140559	myeloid DC AC	ebi-a-GCST90001464	1	160972255	T	C	3387	0.74	0.13	0.00	0.01	32.11

rs115849513	CD86+ myeloid DC AC	ebi-a-GCST90001464	3	1827937	T	A	3387	-0.39	0.08	0.00	0.01	22.24
rs112966518	CD86+ myeloid DC AC	ebi-a-GCST90001464	4	76221611	G	T	3387	-0.14	0.03	0.00	0.01	20.21
rs112186537	CD86+ myeloid DC AC	ebi-a-GCST90001464	6	73397623	T	C	3387	-0.70	0.14	0.00	0.01	23.28
rs923967	CD86+ myeloid DC AC	ebi-a-GCST90001464	8	116153312	A	T	3387	-0.12	0.03	0.00	0.01	19.86
rs16938204	CD86+ myeloid DC AC	ebi-a-GCST90001464	8	73348626	T	C	3387	0.13	0.03	0.00	0.01	20.56
rs12005879	CD86+ myeloid DC AC	ebi-a-GCST90001464	9	133737649	A	G	3387	-0.25	0.06	0.00	0.01	20.38
rs9557311	CD86+ myeloid DC AC	ebi-a-GCST90001464	13	100459317	A	G	3387	0.17	0.04	0.00	0.01	19.67
rs75700156	CD86+ myeloid DC AC	ebi-a-GCST90001464	14	44042820	C	T	3387	-1.33	0.30	0.00	0.01	20.19
rs185312213	CD86+ myeloid DC AC	ebi-a-GCST90001464	14	51937110	G	T	3387	-0.72	0.16	0.00	0.01	21.08
rs140205436	CD86+ myeloid DC AC	ebi-a-GCST90001464	15	25969797	T	C	3387	-2.41	0.51	0.00	0.01	22.25
rs79497887	CD86+ myeloid DC AC	ebi-a-GCST90001464	16	57725145	G	C	3387	-0.22	0.05	0.00	0.01	22.44
rs72846852	CD86+ myeloid DC AC	ebi-a-GCST90001464	17	77253136	T	C	3387	-0.35	0.08	0.00	0.01	20.72
rs143140559	CD86+ myeloid DC %DC	ebi-a-GCST90001465	1	160972255	T	C	3410	0.67	0.13	0.00	0.01	26.47
rs6656063	CD86+ myeloid DC %DC	ebi-a-GCST90001465	1	157964856	T	C	3410	0.14	0.03	0.00	0.01	21.03
rs71639910	CD86+ myeloid DC %DC	ebi-a-GCST90001465	1	161937774	A	G	3410	0.36	0.05	0.00	0.01	48.04
rs3789359	CD86+ myeloid DC %DC	ebi-a-GCST90001465	1	181020181	C	T	3410	-0.38	0.09	0.00	0.01	19.77
rs113995133	CD86+ myeloid DC %DC	ebi-a-GCST90001465	1	163485197	A	G	3410	-0.67	0.13	0.00	0.01	26.82
rs74341264	CD86+ myeloid DC %DC	ebi-a-GCST90001465	1	161561151	A	G	3410	-0.35	0.04	0.00	0.02	76.48
rs139939515	CD86+ myeloid DC %DC	ebi-a-GCST90001465	1	163958750	T	C	3410	-0.62	0.12	0.00	0.01	27.98
rs71632979	CD86+ myeloid DC %DC	ebi-a-GCST90001465	1	161526397	G	A	3410	0.81	0.03	0.00	0.20	838.89
rs950485	CD86+ myeloid DC %DC	ebi-a-GCST90001465	1	82817239	C	A	3410	0.12	0.03	0.00	0.01	22.66
rs114566711	CD86+ myeloid DC %DC	ebi-a-GCST90001465	2	191451636	T	A	3410	-1.86	0.39	0.00	0.01	22.71
rs1996740	CD86+ myeloid DC %DC	ebi-a-GCST90001465	4	78748977	G	A	3410	-0.12	0.03	0.00	0.01	21.30
rs143512471	CD86+ myeloid DC %DC	ebi-a-GCST90001465	5	63081773	A	G	3410	-0.37	0.08	0.00	0.01	21.04

rs113404917	CD86+ myeloid DC %DC CD86+	ebi-a-GCST90001465	6	147461264	T	C	3410	0.24	0.05	0.00	0.01	19.63
rs78169719	myeloid DC %DC CD86+	ebi-a-GCST90001465	7	157588588	C	A	3410	-0.44	0.10	0.00	0.01	21.02
rs144259606	myeloid DC %DC CD86+	ebi-a-GCST90001465	7	109678733	C	A	3410	1.67	0.37	0.00	0.01	20.21
rs77148097	myeloid DC %DC CD86+	ebi-a-GCST90001465	7	98162546	G	A	3410	-0.23	0.05	0.00	0.01	20.79
rs76522264	myeloid DC %DC CD86+	ebi-a-GCST90001465	8	113032809	C	G	3410	-2.60	0.56	0.00	0.01	21.82
rs117690664	myeloid DC %DC CD86+	ebi-a-GCST90001465	8	107693714	A	C	3410	-2.52	0.52	0.00	0.01	23.77
rs143555771	myeloid DC %DC CD86+	ebi-a-GCST90001465	10	89944259	T	C	3410	-1.59	0.35	0.00	0.01	20.83
rs75358870	myeloid DC %DC CD86+	ebi-a-GCST90001465	14	30170464	A	C	3410	0.57	0.12	0.00	0.01	23.01
rs140205436	myeloid DC %DC CD86+	ebi-a-GCST90001465	15	25969797	T	C	3410	-2.27	0.51	0.00	0.01	19.69
rs72745440	myeloid DC %DC CD86+	ebi-a-GCST90001465	15	67606602	A	C	3410	-0.51	0.11	0.00	0.01	21.81
rs113345111	myeloid DC %DC CD86+	ebi-a-GCST90001465	18	22455983	G	A	3410	0.29	0.06	0.00	0.01	20.44
rs77768825	myeloid DC %DC CD86+	ebi-a-GCST90001465	19	30509788	G	A	3410	0.23	0.05	0.00	0.01	20.51
rs56164117	plasmacytoid DC AC CD86+	ebi-a-GCST90001466	1	45173351	C	T	3374	-0.12	0.03	0.00	0.01	21.98
rs1991164	plasmacytoid DC AC CD86+	ebi-a-GCST90001466	2	1732855	C	T	3374	-0.12	0.03	0.00	0.01	21.78
rs13088702	plasmacytoid DC AC CD86+	ebi-a-GCST90001466	3	121714019	C	T	3374	0.39	0.08	0.00	0.01	24.58
rs78379738	plasmacytoid DC AC CD86+	ebi-a-GCST90001466	5	148318809	G	T	3374	0.31	0.07	0.00	0.01	20.74
rs10248630	plasmacytoid DC AC CD86+	ebi-a-GCST90001466	7	67115438	G	T	3374	-0.11	0.02	0.00	0.01	20.71
rs2725015	plasmacytoid DC AC CD86+	ebi-a-GCST90001466	8	4465101	G	A	3374	-0.15	0.03	0.00	0.01	27.00
rs79116372	plasmacytoid DC AC CD86+	ebi-a-GCST90001466	8	36308379	T	A	3374	-0.30	0.07	0.00	0.01	21.11
rs140090913	plasmacytoid DC AC CD86+	ebi-a-GCST90001466	8	18584959	A	G	3374	-1.09	0.24	0.00	0.01	20.46
rs139557155	plasmacytoid DC AC CD86+	ebi-a-GCST90001466	9	77583476	G	A	3374	0.26	0.05	0.00	0.01	22.21
rs61852527	plasmacytoid DC AC CD86+	ebi-a-GCST90001466	10	90380589	G	A	3374	-0.26	0.05	0.00	0.01	26.44
rs9513487	plasmacytoid DC AC CD86+	ebi-a-GCST90001466	13	99428046	G	T	3374	0.12	0.03	0.00	0.01	21.03
rs142245023	plasmacytoid DC AC	ebi-a-GCST90001466	14	69634234	A	G	3374	0.70	0.15	0.00	0.01	21.78

rs11852100	CD86+ plasmacytoid DC AC CD86+	ebi-a-GCST90001466	14	36478046	C	A	3374	0.26	0.05	0.00	0.01	23.18
rs75070627	CD86+ plasmacytoid DC AC CD86+	ebi-a-GCST90001466	15	96560797	C	T	3374	0.96	0.20	0.00	0.01	23.66
rs114468547	CD86+ plasmacytoid DC AC CD86+	ebi-a-GCST90001466	16	78055434	G	A	3374	-0.27	0.06	0.00	0.01	20.98
rs118148569	CD86+ plasmacytoid DC AC CD86+	ebi-a-GCST90001466	16	13019834	T	C	3374	0.27	0.06	0.00	0.01	22.34
rs112496823	CD86+ plasmacytoid DC AC CD86+	ebi-a-GCST90001466	17	33829583	C	A	3374	0.16	0.03	0.00	0.01	23.51
rs150206669	CD86+ plasmacytoid DC AC CD86+	ebi-a-GCST90001466	18	66297295	G	C	3374	-0.49	0.11	0.00	0.01	19.91
rs313778	CD86+ plasmacytoid DC AC CD86+	ebi-a-GCST90001466	19	3313321	T	C	3374	-0.22	0.05	0.00	0.01	19.89
rs11701450	CD86+ plasmacytoid DC AC CD86+	ebi-a-GCST90001466	21	34628034	G	C	3374	0.36	0.08	0.00	0.01	20.58
rs3845548	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	1	161507448	T	C	3410	-0.27	0.03	0.00	0.02	86.86
rs513617	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	1	34413398	T	C	3410	0.12	0.03	0.00	0.01	19.73
rs11811863	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	1	247577856	T	C	3410	-0.15	0.03	0.00	0.01	24.79
rs11166208	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	1	99738054	A	G	3410	-1.20	0.27	0.00	0.01	19.59
rs10170363	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	2	15272805	T	C	3410	0.13	0.03	0.00	0.01	24.05
rs66967216	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	2	190942111	A	G	3410	-0.38	0.08	0.00	0.01	22.90
rs1915087	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	3	121838791	C	T	3410	0.16	0.03	0.00	0.01	25.87
rs78379738	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	5	148318809	G	T	3410	0.32	0.07	0.00	0.01	22.36
rs6930632	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	6	155772981	T	C	3410	-0.15	0.03	0.00	0.01	21.42
rs6463191	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	7	43492179	A	G	3410	-0.13	0.03	0.00	0.01	23.00
rs116872766	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	8	77883134	C	G	3410	-0.90	0.18	0.00	0.01	24.63
rs55966096	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	8	4474949	C	T	3410	-0.13	0.03	0.00	0.01	23.42
rs140090913	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	8	18584959	A	G	3410	-1.15	0.24	0.00	0.01	22.50
rs55732541	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	9	8370207	C	T	3410	-0.19	0.04	0.00	0.01	20.20
rs139557155	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	9	77583476	G	A	3410	0.28	0.05	0.00	0.01	25.81
rs117919713	DC %DC plasmacytoid DC %DC	ebi-a-GCST90001467	9	77145787	G	C	3410	0.25	0.05	0.00	0.01	20.37

rs72810797	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	10	30336672	T	C	3410	-0.44	0.10	0.00	0.01	20.79
rs61852527	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	10	90380589	G	A	3410	-0.28	0.05	0.00	0.01	29.64
rs11231693	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	11	63862612	A	G	3410	-0.26	0.05	0.00	0.01	23.28
rs12311260	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	12	18094072	G	C	3410	0.26	0.06	0.00	0.01	21.14
rs9513487	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	13	99428046	G	T	3410	0.13	0.03	0.00	0.01	23.88
rs34692286	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	13	28137152	C	G	3410	-0.11	0.03	0.00	0.01	19.60
rs11852100	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	14	36478046	C	A	3410	0.24	0.05	0.00	0.01	19.84
rs75070627	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	15	96560797	C	T	3410	0.96	0.20	0.00	0.01	22.94
rs2955695	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	15	35034619	A	T	3410	-0.11	0.02	0.00	0.01	20.62
rs112496823	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	17	33829583	C	A	3410	0.16	0.03	0.00	0.01	22.94
rs71381356	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	17	49908577	C	T	3410	-0.21	0.04	0.00	0.01	21.76
rs150206669	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	18	66297295	G	C	3410	-0.49	0.11	0.00	0.01	19.87
rs62131897	CD86+ plasmacytoid DC %DC CD86+	ebi-a-GCST90001467	19	10622478	C	G	3410	-0.82	0.18	0.00	0.01	19.79
rs9607320	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001467	22	22202164	T	C	3410	0.12	0.03	0.00	0.01	21.47
rs74341264	AC CD62L- myeloid DC	ebi-a-GCST90001468	1	161561151	A	G	3387	-0.41	0.04	0.00	0.03	103.52
rs71632979	AC CD62L- myeloid DC	ebi-a-GCST90001468	1	161526397	G	A	3387	0.81	0.03	0.00	0.20	842.94
rs17438107	AC CD62L- myeloid DC	ebi-a-GCST90001468	1	162920561	T	A	3387	0.22	0.05	0.00	0.01	22.81
rs143140559	AC CD62L- myeloid DC	ebi-a-GCST90001468	1	160972255	T	C	3387	0.82	0.13	0.00	0.01	39.69
rs71639910	AC CD62L- myeloid DC	ebi-a-GCST90001468	1	161937774	A	G	3387	0.40	0.05	0.00	0.02	59.39
rs147678401	AC CD62L- myeloid DC	ebi-a-GCST90001468	1	161035780	A	G	3387	0.33	0.06	0.00	0.01	26.43
rs10779896	AC CD62L- myeloid DC	ebi-a-GCST90001468	2	4613050	T	A	3387	-0.24	0.05	0.00	0.01	19.59
rs73172229	AC CD62L- myeloid DC	ebi-a-GCST90001468	3	179194521	T	C	3387	-0.19	0.04	0.00	0.01	22.90
rs13148506	AC CD62L- myeloid DC	ebi-a-GCST90001468	4	43123482	T	C	3387	0.13	0.03	0.00	0.01	23.07
rs116910026	AC myeloid DC	ebi-a-GCST90001468	11	19877912	T	C	3387	0.29	0.06	0.00	0.01	25.21

rs4997747	CD62L- myeloid DC AC	ebi-a-GCST90001468	12	127036550	C	T	3387	0.13	0.03	0.00	0.01	22.39
rs11830537	CD62L- myeloid DC AC	ebi-a-GCST90001468	12	48157703	T	C	3387	-0.31	0.07	0.00	0.01	20.21
rs17071426	CD62L- myeloid DC AC	ebi-a-GCST90001468	13	48733325	T	C	3387	-0.60	0.14	0.00	0.01	19.75
rs35519924	CD62L- myeloid DC AC	ebi-a-GCST90001468	15	81119490	A	G	3387	0.13	0.03	0.00	0.01	20.87
rs112701148	CD62L- myeloid DC AC	ebi-a-GCST90001468	18	10175131	T	G	3387	-0.23	0.05	0.00	0.01	20.23
rs112501424	CD62L- myeloid DC AC	ebi-a-GCST90001468	19	3045627	T	C	3387	0.17	0.04	0.00	0.01	19.99
rs5767014	CD62L- myeloid DC AC	ebi-a-GCST90001468	22	48474288	C	T	3387	-0.14	0.03	0.00	0.01	20.52
rs6537835	CD62L- myeloid DC %DC	ebi-a-GCST90001469	1	115108914	A	G	3410	-0.17	0.04	0.00	0.01	20.36
rs74341264	CD62L- myeloid DC %DC	ebi-a-GCST90001469	1	161561151	A	G	3410	-0.43	0.04	0.00	0.03	117.72
rs147678401	CD62L- myeloid DC %DC	ebi-a-GCST90001469	1	161035780	A	G	3410	0.31	0.06	0.00	0.01	23.24
rs34558449	CD62L- myeloid DC %DC	ebi-a-GCST90001469	1	192566347	C	G	3410	0.23	0.05	0.00	0.01	24.56
rs143140559	CD62L- myeloid DC %DC	ebi-a-GCST90001469	1	160972255	T	C	3410	0.79	0.13	0.00	0.01	37.52
rs17438107	CD62L- myeloid DC %DC	ebi-a-GCST90001469	1	162920561	T	A	3410	0.20	0.04	0.00	0.01	19.92
rs71632979	CD62L- myeloid DC %DC	ebi-a-GCST90001469	1	161526397	G	A	3410	0.82	0.03	0.00	0.21	912.06
rs71639910	CD62L- myeloid DC %DC	ebi-a-GCST90001469	1	161937774	A	G	3410	0.42	0.05	0.00	0.02	66.11
rs10779896	CD62L- myeloid DC %DC	ebi-a-GCST90001469	2	4613050	T	A	3410	-0.24	0.05	0.00	0.01	21.29
rs143586943	CD62L- myeloid DC %DC	ebi-a-GCST90001469	3	55606125	A	G	3410	-1.82	0.41	0.00	0.01	19.94
rs16864449	CD62L- myeloid DC %DC	ebi-a-GCST90001469	3	189220585	G	A	3410	-1.12	0.24	0.00	0.01	21.96
rs17637703	CD62L- myeloid DC %DC	ebi-a-GCST90001469	3	45440721	G	A	3410	0.14	0.03	0.00	0.01	21.35
rs530300575	CD62L- myeloid DC %DC	ebi-a-GCST90001469	4	3387723	G	A	3410	-1.02	0.22	0.00	0.01	22.06
rs62300075	CD62L- myeloid DC %DC	ebi-a-GCST90001469	4	43118540	C	A	3410	0.14	0.03	0.00	0.01	26.66
rs75220521	CD62L- myeloid DC %DC	ebi-a-GCST90001469	6	81660130	G	T	3410	1.34	0.29	0.00	0.01	21.49
rs3012723	CD62L- myeloid DC %DC	ebi-a-GCST90001469	9	134645623	C	T	3410	0.20	0.05	0.00	0.01	19.73
rs181905377	CD62L- myeloid DC %DC	ebi-a-GCST90001469	9	138681023	T	C	3410	-0.75	0.17	0.00	0.01	19.72

rs149812305	CD62L- myeloid DC %DC	ebi-a-GCST90001469	11	5480718	C	T	3410	-0.34	0.08	0.00	0.01	19.89
rs116910026	CD62L- myeloid DC %DC	ebi-a-GCST90001469	11	19877912	T	C	3410	0.27	0.06	0.00	0.01	22.83
rs7300606	CD62L- myeloid DC %DC	ebi-a-GCST90001469	12	108719667	C	T	3410	-0.13	0.03	0.00	0.01	19.88
rs6492701	CD62L- myeloid DC %DC	ebi-a-GCST90001469	13	95043651	C	A	3410	-0.13	0.03	0.00	0.01	20.05
rs7148140	CD62L- myeloid DC %DC	ebi-a-GCST90001469	14	88587741	G	C	3410	0.23	0.05	0.00	0.01	19.66
rs17780615	CD62L- myeloid DC %DC	ebi-a-GCST90001469	14	73029609	T	C	3410	-0.18	0.04	0.00	0.01	20.12
rs72743439	CD62L- myeloid DC %DC	ebi-a-GCST90001469	15	67410088	T	C	3410	1.10	0.24	0.00	0.01	21.15
rs116473040	CD62L- myeloid DC %DC	ebi-a-GCST90001469	17	80291652	G	A	3410	0.41	0.09	0.00	0.01	20.14
rs5767014	CD62L- myeloid DC %DC	ebi-a-GCST90001469	22	48474288	C	T	3410	-0.15	0.03	0.00	0.01	24.69
rs4462104	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	1	36975893	C	T	3374	-0.14	0.03	0.00	0.01	21.43
rs12061996	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	1	167814385	G	A	3374	-0.19	0.04	0.00	0.01	20.28
rs17224524	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	2	182346146	C	T	3374	-0.13	0.03	0.00	0.01	21.94
rs116054627	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	2	51168498	A	G	3374	0.34	0.06	0.00	0.01	29.68
rs75472065	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	3	77076673	C	A	3374	0.66	0.15	0.00	0.01	20.02
rs4928176	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	3	98972835	A	G	3374	0.11	0.02	0.00	0.01	20.75
rs191779135	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	4	82502357	G	A	3374	-0.26	0.04	0.00	0.01	36.90
rs6535445	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	4	84151427	C	T	3374	-0.28	0.03	0.00	0.04	122.37
rs1472757	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	5	6455872	C	T	3374	-0.13	0.02	0.00	0.01	25.17
rs1391986	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	5	52071311	T	G	3374	0.73	0.16	0.00	0.01	21.96
rs9502274	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	6	566060	T	A	3374	-0.14	0.03	0.00	0.01	19.90
rs13201703	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	6	22921471	A	C	3374	0.25	0.06	0.00	0.01	20.12
rs9403901	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	6	148286133	A	G	3374	-0.15	0.03	0.00	0.01	20.54
rs56374915	DC AC plasmacytoid CD62L-	ebi-a-GCST90001470	7	115086436	A	G	3374	-0.18	0.04	0.00	0.01	22.22
rs72716416	DC AC plasmacytoid	ebi-a-GCST90001470	8	131993230	T	C	3374	0.31	0.07	0.00	0.01	19.78

rs118054784	CD62L- plasmacytoid DC AC CD62L-	ebi-a-GCST90001470	8	130658684	A	G	3374	0.30	0.06	0.00	0.01	23.09
rs116894787	CD62L- plasmacytoid DC AC CD62L-	ebi-a-GCST90001470	10	12240106	C	G	3374	0.54	0.12	0.00	0.01	21.76
rs7114664	CD62L- plasmacytoid DC AC CD62L-	ebi-a-GCST90001470	11	22793001	C	T	3374	0.19	0.04	0.00	0.01	22.27
rs61936377	CD62L- plasmacytoid DC AC CD62L-	ebi-a-GCST90001470	12	63530291	C	T	3374	0.14	0.03	0.00	0.01	23.35
rs16957038	CD62L- plasmacytoid DC AC CD62L-	ebi-a-GCST90001470	13	100542252	A	G	3374	1.17	0.25	0.00	0.01	22.52
rs170697	CD62L- plasmacytoid DC AC CD62L-	ebi-a-GCST90001470	14	83856849	A	G	3374	0.11	0.02	0.00	0.01	21.76
rs9900969	CD62L- plasmacytoid DC AC CD62L-	ebi-a-GCST90001470	17	76194489	T	G	3374	0.13	0.03	0.00	0.01	19.99
rs11659751	CD62L- plasmacytoid DC AC CD62L-	ebi-a-GCST90001470	18	55736723	A	T	3374	0.21	0.05	0.00	0.01	21.01
rs150918748	CD62L- plasmacytoid DC AC CD62L-	ebi-a-GCST90001470	22	43446390	T	C	3374	0.87	0.19	0.00	0.01	20.67
rs4462104	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	1	36975893	C	T	3410	-0.14	0.03	0.00	0.01	20.72
rs55971447	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	1	161515326	T	C	3410	-0.30	0.03	0.00	0.03	107.81
rs116054627	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	2	51168498	A	G	3410	0.30	0.06	0.00	0.01	22.05
rs148594241	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	2	236709624	C	T	3410	-0.33	0.07	0.00	0.01	20.50
rs79976443	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	3	78714454	A	G	3410	-0.26	0.06	0.00	0.01	19.99
rs75472065	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	3	77076673	C	A	3410	0.67	0.15	0.00	0.01	20.66
rs62297340	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	4	5407389	A	C	3410	0.18	0.04	0.00	0.01	21.68
rs79659729	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	4	84265416	T	C	3410	-0.27	0.06	0.00	0.01	19.86
rs6535445	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	4	84151427	C	T	3410	-0.30	0.03	0.00	0.04	139.48
rs191779135	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	4	82502357	G	A	3410	-0.27	0.04	0.00	0.01	36.45
rs148863428	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	4	107554477	A	G	3410	1.06	0.23	0.00	0.01	20.86
rs1835019	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	5	66583829	T	C	3410	0.13	0.03	0.00	0.01	20.40
rs56374915	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	7	115086436	A	G	3410	-0.18	0.04	0.00	0.01	20.31
rs62495198	CD62L- plasmacytoid DC %DC CD62L-	ebi-a-GCST90001471	8	13705385	T	A	3410	-0.11	0.03	0.00	0.01	19.72
rs61859443	DC %DC plasmacytoid	ebi-a-GCST90001471	10	43792983	A	G	3410	0.80	0.18	0.00	0.01	19.92

rs146839224	CD62L- plasmacytoid DC %DC	ebi-a-GCST90001471	10	131367364	A	G	3410	1.18	0.24	0.00	0.01	23.32
rs11000032	CD62L- plasmacytoid DC %DC	ebi-a-GCST90001471	10	73619601	A	G	3410	0.13	0.03	0.00	0.01	21.79
rs182833362	CD62L- plasmacytoid DC %DC	ebi-a-GCST90001471	16	27972325	A	G	3410	1.95	0.41	0.00	0.01	22.81
rs8044705	CD62L- plasmacytoid DC %DC	ebi-a-GCST90001471	16	48914991	C	T	3410	0.11	0.02	0.00	0.01	19.59
rs3827963	CD62L- plasmacytoid DC %DC	ebi-a-GCST90001471	20	20371744	G	A	3410	0.12	0.03	0.00	0.01	21.05
rs147678401	CD86+ myeloid DC	ebi-a-GCST90001472	1	161035780	A	G	3387	0.34	0.06	0.00	0.01	28.30
rs74341264	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	1	161561151	A	G	3387	-0.45	0.04	0.00	0.04	127.95
rs2788088	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	1	2897093	A	G	3387	-0.13	0.03	0.00	0.01	22.08
rs71639910	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	1	161937774	A	G	3387	0.43	0.05	0.00	0.02	66.89
rs61808511	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	1	120116588	G	T	3387	0.16	0.03	0.00	0.01	19.97
rs113995133	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	1	163485197	A	G	3387	-0.61	0.13	0.00	0.01	22.34
rs71632979	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	1	161526397	G	A	3387	0.92	0.03	0.00	0.26	1169.91
rs6656063	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	1	157964856	T	C	3387	0.13	0.03	0.00	0.01	19.87
rs77107932	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	1	162042160	C	A	3387	-0.42	0.08	0.00	0.01	26.26
rs143140559	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	1	160972255	T	C	3387	0.76	0.13	0.00	0.01	34.67
rs10779896	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	2	4613050	T	A	3387	-0.24	0.05	0.00	0.01	20.76
rs146507670	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	3	172101731	T	C	3387	-0.49	0.11	0.00	0.01	20.30
rs162588	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	3	364098	A	G	3387	-0.15	0.03	0.00	0.01	23.89
rs144101090	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	4	60446347	A	T	3387	-0.42	0.09	0.00	0.01	19.73

rs112186537	CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	6	73397623	T	C	3387	-0.69	0.14	0.00	0.01	22.98
rs117044176	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	7	11604044	A	G	3387	-1.39	0.31	0.00	0.01	19.94
rs117690664	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	8	107693714	A	C	3387	-2.34	0.51	0.00	0.01	20.96
rs62489014	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	8	1144980	T	C	3387	-0.49	0.11	0.00	0.01	19.71
rs139956891	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	10	127556162	G	A	3387	0.27	0.05	0.00	0.01	24.27
rs11830537	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	12	48157703	T	C	3387	-0.31	0.07	0.00	0.01	20.15
rs135299	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001472	22	48479731	A	G	3387	0.14	0.03	0.00	0.01	21.10
rs2788088	AC CD62L- CD86+ myeloid DC	ebi-a-GCST90001473	1	2897093	A	G	3410	-0.13	0.03	0.00	0.01	22.25
rs147678401	%DC CD62L- CD86+ myeloid DC	ebi-a-GCST90001473	1	161035780	A	G	3410	0.32	0.06	0.00	0.01	25.35
rs71639910	%DC CD62L- CD86+ myeloid DC	ebi-a-GCST90001473	1	161937774	A	G	3410	0.42	0.05	0.00	0.02	67.33
rs113995133	%DC CD62L- CD86+ myeloid DC	ebi-a-GCST90001473	1	163485197	A	G	3410	-0.65	0.13	0.00	0.01	26.02
rs6537835	%DC CD62L- CD86+ myeloid DC	ebi-a-GCST90001473	1	115108914	A	G	3410	-0.17	0.04	0.00	0.01	21.11
rs79078281	%DC CD62L- CD86+ myeloid DC	ebi-a-GCST90001473	1	147922051	G	A	3410	0.51	0.11	0.00	0.01	20.91
rs74341264	%DC CD62L- CD86+ myeloid DC	ebi-a-GCST90001473	1	161561151	A	G	3410	-0.45	0.04	0.00	0.04	128.63
rs71632979	%DC CD62L- CD86+ myeloid DC	ebi-a-GCST90001473	1	161526397	G	A	3410	0.93	0.03	0.00	0.26	1200.90
rs77107932	%DC CD62L- CD86+ myeloid DC	ebi-a-GCST90001473	1	162042160	C	A	3410	-0.42	0.08	0.00	0.01	26.85
rs143140559	%DC CD62L- CD86+ myeloid DC	ebi-a-GCST90001473	1	160972255	T	C	3410	0.71	0.13	0.00	0.01	30.32
rs10779896	%DC CD86+ myeloid DC	ebi-a-GCST90001473	2	4613050	T	A	3410	-0.24	0.05	0.00	0.01	20.90

rs162588	CD62L- CD86+ myeloid DC %DC	ebi-a-GCST90001473	3	364098	A	G	3410	-0.14	0.03	0.00	0.01	20.23
rs117690664	CD62L- CD86+ myeloid DC %DC	ebi-a-GCST90001473	8	107693714	A	C	3410	-2.51	0.51	0.00	0.01	24.55
rs144030104	CD62L- CD86+ myeloid DC %DC	ebi-a-GCST90001473	8	40841454	T	C	3410	0.58	0.13	0.00	0.01	20.08
rs72659736	CD62L- CD86+ myeloid DC %DC	ebi-a-GCST90001473	8	60780923	T	G	3410	0.14	0.03	0.00	0.01	20.28
rs139956891	CD62L- CD86+ myeloid DC %DC	ebi-a-GCST90001473	10	127556162	G	A	3410	0.24	0.05	0.00	0.01	20.33
rs4761369	CD62L- CD86+ myeloid DC %DC	ebi-a-GCST90001473	12	77743499	T	C	3410	0.16	0.03	0.00	0.01	21.75
rs113704374	CD62L- CD86+ myeloid DC %DC	ebi-a-GCST90001473	12	106818887	G	C	3410	0.40	0.09	0.00	0.01	19.76
rs500809	CD62L- CD86+ myeloid DC %DC	ebi-a-GCST90001473	20	3013136	A	G	3410	0.12	0.03	0.00	0.01	21.16
rs5767014	CD62L- CD86+ myeloid DC %DC	ebi-a-GCST90001473	22	48474288	C	T	3410	-0.14	0.03	0.00	0.01	20.81
rs10910893	Plasmacytoid DC %DC	ebi-a-GCST90001474	1	181160955	T	G	3410	-0.23	0.05	0.00	0.01	21.39
rs143032729	Plasmacytoid DC %DC	ebi-a-GCST90001474	1	160353789	G	A	3410	-0.40	0.07	0.00	0.01	29.79
rs74341264	Plasmacytoid DC %DC	ebi-a-GCST90001474	1	161561151	A	G	3410	0.25	0.04	0.00	0.01	41.86
rs56199187	Plasmacytoid DC %DC	ebi-a-GCST90001474	1	161520931	T	C	3410	-0.59	0.03	0.00	0.11	442.11
rs7593638	Plasmacytoid DC %DC	ebi-a-GCST90001474	2	111876941	C	A	3410	0.13	0.03	0.00	0.01	26.67
rs2164210	Plasmacytoid DC %DC	ebi-a-GCST90001474	2	136580287	C	T	3410	0.12	0.03	0.00	0.01	19.80
rs62234997	Plasmacytoid DC %DC	ebi-a-GCST90001474	3	20754619	G	A	3410	0.21	0.05	0.00	0.01	21.43
rs62272723	Plasmacytoid DC %DC	ebi-a-GCST90001474	3	151963160	T	G	3410	-0.28	0.06	0.00	0.01	22.46
rs11715127	Plasmacytoid DC %DC	ebi-a-GCST90001474	3	384169	C	G	3410	0.17	0.04	0.00	0.01	21.09
rs7566	Plasmacytoid DC %DC	ebi-a-GCST90001474	5	179156449	C	T	3410	0.18	0.04	0.00	0.01	19.57
rs196051	Plasmacytoid DC %DC	ebi-a-GCST90001474	6	22056131	G	A	3410	-0.12	0.03	0.00	0.01	21.92
rs876036	Plasmacytoid DC %DC	ebi-a-GCST90001474	7	50307710	C	T	3410	-0.18	0.03	0.00	0.01	40.43
rs78726632	Plasmacytoid DC %DC	ebi-a-GCST90001474	7	14195723	C	G	3410	0.62	0.13	0.00	0.01	23.76
rs4398989	Plasmacytoid DC %DC	ebi-a-GCST90001474	9	110238601	A	G	3410	-0.29	0.06	0.00	0.01	21.03
rs10759202	Plasmacytoid DC %DC	ebi-a-GCST90001474	9	99462625	A	G	3410	-0.26	0.06	0.00	0.01	19.59
rs4752481	Plasmacytoid DC %DC	ebi-a-GCST90001474	10	122700529	T	G	3410	-0.13	0.03	0.00	0.01	24.71
rs79053113	Plasmacytoid DC %DC	ebi-a-GCST90001474	10	133341271	T	C	3410	-1.94	0.42	0.00	0.01	21.70
rs607867	Plasmacytoid DC %DC	ebi-a-GCST90001474	11	107542351	C	G	3410	-0.87	0.19	0.00	0.01	20.77
rs75812106	Plasmacytoid DC %DC	ebi-a-GCST90001474	11	108509865	T	C	3410	0.68	0.15	0.00	0.01	20.24

rs28595889	Plasmacytoid DC %DC	ebi-a-GCST90001474	12	61698548	T	A	3410	0.12	0.03	0.00	0.01	19.89
rs10735429	Plasmacytoid DC %DC	ebi-a-GCST90001474	12	108726677	G	A	3410	0.13	0.03	0.00	0.01	20.93
rs73180904	Plasmacytoid DC %DC	ebi-a-GCST90001474	13	44765322	T	C	3410	-0.21	0.05	0.00	0.01	20.54
rs690924	Plasmacytoid DC %DC	ebi-a-GCST90001474	15	50067248	T	C	3410	0.36	0.08	0.00	0.01	20.30
rs12951038	Plasmacytoid DC %DC	ebi-a-GCST90001474	17	77544550	T	C	3410	0.21	0.05	0.00	0.01	20.17
rs203393	Plasmacytoid DC %DC	ebi-a-GCST90001474	20	56242563	A	G	3410	-0.12	0.03	0.00	0.01	23.59
rs76950373	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	1	70942862	C	T	3595	0.16	0.04	0.00	0.01	19.63
rs9439731	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	1	19059471	C	T	3595	-0.12	0.03	0.00	0.01	21.96
rs7538058	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	1	166381821	G	T	3595	0.14	0.03	0.00	0.01	19.88
rs116670542	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	2	217877436	A	G	3595	-1.81	0.39	0.00	0.01	21.39
rs187260865	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	2	106940570	T	C	3595	-0.51	0.09	0.00	0.01	28.84
rs17023874	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	2	39734023	T	C	3595	-0.28	0.06	0.00	0.01	20.04
rs7624992	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	3	3233271	T	C	3595	-0.17	0.04	0.00	0.01	19.64
rs2878953	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	3	180110875	T	C	3595	0.20	0.05	0.00	0.01	19.59
rs62395272	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	6	31394424	T	C	3595	-0.23	0.04	0.00	0.01	39.36
rs9271281	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	6	32581059	T	C	3595	-0.30	0.03	0.00	0.03	98.83
rs9271768	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	6	32594188	G	A	3595	-0.25	0.03	0.00	0.02	59.30
rs9296042	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	6	32736005	T	C	3595	-0.19	0.03	0.00	0.01	43.11
rs9469094	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	6	32223191	C	G	3595	0.33	0.05	0.00	0.01	41.46
rs116322630	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	6	15221128	T	C	3595	0.27	0.05	0.00	0.01	24.79
rs2090888	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	6	109646216	T	A	3595	0.12	0.03	0.00	0.01	19.63
rs2113347	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	8	3175873	C	G	3595	-0.13	0.03	0.00	0.01	21.23
rs61835728	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	10	10550265	T	C	3595	-0.56	0.13	0.00	0.01	19.88
rs150066324	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	12	51947803	T	A	3595	0.50	0.11	0.00	0.01	19.72
rs7953257	monocyte %monocyte HLA DR++	ebi-a-GCST90001475	12	112684221	T	A	3595	-0.14	0.03	0.00	0.01	25.23
rs12436392	monocyte %monocyte	ebi-a-GCST90001475	14	81293101	C	T	3595	0.58	0.12	0.00	0.01	21.93

rs62083470	HLA DR++ monocyte	ebi-a-GCST90001475	18	35262843	C	T	3595	-0.17	0.04	0.00	0.01	22.08
rs10410907	%monocyte HLA DR++ monocyte	ebi-a-GCST90001475	19	41033109	T	C	3595	0.18	0.04	0.00	0.01	20.65
rs6010756	%monocyte HLA DR++ monocyte	ebi-a-GCST90001475	20	61265397	C	A	3595	-0.38	0.08	0.00	0.01	22.10
rs9439732	%monocyte HLA DR++ monocyte	ebi-a-GCST90001476	1	19059473	T	A	3595	-0.13	0.03	0.00	0.01	27.52
rs35478452	%leukocyte HLA DR++ monocyte	ebi-a-GCST90001476	1	248035843	C	G	3595	-0.70	0.15	0.00	0.01	21.57
rs115589615	%leukocyte HLA DR++ monocyte	ebi-a-GCST90001476	2	106954936	T	C	3595	-0.47	0.10	0.00	0.01	24.22
rs9271768	%leukocyte HLA DR++ monocyte	ebi-a-GCST90001476	6	32594188	G	A	3595	-0.22	0.03	0.00	0.01	44.01
rs62395272	%leukocyte HLA DR++ monocyte	ebi-a-GCST90001476	6	31394424	T	C	3595	-0.18	0.04	0.00	0.01	23.88
rs9270591	%leukocyte HLA DR++ monocyte	ebi-a-GCST90001476	6	32561424	T	C	3595	-0.27	0.03	0.00	0.02	74.86
rs9296042	%leukocyte HLA DR++ monocyte	ebi-a-GCST90001476	6	32736005	T	C	3595	-0.16	0.03	0.00	0.01	29.37
rs76115039	%leukocyte HLA DR++ monocyte	ebi-a-GCST90001476	21	34394714	A	T	3595	1.45	0.32	0.00	0.01	20.36
rs9615878	%leukocyte HLA DR++ monocyte	ebi-a-GCST90001476	22	48806386	A	G	3595	0.18	0.04	0.00	0.01	19.73
rs12410580	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	1	160126020	A	G	3579	0.26	0.06	0.00	0.01	19.92
rs10753675	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	1	165314847	T	C	3579	0.11	0.02	0.00	0.01	20.04
rs115589615	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	2	106954936	T	C	3579	-0.47	0.09	0.00	0.01	24.99
rs138955284	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	3	154844527	T	G	3579	-0.94	0.18	0.00	0.01	25.76
rs114141703	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	3	197226213	A	C	3579	0.38	0.08	0.00	0.01	22.91
rs74827437	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	4	109128418	G	A	3579	0.19	0.04	0.00	0.01	21.23
rs12659610	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	5	65872759	A	G	3579	0.85	0.19	0.00	0.01	20.39
rs73576356	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	6	147436169	T	A	3579	-0.30	0.06	0.00	0.01	20.90
rs9272459	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	6	32605578	A	G	3579	-0.16	0.03	0.00	0.01	31.06
rs62395272	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	6	31394424	T	C	3579	-0.18	0.04	0.00	0.01	25.04
rs9275271	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	6	32662533	C	T	3579	0.24	0.03	0.00	0.02	59.36
rs112700313	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	6	127699589	T	C	3579	-1.12	0.25	0.00	0.01	20.09
rs28610544	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	7	106771703	T	C	3579	0.17	0.03	0.00	0.01	26.46
rs117433119	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	7	45664941	C	A	3579	1.23	0.27	0.00	0.01	20.76
rs16901587	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	8	127636944	A	G	3579	-0.14	0.03	0.00	0.01	20.68
rs35842632	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	9	25608163	T	G	3579	0.12	0.03	0.00	0.01	19.92
rs4244738	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	9	66536402	G	A	3579	0.40	0.09	0.00	0.01	20.24
rs7310615	monocyte AC HLA DR++ monocyte AC	ebi-a-GCST90001477	12	111865049	G	C	3579	-0.14	0.03	0.00	0.01	29.34
rs11169475	monocyte AC	ebi-a-GCST90001477	12	50914563	A	G	3579	-0.34	0.07	0.00	0.01	21.46

rs111801150	HLA DR++ monocyte AC	ebi-a-GCST90001477	13	114508277	G	A	3579	-1.64	0.34	0.00	0.01	23.42
rs55952218	HLA DR++ monocyte AC	ebi-a-GCST90001477	16	73388512	A	G	3579	0.21	0.04	0.00	0.01	22.39
rs183181627	HLA DR++ monocyte AC	ebi-a-GCST90001477	16	69003214	C	A	3579	-1.80	0.38	0.00	0.01	22.56
rs34795364	HLA DR++ monocyte AC	ebi-a-GCST90001477	17	34011303	C	G	3579	-1.75	0.38	0.00	0.01	21.09
rs139181645	HLA DR++ monocyte AC	ebi-a-GCST90001477	17	76469857	G	C	3579	-0.28	0.06	0.00	0.01	22.63
rs61289229	HLA DR++ monocyte AC	ebi-a-GCST90001477	19	46392004	T	C	3579	0.19	0.04	0.00	0.01	22.53
rs5995959	HLA DR++ monocyte AC	ebi-a-GCST90001477	22	22750190	T	C	3579	-0.35	0.08	0.00	0.01	21.53
rs181741769	CD4 Treg %CD4	ebi-a-GCST90001478	1	26999658	C	T	3437	1.24	0.27	0.00	0.01	21.45
rs13410035	CD4 Treg %CD4	ebi-a-GCST90001478	2	161139489	T	C	3437	-0.33	0.07	0.00	0.01	23.46
rs17009374	CD4 Treg %CD4	ebi-a-GCST90001478	2	30532493	T	C	3437	0.56	0.12	0.00	0.01	20.77
rs4685760	CD4 Treg %CD4	ebi-a-GCST90001478	3	4602747	C	G	3437	-0.11	0.03	0.00	0.01	19.92
rs12186662	CD4 Treg %CD4	ebi-a-GCST90001478	5	90356197	G	A	3437	-0.11	0.03	0.00	0.01	19.92
rs77142596	CD4 Treg %CD4	ebi-a-GCST90001478	6	163753664	T	C	3437	-0.31	0.07	0.00	0.01	21.06
rs2187822	CD4 Treg %CD4	ebi-a-GCST90001478	6	32449726	C	A	3437	-0.15	0.03	0.00	0.01	21.04
rs191172032	CD4 Treg %CD4	ebi-a-GCST90001478	7	148149143	A	G	3437	0.39	0.08	0.00	0.01	21.98
rs77615103	CD4 Treg %CD4	ebi-a-GCST90001478	7	37406370	A	C	3437	0.19	0.04	0.00	0.01	25.11
rs138899232	CD4 Treg %CD4	ebi-a-GCST90001478	8	10768753	T	G	3437	0.19	0.04	0.00	0.01	20.16
rs1571025	CD4 Treg %CD4	ebi-a-GCST90001478	10	6134869	G	A	3437	0.24	0.03	0.00	0.01	51.01
rs6602392	CD4 Treg %CD4	ebi-a-GCST90001478	10	6078079	A	C	3437	0.22	0.04	0.00	0.01	30.62
rs73018933	CD4 Treg %CD4	ebi-a-GCST90001478	11	128174781	A	G	3437	-0.15	0.03	0.00	0.01	20.11
rs77071786	CD4 Treg %CD4	ebi-a-GCST90001478	12	23501010	C	G	3437	-0.29	0.05	0.00	0.01	27.67
rs149595513	CD4 Treg %CD4	ebi-a-GCST90001478	14	56535269	T	C	3437	1.04	0.23	0.00	0.01	20.98
rs146090095	CD4 Treg %CD4	ebi-a-GCST90001478	14	25035095	T	A	3437	-0.22	0.05	0.00	0.01	20.72
rs79028902	CD4 Treg %CD4	ebi-a-GCST90001478	16	84427121	T	C	3437	-0.17	0.04	0.00	0.01	19.61
rs72821912	CD4 Treg %CD4	ebi-a-GCST90001478	17	30183388	T	C	3437	0.28	0.06	0.00	0.01	21.64
rs2909902	CD4 Treg %CD4	ebi-a-GCST90001478	19	47667326	A	T	3437	-0.14	0.03	0.00	0.01	23.83
rs6016476	CD4 Treg %CD4	ebi-a-GCST90001478	20	39570656	G	A	3437	0.12	0.03	0.00	0.01	21.05
rs79327855	CD4 Treg %T cell	ebi-a-GCST90001479	3	144158111	T	C	3437	-1.85	0.39	0.00	0.01	22.52
rs76239041	CD4 Treg %T cell	ebi-a-GCST90001479	5	153002618	A	G	3437	0.32	0.06	0.00	0.01	24.63
rs219948	CD4 Treg %T cell	ebi-a-GCST90001479	6	12155899	A	G	3437	0.13	0.03	0.00	0.01	20.51
rs2975007	CD4 Treg %T cell	ebi-a-GCST90001479	6	29902327	T	G	3437	-0.16	0.03	0.00	0.01	23.32
rs971864	CD4 Treg %T cell	ebi-a-GCST90001479	6	164597687	T	C	3437	0.12	0.03	0.00	0.01	21.07
rs115707165	CD4 Treg %T cell	ebi-a-GCST90001479	7	81108132	T	C	3437	-1.05	0.23	0.00	0.01	19.87
rs28445004	CD4 Treg %T cell	ebi-a-GCST90001479	8	34560021	C	T	3437	0.46	0.10	0.00	0.01	19.59
rs6602392	CD4 Treg %T cell	ebi-a-GCST90001479	10	6078079	A	C	3437	0.19	0.04	0.00	0.01	22.67
rs1571025	CD4 Treg %T cell	ebi-a-GCST90001479	10	6134869	G	A	3437	0.21	0.03	0.00	0.01	34.70
rs509240	CD4 Treg %T cell	ebi-a-GCST90001479	11	30568643	G	A	3437	0.13	0.03	0.00	0.01	20.24

rs61907712	CD4 Treg %T cell	ebi-a-GCST90001479	11	128161142	G	C	3437	-0.16	0.04	0.00	0.01	20.02
rs139191636	CD4 Treg %T cell	ebi-a-GCST90001479	12	23591661	A	G	3437	-0.25	0.05	0.00	0.01	21.28
rs146090095	CD4 Treg %T cell	ebi-a-GCST90001479	14	25035095	T	A	3437	-0.25	0.05	0.00	0.01	25.14
rs2526941	CD4 Treg %T cell	ebi-a-GCST90001479	14	73155735	C	T	3437	0.32	0.07	0.00	0.01	21.81
rs11869223	CD4 Treg %T cell	ebi-a-GCST90001479	17	33775713	G	C	3437	-0.12	0.03	0.00	0.01	21.40
rs62055610	CD4 Treg %T cell	ebi-a-GCST90001479	17	5640871	T	C	3437	0.12	0.03	0.00	0.01	19.80
rs56043453	CD4 Treg %T cell	ebi-a-GCST90001479	17	80189590	T	A	3437	0.14	0.03	0.00	0.01	21.04
rs10212061	CD4 Treg %T cell	ebi-a-GCST90001479	22	49579609	A	G	3437	0.14	0.03	0.00	0.01	20.32
rs12044365	Resting Treg AC	ebi-a-GCST90001480	1	210431761	G	A	3405	-0.35	0.07	0.00	0.01	21.73
rs116794175	Resting Treg AC	ebi-a-GCST90001480	1	194010208	C	T	3405	0.90	0.18	0.00	0.01	24.79
rs17583875	Resting Treg AC	ebi-a-GCST90001480	1	197924770	A	G	3405	1.65	0.21	0.00	0.02	61.13
rs6751481	Resting Treg AC	ebi-a-GCST90001480	2	38897810	C	T	3405	0.22	0.02	0.00	0.02	85.91
rs79244630	Resting Treg AC	ebi-a-GCST90001480	2	130435634	T	C	3405	0.28	0.06	0.00	0.01	19.57
rs17607399	Resting Treg AC	ebi-a-GCST90001480	2	41884212	T	C	3405	0.19	0.04	0.00	0.01	24.27
rs408686	Resting Treg AC	ebi-a-GCST90001480	2	39177320	A	C	3405	-0.21	0.03	0.00	0.01	46.03
rs111714509	Resting Treg AC	ebi-a-GCST90001480	3	124800996	A	G	3405	0.68	0.15	0.00	0.01	20.68
rs979640	Resting Treg AC	ebi-a-GCST90001480	4	132525794	G	A	3405	-0.13	0.03	0.00	0.01	22.33
rs247636	Resting Treg AC	ebi-a-GCST90001480	5	142990496	A	G	3405	-0.32	0.06	0.00	0.01	26.50
rs36058358	Resting Treg AC	ebi-a-GCST90001480	6	32636282	A	G	3405	-0.18	0.04	0.00	0.01	23.40
rs9272050	Resting Treg AC	ebi-a-GCST90001480	6	32599071	A	G	3405	0.16	0.03	0.00	0.01	29.14
rs1618199	Resting Treg AC	ebi-a-GCST90001480	6	31275850	A	G	3405	0.15	0.03	0.00	0.01	21.15
rs182630194	Resting Treg AC	ebi-a-GCST90001480	7	71331239	A	G	3405	1.64	0.32	0.00	0.01	25.88
rs147199078	Resting Treg AC	ebi-a-GCST90001480	7	80542211	C	T	3405	0.34	0.07	0.00	0.01	25.47
rs7787732	Resting Treg AC	ebi-a-GCST90001480	7	151861663	C	T	3405	0.19	0.04	0.00	0.01	21.80
rs7899451	Resting Treg AC	ebi-a-GCST90001480	10	118980344	G	C	3405	-0.12	0.03	0.00	0.01	22.28
rs16922479	Resting Treg AC	ebi-a-GCST90001480	10	22863004	C	T	3405	-0.18	0.04	0.00	0.01	22.63
rs3016770	Resting Treg AC	ebi-a-GCST90001480	11	128694040	G	T	3405	-0.18	0.04	0.00	0.01	24.06
rs75958070	Resting Treg AC	ebi-a-GCST90001480	11	79203049	C	G	3405	-0.20	0.04	0.00	0.01	30.83
rs73060045	Resting Treg AC	ebi-a-GCST90001480	12	12168131	G	A	3405	-0.17	0.04	0.00	0.01	19.98
rs72702642	Resting Treg AC	ebi-a-GCST90001480	14	99672909	G	A	3405	0.29	0.06	0.00	0.01	20.19
rs117432559	Resting Treg AC	ebi-a-GCST90001480	15	40508902	G	A	3405	-0.43	0.09	0.00	0.01	20.61
rs8088253	Resting Treg AC	ebi-a-GCST90001480	18	64904859	G	A	3405	0.29	0.05	0.00	0.01	27.18
rs11703793	Resting Treg AC	ebi-a-GCST90001480	22	27946507	C	T	3405	-0.51	0.11	0.00	0.01	20.23
rs111941642	Resting Treg AC	ebi-a-GCST90001480	22	28079761	T	C	3405	-0.48	0.10	0.00	0.01	24.31
rs187089343	Resting Treg % CD4 Treg	ebi-a-GCST90001481	1	182091538	C	A	3437	0.98	0.17	0.00	0.01	32.98
rs78144227	Resting Treg % CD4 Treg	ebi-a-GCST90001481	1	203602440	A	G	3437	0.26	0.06	0.00	0.01	20.07
rs150956189	Resting Treg % CD4 Treg	ebi-a-GCST90001481	1	214625781	C	T	3437	2.69	0.57	0.00	0.01	22.33

rs61828007	Resting Treg % CD4 Treg	ebi-a-GCST90001481	1	203502968	G	A	3437	0.37	0.07	0.00	0.01	28.61
rs12133465	Resting Treg % CD4 Treg	ebi-a-GCST90001481	1	195430336	G	A	3437	0.72	0.12	0.00	0.01	38.41
rs146899923	Resting Treg % CD4 Treg	ebi-a-GCST90001481	1	195919849	C	T	3437	0.73	0.13	0.00	0.01	33.66
rs60220946	Resting Treg % CD4 Treg	ebi-a-GCST90001481	1	193505625	T	C	3437	0.43	0.08	0.00	0.01	30.79
rs147071297	Resting Treg % CD4 Treg	ebi-a-GCST90001481	1	191648600	A	G	3437	1.29	0.18	0.00	0.01	52.18
rs7530076	Resting Treg % CD4 Treg	ebi-a-GCST90001481	1	195825276	A	G	3437	-0.46	0.07	0.00	0.01	38.54
rs17583875	Resting Treg % CD4 Treg	ebi-a-GCST90001481	1	197924770	A	G	3437	2.71	0.20	0.00	0.05	180.77
rs138915779	Resting Treg % CD4 Treg	ebi-a-GCST90001481	1	190079170	A	C	3437	1.79	0.21	0.00	0.02	75.64
rs147958143	Resting Treg % CD4 Treg	ebi-a-GCST90001481	1	238096255	T	A	3437	-0.46	0.10	0.00	0.01	19.76
rs112553628	Resting Treg % CD4 Treg	ebi-a-GCST90001481	2	38077329	G	A	3437	0.30	0.06	0.00	0.01	23.18
rs413431	Resting Treg % CD4 Treg	ebi-a-GCST90001481	2	39176695	G	A	3437	-0.28	0.03	0.00	0.02	87.43
rs139681117	Resting Treg % CD4 Treg	ebi-a-GCST90001481	2	23924920	T	C	3437	0.24	0.05	0.00	0.01	21.92
rs12993274	Resting Treg % CD4 Treg	ebi-a-GCST90001481	2	42378770	C	A	3437	-0.15	0.03	0.00	0.01	20.87
rs76584473	Resting Treg % CD4 Treg	ebi-a-GCST90001481	2	73109350	A	G	3437	0.30	0.07	0.00	0.01	20.06
rs6751481	Resting Treg % CD4 Treg	ebi-a-GCST90001481	2	38897810	C	T	3437	0.29	0.02	0.00	0.05	171.03
rs17607399	Resting Treg % CD4 Treg	ebi-a-GCST90001481	2	41884212	T	C	3437	0.21	0.04	0.00	0.01	31.50
rs138960714	Resting Treg % CD4 Treg	ebi-a-GCST90001481	4	123422719	C	A	3437	2.01	0.45	0.00	0.01	19.61
rs10059100	Resting Treg % CD4 Treg	ebi-a-GCST90001481	5	120100784	G	A	3437	-0.12	0.02	0.00	0.01	23.41
rs1634783	Resting Treg % CD4 Treg	ebi-a-GCST90001481	6	31283604	A	G	3437	-0.13	0.03	0.00	0.01	20.84
rs9274712	Resting Treg % CD4 Treg	ebi-a-GCST90001481	6	32637298	T	C	3437	-0.18	0.04	0.00	0.01	24.75
rs76109501	Resting Treg % CD4 Treg	ebi-a-GCST90001481	8	28323922	A	G	3437	0.83	0.19	0.00	0.01	19.80
rs273421	Resting Treg % CD4 Treg	ebi-a-GCST90001481	8	132542825	C	G	3437	-0.13	0.03	0.00	0.01	19.67
rs12722496	Resting Treg % CD4 Treg	ebi-a-GCST90001481	10	6096667	G	A	3437	-0.22	0.05	0.00	0.01	21.66
rs192123974	Resting Treg % CD4 Treg	ebi-a-GCST90001481	11	13923816	T	C	3437	1.59	0.32	0.00	0.01	24.99
rs138463974	Resting Treg % CD4 Treg	ebi-a-GCST90001481	12	132114547	G	A	3437	0.75	0.17	0.00	0.01	20.43
rs116850494	Resting Treg % CD4 Treg	ebi-a-GCST90001481	13	60389778	A	G	3437	0.44	0.10	0.00	0.01	20.83
rs73124650	Resting Treg % CD4 Treg	ebi-a-GCST90001481	20	47523429	C	T	3437	0.34	0.07	0.00	0.01	22.74
rs79670457	Resting Treg % CD4 Treg	ebi-a-GCST90001481	20	47437969	T	C	3437	0.23	0.05	0.00	0.01	22.46
rs147958143	Resting Treg %CD4	ebi-a-GCST90001482	1	238096255	T	A	3437	-0.54	0.11	0.00	0.01	25.02
rs7530076	Resting Treg %CD4	ebi-a-GCST90001482	1	195825276	A	G	3437	-0.38	0.08	0.00	0.01	24.90
rs146899923	Resting Treg %CD4	ebi-a-GCST90001482	1	195919849	C	T	3437	0.66	0.13	0.00	0.01	26.12
rs12141656	Resting Treg %CD4	ebi-a-GCST90001482	1	189081342	G	T	3437	0.61	0.12	0.00	0.01	25.46
rs147071297	Resting Treg %CD4	ebi-a-GCST90001482	1	191648600	A	G	3437	1.12	0.18	0.00	0.01	36.87
rs150956189	Resting Treg %CD4	ebi-a-GCST90001482	1	214625781	C	T	3437	2.90	0.60	0.00	0.01	23.68
rs12133465	Resting Treg %CD4	ebi-a-GCST90001482	1	195430336	G	A	3437	0.64	0.12	0.00	0.01	29.02
rs17583875	Resting Treg %CD4	ebi-a-GCST90001482	1	197924770	A	G	3437	2.31	0.21	0.00	0.03	121.52
rs28401504	Resting Treg %CD4	ebi-a-GCST90001482	1	203497175	T	G	3437	0.24	0.05	0.00	0.01	20.45

rs138915779	Resting Treg %CD4	ebi-a-GCST90001482	1	190079170	A	C	3437	1.44	0.21	0.00	0.01	45.57
rs115383271	Resting Treg %CD4	ebi-a-GCST90001482	2	39367533	A	C	3437	0.26	0.05	0.00	0.01	24.35
rs17607399	Resting Treg %CD4	ebi-a-GCST90001482	2	41884212	T	C	3437	0.20	0.04	0.00	0.01	27.50
rs6751481	Resting Treg %CD4	ebi-a-GCST90001482	2	38897810	C	T	3437	0.28	0.02	0.00	0.04	141.65
rs408686	Resting Treg %CD4	ebi-a-GCST90001482	2	39177320	A	C	3437	-0.27	0.03	0.00	0.02	76.03
rs112553628	Resting Treg %CD4	ebi-a-GCST90001482	2	38077329	G	A	3437	0.29	0.06	0.00	0.01	21.00
rs247636	Resting Treg %CD4	ebi-a-GCST90001482	5	142990496	A	G	3437	-0.29	0.06	0.00	0.01	22.08
rs1084331	Resting Treg %CD4	ebi-a-GCST90001482	6	125213827	G	A	3437	-0.15	0.03	0.00	0.01	20.97
rs4959016	Resting Treg %CD4	ebi-a-GCST90001482	6	31297833	T	C	3437	-0.15	0.03	0.00	0.01	21.81
rs62405562	Resting Treg %CD4	ebi-a-GCST90001482	6	32451834	G	A	3437	-0.16	0.03	0.00	0.01	27.31
rs56090633	Resting Treg %CD4	ebi-a-GCST90001482	7	51393519	T	A	3437	-0.11	0.02	0.00	0.01	20.01
rs17165751	Resting Treg %CD4	ebi-a-GCST90001482	7	131301614	G	A	3437	-0.19	0.04	0.00	0.01	20.84
rs73579441	Resting Treg %CD4	ebi-a-GCST90001482	8	49024059	C	T	3437	0.21	0.05	0.00	0.01	19.96
rs192123974	Resting Treg %CD4	ebi-a-GCST90001482	11	13923816	T	C	3437	1.54	0.33	0.00	0.01	22.19
rs79505492	Resting Treg %CD4	ebi-a-GCST90001482	11	79167993	G	A	3437	-0.19	0.04	0.00	0.01	21.53
rs3016770	Resting Treg %CD4	ebi-a-GCST90001482	11	128694040	G	T	3437	-0.17	0.04	0.00	0.01	20.14
rs145833948	Resting Treg %CD4	ebi-a-GCST90001482	12	41804479	A	C	3437	0.28	0.06	0.00	0.01	22.54
rs76384362	Resting Treg %CD4	ebi-a-GCST90001482	12	15365872	T	C	3437	0.37	0.08	0.00	0.01	21.04
rs148054039	Resting Treg %CD4	ebi-a-GCST90001482	13	110095055	T	G	3437	-0.21	0.05	0.00	0.01	20.72
rs147345848	Resting Treg %CD4	ebi-a-GCST90001482	14	69803533	T	C	3437	-0.32	0.07	0.00	0.01	20.58
rs72744142	Resting Treg %CD4	ebi-a-GCST90001482	15	81518947	A	G	3437	-0.15	0.03	0.00	0.01	20.90
rs113376235	Resting Treg %CD4	ebi-a-GCST90001482	16	75514711	A	C	3437	0.33	0.07	0.00	0.01	20.83
rs117680001	Resting Treg %CD4	ebi-a-GCST90001482	17	13652401	A	C	3437	0.54	0.12	0.00	0.01	20.94
rs188418491	Resting Treg %CD4	ebi-a-GCST90001482	19	777304	G	A	3437	2.02	0.44	0.00	0.01	20.80
rs79524476	Resting Treg %CD4	ebi-a-GCST90001482	19	40973561	G	C	3437	0.15	0.03	0.00	0.01	21.38
rs34441774	Resting Treg %CD4	ebi-a-GCST90001482	22	49440757	A	G	3437	-0.14	0.03	0.00	0.01	20.74
rs187089343	CD39+ resting Treg	ebi-a-GCST90001483	1	182091538	C	A	3405	0.86	0.19	0.00	0.01	20.80
rs17583875	CD39+ resting Treg	ebi-a-GCST90001483	1	197924770	A	G	3405	2.13	0.22	0.00	0.03	91.28
rs190023756	CD39+ resting Treg	ebi-a-GCST90001483	1	199471227	A	G	3405	0.61	0.12	0.00	0.01	25.66
rs146899923	CD39+ resting Treg	ebi-a-GCST90001483	1	195919849	C	T	3405	0.86	0.14	0.00	0.01	39.18
rs138915779	CD39+ resting Treg	ebi-a-GCST90001483	1	190079170	A	C	3405	1.19	0.23	0.00	0.01	27.25
rs11890666	CD39+ resting Treg	ebi-a-GCST90001483	2	38745822	A	G	3405	-0.16	0.03	0.00	0.01	30.93
rs78096816	CD39+ resting Treg	ebi-a-GCST90001483	2	53370856	C	A	3405	1.52	0.33	0.00	0.01	21.40
rs12712610	CD39+ resting Treg	ebi-a-GCST90001483	2	38897249	G	A	3405	0.19	0.03	0.00	0.01	48.35
rs11718018	CD39+ resting Treg	ebi-a-GCST90001483	3	60364770	C	T	3405	-0.11	0.03	0.00	0.01	20.19
rs138807420	CD39+ resting Treg	ebi-a-GCST90001483	5	6231929	T	A	3405	1.02	0.20	0.00	0.01	25.16
rs62421103	CD39+ resting Treg	ebi-a-GCST90001483	6	113160344	T	G	3405	0.22	0.05	0.00	0.01	20.62

rs10086961	CD39+ resting Treg	ebi-a-GCST90001483	8	132897157	C	T	3405	-0.13	0.03	0.00	0.01	21.25
rs111534725	CD39+ resting Treg	ebi-a-GCST90001483	10	98139264	T	G	3405	0.77	0.06	0.00	0.04	147.35
rs117678654	CD39+ resting Treg	ebi-a-GCST90001483	10	101548054	A	C	3405	0.60	0.12	0.00	0.01	24.88
rs7079761	CD39+ resting Treg	ebi-a-GCST90001483	10	97842115	A	G	3405	0.72	0.06	0.00	0.05	166.06
rs35909109	CD39+ resting Treg	ebi-a-GCST90001483	10	98014850	T	C	3405	0.36	0.06	0.00	0.01	35.22
rs77520132	CD39+ resting Treg	ebi-a-GCST90001483	10	98160835	A	G	3405	0.58	0.06	0.00	0.03	97.55
rs143132810	CD39+ resting Treg	ebi-a-GCST90001483	10	96890004	C	T	3405	0.64	0.08	0.00	0.02	64.90
rs117572834	CD39+ resting Treg	ebi-a-GCST90001483	10	109896541	G	T	3405	-1.02	0.21	0.00	0.01	22.81
rs192831774	CD39+ resting Treg	ebi-a-GCST90001483	10	95387682	T	A	3405	0.49	0.07	0.00	0.01	46.62
rs185474383	CD39+ resting Treg	ebi-a-GCST90001483	10	96311553	T	G	3405	0.53	0.09	0.00	0.01	37.34
rs4918971	CD39+ resting Treg	ebi-a-GCST90001483	10	97569998	G	C	3405	0.81	0.02	0.00	0.29	1408.65
rs72809762	CD39+ resting Treg	ebi-a-GCST90001483	10	97294154	T	C	3405	0.43	0.05	0.00	0.02	76.65
rs6488275	CD39+ resting Treg	ebi-a-GCST90001483	12	10379180	T	C	3405	-0.17	0.04	0.00	0.01	21.06
rs78843390	CD39+ resting Treg	ebi-a-GCST90001483	12	130031612	T	C	3405	0.61	0.13	0.00	0.01	21.69
rs4321083	CD39+ resting Treg	ebi-a-GCST90001483	13	84031916	A	G	3405	0.14	0.03	0.00	0.01	19.94
rs78654607	CD39+ resting Treg	ebi-a-GCST90001483	16	83070118	G	C	3405	-0.34	0.07	0.00	0.01	23.38
rs56158191	CD39+ resting Treg	ebi-a-GCST90001483	19	57436943	T	C	3405	-0.35	0.08	0.00	0.01	19.94
rs2326054	CD39+ resting Treg	ebi-a-GCST90001483	20	3033175	C	T	3405	-0.23	0.05	0.00	0.01	20.16
rs115328872	resting Treg %resting CD39+	ebi-a-GCST90001484	1	197921246	A	G	3437	1.26	0.20	0.00	0.01	40.00
rs146899923	resting Treg %resting CD39+	ebi-a-GCST90001484	1	195919849	C	T	3437	0.66	0.14	0.00	0.01	23.30
rs183612488	resting Treg %resting CD39+	ebi-a-GCST90001484	2	97689175	C	T	3437	1.77	0.37	0.00	0.01	22.20
rs75834156	resting Treg %resting CD39+	ebi-a-GCST90001484	2	38911130	T	C	3437	-0.17	0.03	0.00	0.01	23.03
rs77718305	resting Treg %resting CD39+	ebi-a-GCST90001484	2	85424907	T	C	3437	0.29	0.06	0.00	0.01	21.64
rs11676839	resting Treg %resting CD39+	ebi-a-GCST90001484	2	197121290	C	A	3437	-0.12	0.03	0.00	0.01	19.62
rs11718018	resting Treg %resting CD39+	ebi-a-GCST90001484	3	60364770	C	T	3437	-0.12	0.03	0.00	0.01	21.92
rs141700904	resting Treg %resting CD39+	ebi-a-GCST90001484	6	57764436	G	A	3437	0.53	0.11	0.00	0.01	21.93
rs62416192	resting Treg %resting CD39+	ebi-a-GCST90001484	6	93571691	T	C	3437	0.83	0.18	0.00	0.01	20.44
rs73196633	resting Treg %resting CD39+	ebi-a-GCST90001484	7	86574111	C	A	3437	-0.15	0.03	0.00	0.01	21.35
rs78809247	resting Treg %resting CD39+	ebi-a-GCST90001484	8	4556480	T	C	3437	-0.36	0.08	0.00	0.01	19.87
rs7077127	resting Treg %resting	ebi-a-GCST90001484	10	18717348	T	G	3437	-0.14	0.03	0.00	0.01	21.21

rs117572834	CD39+ resting Treg %resting CD39+	ebi-a-GCST90001484	10	109896541	G	T	3437	-0.97	0.21	0.00	0.01	20.34
rs192831774	resting Treg %resting CD39+	ebi-a-GCST90001484	10	95387682	T	A	3437	0.59	0.07	0.00	0.02	67.37
rs4917830	resting Treg %resting CD39+	ebi-a-GCST90001484	10	100125216	A	G	3437	-0.33	0.07	0.00	0.01	19.90
rs118112011	resting Treg %resting CD39+	ebi-a-GCST90001484	10	97204949	G	A	3437	0.65	0.13	0.00	0.01	26.02
rs4918962	resting Treg %resting CD39+	ebi-a-GCST90001484	10	97475574	C	A	3437	-0.89	0.02	0.00	0.36	1915.32
rs1923692	resting Treg %resting CD39+	ebi-a-GCST90001484	10	98173715	G	T	3437	-0.57	0.05	0.00	0.03	116.77
rs10882701	resting Treg %resting CD39+	ebi-a-GCST90001484	10	97741071	C	A	3437	-0.37	0.02	0.00	0.06	227.83
rs4293064	resting Treg %resting CD39+	ebi-a-GCST90001484	10	107757380	A	C	3437	0.24	0.04	0.00	0.01	31.64
rs12778837	resting Treg %resting CD39+	ebi-a-GCST90001484	10	96998744	C	T	3437	0.20	0.03	0.00	0.02	57.27
rs72809757	resting Treg %resting CD39+	ebi-a-GCST90001484	10	97285715	G	A	3437	0.55	0.05	0.00	0.03	107.70
rs7963011	resting Treg %resting CD39+	ebi-a-GCST90001484	12	10389074	T	C	3437	0.13	0.03	0.00	0.01	21.05
rs7328393	resting Treg %resting CD39+	ebi-a-GCST90001484	13	44805761	G	C	3437	-0.12	0.03	0.00	0.01	20.02
rs143895795	resting Treg %resting CD39+	ebi-a-GCST90001484	15	94569845	G	T	3437	0.45	0.10	0.00	0.01	20.55
rs2127464	resting Treg %resting CD39+	ebi-a-GCST90001484	15	94581009	G	C	3437	0.28	0.06	0.00	0.01	20.39
rs116988060	resting Treg %resting CD39+	ebi-a-GCST90001484	18	34080354	T	A	3437	1.01	0.23	0.00	0.01	19.96
rs2326054	resting Treg %resting CD39+	ebi-a-GCST90001484	20	3033175	C	T	3437	-0.22	0.05	0.00	0.01	20.10
rs61821998	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	1	193263354	A	T	3437	0.42	0.08	0.00	0.01	24.99
rs34645541	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	1	195875605	A	C	3437	0.78	0.13	0.00	0.01	37.00
rs150956189	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	1	214625781	C	T	3437	2.84	0.62	0.00	0.01	20.63
rs116794175	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	1	194010208	C	T	3437	1.31	0.19	0.00	0.01	47.33
rs113435341	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	1	198151688	G	A	3437	2.27	0.22	0.00	0.03	108.98
rs11579717	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	1	199999121	A	G	3437	1.72	0.18	0.00	0.02	87.60
rs187089343	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	1	182091538	C	A	3437	0.88	0.19	0.00	0.01	22.37
rs78096816	resting Treg % CD4 Treg	ebi-a-GCST90001485	2	53370856	C	A	3437	1.58	0.33	0.00	0.01	23.26

rs12712610	CD39+ resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	2	38897249	G	A	3437	0.20	0.03	0.00	0.02	54.62
rs115977640	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	2	160238519	A	C	3437	0.62	0.13	0.00	0.01	21.42
rs11890666	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	2	38745822	A	G	3437	-0.16	0.03	0.00	0.01	33.44
rs884599	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	5	171129907	G	A	3437	-0.11	0.02	0.00	0.01	20.28
rs12518588	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	5	85325148	G	T	3437	0.12	0.03	0.00	0.01	24.18
rs113264169	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	7	46328226	T	C	3437	0.28	0.06	0.00	0.01	19.58
rs357363	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	7	137976565	G	C	3437	0.31	0.07	0.00	0.01	20.45
rs78809247	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	8	4556480	T	C	3437	-0.37	0.08	0.00	0.01	20.43
rs10086961	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	8	132897157	C	T	3437	-0.13	0.03	0.00	0.01	21.70
rs11818051	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	10	97972294	T	C	3437	0.70	0.07	0.00	0.03	94.68
rs4918969	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	10	97562938	A	G	3437	0.84	0.02	0.00	0.32	1643.23
rs35909109	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	10	98014850	T	C	3437	0.38	0.06	0.00	0.01	40.41
rs117572834	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	10	109896541	G	T	3437	-1.11	0.21	0.00	0.01	26.92
rs182702572	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	10	96658384	A	C	3437	0.55	0.07	0.00	0.02	54.46
rs12258674	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	10	68394054	T	A	3437	-0.15	0.03	0.00	0.01	19.81
rs1410600	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	10	97070694	T	C	3437	-0.22	0.03	0.00	0.02	76.31
rs12778837	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	10	96998744	C	T	3437	0.20	0.03	0.00	0.02	54.91
rs111534725	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	10	98139264	T	G	3437	0.81	0.06	0.00	0.05	163.89
rs17111341	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	10	97881031	C	T	3437	0.69	0.05	0.00	0.05	186.77
rs77520132	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	10	98160835	A	G	3437	0.61	0.06	0.00	0.03	108.64
rs7963011	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	12	10389074	T	C	3437	0.12	0.03	0.00	0.01	19.73
rs7310854	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	12	52495599	C	T	3437	0.12	0.03	0.00	0.01	20.05
rs78843390	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	12	130031612	T	C	3437	0.61	0.13	0.00	0.01	22.48
rs78654607	resting Treg % CD4 Treg	ebi-a-GCST90001485	16	83070118	G	C	3437	-0.33	0.07	0.00	0.01	23.18

rs116988060	CD39+ resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	18	34080354	T	A	3437	1.10	0.23	0.00	0.01	23.59
rs2326054	resting Treg % CD4 Treg CD39+	ebi-a-GCST90001485	20	3033175	C	T	3437	-0.23	0.05	0.00	0.01	21.67
rs5755717	resting Treg % CD4 Treg	ebi-a-GCST90001485	22	35786713	C	A	3437	0.13	0.03	0.00	0.01	19.60
rs113435341	Activated Treg AC	ebi-a-GCST90001486	1	198151688	G	A	3405	-1.41	0.23	0.00	0.01	38.54
rs139138505	Activated Treg AC	ebi-a-GCST90001486	1	225667295	G	C	3405	-0.62	0.14	0.00	0.01	21.15
rs138915779	Activated Treg AC	ebi-a-GCST90001486	1	190079170	A	C	3405	-1.29	0.23	0.00	0.01	30.15
rs34596162	Activated Treg AC	ebi-a-GCST90001486	2	195102952	C	T	3405	0.26	0.06	0.00	0.01	19.70
rs6901124	Activated Treg AC	ebi-a-GCST90001486	6	109035704	T	C	3405	0.90	0.19	0.00	0.01	22.41
rs146746694	Activated Treg AC	ebi-a-GCST90001486	6	155566192	A	G	3405	0.55	0.12	0.00	0.01	19.56
rs17509082	Activated Treg AC	ebi-a-GCST90001486	7	120927706	A	C	3405	0.15	0.03	0.00	0.01	19.79
rs62489142	Activated Treg AC	ebi-a-GCST90001486	7	135616195	C	G	3405	-0.51	0.11	0.00	0.01	20.09
rs11593335	Activated Treg AC	ebi-a-GCST90001486	10	6160702	T	A	3405	-0.13	0.03	0.00	0.01	23.24
rs148991751	Activated Treg AC	ebi-a-GCST90001486	12	53114409	C	A	3405	-2.90	0.63	0.00	0.01	20.98
rs145600407	Activated Treg AC	ebi-a-GCST90001486	13	19280601	T	C	3405	-0.47	0.10	0.00	0.01	20.47
rs142987815	Activated Treg AC	ebi-a-GCST90001486	15	98954485	C	T	3405	-0.45	0.10	0.00	0.01	20.88
rs8064831	Activated Treg AC	ebi-a-GCST90001486	17	10150766	T	C	3405	-0.12	0.03	0.00	0.01	19.86
rs10515986	Activated Treg AC	ebi-a-GCST90001486	18	60125602	G	A	3405	0.16	0.04	0.00	0.01	20.08
rs66939386	Activated Treg AC	ebi-a-GCST90001486	19	45564915	G	A	3405	-0.12	0.03	0.00	0.01	19.84
rs12626270	Activated Treg AC	ebi-a-GCST90001486	21	34223997	T	C	3405	0.18	0.04	0.00	0.01	21.56
rs17583875	Treg %CD4 Treg Activated	ebi-a-GCST90001487	1	197924770	A	G	3437	-1.53	0.22	0.00	0.01	46.71
rs138915779	Treg %CD4 Treg Activated	ebi-a-GCST90001487	1	190079170	A	C	3437	-1.35	0.22	0.00	0.01	36.11
rs138751156	Treg %CD4 Treg Activated	ebi-a-GCST90001487	1	77300547	C	T	3437	0.27	0.05	0.00	0.01	24.57
rs76151354	Treg %CD4 Treg Activated	ebi-a-GCST90001487	1	104827341	A	G	3437	-0.28	0.06	0.00	0.01	21.11
rs7530076	Treg %CD4 Treg Activated	ebi-a-GCST90001487	1	195825276	A	G	3437	0.46	0.08	0.00	0.01	33.09
rs11185398	Treg %CD4 Treg Activated	ebi-a-GCST90001487	1	104762898	G	A	3437	-0.24	0.05	0.00	0.01	22.12
rs147071297	Treg %CD4 Treg Activated	ebi-a-GCST90001487	1	191648600	A	G	3437	-0.96	0.20	0.00	0.01	23.98
rs16845263	Treg %CD4 Treg Activated	ebi-a-GCST90001487	2	161728621	T	C	3437	0.92	0.20	0.00	0.01	20.41
rs115862633	Treg %CD4 Treg Activated	ebi-a-GCST90001487	2	229924038	G	T	3437	-0.88	0.19	0.00	0.01	21.17
rs34185703	Treg %CD4 Treg Activated	ebi-a-GCST90001487	3	94030311	A	G	3437	0.15	0.03	0.00	0.01	21.71
rs76204832	Treg %CD4 Treg	ebi-a-GCST90001487	3	71513336	A	C	3437	-0.11	0.02	0.00	0.01	20.00

rs75839545	Activated Treg %CD4	ebi-a-GCST90001487	3	174387584	C	T	3437	0.40	0.08	0.00	0.01	22.38
rs9878966	Treg Activated Treg %CD4	ebi-a-GCST90001487	3	14636829	C	T	3437	0.15	0.03	0.00	0.01	21.28
rs55990322	Treg Activated Treg %CD4	ebi-a-GCST90001487	3	124899665	G	A	3437	-0.14	0.03	0.00	0.01	19.90
rs77506321	Treg Activated Treg %CD4	ebi-a-GCST90001487	4	121611469	C	T	3437	0.85	0.19	0.00	0.01	20.60
rs368899879	Treg Activated Treg %CD4	ebi-a-GCST90001487	4	29697653	C	G	3437	-0.18	0.04	0.00	0.01	21.38
rs551105604	Treg Activated Treg %CD4	ebi-a-GCST90001487	5	136049136	G	C	3437	-0.55	0.12	0.00	0.01	19.99
rs7784817	Treg Activated Treg %CD4	ebi-a-GCST90001487	7	23752731	T	C	3437	0.20	0.04	0.00	0.01	22.17
rs117779957	Treg Activated Treg %CD4	ebi-a-GCST90001487	8	19490663	T	C	3437	0.19	0.04	0.00	0.01	20.07
rs139502175	Treg Activated Treg %CD4	ebi-a-GCST90001487	8	131952722	C	G	3437	-0.32	0.07	0.00	0.01	20.97
rs73697379	Treg Activated Treg %CD4	ebi-a-GCST90001487	8	106542599	A	G	3437	0.16	0.04	0.00	0.01	21.13
rs7035176	Treg Activated Treg %CD4	ebi-a-GCST90001487	9	119577258	C	G	3437	0.15	0.03	0.00	0.01	24.05
rs3793566	Treg Activated Treg %CD4	ebi-a-GCST90001487	9	112150516	C	T	3437	-0.12	0.03	0.00	0.01	20.18
rs10897856	Treg Activated Treg %CD4	ebi-a-GCST90001487	11	81359416	T	G	3437	0.12	0.03	0.00	0.01	19.99
rs72969219	Treg Activated Treg %CD4	ebi-a-GCST90001487	11	38338290	T	A	3437	0.33	0.07	0.00	0.01	20.61
rs11066188	Treg Activated Treg %CD4	ebi-a-GCST90001487	12	112610714	A	G	3437	-0.13	0.03	0.00	0.01	23.72
rs12441465	Treg Activated Treg %CD4	ebi-a-GCST90001487	15	80970517	A	G	3437	-0.37	0.08	0.00	0.01	20.36
rs2030207	Treg Activated Treg %CD4	ebi-a-GCST90001487	15	92551913	C	T	3437	0.11	0.02	0.00	0.01	20.66
rs2356747	Treg Activated Treg %CD4	ebi-a-GCST90001487	16	21252443	A	G	3437	0.19	0.04	0.00	0.01	20.44
rs145044935	Treg Activated Treg %CD4	ebi-a-GCST90001487	18	48643554	A	G	3437	-0.76	0.17	0.00	0.01	19.63
rs117140551	Treg Activated Treg %CD4	ebi-a-GCST90001487	19	23103264	T	A	3437	0.36	0.08	0.00	0.01	23.21
rs138751156	Treg Activated Treg %CD4	ebi-a-GCST90001488	1	77300547	C	T	3437	0.25	0.06	0.00	0.01	20.65
rs56295335	Treg Activated Treg %CD4	ebi-a-GCST90001488	1	10062088	A	G	3437	0.21	0.04	0.00	0.01	23.25
rs112009416	Treg Activated Treg %CD4	ebi-a-GCST90001488	1	199163362	C	T	3437	-0.69	0.13	0.00	0.01	26.63
rs11579717	Treg Activated Treg %CD4	ebi-a-GCST90001488	1	199999121	A	G	3437	-0.85	0.19	0.00	0.01	20.32
rs138915779	Treg Activated Treg %CD4	ebi-a-GCST90001488	1	190079170	A	C	3437	-1.15	0.23	0.00	0.01	25.27
rs139138505	Treg Activated Treg %CD4	ebi-a-GCST90001488	1	225667295	G	C	3437	-0.60	0.13	0.00	0.01	20.44
rs149143064	Treg Activated Treg %CD4	ebi-a-GCST90001488	2	39755475	A	G	3437	-0.35	0.08	0.00	0.01	21.11

rs10511150	Activated Treg %CD4	ebi-a-GCST90001488	3	94952474	A	G	3437	0.15	0.03	0.00	0.01	23.32
rs4109437	Activated Treg %CD4	ebi-a-GCST90001488	4	190769223	A	G	3437	-0.75	0.15	0.00	0.01	25.58
rs16903407	Activated Treg %CD4	ebi-a-GCST90001488	5	2165975	T	G	3437	0.48	0.10	0.00	0.01	23.93
rs10116430	Activated Treg %CD4	ebi-a-GCST90001488	9	11644911	G	C	3437	-0.13	0.03	0.00	0.01	19.91
rs3793566	Activated Treg %CD4	ebi-a-GCST90001488	9	112150516	C	T	3437	-0.13	0.03	0.00	0.01	20.30
rs7078614	Activated Treg %CD4	ebi-a-GCST90001488	10	6075831	T	G	3437	0.14	0.03	0.00	0.01	27.15
rs597808	Activated Treg %CD4	ebi-a-GCST90001488	12	111973358	G	A	3437	0.13	0.03	0.00	0.01	22.20
rs17038606	Activated Treg %CD4	ebi-a-GCST90001488	12	107042891	T	C	3437	0.41	0.09	0.00	0.01	20.82
rs139191636	Activated Treg %CD4	ebi-a-GCST90001488	12	23591661	A	G	3437	-0.23	0.05	0.00	0.01	19.97
rs1820840	Activated Treg %CD4	ebi-a-GCST90001488	16	84640780	C	T	3437	-0.11	0.03	0.00	0.01	20.37
rs117140551	Activated Treg %CD4	ebi-a-GCST90001488	19	23103264	T	A	3437	0.36	0.08	0.00	0.01	21.76
rs8112021	Activated Treg %CD4 CD39+	ebi-a-GCST90001488	19	22667560	C	T	3437	0.12	0.03	0.00	0.01	19.58
rs7432284	activated Treg AC CD39+	ebi-a-GCST90001489	3	186094684	C	A	3405	0.24	0.05	0.00	0.01	23.66
rs139015125	activated Treg AC CD39+	ebi-a-GCST90001489	4	165512454	C	G	3405	-0.40	0.09	0.00	0.01	22.21
rs12648210	activated Treg AC CD39+	ebi-a-GCST90001489	4	89266460	G	A	3405	-0.52	0.11	0.00	0.01	23.96
rs142422333	activated Treg AC CD39+	ebi-a-GCST90001489	5	155375550	T	C	3405	-0.27	0.06	0.00	0.01	20.97
rs10059458	activated Treg AC CD39+	ebi-a-GCST90001489	5	73681489	C	T	3405	0.12	0.03	0.00	0.01	19.88
rs78027772	activated Treg AC CD39+	ebi-a-GCST90001489	7	126248228	A	G	3405	0.22	0.05	0.00	0.01	22.40
rs12707040	activated Treg AC CD39+	ebi-a-GCST90001489	7	80480551	A	G	3405	0.16	0.03	0.00	0.01	21.65
rs139577399	activated Treg AC CD39+	ebi-a-GCST90001489	7	23203415	C	T	3405	-0.32	0.06	0.00	0.01	23.86
rs11777493	activated Treg AC CD39+	ebi-a-GCST90001489	8	113921646	A	T	3405	-0.15	0.03	0.00	0.01	23.12
rs35163827	activated Treg AC CD39+	ebi-a-GCST90001489	8	9606332	G	A	3405	-0.34	0.07	0.00	0.01	23.03
rs191262582	activated Treg AC CD39+	ebi-a-GCST90001489	9	85042639	A	T	3405	-0.50	0.11	0.00	0.01	20.43
rs11795139	activated Treg AC CD39+	ebi-a-GCST90001489	9	86150415	T	C	3405	0.12	0.03	0.00	0.01	19.73
rs7088584	activated Treg AC CD39+	ebi-a-GCST90001489	10	97607644	T	G	3405	0.88	0.02	0.00	0.34	1715.99
rs72809762	activated Treg AC CD39+	ebi-a-GCST90001489	10	97294154	T	C	3405	0.34	0.05	0.00	0.01	43.54
rs2251521	activated Treg AC CD39+	ebi-a-GCST90001489	10	109471331	T	C	3405	-0.20	0.04	0.00	0.01	21.18
rs10882701	activated Treg AC	ebi-a-GCST90001489	10	97741071	C	A	3405	-0.36	0.03	0.00	0.06	206.18

rs11188757	CD39+ activated Treg AC CD39+	ebi-a-GCST90001489	10	98205222	C	A	3405	-0.25	0.03	0.00	0.02	62.81
rs111806244	activated Treg AC CD39+	ebi-a-GCST90001489	10	47637202	T	C	3405	-0.37	0.08	0.00	0.01	21.72
rs10786199	activated Treg AC CD39+	ebi-a-GCST90001489	10	97069472	A	G	3405	-0.19	0.03	0.00	0.01	43.19
rs11002579	activated Treg AC CD39+	ebi-a-GCST90001489	10	80258836	A	G	3405	-0.13	0.03	0.00	0.01	23.27
rs202211780	activated Treg AC CD39+	ebi-a-GCST90001489	10	97016742	G	A	3405	0.42	0.05	0.00	0.02	83.54
rs4321083	activated Treg AC CD39+	ebi-a-GCST90001489	13	84031916	A	G	3405	0.15	0.03	0.00	0.01	22.54
rs4441121	activated Treg AC CD39+	ebi-a-GCST90001489	13	19650584	G	A	3405	0.13	0.03	0.00	0.01	21.37
rs77020191	activated Treg AC CD39+	ebi-a-GCST90001489	15	59643449	G	C	3405	0.26	0.06	0.00	0.01	20.65
rs56197234	activated Treg AC CD39+	ebi-a-GCST90001489	15	70222702	A	G	3405	0.56	0.12	0.00	0.01	22.21
rs289708	activated Treg AC CD39+	ebi-a-GCST90001489	16	57038162	G	A	3405	0.14	0.03	0.00	0.01	21.44
rs139917391	activated Treg AC CD39+	ebi-a-GCST90001489	16	18152860	T	C	3405	2.67	0.57	0.00	0.01	21.78
rs8076447	activated Treg AC CD39+	ebi-a-GCST90001489	17	75229883	A	G	3405	0.13	0.03	0.00	0.01	20.84
rs618250	activated Treg AC CD39+	ebi-a-GCST90001489	18	362116	T	C	3405	0.31	0.06	0.00	0.01	26.68
rs7267949	activated Treg AC CD39+	ebi-a-GCST90001489	20	17586584	T	C	3405	-0.75	0.17	0.00	0.01	19.62
rs4811602	activated Treg AC CD39+	ebi-a-GCST90001489	20	36849088	A	G	3405	0.13	0.03	0.00	0.01	26.58
rs118006237	activated Treg CD39+	ebi-a-GCST90001490	1	100480230	A	G	3437	1.94	0.40	0.00	0.01	23.40
rs2171655	activated Treg CD39+	ebi-a-GCST90001490	2	127229166	C	A	3437	0.30	0.06	0.00	0.01	27.97
rs72805325	activated Treg CD39+	ebi-a-GCST90001490	2	60887023	G	C	3437	-0.45	0.10	0.00	0.01	20.65
rs6432076	activated Treg CD39+	ebi-a-GCST90001490	2	10368044	C	T	3437	-0.12	0.03	0.00	0.01	19.74
rs12106894	activated Treg CD39+	ebi-a-GCST90001490	3	127066325	C	A	3437	-0.19	0.04	0.00	0.01	21.19

rs115545577	CD39+ activated Treg %activated	ebi-a-GCST90001490	4	114230061	G	A	3437	-1.14	0.25	0.00	0.01	19.83
rs77630931	Treg CD39+ activated %activated	ebi-a-GCST90001490	5	80287625	T	C	3437	1.10	0.24	0.00	0.01	20.57
rs7774484	Treg CD39+ activated %activated	ebi-a-GCST90001490	6	7465057	T	G	3437	-0.39	0.09	0.00	0.01	19.99
rs61818169	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	1	113522834	A	G	3437	0.18	0.04	0.00	0.01	19.85
rs7681044	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	4	99477128	A	G	3437	-0.13	0.03	0.00	0.01	24.07
rs12648210	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	4	89266460	G	A	3437	-0.51	0.10	0.00	0.01	24.18
rs79629290	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	5	56760264	C	T	3437	0.17	0.04	0.00	0.01	20.50
rs115722307	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	5	172789806	A	G	3437	3.68	0.83	0.00	0.01	19.70
rs62390650	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	6	1652500	A	G	3437	-0.14	0.03	0.00	0.01	22.51
rs138483328	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	6	108484291	T	C	3437	0.49	0.11	0.00	0.01	21.37
rs117008259	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	8	68482844	G	A	3437	1.85	0.41	0.00	0.01	19.93
rs7035176	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	9	119577258	C	G	3437	0.15	0.03	0.00	0.01	21.97
rs72809762	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	10	97294154	T	C	3437	0.36	0.05	0.00	0.01	51.95
rs12268044	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	10	98794615	T	C	3437	-0.19	0.03	0.00	0.01	49.79
rs111806244	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	10	47637202	T	C	3437	-0.35	0.08	0.00	0.01	20.64
rs202211780	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	10	97016742	G	A	3437	0.44	0.05	0.00	0.03	95.78
rs61856855	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	10	98558540	A	C	3437	0.35	0.08	0.00	0.01	20.56

rs141018090	CD39+ activated Treg %CD4	ebi-a-GCST90001491	10	98169221	T	G	3437	0.45	0.06	0.00	0.02	64.84
rs148430006	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	10	95923091	T	G	3437	0.45	0.09	0.00	0.01	25.40
rs10882655	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	10	97474371	A	G	3437	-0.91	0.02	0.00	0.37	2019.62
rs10882701	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	10	97741071	C	A	3437	-0.35	0.02	0.00	0.06	201.94
rs148903835	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	10	108283818	A	G	3437	0.60	0.13	0.00	0.01	21.72
rs10786199	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	10	97069472	A	G	3437	-0.19	0.03	0.00	0.01	43.17
rs117858605	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	12	81434565	G	A	3437	1.04	0.22	0.00	0.01	22.38
rs74018295	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	15	57870174	T	C	3437	0.16	0.04	0.00	0.01	19.67
rs117344160	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	15	45274540	C	T	3437	0.29	0.06	0.00	0.01	20.25
rs72715941	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	15	27293286	A	G	3437	0.14	0.03	0.00	0.01	20.80
rs146341199	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	19	12479291	A	G	3437	-0.97	0.22	0.00	0.01	19.75
rs4550723	Treg CD39+ activated Treg %CD4	ebi-a-GCST90001491	20	36838101	C	T	3437	0.12	0.03	0.00	0.01	20.54
rs11579717	Treg Secreting Treg AC	ebi-a-GCST90001492	1	199999121	A	G	3405	-1.20	0.19	0.00	0.01	38.54
rs138915779	Secreting Treg AC	ebi-a-GCST90001492	1	190079170	A	C	3405	-1.46	0.24	0.00	0.01	37.64
rs113435341	Secreting Treg AC	ebi-a-GCST90001492	1	198151688	G	A	3405	-2.03	0.23	0.00	0.02	79.24
rs76202906	Secreting Treg AC	ebi-a-GCST90001492	1	113476831	A	C	3405	-0.35	0.07	0.00	0.01	21.65
rs72915529	Secreting Treg AC	ebi-a-GCST90001492	2	54970478	A	G	3405	-0.56	0.12	0.00	0.01	20.48
rs138960714	Secreting Treg AC	ebi-a-GCST90001492	4	123422719	C	A	3405	-2.39	0.52	0.00	0.01	21.18
rs114547596	Secreting Treg AC	ebi-a-GCST90001492	4	97974344	G	A	3405	-3.21	0.72	0.00	0.01	19.86
rs114437347	Secreting Treg AC	ebi-a-GCST90001492	4	86967620	C	G	3405	-3.94	0.84	0.00	0.01	21.78
rs507492	Secreting Treg AC	ebi-a-GCST90001492	6	109031005	C	G	3405	0.69	0.15	0.00	0.01	21.22
rs75280379	Secreting Treg AC	ebi-a-GCST90001492	6	121512597	C	T	3405	1.38	0.30	0.00	0.01	20.63
rs6942586	Secreting Treg AC	ebi-a-GCST90001492	7	36530276	A	G	3405	-0.13	0.03	0.00	0.01	22.36
rs17717645	Secreting Treg AC	ebi-a-GCST90001492	7	18003774	C	T	3405	0.39	0.08	0.00	0.01	22.28
rs56397630	Secreting Treg AC	ebi-a-GCST90001492	10	105304351	C	T	3405	-2.99	0.68	0.00	0.01	19.59

rs61839660	Secreting Treg AC	ebi-a-GCST90001492	10	6094697	T	C	3405	0.34	0.06	0.00	0.01	35.89
rs11217768	Secreting Treg AC	ebi-a-GCST90001492	11	120086680	A	G	3405	1.71	0.38	0.00	0.01	20.34
rs12297353	Secreting Treg AC	ebi-a-GCST90001492	12	105434300	A	G	3405	0.72	0.16	0.00	0.01	20.71
rs75596315	Secreting Treg AC	ebi-a-GCST90001492	12	122520112	T	C	3405	0.26	0.06	0.00	0.01	20.89
rs3184504	Secreting Treg AC	ebi-a-GCST90001492	12	111884608	C	T	3405	-0.13	0.03	0.00	0.01	21.14
rs145600407	Secreting Treg AC	ebi-a-GCST90001492	13	19280601	T	C	3405	-0.51	0.10	0.00	0.01	24.12
rs7162344	Secreting Treg AC	ebi-a-GCST90001492	15	26030485	A	G	3405	-0.12	0.03	0.00	0.01	21.98
rs153054	Secreting Treg AC	ebi-a-GCST90001492	16	69446054	G	A	3405	1.44	0.31	0.00	0.01	21.19
rs149951966	Secreting Treg AC	ebi-a-GCST90001492	17	41137136	C	T	3405	0.21	0.04	0.00	0.01	23.02
rs1041737	Secreting Treg AC	ebi-a-GCST90001492	21	34318056	T	A	3405	-0.12	0.03	0.00	0.01	19.78
rs11579717	Treg % CD4 Secreting	ebi-a-GCST90001493	1	199999121	A	G	3437	-1.78	0.18	0.00	0.03	100.17
rs116794175	Treg % CD4 Secreting	ebi-a-GCST90001493	1	194010208	C	T	3437	-1.42	0.18	0.00	0.02	59.21
rs187089343	Treg % CD4 Secreting	ebi-a-GCST90001493	1	182091538	C	A	3437	-0.85	0.18	0.00	0.01	22.31
rs11577174	Treg % CD4 Secreting	ebi-a-GCST90001493	1	230492271	T	C	3437	1.61	0.34	0.00	0.01	22.31
rs34645541	Treg % CD4 Secreting	ebi-a-GCST90001493	1	195875605	A	C	3437	-0.62	0.13	0.00	0.01	24.53
rs60220946	Treg % CD4 Secreting	ebi-a-GCST90001493	1	193505625	T	C	3437	-0.41	0.08	0.00	0.01	25.52
rs12744266	Treg % CD4 Secreting	ebi-a-GCST90001493	1	248047667	A	G	3437	0.12	0.03	0.00	0.01	23.14
rs113435341	Treg % CD4 Secreting	ebi-a-GCST90001493	1	198151688	G	A	3437	-2.54	0.21	0.00	0.04	147.19
rs75981740	Treg % CD4 Secreting	ebi-a-GCST90001493	1	5012020	G	A	3437	0.21	0.05	0.00	0.01	21.33
rs17607399	Treg % CD4 Secreting	ebi-a-GCST90001493	2	41884212	T	C	3437	-0.22	0.04	0.00	0.01	32.28
rs413431	Treg % CD4 Secreting	ebi-a-GCST90001493	2	39176695	G	A	3437	0.30	0.03	0.00	0.03	90.46
rs6751481	Treg % CD4 Secreting	ebi-a-GCST90001493	2	38897810	C	T	3437	-0.29	0.02	0.00	0.04	146.98
rs72966214	Treg % CD4 Secreting	ebi-a-GCST90001493	2	208014310	C	T	3437	-0.21	0.05	0.00	0.01	20.09
rs12993274	Treg % CD4 Secreting	ebi-a-GCST90001493	2	42378770	C	A	3437	0.15	0.03	0.00	0.01	20.44
rs62322628	Treg % CD4 Secreting	ebi-a-GCST90001493	4	122780838	T	C	3437	-0.81	0.18	0.00	0.01	21.40
rs11739607	Treg % CD4 Secreting	ebi-a-GCST90001493	5	27694229	C	T	3437	-0.38	0.08	0.00	0.01	21.13
rs10059100	Treg % CD4 Secreting	ebi-a-GCST90001493	5	120100784	G	A	3437	0.12	0.03	0.00	0.01	21.11
rs9265947	Treg % CD4 Treg	ebi-a-GCST90001493	6	31315165	C	T	3437	0.14	0.03	0.00	0.01	19.96

rs7825970	Secreting Treg % CD4	ebi-a-GCST90001493	8	3414155	T	G	3437	0.11	0.02	0.00	0.01	20.31
rs73579441	Secreting Treg % CD4	ebi-a-GCST90001493	8	49024059	C	T	3437	-0.21	0.05	0.00	0.01	20.32
rs273421	Secreting Treg % CD4	ebi-a-GCST90001493	8	132542825	C	G	3437	0.15	0.03	0.00	0.01	22.92
rs79224901	Secreting Treg % CD4	ebi-a-GCST90001493	8	3651438	C	G	3437	-0.41	0.08	0.00	0.01	23.78
rs117608988	Secreting Treg % CD4	ebi-a-GCST90001493	9	86285391	C	T	3437	-0.79	0.18	0.00	0.01	19.65
rs79607503	Secreting Treg % CD4	ebi-a-GCST90001493	9	135102542	A	G	3437	-0.53	0.12	0.00	0.01	20.78
rs7893324	Secreting Treg % CD4	ebi-a-GCST90001493	10	6111075	C	T	3437	0.16	0.03	0.00	0.01	23.58
rs4759006	Secreting Treg % CD4	ebi-a-GCST90001493	12	56009543	A	G	3437	0.15	0.03	0.00	0.01	20.23
rs186940149	Secreting Treg % CD4	ebi-a-GCST90001493	13	36528979	T	A	3437	0.34	0.08	0.00	0.01	20.45
rs2148708	Secreting Treg % CD4	ebi-a-GCST90001493	13	21794935	G	A	3437	-0.21	0.05	0.00	0.01	20.77
rs79235233	Secreting Treg % CD4	ebi-a-GCST90001493	14	92726328	G	C	3437	0.29	0.06	0.00	0.01	20.54
rs562562	Secreting Treg % CD4	ebi-a-GCST90001493	18	24263725	A	G	3437	0.12	0.02	0.00	0.01	23.17
rs369976766	Secreting Treg % CD4	ebi-a-GCST90001493	22	28835840	A	T	3437	-1.01	0.21	0.00	0.01	22.09
rs113435341	Secreting Treg %CD4	ebi-a-GCST90001494	1	198151688	G	A	3437	-2.18	0.22	0.00	0.03	97.60
rs143290109	Secreting Treg %CD4	ebi-a-GCST90001494	1	103543193	T	C	3437	-2.17	0.47	0.00	0.01	21.16
rs10925924	Secreting Treg %CD4	ebi-a-GCST90001494	1	239767145	G	T	3437	-0.19	0.04	0.00	0.01	24.51
rs35378667	Secreting Treg %CD4	ebi-a-GCST90001494	1	205001095	C	T	3437	-0.52	0.10	0.00	0.01	25.34
rs11579717	Secreting Treg %CD4	ebi-a-GCST90001494	1	199999121	A	G	3437	-1.63	0.19	0.00	0.02	75.87
rs138915779	Secreting Treg %CD4	ebi-a-GCST90001494	1	190079170	A	C	3437	-1.51	0.23	0.00	0.01	43.84
rs12712610	Secreting Treg %CD4	ebi-a-GCST90001494	2	38897249	G	A	3437	-0.18	0.03	0.00	0.01	43.27
rs11124653	Secreting Treg %CD4	ebi-a-GCST90001494	2	39112166	A	C	3437	0.12	0.03	0.00	0.01	20.97
rs73155096	Secreting Treg %CD4	ebi-a-GCST90001494	3	149610852	G	C	3437	-0.72	0.16	0.00	0.01	20.17
rs6438325	Secreting Treg %CD4	ebi-a-GCST90001494	3	116384674	C	A	3437	-0.18	0.04	0.00	0.01	23.42
rs358809	Secreting Treg %CD4	ebi-a-GCST90001494	3	55349822	A	G	3437	-0.11	0.03	0.00	0.01	19.75
rs9838548	Secreting Treg %CD4	ebi-a-GCST90001494	3	126747367	C	T	3437	0.13	0.03	0.00	0.01	22.26
rs7651919	Secreting Treg %CD4	ebi-a-GCST90001494	3	4597367	T	G	3437	-0.12	0.02	0.00	0.01	21.55
rs186715000	Secreting Treg %CD4	ebi-a-GCST90001494	4	1589324	G	A	3437	-2.13	0.47	0.00	0.01	20.70
rs2668533	Secreting Treg %CD4	ebi-a-GCST90001494	4	54555201	T	C	3437	-0.13	0.03	0.00	0.01	22.65
rs114437347	Secreting Treg %CD4	ebi-a-GCST90001494	4	86967620	C	G	3437	-3.84	0.81	0.00	0.01	22.25
rs12642085	Secreting Treg %CD4	ebi-a-GCST90001494	4	57549528	T	C	3437	-0.12	0.03	0.00	0.01	20.33

rs138960714	Secreting Treg %CD4	ebi-a-GCST90001494	4	123422719	C	A	3437	-2.94	0.50	0.00	0.01	34.35
rs9689649	Secreting Treg %CD4	ebi-a-GCST90001494	6	162101178	C	A	3437	-0.14	0.03	0.00	0.01	19.58
rs185363826	Secreting Treg %CD4	ebi-a-GCST90001494	7	128186610	T	G	3437	0.34	0.08	0.00	0.01	20.00
rs74830391	Secreting Treg %CD4	ebi-a-GCST90001494	7	37427289	T	C	3437	0.20	0.04	0.00	0.01	30.19
rs6602392	Secreting Treg %CD4	ebi-a-GCST90001494	10	6078079	A	C	3437	0.21	0.04	0.00	0.01	29.74
rs7893324	Secreting Treg %CD4	ebi-a-GCST90001494	10	6111075	C	T	3437	0.28	0.04	0.00	0.02	64.36
rs10905879	Secreting Treg %CD4	ebi-a-GCST90001494	10	6177083	T	C	3437	0.19	0.04	0.00	0.01	26.00
rs149375589	Secreting Treg %CD4	ebi-a-GCST90001494	11	67333370	G	T	3437	-2.82	0.60	0.00	0.01	22.27
rs10772894	Secreting Treg %CD4 CD39+	ebi-a-GCST90001494	12	16263287	G	A	3437	0.21	0.05	0.00	0.01	20.58
rs114114791	secreting Treg AC CD39+	ebi-a-GCST90001495	1	25840181	G	A	3405	0.35	0.07	0.00	0.01	22.75
rs7570197	secreting Treg AC CD39+	ebi-a-GCST90001495	2	79140712	C	T	3405	0.58	0.13	0.00	0.01	20.48
rs139577399	secreting Treg AC CD39+	ebi-a-GCST90001495	7	23203415	C	T	3405	-0.29	0.07	0.00	0.01	20.50
rs76464802	secreting Treg AC CD39+	ebi-a-GCST90001495	7	67769786	A	G	3405	-0.49	0.11	0.00	0.01	21.10
rs75270901	secreting Treg AC CD39+	ebi-a-GCST90001495	7	80556281	A	G	3405	0.26	0.06	0.00	0.01	19.80
rs57516532	secreting Treg AC CD39+	ebi-a-GCST90001495	7	1172869	T	C	3405	0.32	0.07	0.00	0.01	19.87
rs78027772	secreting Treg AC CD39+	ebi-a-GCST90001495	7	126248228	A	G	3405	0.23	0.05	0.00	0.01	22.97
rs150315125	secreting Treg AC CD39+	ebi-a-GCST90001495	8	10090715	T	A	3405	-0.41	0.08	0.00	0.01	25.39
rs74791100	secreting Treg AC CD39+	ebi-a-GCST90001495	9	86052403	C	T	3405	0.55	0.12	0.00	0.01	21.83
rs10882324	secreting Treg AC CD39+	ebi-a-GCST90001495	10	82674931	T	C	3405	-0.12	0.03	0.00	0.01	19.61
rs76710109	secreting Treg AC CD39+	ebi-a-GCST90001495	10	131817745	C	T	3405	-0.16	0.03	0.00	0.01	20.80
rs10786199	secreting Treg AC CD39+	ebi-a-GCST90001495	10	97069472	A	G	3405	-0.19	0.03	0.00	0.01	44.17
rs11598645	secreting Treg AC CD39+	ebi-a-GCST90001495	10	68351521	C	T	3405	-0.63	0.14	0.00	0.01	21.04
rs11254133	secreting Treg AC CD39+	ebi-a-GCST90001495	10	16697829	T	C	3405	-0.17	0.04	0.00	0.01	20.27
rs72809762	secreting Treg AC CD39+	ebi-a-GCST90001495	10	97294154	T	C	3405	0.43	0.05	0.00	0.02	71.05
rs10882655	secreting Treg AC CD39+	ebi-a-GCST90001495	10	97474371	A	G	3405	-0.96	0.02	0.00	0.39	2197.52
rs11188757	secreting Treg AC CD39+	ebi-a-GCST90001495	10	98205222	C	A	3405	-0.25	0.03	0.00	0.02	64.46
rs202211780	secreting Treg AC	ebi-a-GCST90001495	10	97016742	G	A	3405	0.47	0.05	0.00	0.03	104.36

rs10882701	CD39+ secreting Treg AC CD39+	ebi-a-GCST90001495	10	97741071	C	A	3405	-0.41	0.03	0.00	0.07	258.92
rs7937686	secreting Treg AC CD39+	ebi-a-GCST90001495	11	130313067	G	C	3405	0.19	0.04	0.00	0.01	20.04
rs149951966	secreting Treg AC CD39+	ebi-a-GCST90001495	17	41137136	C	T	3405	0.21	0.04	0.00	0.01	22.22
rs11655883	secreting Treg AC CD39+	ebi-a-GCST90001495	17	75234757	G	A	3405	0.13	0.03	0.00	0.01	21.44
rs56216441	secreting Treg AC CD39+	ebi-a-GCST90001495	18	65545793	T	A	3405	-0.16	0.04	0.00	0.01	19.61
rs111461378	secreting Treg AC CD39+	ebi-a-GCST90001495	20	15575550	C	T	3405	-1.07	0.24	0.00	0.01	19.65
rs7267949	secreting Treg AC CD39+	ebi-a-GCST90001495	20	17586584	T	C	3405	-0.75	0.17	0.00	0.01	19.71
rs2836025	secreting Treg AC CD39+	ebi-a-GCST90001495	21	39232216	T	C	3405	-0.21	0.05	0.00	0.01	20.14
rs6005121	secreting Treg AC CD39+	ebi-a-GCST90001495	22	27065117	G	A	3405	-0.20	0.04	0.00	0.01	23.08
rs282011	secreting Treg %secreting CD39+	ebi-a-GCST90001496	1	91858207	T	C	3437	0.13	0.03	0.00	0.01	22.46
rs147911368	secreting Treg %secreting CD39+	ebi-a-GCST90001496	1	97319841	C	T	3437	-0.77	0.17	0.00	0.01	21.49
rs118006237	secreting Treg %secreting CD39+	ebi-a-GCST90001496	1	100480230	A	G	3437	1.99	0.41	0.00	0.01	23.17
rs2316911	secreting Treg %secreting CD39+	ebi-a-GCST90001496	2	236543890	C	T	3437	0.61	0.14	0.00	0.01	20.64
rs78458369	secreting Treg %secreting CD39+	ebi-a-GCST90001496	2	74164120	T	A	3437	2.40	0.50	0.00	0.01	22.68
rs2171655	secreting Treg %secreting CD39+	ebi-a-GCST90001496	2	127229166	C	A	3437	0.28	0.06	0.00	0.01	22.39
rs73037918	secreting Treg %secreting CD39+	ebi-a-GCST90001496	3	10923961	C	T	3437	-0.28	0.06	0.00	0.01	21.50
rs74346764	secreting Treg %secreting CD39+	ebi-a-GCST90001496	3	145230069	A	G	3437	-0.60	0.13	0.00	0.01	21.56
rs35796547	secreting Treg %secreting CD39+	ebi-a-GCST90001496	3	74432399	G	A	3437	0.13	0.03	0.00	0.01	24.19
rs11930070	secreting Treg %secreting CD39+	ebi-a-GCST90001496	4	54265667	A	G	3437	-0.61	0.13	0.00	0.01	20.85
rs17571942	secreting Treg %secreting	ebi-a-GCST90001496	5	29581038	G	T	3437	1.78	0.37	0.00	0.01	23.04

rs7774484	CD39+ secreting Treg %secreting CD39+	ebi-a-GCST90001496	6	7465057	T	G	3437	-0.40	0.09	0.00	0.01	19.61
rs2569847	secreting Treg %secreting CD39+	ebi-a-GCST90001496	6	1651973	G	A	3437	-0.14	0.03	0.00	0.01	20.59
rs10247216	secreting Treg %secreting CD39+	ebi-a-GCST90001496	7	97140811	T	C	3437	0.12	0.03	0.00	0.01	20.36
rs117748540	secreting Treg %secreting CD39+	ebi-a-GCST90001496	10	95002810	G	A	3437	-0.29	0.06	0.00	0.01	20.44
rs114844216	secreting Treg %secreting CD39+	ebi-a-GCST90001496	10	98158952	C	T	3437	0.61	0.06	0.00	0.03	102.92
rs4918960	secreting Treg %secreting CD39+	ebi-a-GCST90001496	10	97472570	A	T	3437	-0.94	0.02	0.00	0.39	2154.78
rs146426185	secreting Treg %secreting CD39+	ebi-a-GCST90001496	10	99452494	C	A	3437	-0.31	0.05	0.00	0.01	33.16
rs7910217	secreting Treg %secreting CD39+	ebi-a-GCST90001496	10	96999873	A	G	3437	0.25	0.03	0.00	0.02	59.68
rs147121076	secreting Treg %secreting CD39+	ebi-a-GCST90001496	10	95924521	G	T	3437	0.46	0.08	0.00	0.01	31.10
rs118047459	secreting Treg %secreting CD39+	ebi-a-GCST90001496	10	69891249	G	C	3437	0.44	0.10	0.00	0.01	20.58
rs117200502	secreting Treg %secreting CD39+	ebi-a-GCST90001496	10	97070990	T	C	3437	0.43	0.04	0.00	0.03	108.90
rs145557266	secreting Treg %secreting CD39+	ebi-a-GCST90001496	10	95850055	G	A	3437	0.74	0.09	0.00	0.02	66.20
rs10882701	secreting Treg %secreting CD39+	ebi-a-GCST90001496	10	97741071	C	A	3437	-0.40	0.03	0.00	0.07	259.80
rs11188950	secreting Treg %secreting CD39+	ebi-a-GCST90001496	10	98619863	G	T	3437	0.49	0.10	0.00	0.01	22.18
rs118111902	secreting Treg %secreting CD39+	ebi-a-GCST90001496	11	19624351	C	G	3437	0.47	0.10	0.00	0.01	23.80
rs7984101	secreting Treg %secreting CD39+	ebi-a-GCST90001496	13	43764296	A	G	3437	0.35	0.08	0.00	0.01	19.72
rs111461378	secreting Treg %secreting CD39+	ebi-a-GCST90001496	20	15575550	C	T	3437	-1.11	0.24	0.00	0.01	21.51
rs5769126	secreting Treg %secreting	ebi-a-GCST90001496	22	47135205	C	A	3437	0.13	0.03	0.00	0.01	24.37

rs282011	CD39+ secreting Treg %CD4 CD39+	ebi-a-GCST90001497	1	91858207	T	C	3437	0.12	0.03	0.00	0.01	20.01
rs118006237	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	1	100480230	A	G	3437	1.92	0.41	0.00	0.01	22.20
rs2171655	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	2	127229166	C	A	3437	0.26	0.06	0.00	0.01	20.27
rs78458369	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	2	74164120	T	A	3437	2.60	0.50	0.00	0.01	27.31
rs74346764	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	3	145230069	A	G	3437	-0.57	0.13	0.00	0.01	19.85
rs6805627	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	3	76155328	C	G	3437	0.23	0.05	0.00	0.01	20.29
rs11930070	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	4	54265667	A	G	3437	-0.59	0.13	0.00	0.01	20.09
rs17571942	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	5	29581038	G	T	3437	1.69	0.37	0.00	0.01	21.43
rs2569847	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	6	1651973	G	A	3437	-0.14	0.03	0.00	0.01	21.59
rs115364130	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	7	83238053	A	G	3437	-0.41	0.09	0.00	0.01	22.46
rs59428330	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	9	138051433	T	C	3437	0.29	0.06	0.00	0.01	23.07
rs114844216	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	10	98158952	C	T	3437	0.57	0.06	0.00	0.03	90.09
rs117200502	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	10	97070990	T	C	3437	0.41	0.04	0.00	0.03	101.08
rs61873892	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	10	100118038	T	C	3437	-0.37	0.08	0.00	0.01	23.45
rs145557266	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	10	95850055	G	A	3437	0.73	0.09	0.00	0.02	66.80
rs7910217	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	10	96999873	A	G	3437	0.25	0.03	0.00	0.02	61.66
rs10882701	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	10	97741071	C	A	3437	-0.40	0.02	0.00	0.07	256.73
rs146426185	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	10	99452494	C	A	3437	-0.30	0.05	0.00	0.01	33.19
rs7080854	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	10	116367153	A	G	3437	-0.13	0.03	0.00	0.01	21.80
rs147121076	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	10	95924521	G	T	3437	0.47	0.08	0.00	0.01	33.13
rs4918960	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	10	97472570	A	T	3437	-0.93	0.02	0.00	0.39	2175.11
rs111461378	secreting Treg %CD4 CD39+	ebi-a-GCST90001497	20	15575550	C	T	3437	-1.06	0.24	0.00	0.01	20.31
rs79919890	secreting Treg %CD4 Activated &	ebi-a-GCST90001497	22	47078385	T	C	3437	-0.21	0.05	0.00	0.01	20.05
rs144404462	resting Treg AC	ebi-a-GCST90001498	1	198005348	A	G	3405	0.44	0.09	0.00	0.01	26.34

rs6751481	Activated & resting Treg AC	ebi-a-GCST90001498	2	38897810	C	T	3405	0.15	0.02	0.00	0.01	36.49
rs55732147	Activated & resting Treg AC	ebi-a-GCST90001498	2	241675786	A	G	3405	0.12	0.03	0.00	0.01	19.99
rs408686	Activated & resting Treg AC	ebi-a-GCST90001498	2	39177320	A	C	3405	-0.16	0.03	0.00	0.01	25.46
rs146746694	Activated & resting Treg AC	ebi-a-GCST90001498	6	155566192	A	G	3405	0.56	0.12	0.00	0.01	21.50
rs2524084	Activated & resting Treg AC	ebi-a-GCST90001498	6	31241639	G	A	3405	-0.14	0.03	0.00	0.01	19.90
rs9272226	Activated & resting Treg AC	ebi-a-GCST90001498	6	32602396	T	C	3405	0.16	0.03	0.00	0.01	25.96
rs147199078	Activated & resting Treg AC	ebi-a-GCST90001498	7	80542211	C	T	3405	0.35	0.07	0.00	0.01	24.19
rs2108908	Activated & resting Treg AC	ebi-a-GCST90001498	7	152112789	C	A	3405	0.22	0.04	0.00	0.01	25.41
rs182630194	Activated & resting Treg AC	ebi-a-GCST90001498	7	71331239	A	G	3405	1.63	0.34	0.00	0.01	22.86
rs1819445	Activated & resting Treg AC	ebi-a-GCST90001498	9	96772051	A	G	3405	-0.16	0.04	0.00	0.01	21.19
rs12049737	Activated & resting Treg AC	ebi-a-GCST90001498	10	2614502	A	G	3405	0.26	0.05	0.00	0.01	23.15
rs78409263	Activated & resting Treg AC	ebi-a-GCST90001498	11	79202514	C	G	3405	-0.20	0.04	0.00	0.01	28.77
rs11850806	Activated & resting Treg AC	ebi-a-GCST90001498	14	78669137	G	T	3405	-0.61	0.13	0.00	0.01	21.63
rs66762238	Activated & resting Treg AC	ebi-a-GCST90001498	17	20792822	C	T	3405	-0.11	0.02	0.00	0.01	20.65
rs8064831	Activated & resting Treg AC	ebi-a-GCST90001498	17	10150766	T	C	3405	-0.12	0.03	0.00	0.01	20.88
rs9709738	Activated & resting Treg AC	ebi-a-GCST90001498	18	60137303	C	G	3405	-0.13	0.03	0.00	0.01	22.21
rs79684619	Activated & resting Treg AC	ebi-a-GCST90001498	18	64907349	G	A	3405	0.30	0.06	0.00	0.01	24.88
rs6074425	Activated & resting Treg AC	ebi-a-GCST90001498	20	1295889	A	G	3405	0.13	0.03	0.00	0.01	21.54
rs6587385	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	1	248047256	C	T	3437	0.13	0.03	0.00	0.01	23.23
rs113435341	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	1	198151688	G	A	3437	2.57	0.21	0.00	0.04	149.14
rs11579717	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	1	199999121	A	G	3437	1.82	0.18	0.00	0.03	103.56
rs187089343	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	1	182091538	C	A	3437	0.84	0.18	0.00	0.01	21.57
rs11577174	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	1	230492271	T	C	3437	-1.59	0.34	0.00	0.01	21.42
rs60220946	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	1	193505625	T	C	3437	0.42	0.08	0.00	0.01	26.38

rs116794175	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	1	194010208	C	T	3437	1.43	0.19	0.00	0.02	59.40
rs34645541	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	1	195875605	A	C	3437	0.61	0.13	0.00	0.01	23.47
rs75981740	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	1	5012020	G	A	3437	-0.22	0.05	0.00	0.01	21.93
rs12993274	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	2	42378770	C	A	3437	-0.15	0.03	0.00	0.01	20.38
rs6751481	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	2	38897810	C	T	3437	0.29	0.02	0.00	0.04	146.09
rs17607399	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	2	41884212	T	C	3437	0.22	0.04	0.00	0.01	30.99
rs413431	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	2	39176695	G	A	3437	-0.29	0.03	0.00	0.03	88.33
rs62322628	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	4	122780838	T	C	3437	0.80	0.18	0.00	0.01	20.38
rs11739607	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	5	27694229	C	T	3437	0.37	0.08	0.00	0.01	20.15
rs10059100	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	5	120100784	G	A	3437	-0.12	0.03	0.00	0.01	20.85
rs9265947	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	6	31315165	C	T	3437	-0.14	0.03	0.00	0.01	20.35
rs7825970	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	8	3414155	T	G	3437	-0.11	0.02	0.00	0.01	19.91
rs273421	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	8	132542825	C	G	3437	-0.15	0.03	0.00	0.01	22.02
rs79224901	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	8	3651438	C	G	3437	0.42	0.08	0.00	0.01	24.48
rs73579441	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	8	49024059	C	T	3437	0.22	0.05	0.00	0.01	20.64
rs79607503	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	9	135102542	A	G	3437	0.53	0.12	0.00	0.01	20.87
rs7893324	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	10	6111075	C	T	3437	-0.16	0.03	0.00	0.01	23.83
rs4759006	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	12	56009543	A	G	3437	-0.15	0.03	0.00	0.01	20.24
rs2148708	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	13	21794935	G	A	3437	0.21	0.05	0.00	0.01	20.48
rs186940149	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	13	36528979	T	A	3437	-0.34	0.08	0.00	0.01	20.10
rs79235233	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	14	92726328	G	C	3437	-0.29	0.07	0.00	0.01	20.39
rs562562	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	18	24263725	A	G	3437	-0.12	0.02	0.00	0.01	22.85
rs369976766	Activated & resting Treg % CD4 Treg	ebi-a-GCST90001499	22	28835840	A	T	3437	1.03	0.22	0.00	0.01	22.92
rs76882749	%CD4+	ebi-a-GCST90001500	1	54532130	C	T	3437	-0.48	0.10	0.00	0.01	22.25

rs147104104	Activated & resting Treg %CD4+	ebi-a-GCST90001500	1	208455675	C	T	3437	-0.25	0.06	0.00	0.01	19.60
rs17583875	Activated & resting Treg %CD4+	ebi-a-GCST90001500	1	197924770	A	G	3437	1.83	0.22	0.00	0.02	66.55
rs116794175	Activated & resting Treg %CD4+	ebi-a-GCST90001500	1	194010208	C	T	3437	0.97	0.19	0.00	0.01	25.91
rs190023756	Activated & resting Treg %CD4+	ebi-a-GCST90001500	1	199471227	A	G	3437	0.58	0.12	0.00	0.01	23.15
rs572410764	Activated & resting Treg %CD4+	ebi-a-GCST90001500	1	239509035	T	A	3437	1.60	0.34	0.00	0.01	22.33
rs6751481	Activated & resting Treg %CD4+	ebi-a-GCST90001500	2	38897810	C	T	3437	0.21	0.02	0.00	0.02	70.94
rs408686	Activated & resting Treg %CD4+	ebi-a-GCST90001500	2	39177320	A	C	3437	-0.22	0.03	0.00	0.01	47.97
rs6724848	Activated & resting Treg %CD4+	ebi-a-GCST90001500	2	38678651	A	G	3437	0.12	0.02	0.00	0.01	21.78
rs1371033	Activated & resting Treg %CD4+	ebi-a-GCST90001500	2	148248261	C	T	3437	-0.15	0.03	0.00	0.01	19.97
rs6733868	Activated & resting Treg %CD4+	ebi-a-GCST90001500	2	25499867	G	C	3437	-0.11	0.02	0.00	0.01	19.63
rs13410035	Activated & resting Treg %CD4+	ebi-a-GCST90001500	2	161139489	T	C	3437	-0.29	0.07	0.00	0.01	20.03
rs13006059	Activated & resting Treg %CD4+	ebi-a-GCST90001500	2	43022720	G	A	3437	-0.13	0.03	0.00	0.01	20.55
rs73009664	Activated & resting Treg %CD4+	ebi-a-GCST90001500	3	2721613	C	T	3437	0.46	0.10	0.00	0.01	21.06
rs62285107	Activated & resting Treg %CD4+	ebi-a-GCST90001500	4	1731279	T	C	3437	-0.20	0.04	0.00	0.01	22.09
rs17780836	Activated & resting Treg %CD4+	ebi-a-GCST90001500	5	58622934	T	C	3437	0.16	0.03	0.00	0.01	20.92
rs62390348	Activated & resting Treg %CD4+	ebi-a-GCST90001500	6	14892248	T	C	3437	0.54	0.12	0.00	0.01	21.36
rs9269074	Activated & resting Treg %CD4+	ebi-a-GCST90001500	6	32440792	A	G	3437	0.47	0.10	0.00	0.01	21.04
rs137997033	Activated & resting Treg %CD4+	ebi-a-GCST90001500	6	124005085	T	C	3437	1.04	0.23	0.00	0.01	20.75
rs2708609	Activated & resting Treg %CD4+	ebi-a-GCST90001500	7	112101909	A	T	3437	-0.16	0.04	0.00	0.01	20.63
rs56090633	Activated & resting Treg %CD4+	ebi-a-GCST90001500	7	51393519	T	A	3437	-0.12	0.03	0.00	0.01	21.15
rs76225340	Activated & resting Treg %CD4+	ebi-a-GCST90001500	8	3654985	T	G	3437	0.39	0.09	0.00	0.01	20.96
rs145165211	Activated & resting Treg %CD4+	ebi-a-GCST90001500	8	21371903	A	G	3437	-0.51	0.10	0.00	0.01	25.19
rs114400243	Activated & resting Treg %CD4+	ebi-a-GCST90001500	9	11577096	A	T	3437	-0.42	0.09	0.00	0.01	20.26
rs514150	Activated & resting Treg %CD4+	ebi-a-GCST90001500	10	8084573	C	T	3437	-0.12	0.03	0.00	0.01	21.66

rs1247730	Activated & resting Treg %CD4+	ebi-a-GCST90001500	11	79922768	T	C	3437	0.14	0.03	0.00	0.01	22.03
rs11109601	Activated & resting Treg %CD4+	ebi-a-GCST90001500	12	99174032	C	T	3437	0.50	0.11	0.00	0.01	20.78
rs61924635	Activated & resting Treg %CD4+	ebi-a-GCST90001500	12	25650645	C	T	3437	0.77	0.17	0.00	0.01	21.53
rs77071786	Activated & resting Treg %CD4+	ebi-a-GCST90001500	12	23501010	C	G	3437	-0.25	0.05	0.00	0.01	22.90
rs370689709	Activated & resting Treg %CD4+	ebi-a-GCST90001500	13	67699975	A	G	3437	0.73	0.16	0.00	0.01	21.67
rs186940149	Activated & resting Treg %CD4+	ebi-a-GCST90001500	13	36528979	T	A	3437	-0.35	0.08	0.00	0.01	19.78
rs113376235	Activated & resting Treg %CD4+	ebi-a-GCST90001500	16	75514711	A	C	3437	0.35	0.08	0.00	0.01	21.11
rs60174426	Activated & resting Treg %CD4+	ebi-a-GCST90001500	16	29355773	C	T	3437	-0.12	0.03	0.00	0.01	19.67
rs461709	Activated & resting Treg %CD4+	ebi-a-GCST90001500	19	47666711	A	G	3437	-0.13	0.03	0.00	0.01	22.26
rs11579717	secretory Treg AC	ebi-a-GCST90001501	1	199999121	A	G	3405	-1.18	0.19	0.00	0.01	37.18
rs113435341	secretory Treg AC	ebi-a-GCST90001501	1	198151688	G	A	3405	-2.02	0.23	0.00	0.02	78.15
rs76202906	secretory Treg AC	ebi-a-GCST90001501	1	113476831	A	C	3405	-0.36	0.07	0.00	0.01	22.88
rs112622820	secretory Treg AC	ebi-a-GCST90001501	1	225934912	A	G	3405	-0.68	0.15	0.00	0.01	20.80
rs138915779	secretory Treg AC	ebi-a-GCST90001501	1	190079170	A	C	3405	-1.52	0.24	0.00	0.01	41.04
rs115307639	secretory Treg AC	ebi-a-GCST90001501	4	98004266	G	T	3405	-3.27	0.72	0.00	0.01	20.63
rs138960714	secretory Treg AC	ebi-a-GCST90001501	4	123422719	C	A	3405	-2.39	0.52	0.00	0.01	21.17
rs114437347	secretory Treg AC	ebi-a-GCST90001501	4	86967620	C	G	3405	-3.87	0.84	0.00	0.01	21.11
rs75280379	secretory Treg AC	ebi-a-GCST90001501	6	121512597	C	T	3405	1.47	0.30	0.00	0.01	23.21
rs1268153	secretory Treg AC	ebi-a-GCST90001501	6	109035696	A	G	3405	0.85	0.17	0.00	0.01	23.80
rs17717645	secretory Treg AC	ebi-a-GCST90001501	7	18003774	C	T	3405	0.39	0.08	0.00	0.01	22.94
rs575051668	secretory Treg AC	ebi-a-GCST90001501	7	31426904	T	C	3405	-0.54	0.12	0.00	0.01	20.21
rs61839660	secretory Treg AC	ebi-a-GCST90001501	10	6094697	T	C	3405	0.33	0.06	0.00	0.01	33.44
rs10905876	secretory Treg AC	ebi-a-GCST90001501	10	6174601	G	A	3405	-0.12	0.03	0.00	0.01	20.32
rs56397630	secretory Treg AC	ebi-a-GCST90001501	10	105304351	C	T	3405	-2.99	0.68	0.00	0.01	19.59

rs75596315	Activated & secreting Treg AC	ebi-a-GCST90001501	12	122520112	T	C	3405	0.27	0.06	0.00	0.01	21.19
rs145600407	Activated & secreting Treg AC	ebi-a-GCST90001501	13	19280601	T	C	3405	-0.54	0.10	0.00	0.01	26.45
rs7162344	Activated & secreting Treg AC	ebi-a-GCST90001501	15	26030485	A	G	3405	-0.12	0.03	0.00	0.01	21.92
rs153054	Activated & secreting Treg AC	ebi-a-GCST90001501	16	69446054	G	A	3405	1.40	0.31	0.00	0.01	19.90
rs147638541	Activated & secreting Treg AC	ebi-a-GCST90001501	17	66206097	G	A	3405	-1.38	0.29	0.00	0.01	21.89
rs149951966	Activated & secreting Treg AC	ebi-a-GCST90001501	17	41137136	C	T	3405	0.21	0.04	0.00	0.01	22.37
rs72833913	Activated & secreting Treg AC	ebi-a-GCST90001501	17	5713335	A	C	3405	0.19	0.04	0.00	0.01	19.79
rs9709738	Activated & secreting Treg AC	ebi-a-GCST90001501	18	60137303	C	G	3405	-0.13	0.03	0.00	0.01	20.23
rs61828007	Activated & secreting Treg %CD4	ebi-a-GCST90001502	1	203502968	G	A	3437	-0.36	0.07	0.00	0.01	27.00
rs11579717	Activated & secreting Treg %CD4	ebi-a-GCST90001502	1	199999121	A	G	3437	-1.82	0.17	0.00	0.03	119.83
rs72651876	Activated & secreting Treg %CD4	ebi-a-GCST90001502	1	19206027	T	C	3437	-0.11	0.03	0.00	0.01	20.34
rs138915779	Activated & secreting Treg %CD4	ebi-a-GCST90001502	1	190079170	A	C	3437	-1.78	0.20	0.00	0.02	76.28
rs60220946	Activated & secreting Treg %CD4	ebi-a-GCST90001502	1	193505625	T	C	3437	-0.41	0.08	0.00	0.01	27.86
rs150956189	Activated & secreting Treg %CD4	ebi-a-GCST90001502	1	214625781	C	T	3437	-2.62	0.57	0.00	0.01	21.31
rs146899923	Activated & secreting Treg %CD4	ebi-a-GCST90001502	1	195919849	C	T	3437	-0.75	0.12	0.00	0.01	36.46
rs187089343	Activated & secreting Treg %CD4	ebi-a-GCST90001502	1	182091538	C	A	3437	-1.00	0.17	0.00	0.01	34.56
rs113435341	Activated & secreting Treg %CD4	ebi-a-GCST90001502	1	198151688	G	A	3437	-2.62	0.20	0.00	0.05	179.27
rs3917863	Activated & secreting Treg %CD4	ebi-a-GCST90001502	1	169592401	A	G	3437	-0.43	0.09	0.00	0.01	22.05
rs7530076	Activated & secreting Treg %CD4	ebi-a-GCST90001502	1	195825276	A	G	3437	0.46	0.07	0.00	0.01	39.09
rs139681117	Activated & secreting Treg %CD4	ebi-a-GCST90001502	2	23924920	T	C	3437	-0.23	0.05	0.00	0.01	20.66
rs13000564	Activated & secreting Treg %CD4	ebi-a-GCST90001502	2	41596014	C	T	3437	0.11	0.02	0.00	0.01	21.04
rs115669925	Activated & secreting Treg %CD4	ebi-a-GCST90001502	2	111442886	A	G	3437	4.11	0.90	0.00	0.01	20.66
rs413431	Activated & secreting Treg %CD4	ebi-a-GCST90001502	2	39176695	G	A	3437	0.27	0.03	0.00	0.02	87.91
rs189383	Activated & secreting Treg %CD4	ebi-a-GCST90001502	2	8709770	C	T	3437	0.13	0.03	0.00	0.01	19.98

rs115907036	Activated & secreting Treg %CD4	ebi-a-GCST90001502	2	37537677	T	C	3437	-0.42	0.10	0.00	0.01	19.58
rs112553628	Activated & secreting Treg %CD4	ebi-a-GCST90001502	2	38077329	G	A	3437	-0.29	0.06	0.00	0.01	22.37
rs17607399	Activated & secreting Treg %CD4	ebi-a-GCST90001502	2	41884212	T	C	3437	-0.21	0.04	0.00	0.01	31.96
rs6751481	Activated & secreting Treg %CD4	ebi-a-GCST90001502	2	38897810	C	T	3437	-0.29	0.02	0.00	0.05	169.82
rs78181865	Activated & secreting Treg %CD4	ebi-a-GCST90001502	3	84481659	A	G	3437	-2.71	0.60	0.00	0.01	20.71
rs138960714	Activated & secreting Treg %CD4	ebi-a-GCST90001502	4	123422719	C	A	3437	-2.12	0.45	0.00	0.01	22.17
rs10059100	Activated & secreting Treg %CD4	ebi-a-GCST90001502	5	120100784	G	A	3437	0.12	0.02	0.00	0.01	24.84
rs112637846	Activated & secreting Treg %CD4	ebi-a-GCST90001502	6	149114553	A	C	3437	-2.71	0.60	0.00	0.01	20.67
rs1634783	Activated & secreting Treg %CD4	ebi-a-GCST90001502	6	31283604	A	G	3437	0.13	0.03	0.00	0.01	20.33
rs11969660	Activated & secreting Treg %CD4	ebi-a-GCST90001502	6	14395373	T	C	3437	-0.21	0.05	0.00	0.01	20.08
rs9274712	Activated & secreting Treg %CD4	ebi-a-GCST90001502	6	32637298	T	C	3437	0.17	0.03	0.00	0.01	25.06
rs273421	Activated & secreting Treg %CD4	ebi-a-GCST90001502	8	132542825	C	G	3437	0.13	0.03	0.00	0.01	19.74
rs76109501	Activated & secreting Treg %CD4	ebi-a-GCST90001502	8	28323922	A	G	3437	-0.84	0.19	0.00	0.01	20.43
rs73579441	Activated & secreting Treg %CD4	ebi-a-GCST90001502	8	49024059	C	T	3437	-0.20	0.04	0.00	0.01	19.60
rs12722496	Activated & secreting Treg %CD4	ebi-a-GCST90001502	10	6096667	G	A	3437	0.22	0.05	0.00	0.01	20.43
rs192123974	Activated & secreting Treg %CD4	ebi-a-GCST90001502	11	13923816	T	C	3437	-1.55	0.31	0.00	0.01	24.17
rs145406940	Activated & secreting Treg %CD4	ebi-a-GCST90001502	12	23093493	A	G	3437	1.97	0.42	0.00	0.01	21.58
rs138463974	Activated & secreting Treg %CD4	ebi-a-GCST90001502	12	132114547	G	A	3437	-0.74	0.16	0.00	0.01	20.38
rs116850494	Activated & secreting Treg %CD4	ebi-a-GCST90001502	13	60389778	A	G	3437	-0.44	0.09	0.00	0.01	21.93
rs191384725	Activated & secreting Treg %CD4	ebi-a-GCST90001502	16	7628264	G	A	3437	-0.85	0.19	0.00	0.01	20.44
rs568546879	Activated & secreting Treg %CD4	ebi-a-GCST90001502	18	33878112	C	G	3437	-0.75	0.17	0.00	0.01	19.79
rs112455863	Activated & secreting Treg %CD4	ebi-a-GCST90001502	20	20514860	G	A	3437	0.69	0.15	0.00	0.01	20.58
rs113000944	Activated & secreting Treg %CD4	ebi-a-GCST90001502	20	48836592	T	C	3437	-0.23	0.05	0.00	0.01	24.70
rs11579717	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	1	199999121	A	G	3437	-1.57	0.19	0.00	0.02	71.86

rs146512168	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	1	182579163	C	T	3437	-2.49	0.55	0.00	0.01	20.87
rs10925924	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	1	239767145	G	T	3437	-0.19	0.04	0.00	0.01	25.45
rs143290109	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	1	103543193	T	C	3437	-2.09	0.47	0.00	0.01	19.79
rs138915779	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	1	190079170	A	C	3437	-1.57	0.23	0.00	0.01	47.42
rs113435341	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	1	198151688	G	A	3437	-2.11	0.22	0.00	0.03	92.35
rs35378667	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	1	205001095	C	T	3437	-0.53	0.10	0.00	0.01	26.53
rs12712610	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	2	38897249	G	A	3437	-0.16	0.03	0.00	0.01	32.61
rs73155096	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	3	149610852	G	C	3437	-0.74	0.16	0.00	0.01	21.43
rs4685759	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	3	4602572	G	C	3437	-0.11	0.02	0.00	0.01	20.02
rs6438325	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	3	116384674	C	A	3437	-0.18	0.04	0.00	0.01	23.58
rs114437347	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	4	86967620	C	G	3437	-3.73	0.81	0.00	0.01	21.21
rs186715000	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	4	1589324	G	A	3437	-2.14	0.47	0.00	0.01	21.00
rs2668533	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	4	54555201	T	C	3437	-0.13	0.03	0.00	0.01	21.83
rs138960714	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	4	123422719	C	A	3437	-2.92	0.50	0.00	0.01	34.31
rs12642085	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	4	57549528	T	C	3437	-0.11	0.03	0.00	0.01	19.55
rs117947776	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	6	103491045	C	G	3437	-2.45	0.55	0.00	0.01	20.06
rs74830391	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	7	37427289	T	C	3437	0.20	0.04	0.00	0.01	30.33
rs2958568	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	8	19426186	C	A	3437	0.12	0.03	0.00	0.01	22.71
rs61839660	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	10	6094697	T	C	3437	0.41	0.06	0.00	0.02	55.14
rs11256966	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	10	6185310	G	C	3437	-0.16	0.03	0.00	0.01	35.59
rs149375589	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	11	67333370	G	T	3437	-2.84	0.59	0.00	0.01	22.81
rs11221698	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	11	129253988	T	C	3437	-0.14	0.03	0.00	0.01	20.39
rs17465223	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	12	23612754	A	G	3437	-0.17	0.04	0.00	0.01	22.01
rs145444215	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	14	103258906	A	G	3437	-1.99	0.42	0.00	0.01	22.84

rs4901222	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	14	38241882	T	C	3437	-2.84	0.59	0.00	0.01	22.76
rs1465510	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	15	39046198	A	G	3437	-0.12	0.03	0.00	0.01	20.12
rs149703905	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	16	88710635	G	A	3437	-2.48	0.55	0.00	0.01	20.68
rs140078626	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	16	28651774	G	C	3437	0.20	0.05	0.00	0.01	19.97
rs11655776	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	17	2761413	G	A	3437	0.23	0.05	0.00	0.01	19.91
rs143166038	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	19	43502925	A	G	3437	1.33	0.29	0.00	0.01	20.83
rs6065288	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	20	39567774	T	C	3437	0.14	0.03	0.00	0.01	21.12
rs147838148	Activated & secreting Treg %CD4+	ebi-a-GCST90001503	22	47814108	G	T	3437	-2.66	0.48	0.00	0.01	31.05
rs12145444	CD25hi AC	ebi-a-GCST90001504	1	198008884	A	C	3405	0.17	0.04	0.00	0.01	20.23
rs61817905	CD25hi AC	ebi-a-GCST90001504	1	113666355	T	G	3405	-0.19	0.04	0.00	0.01	21.43
rs6541307	CD25hi AC	ebi-a-GCST90001504	1	230100836	T	A	3405	0.30	0.07	0.00	0.01	19.87
rs78193200	CD25hi AC	ebi-a-GCST90001504	1	149148053	A	G	3405	-0.48	0.10	0.00	0.01	21.08
rs150956240	CD25hi AC	ebi-a-GCST90001504	2	21238984	G	A	3405	0.66	0.14	0.00	0.01	22.81
rs7560118	CD25hi AC	ebi-a-GCST90001504	2	225186492	T	C	3405	-0.18	0.04	0.00	0.01	19.57
rs188501834	CD25hi AC	ebi-a-GCST90001504	3	165293521	A	G	3405	-0.72	0.16	0.00	0.01	19.81
rs79749232	CD25hi AC	ebi-a-GCST90001504	5	141144312	A	G	3405	0.63	0.14	0.00	0.01	19.78
rs9343914	CD25hi AC	ebi-a-GCST90001504	6	80166444	T	C	3405	-0.16	0.04	0.00	0.01	20.38
rs507492	CD25hi AC	ebi-a-GCST90001504	6	109031005	C	G	3405	0.72	0.15	0.00	0.01	23.22
rs17717645	CD25hi AC	ebi-a-GCST90001504	7	18003774	C	T	3405	0.39	0.08	0.00	0.01	22.56
rs140960913	CD25hi AC	ebi-a-GCST90001504	7	158180337	T	C	3405	0.36	0.08	0.00	0.01	21.03
rs61839660	CD25hi AC	ebi-a-GCST90001504	10	6094697	T	C	3405	0.46	0.06	0.00	0.02	66.83
rs137903114	CD25hi AC	ebi-a-GCST90001504	11	130770585	C	T	3405	-0.98	0.21	0.00	0.01	21.22
rs11217768	CD25hi AC	ebi-a-GCST90001504	11	120086680	A	G	3405	1.71	0.38	0.00	0.01	20.40
rs79596262	CD25hi AC	ebi-a-GCST90001504	13	38859265	A	G	3405	1.53	0.34	0.00	0.01	19.95
rs145600407	CD25hi AC	ebi-a-GCST90001504	13	19280601	T	C	3405	-0.48	0.10	0.00	0.01	20.96
rs117676560	CD25hi AC	ebi-a-GCST90001504	13	74976559	A	G	3405	-0.38	0.09	0.00	0.01	19.74
rs142289362	CD25hi AC	ebi-a-GCST90001504	16	77778611	A	G	3405	0.49	0.10	0.00	0.01	23.62
rs188505795	CD25hi AC	ebi-a-GCST90001504	16	28223373	T	G	3405	0.30	0.07	0.00	0.01	20.03
rs117614870	CD25hi AC	ebi-a-GCST90001504	17	63857170	T	C	3405	0.64	0.14	0.00	0.01	20.10
rs149951966	CD25hi AC	ebi-a-GCST90001504	17	41137136	C	T	3405	0.22	0.04	0.00	0.01	24.34
rs11697981	CD25hi AC	ebi-a-GCST90001504	20	43093014	C	T	3405	0.18	0.04	0.00	0.01	21.75
rs6131700	CD25hi AC	ebi-a-GCST90001504	20	15742230	C	G	3405	-0.36	0.08	0.00	0.01	23.01
rs2019002	CD25hi AC	ebi-a-GCST90001504	22	25652094	A	G	3405	0.12	0.03	0.00	0.01	21.45
rs140655813	CD25hi %CD4+	ebi-a-GCST90001505	1	163746986	T	C	3437	-0.40	0.09	0.00	0.01	20.98
rs181741769	CD25hi %CD4+	ebi-a-GCST90001505	1	26999658	C	T	3437	1.19	0.27	0.00	0.01	19.69
rs115815681	CD25hi %CD4+	ebi-a-GCST90001505	1	149047683	A	C	3437	-0.58	0.12	0.00	0.01	23.25
rs60148251	CD25hi %CD4+	ebi-a-GCST90001505	1	11819596	T	C	3437	0.12	0.03	0.00	0.01	19.56
rs79327855	CD25hi %CD4+	ebi-a-GCST90001505	3	144158111	T	C	3437	-1.79	0.39	0.00	0.01	21.17
rs56107686	CD25hi %CD4+	ebi-a-GCST90001505	3	189510063	T	C	3437	0.22	0.05	0.00	0.01	20.27

rs3732449	CD25hi %CD4+	ebi-a-GCST90001505	3	170198898	T	C	3437	0.14	0.03	0.00	0.01	19.92
rs419099	CD25hi %CD4+	ebi-a-GCST90001505	5	102089442	G	A	3437	-0.13	0.03	0.00	0.01	19.69
rs9268791	CD25hi %CD4+	ebi-a-GCST90001505	6	32421073	C	T	3437	-0.16	0.03	0.00	0.01	22.69
rs7831142	CD25hi %CD4+	ebi-a-GCST90001505	8	1673599	A	G	3437	0.15	0.03	0.00	0.01	21.54
rs117760133	CD25hi %CD4+	ebi-a-GCST90001505	8	129187397	T	G	3437	0.23	0.05	0.00	0.01	22.26
rs2448157	CD25hi %CD4+	ebi-a-GCST90001505	8	98470579	C	T	3437	-0.19	0.04	0.00	0.01	19.64
rs114400243	CD25hi %CD4+	ebi-a-GCST90001505	9	11577096	A	T	3437	-0.45	0.10	0.00	0.01	22.03
rs71479760	CD25hi %CD4+	ebi-a-GCST90001505	10	6183872	A	C	3437	-0.14	0.03	0.00	0.01	26.36
rs61839660	CD25hi %CD4+	ebi-a-GCST90001505	10	6094697	T	C	3437	0.59	0.06	0.00	0.03	115.41
rs11603619	CD25hi %CD4+	ebi-a-GCST90001505	11	12094804	A	G	3437	-0.48	0.10	0.00	0.01	23.35
rs11221698	CD25hi %CD4+	ebi-a-GCST90001505	11	129253988	T	C	3437	-0.14	0.03	0.00	0.01	19.60
rs116928928	CD25hi %CD4+	ebi-a-GCST90001505	11	32030595	C	T	3437	-0.30	0.07	0.00	0.01	21.20
rs7305147	CD25hi %CD4+	ebi-a-GCST90001505	12	23524261	C	T	3437	0.18	0.04	0.00	0.01	21.46
rs537403506	CD25hi %CD4+	ebi-a-GCST90001505	12	69385641	A	G	3437	0.32	0.07	0.00	0.01	20.09
rs12819777	CD25hi %CD4+	ebi-a-GCST90001505	12	39382086	A	G	3437	0.15	0.03	0.00	0.01	20.83
rs140078626	CD25hi %CD4+	ebi-a-GCST90001505	16	28651774	G	C	3437	0.21	0.05	0.00	0.01	19.92
rs74553250	CD25hi %CD4+	ebi-a-GCST90001505	17	40063525	T	C	3437	-0.18	0.04	0.00	0.01	20.96
rs117614870	CD25hi %CD4+	ebi-a-GCST90001505	17	63857170	T	C	3437	0.64	0.14	0.00	0.01	20.56
rs12458491	CD25hi %CD4+	ebi-a-GCST90001505	18	35307820	T	A	3437	0.45	0.09	0.00	0.01	24.21
rs80266752	CD25hi %CD4+	ebi-a-GCST90001505	20	52010540	C	G	3437	0.33	0.07	0.00	0.01	24.86
rs6131700	CD25hi %CD4+	ebi-a-GCST90001505	20	15742230	C	G	3437	-0.34	0.07	0.00	0.01	20.42
rs78193200	CD25hi %T cell	ebi-a-GCST90001506	1	149148053	A	G	3437	-0.46	0.10	0.00	0.01	20.78
rs115815681	CD25hi %T cell	ebi-a-GCST90001506	1	149047683	A	C	3437	-0.59	0.12	0.00	0.01	24.05
rs113339346	CD25hi %T cell	ebi-a-GCST90001506	2	42801648	T	C	3437	0.25	0.05	0.00	0.01	21.70
rs79327855	CD25hi %T cell	ebi-a-GCST90001506	3	144158111	T	C	3437	-2.02	0.39	0.00	0.01	26.86
rs6771179	CD25hi %T cell	ebi-a-GCST90001506	3	14769598	G	C	3437	-0.12	0.03	0.00	0.01	21.23
rs2403273	CD25hi %T cell	ebi-a-GCST90001506	4	1760374	G	C	3437	-0.18	0.04	0.00	0.01	20.93
rs1558501	CD25hi %T cell	ebi-a-GCST90001506	4	55482148	C	G	3437	-0.13	0.03	0.00	0.01	20.56
rs419099	CD25hi %T cell	ebi-a-GCST90001506	5	102089442	G	A	3437	-0.14	0.03	0.00	0.01	23.80
rs62392327	CD25hi %T cell	ebi-a-GCST90001506	5	145144060	C	T	3437	-0.52	0.12	0.00	0.01	20.17
rs4587210	CD25hi %T cell	ebi-a-GCST90001506	6	1543191	T	C	3437	0.12	0.03	0.00	0.01	20.86
rs117469911	CD25hi %T cell	ebi-a-GCST90001506	7	79791344	A	C	3437	-0.92	0.20	0.00	0.01	22.13
rs183422804	CD25hi %T cell	ebi-a-GCST90001506	8	90678452	G	A	3437	-0.83	0.18	0.00	0.01	20.47
rs139753341	CD25hi %T cell	ebi-a-GCST90001506	9	124831580	T	G	3437	0.28	0.06	0.00	0.01	20.17
rs2004605	CD25hi %T cell	ebi-a-GCST90001506	9	37391292	T	C	3437	0.13	0.03	0.00	0.01	22.07
rs61839660	CD25hi %T cell	ebi-a-GCST90001506	10	6094697	T	C	3437	0.52	0.06	0.00	0.02	85.88
rs62626343	CD25hi %T cell	ebi-a-GCST90001506	10	6128374	G	C	3437	0.15	0.03	0.00	0.01	22.27

rs71506285	CD25hi %T cell	ebi-a-GCST90001506	10	59399542	C	T	3437	0.38	0.09	0.00	0.01	19.58
rs58498656	CD25hi %T cell	ebi-a-GCST90001506	11	127075073	A	T	3437	-0.24	0.05	0.00	0.01	20.83
rs12325554	CD25hi %T cell	ebi-a-GCST90001506	16	84053417	C	G	3437	0.49	0.10	0.00	0.01	21.56
rs11869223	CD25hi %T cell	ebi-a-GCST90001506	17	33775713	G	C	3437	-0.12	0.03	0.00	0.01	21.73
rs2702579	CD25hi %T cell	ebi-a-GCST90001506	18	71659838	T	C	3437	-0.27	0.06	0.00	0.01	21.07
rs141382158	CD25hi %T cell	ebi-a-GCST90001506	20	590294	G	C	3437	0.25	0.06	0.00	0.01	19.88
rs67691565	CD25hi %T cell	ebi-a-GCST90001506	20	52169857	A	G	3437	-0.18	0.04	0.00	0.01	22.62
rs144350975	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	1	188000439	A	C	3405	0.44	0.08	0.00	0.01	27.09
rs141541045	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	1	182131075	T	A	3405	0.76	0.16	0.00	0.01	22.79
rs180839256	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	1	200021804	C	T	3405	0.72	0.15	0.00	0.01	24.38
rs55728470	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	1	244367408	G	A	3405	0.51	0.11	0.00	0.01	20.19
rs116794175	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	1	194010208	C	T	3405	1.03	0.20	0.00	0.01	26.56
rs116517602	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	1	198922068	T	C	3405	1.72	0.19	0.00	0.02	80.98
rs11124653	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	2	39112166	A	C	3405	-0.19	0.03	0.00	0.01	48.55
rs114780506	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	2	104762054	T	A	3405	3.54	0.79	0.00	0.01	19.89
rs12712610	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	2	38897249	G	A	3405	0.23	0.03	0.00	0.02	68.11
rs17607399	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	2	41884212	T	C	3405	0.20	0.04	0.00	0.01	21.67
rs11693193	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	2	120485053	A	G	3405	-0.19	0.04	0.00	0.01	19.70
rs116368402	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	3	145915913	T	C	3405	-0.29	0.06	0.00	0.01	20.35
rs76537963	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	4	93093634	T	C	3405	0.42	0.10	0.00	0.01	19.64
rs28446907	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	5	109149543	G	A	3405	-0.81	0.16	0.00	0.01	25.21
rs75798204	CD25hi CD45RA+ CD4 not Treg AC	ebi-a-GCST90001507	5	129494174	T	C	3405	-0.96	0.20	0.00	0.01	23.28

rs73777152	CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001507	5	106225233	T	C	3405	-0.31	0.07	0.00	0.01	21.04
rs10905719	AC CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001507	10	6115171	A	G	3405	0.16	0.03	0.00	0.01	23.57
rs75958070	AC CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001507	11	79203049	C	G	3405	-0.21	0.04	0.00	0.01	26.40
rs112238613	AC CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001507	11	110766468	C	T	3405	1.57	0.33	0.00	0.01	22.38
rs79536602	AC CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001507	15	78621679	G	T	3405	0.47	0.10	0.00	0.01	23.74
rs1645894	AC CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001507	16	57340615	C	G	3405	-0.16	0.03	0.00	0.01	20.91
rs117882514	AC CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001507	18	6105334	C	A	3405	0.32	0.07	0.00	0.01	20.01
rs116034876	AC CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001507	19	17018604	G	A	3405	0.25	0.06	0.00	0.01	19.63
rs75952429	AC CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001507	19	15750527	G	T	3405	0.31	0.06	0.00	0.01	22.82
rs148388592	AC CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001507	19	16483486	A	G	3405	0.33	0.07	0.00	0.01	23.94
rs1018576	AC CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001507	20	1298257	G	C	3405	0.13	0.03	0.00	0.01	20.14
rs57061667	AC CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001507	22	24096941	G	A	3405	-0.15	0.03	0.00	0.01	21.00
rs182812626	AC CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	1	189980053	G	C	3437	1.07	0.21	0.00	0.01	26.81
rs116517602	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	1	198922068	T	C	3437	1.94	0.19	0.00	0.03	103.75
rs77180728	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	1	226986331	C	G	3437	-0.16	0.04	0.00	0.01	19.90
rs180839256	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	1	200021804	C	T	3437	0.76	0.14	0.00	0.01	27.85
rs61836370	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	1	188691469	G	A	3437	0.63	0.11	0.00	0.01	34.59
rs141541045	%CD4+ CD45RA+ CD4 not Treg	ebi-a-GCST90001508	1	182131075	T	A	3437	0.74	0.16	0.00	0.01	22.42

rs17022951	CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	2	38807441	A	G	3437	0.34	0.07	0.00	0.01	22.36
rs11124653	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	2	39112166	A	C	3437	-0.21	0.03	0.00	0.02	66.35
rs13024840	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	2	38895920	A	T	3437	0.28	0.03	0.00	0.03	90.10
rs114780506	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	2	104762054	T	A	3437	3.69	0.79	0.00	0.01	22.01
rs1430018	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	2	38132316	C	T	3437	-0.23	0.04	0.00	0.01	28.25
rs56000618	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	2	175199869	T	G	3437	0.12	0.03	0.00	0.01	20.02
rs71339620	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	2	87854860	G	T	3437	0.13	0.03	0.00	0.01	19.68
rs114437347	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	4	86967620	C	G	3437	3.89	0.85	0.00	0.01	21.17
rs28446907	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	5	109149543	G	A	3437	-0.73	0.16	0.00	0.01	20.79
rs75798204	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	5	129494174	T	C	3437	-0.88	0.20	0.00	0.01	19.72
rs73329062	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	7	44763296	A	G	3437	-0.68	0.15	0.00	0.01	20.32
rs73579441	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	8	49024059	C	T	3437	0.23	0.05	0.00	0.01	19.90
rs13260343	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	8	14028645	G	A	3437	-0.11	0.03	0.00	0.01	20.22
rs1264473	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	8	102431583	T	C	3437	0.11	0.03	0.00	0.01	19.61
rs150635171	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	9	137525725	T	C	3437	0.45	0.10	0.00	0.01	20.13
rs117626397	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	10	131423918	G	A	3437	3.01	0.59	0.00	0.01	26.28
rs10905719	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	10	6115171	A	G	3437	0.18	0.03	0.00	0.01	33.67
rs11195783	%CD4+ CD45RA+ CD4 not Treg	ebi-a-GCST90001508	10	113754024	A	G	3437	-0.15	0.03	0.00	0.01	20.85

rs75958070	CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	11	79203049	C	G	3437	-0.18	0.04	0.00	0.01	20.36
rs149541387	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	12	15408104	A	T	3437	0.40	0.09	0.00	0.01	21.09
rs116850494	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	13	60389778	A	G	3437	0.49	0.11	0.00	0.01	20.87
rs79536602	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	15	78621679	G	T	3437	0.46	0.10	0.00	0.01	22.37
rs1645894	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	16	57340615	C	G	3437	-0.15	0.03	0.00	0.01	20.05
rs28592611	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	16	78381297	T	G	3437	0.14	0.03	0.00	0.01	25.71
rs12958644	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	18	6060693	C	A	3437	0.27	0.05	0.00	0.01	25.66
rs149429639	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	18	42913522	C	T	3437	1.78	0.37	0.00	0.01	22.70
rs188418491	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	19	777304	G	A	3437	2.22	0.48	0.00	0.01	20.93
rs274814	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	19	20836911	C	T	3437	0.19	0.04	0.00	0.01	19.81
rs738595	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001508	22	49372052	C	T	3437	0.13	0.03	0.00	0.01	20.22
rs180839256	%CD4+ CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	1	200021804	C	T	3437	0.74	0.14	0.00	0.01	26.06
rs61836370	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	1	188691469	G	A	3437	0.61	0.11	0.00	0.01	32.07
rs76432001	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	1	245389000	A	C	3437	-0.39	0.09	0.00	0.01	19.59
rs144350975	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	1	188000439	A	C	3437	0.40	0.08	0.00	0.01	24.20
rs116517602	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	1	198922068	T	C	3437	1.88	0.19	0.00	0.03	96.72
rs11124653	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	2	39112166	A	C	3437	-0.20	0.03	0.00	0.02	55.18
rs72797312	%T cell CD45RA+ CD4 not Treg	ebi-a-GCST90001509	2	38999003	T	A	3437	-0.15	0.03	0.00	0.01	19.91

rs13024840	CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	2	38895920	A	T	3437	0.25	0.03	0.00	0.02	71.37
rs17607399	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	2	41884212	T	C	3437	0.20	0.04	0.00	0.01	22.98
rs78032501	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	2	227684292	C	G	3437	-0.80	0.18	0.00	0.01	20.16
rs114780506	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	2	104762054	T	A	3437	3.74	0.79	0.00	0.01	22.60
rs114437347	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	4	86967620	C	G	3437	3.80	0.84	0.00	0.01	20.20
rs75798204	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	5	129494174	T	C	3437	-0.88	0.20	0.00	0.01	19.58
rs28446907	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	5	109149543	G	A	3437	-0.74	0.16	0.00	0.01	21.03
rs67017865	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	8	138060119	A	T	3437	0.19	0.04	0.00	0.01	19.81
rs4876568	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	8	115299703	T	G	3437	-0.48	0.10	0.00	0.01	21.88
rs1264473	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	8	102431583	T	C	3437	0.12	0.03	0.00	0.01	20.72
rs117626397	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	10	131423918	G	A	3437	2.96	0.59	0.00	0.01	25.46
rs10905719	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	10	6115171	A	G	3437	0.17	0.03	0.00	0.01	29.87
rs144105723	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	10	119138812	G	A	3437	0.24	0.05	0.00	0.01	21.44
rs75958070	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	11	79203049	C	G	3437	-0.19	0.04	0.00	0.01	23.59
rs112238613	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	11	110766468	C	T	3437	1.47	0.33	0.00	0.01	19.63
rs79536602	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	15	78621679	G	T	3437	0.46	0.10	0.00	0.01	22.34
rs28592611	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	16	78381297	T	G	3437	0.14	0.03	0.00	0.01	24.97
rs149429639	%T cell CD45RA+ CD4 not Treg	ebi-a-GCST90001509	18	42913522	C	T	3437	1.78	0.37	0.00	0.01	22.60

rs117882514	CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	18	6105334	C	A	3437	0.35	0.07	0.00	0.01	24.93
rs117520868	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	19	16580644	A	C	3437	0.33	0.07	0.00	0.01	21.13
rs188418491	%T cell CD25hi CD45RA+ CD4 not Treg	ebi-a-GCST90001509	19	777304	G	A	3437	2.21	0.48	0.00	0.01	20.71
rs78193200	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	1	149148053	A	G	3405	-0.48	0.10	0.00	0.01	20.95
rs11579717	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	1	199999121	A	G	3405	-1.04	0.19	0.00	0.01	28.70
rs61817905	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	1	113666355	T	G	3405	-0.19	0.04	0.00	0.01	20.71
rs113435341	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	1	198151688	G	A	3405	-1.68	0.23	0.00	0.02	53.62
rs138915779	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	1	190079170	A	C	3405	-1.15	0.24	0.00	0.01	23.48
rs150956240	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	2	21238984	G	A	3405	0.64	0.14	0.00	0.01	21.23
rs115575166	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	2	38573789	A	G	3405	-0.56	0.12	0.00	0.01	21.86
rs60349936	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	4	32957041	A	T	3405	0.31	0.06	0.00	0.01	23.11
rs139310498	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	6	168197693	A	G	3405	1.21	0.27	0.00	0.01	19.57
rs73176863	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	7	156112045	T	G	3405	2.34	0.52	0.00	0.01	19.96
rs2596120	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	8	76660230	A	G	3405	-0.14	0.03	0.00	0.01	22.10
rs61839660	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	10	6094697	T	C	3405	0.55	0.06	0.00	0.03	95.82
rs137903114	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	11	130770585	C	T	3405	-0.97	0.21	0.00	0.01	20.90
rs61045067	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	12	47505424	A	G	3405	-0.19	0.04	0.00	0.01	20.02
rs79596262	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	13	38859265	A	G	3405	1.58	0.35	0.00	0.01	20.91

rs144999003	CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	15	33593233	T	C	3405	0.94	0.20	0.00	0.01	22.44
rs143283244	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	15	94643151	A	G	3405	-2.41	0.50	0.00	0.01	23.11
rs142289362	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	16	77778611	A	G	3405	0.50	0.10	0.00	0.01	24.01
rs117614870	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	17	63857170	T	C	3405	0.71	0.14	0.00	0.01	24.13
rs72942206	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	18	55275584	A	G	3405	0.15	0.03	0.00	0.01	21.87
rs187133679	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	19	34592058	T	A	3405	0.88	0.19	0.00	0.01	20.95
rs11697981	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	20	43093014	C	T	3405	0.18	0.04	0.00	0.01	21.29
rs6131700	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001510	20	15742230	C	G	3405	-0.38	0.08	0.00	0.01	25.19
rs17583875	AC CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	1	197924770	A	G	3437	-1.74	0.23	0.00	0.02	56.46
rs116794175	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	1	194010208	C	T	3437	-1.10	0.20	0.00	0.01	31.25
rs17666424	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	1	159187530	A	G	3437	0.20	0.05	0.00	0.01	19.59
rs151238138	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	2	171484062	A	G	3437	-0.35	0.08	0.00	0.01	19.68
rs115575166	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	2	38573789	A	G	3437	-0.52	0.12	0.00	0.01	19.59
rs9836170	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	3	169654216	A	G	3437	0.24	0.05	0.00	0.01	20.17
rs4955262	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	3	32259389	A	G	3437	-0.12	0.03	0.00	0.01	21.64
rs139048853	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	4	69570859	C	T	3437	-0.23	0.05	0.00	0.01	20.31
rs72818906	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	5	180045604	T	C	3437	-0.28	0.06	0.00	0.01	20.47
rs9268791	%CD4+ CD45RA- CD4 not Treg	ebi-a-GCST90001511	6	32421073	C	T	3437	-0.16	0.03	0.00	0.01	22.07

rs76420648	CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	8	24588282	A	G	3437	-0.32	0.07	0.00	0.01	21.47
rs62518962	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	8	138341531	A	G	3437	-0.34	0.07	0.00	0.01	21.33
rs35825512	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	9	20167602	T	C	3437	0.19	0.04	0.00	0.01	23.53
rs61839660	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	10	6094697	T	C	3437	0.61	0.06	0.00	0.03	123.76
rs116928928	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	11	32030595	C	T	3437	-0.30	0.07	0.00	0.01	21.09
rs7105186	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	11	122746450	A	G	3437	-0.23	0.05	0.00	0.01	20.96
rs10785396	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	12	43312063	A	G	3437	-0.13	0.03	0.00	0.01	22.91
rs149406003	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	13	101206935	A	G	3437	-0.29	0.06	0.00	0.01	25.27
rs143283244	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	15	94643151	A	G	3437	-2.41	0.50	0.00	0.01	23.57
rs4238686	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	16	88788934	G	A	3437	0.12	0.03	0.00	0.01	19.77
rs117614870	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	17	63857170	T	C	3437	0.64	0.14	0.00	0.01	20.33
rs12458491	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	18	35307820	T	A	3437	0.50	0.09	0.00	0.01	29.22
rs80266752	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	20	52010540	C	G	3437	0.32	0.07	0.00	0.01	23.03
rs148871284	%CD4+ CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001511	20	15546558	T	C	3437	0.35	0.07	0.00	0.01	24.65
rs4497244	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	1	197997953	A	G	3437	-1.40	0.21	0.00	0.01	43.50
rs116794175	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	1	194010208	C	T	3437	-0.94	0.20	0.00	0.01	22.96
rs115815681	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	1	149047683	A	C	3437	-0.54	0.12	0.00	0.01	20.19
rs78193200	%T cell CD45RA- CD4 not Treg	ebi-a-GCST90001512	1	149148053	A	G	3437	-0.46	0.10	0.00	0.01	20.27

rs11579717	CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	1	199999121	A	G	3437	-1.08	0.19	0.00	0.01	31.80
rs17666424	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	1	159187530	A	G	3437	0.21	0.05	0.00	0.01	22.11
rs151238138	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	2	171484062	A	G	3437	-0.35	0.08	0.00	0.01	20.21
rs6771179	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	3	14769598	G	C	3437	-0.12	0.03	0.00	0.01	21.90
rs79327855	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	3	144158111	T	C	3437	-1.73	0.39	0.00	0.01	19.73
rs139048853	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	4	69570859	C	T	3437	-0.24	0.05	0.00	0.01	22.18
rs1558501	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	4	55482148	C	G	3437	-0.14	0.03	0.00	0.01	22.63
rs419099	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	5	102089442	G	A	3437	-0.14	0.03	0.00	0.01	21.51
rs12374668	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	6	100229605	C	T	3437	-0.17	0.04	0.00	0.01	20.18
rs6926235	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	6	11130482	G	A	3437	-0.14	0.03	0.00	0.01	19.90
rs6912413	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	6	22960927	G	C	3437	-0.18	0.04	0.00	0.01	21.24
rs4726924	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	7	147873501	T	C	3437	0.11	0.02	0.00	0.01	20.27
rs183422804	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	8	90678452	G	A	3437	-0.84	0.18	0.00	0.01	20.75
rs7017671	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	8	128467754	G	C	3437	0.12	0.03	0.00	0.01	21.00
rs2004605	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	9	37391292	T	C	3437	0.13	0.03	0.00	0.01	21.75
rs12006014	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	9	20160505	A	G	3437	0.18	0.04	0.00	0.01	21.62
rs61839660	%T cell CD25hi CD45RA- CD4 not Treg	ebi-a-GCST90001512	10	6094697	T	C	3437	0.58	0.06	0.00	0.03	108.27
rs116928928	%T cell CD45RA- CD4 not Treg	ebi-a-GCST90001512	11	32030595	C	T	3437	-0.29	0.07	0.00	0.01	19.86

rs149406003	CD25hi CD45RA- CD4 not Treg %T cell CD25hi	ebi-a-GCST90001512	13	101206935	A	G	3437	-0.26	0.06	0.00	0.01	20.32
rs143283244	CD45RA- CD4 not Treg %T cell CD25hi	ebi-a-GCST90001512	15	94643151	A	G	3437	-2.27	0.50	0.00	0.01	21.01
rs76694846	CD45RA- CD4 not Treg %T cell CD25hi	ebi-a-GCST90001512	15	90197310	G	C	3437	0.36	0.08	0.00	0.01	20.54
rs12325554	CD45RA- CD4 not Treg %T cell CD25hi	ebi-a-GCST90001512	16	84053417	C	G	3437	0.47	0.10	0.00	0.01	20.35
rs12926701	CD45RA- CD4 not Treg %T cell CD25hi	ebi-a-GCST90001512	16	24473291	T	G	3437	-0.28	0.06	0.00	0.01	20.34
rs117614870	CD45RA- CD4 not Treg %T cell CD25hi	ebi-a-GCST90001512	17	63857170	T	C	3437	0.63	0.14	0.00	0.01	20.00
rs12458491	CD45RA- CD4 not Treg %T cell CD25hi	ebi-a-GCST90001512	18	35307820	T	A	3437	0.43	0.09	0.00	0.01	21.26
rs2702579	CD45RA- CD4 not Treg %T cell CD25hi	ebi-a-GCST90001512	18	71659838	T	C	3437	-0.28	0.06	0.00	0.01	22.95
rs148871284	CD45RA- CD4 not Treg %T cell CD25hi	ebi-a-GCST90001512	20	15546558	T	C	3437	0.33	0.07	0.00	0.01	21.78
rs6131700	CD45RA- CD4 not Treg %T cell CD25hi	ebi-a-GCST90001512	20	15742230	C	G	3437	-0.33	0.07	0.00	0.01	19.57
rs67691565	CD45RA- CD4 not Treg %T cell CD25hi	ebi-a-GCST90001512	20	52169857	A	G	3437	-0.17	0.04	0.00	0.01	20.03
rs147838148	CD45RA- CD4 not Treg %T cell	ebi-a-GCST90001512	22	47814108	G	T	3437	-2.17	0.49	0.00	0.01	19.74
rs76202906	CD4 Treg AC	ebi-a-GCST90001513	1	113476831	A	C	3405	-0.35	0.07	0.00	0.01	23.29
rs78890192	CD4 Treg AC	ebi-a-GCST90001513	4	107059453	C	T	3405	-0.57	0.13	0.00	0.01	19.78
rs77040981	CD4 Treg AC	ebi-a-GCST90001513	4	184321385	A	G	3405	1.11	0.25	0.00	0.01	19.94
rs1268153	CD4 Treg AC	ebi-a-GCST90001513	6	109035696	A	G	3405	0.82	0.17	0.00	0.01	23.07
rs1028334	CD4 Treg AC	ebi-a-GCST90001513	6	18584683	G	A	3405	0.17	0.04	0.00	0.01	19.72
rs9343914	CD4 Treg AC	ebi-a-GCST90001513	6	80166444	T	C	3405	-0.16	0.04	0.00	0.01	20.00
rs17717645	CD4 Treg AC	ebi-a-GCST90001513	7	18003774	C	T	3405	0.39	0.08	0.00	0.01	24.06
rs11772999	CD4 Treg AC	ebi-a-GCST90001513	7	113991516	G	T	3405	0.66	0.14	0.00	0.01	20.99
rs140960913	CD4 Treg AC	ebi-a-GCST90001513	7	158180337	T	C	3405	0.36	0.08	0.00	0.01	21.64
rs140842863	CD4 Treg AC	ebi-a-GCST90001513	8	35828286	A	C	3405	0.61	0.13	0.00	0.01	20.78
rs61839660	CD4 Treg AC	ebi-a-GCST90001513	10	6094697	T	C	3405	0.27	0.06	0.00	0.01	23.81
rs78409263	CD4 Treg AC	ebi-a-GCST90001513	11	79202514	C	G	3405	-0.18	0.04	0.00	0.01	20.22
rs75596315	CD4 Treg AC	ebi-a-GCST90001513	12	122520112	T	C	3405	0.25	0.06	0.00	0.01	19.68
rs3184504	CD4 Treg AC	ebi-a-GCST90001513	12	111884608	C	T	3405	-0.12	0.03	0.00	0.01	20.83
rs145600407	CD4 Treg AC	ebi-a-GCST90001513	13	19280601	T	C	3405	-0.50	0.10	0.00	0.01	23.81
rs78334049	CD4 Treg AC	ebi-a-GCST90001513	14	93385046	A	G	3405	0.20	0.04	0.00	0.01	23.88
rs7162344	CD4 Treg AC	ebi-a-GCST90001513	15	26030485	A	G	3405	-0.12	0.03	0.00	0.01	23.67

rs188505795	CD4 Treg AC	ebi-a-GCST90001513	16	28223373	T	G	3405	0.30	0.07	0.00	0.01	21.96
rs149951966	CD4 Treg AC	ebi-a-GCST90001513	17	41137136	C	T	3405	0.21	0.04	0.00	0.01	24.32
rs72833913	CD4 Treg AC	ebi-a-GCST90001513	17	5713335	A	C	3405	0.19	0.04	0.00	0.01	21.42
rs79684619	CD4 Treg AC	ebi-a-GCST90001513	18	64907349	G	A	3405	0.28	0.06	0.00	0.01	20.60
rs9709738	CD4 Treg AC	ebi-a-GCST90001513	18	60137303	C	G	3405	-0.14	0.03	0.00	0.01	23.74
rs80237985	HSC AC	ebi-a-GCST90001514	1	217396264	A	G	1858	0.42	0.09	0.00	0.01	20.28
rs76038700	HSC AC	ebi-a-GCST90001514	2	135226197	C	T	1858	0.22	0.05	0.00	0.01	23.28
rs1432243	HSC AC	ebi-a-GCST90001514	2	137773206	C	T	1858	-0.50	0.10	0.00	0.01	23.72
rs115937242	HSC AC	ebi-a-GCST90001514	2	136121922	A	G	1858	1.54	0.17	0.00	0.04	77.93
rs74529033	HSC AC	ebi-a-GCST90001514	2	137747326	G	A	1858	1.45	0.18	0.00	0.03	64.09
rs112258784	HSC AC	ebi-a-GCST90001514	2	191015741	G	A	1858	-0.74	0.16	0.00	0.01	21.04
rs2887466	HSC AC	ebi-a-GCST90001514	3	131748507	T	C	1858	0.15	0.03	0.00	0.01	21.76
rs10080768	HSC AC	ebi-a-GCST90001514	6	2760245	T	C	1858	0.17	0.04	0.00	0.01	22.40
rs142114110	HSC AC	ebi-a-GCST90001514	7	82240518	G	A	1858	-0.42	0.09	0.00	0.01	22.01
rs77538571	HSC AC	ebi-a-GCST90001514	8	4006968	G	C	1858	0.91	0.20	0.00	0.01	21.09
rs34526926	HSC AC	ebi-a-GCST90001514	8	78599881	A	G	1858	-0.28	0.06	0.00	0.01	20.08
rs143685973	HSC AC	ebi-a-GCST90001514	9	136023292	T	C	1858	-0.28	0.06	0.00	0.01	20.26
rs10809987	HSC AC	ebi-a-GCST90001514	9	13585363	C	T	1858	0.25	0.05	0.00	0.01	24.94
rs2724803	HSC AC	ebi-a-GCST90001514	10	12404560	G	C	1858	-0.31	0.07	0.00	0.01	20.17
rs115076910	HSC AC	ebi-a-GCST90001514	11	121009383	C	T	1858	0.16	0.04	0.00	0.01	19.78
rs2709155	HSC AC	ebi-a-GCST90001514	11	4597980	T	G	1858	0.14	0.03	0.00	0.01	19.94
rs77058454	HSC AC	ebi-a-GCST90001514	15	81301816	T	C	1858	-1.33	0.28	0.00	0.01	22.96
rs6416872	HSC AC	ebi-a-GCST90001514	17	2750333	C	T	1858	0.15	0.03	0.00	0.01	20.84
rs466736	HSC AC	ebi-a-GCST90001514	21	20337514	G	A	1858	0.24	0.05	0.00	0.01	20.60
rs74227709	Im MDSC AC	ebi-a-GCST90001515	1	247722588	A	G	1857	-0.34	0.07	0.00	0.01	23.32
rs6682502	Im MDSC AC	ebi-a-GCST90001515	1	234866398	G	T	1857	0.50	0.11	0.00	0.01	19.97
rs347282	Im MDSC AC	ebi-a-GCST90001515	1	162312753	G	T	1857	-0.18	0.04	0.00	0.01	22.04
rs423524	Im MDSC AC	ebi-a-GCST90001515	2	147899621	T	C	1857	-0.16	0.04	0.00	0.01	20.07
rs113696385	Im MDSC AC	ebi-a-GCST90001515	2	176971968	T	G	1857	-0.53	0.10	0.00	0.01	27.30
rs9829934	Im MDSC AC	ebi-a-GCST90001515	3	113575708	T	A	1857	-0.39	0.07	0.00	0.01	27.43
rs143216098	Im MDSC AC	ebi-a-GCST90001515	3	14039647	G	A	1857	0.61	0.13	0.00	0.01	20.81
rs329820	Im MDSC AC	ebi-a-GCST90001515	3	78947955	T	C	1857	-0.15	0.03	0.00	0.01	20.31
rs76522245	Im MDSC AC	ebi-a-GCST90001515	4	182229502	T	C	1857	-0.20	0.04	0.00	0.01	19.90
rs2451361	Im MDSC AC	ebi-a-GCST90001515	6	34029204	T	C	1857	0.15	0.03	0.00	0.01	19.64
rs1421603	Im MDSC AC	ebi-a-GCST90001515	7	131327890	T	C	1857	0.27	0.06	0.00	0.01	22.85
rs72841673	Im MDSC AC	ebi-a-GCST90001515	10	125501892	T	C	1857	-0.83	0.18	0.00	0.01	21.98
rs56236288	Im MDSC AC	ebi-a-GCST90001515	10	11698793	T	C	1857	0.15	0.03	0.00	0.01	19.79
rs2420243	Im MDSC AC	ebi-a-GCST90001515	10	117921053	T	A	1857	-1.55	0.32	0.00	0.01	23.72
rs10843345	Im MDSC AC	ebi-a-GCST90001515	12	29371578	T	A	1857	0.15	0.03	0.00	0.01	19.80
rs144437325	Im MDSC AC	ebi-a-GCST90001515	13	52130641	A	G	1857	-1.58	0.35	0.00	0.01	19.81
rs141792521	Im MDSC AC	ebi-a-GCST90001515	16	58686745	G	A	1857	-0.79	0.14	0.00	0.02	29.46
rs7259307	Im MDSC AC	ebi-a-GCST90001515	19	51540750	T	G	1857	0.17	0.04	0.00	0.01	20.02
rs17801681	Im MDSC AC	ebi-a-GCST90001515	19	51676649	T	C	1857	0.28	0.05	0.00	0.02	28.98
rs2455069	Im MDSC AC	ebi-a-GCST90001515	19	51728641	G	A	1857	0.39	0.03	0.00	0.07	146.93
rs1654530	Im MDSC AC	ebi-a-GCST90001515	19	51476281	G	A	1857	0.25	0.05	0.00	0.01	25.24
rs4499342	Im MDSC AC	ebi-a-GCST90001515	19	8786913	T	C	1857	-0.28	0.05	0.00	0.02	36.09
rs1546826	Im MDSC AC	ebi-a-GCST90001515	21	19549947	C	T	1857	-1.44	0.32	0.00	0.01	20.39
rs76978157	Im MDSC AC	ebi-a-GCST90001515	21	47549410	T	C	1857	-0.31	0.07	0.00	0.01	20.06

rs12094489	Im MDSC %CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	1	247286936	A	G	1857	-0.24	0.05	0.00	0.01	24.25
rs72923436	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	2	176970247	A	C	1857	-0.54	0.10	0.00	0.02	31.00
rs9829934	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	3	113575708	T	A	1857	-0.37	0.07	0.00	0.01	26.61
rs469318	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	5	179340006	C	T	1857	-0.17	0.04	0.00	0.01	21.93
rs79899973	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	6	10417917	C	T	1857	0.27	0.06	0.00	0.01	19.83
rs115076391	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	6	873131	C	T	1857	-0.85	0.19	0.00	0.01	20.81
rs182908654	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	7	141084101	C	T	1857	-1.98	0.43	0.00	0.01	20.85
rs41928	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	7	117925703	G	T	1857	-1.07	0.24	0.00	0.01	20.09
rs147302158	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	9	32093300	G	A	1857	-0.43	0.09	0.00	0.01	22.54
rs12350919	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	9	129479345	T	C	1857	0.55	0.12	0.00	0.01	20.09
rs139228307	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	10	49759225	A	G	1857	-0.99	0.22	0.00	0.01	19.75
rs7907229	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	10	10423376	T	C	1857	0.45	0.10	0.00	0.01	19.63
rs2420243	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	10	117921053	T	A	1857	-1.50	0.31	0.00	0.01	22.86
rs3829176	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	10	127752441	T	C	1857	-0.68	0.15	0.00	0.01	21.59
rs12878160	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	14	93613399	T	C	1857	0.15	0.03	0.00	0.01	19.91
rs12443996	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	16	74210489	T	G	1857	-0.21	0.05	0.00	0.01	19.67
rs4499342	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	19	8786913	T	C	1857	-0.22	0.05	0.00	0.01	21.78
rs1701958	%CD33dim HLA DR- CD66b-	ebi-a-GCST90001516	19	51476715	G	C	1857	0.22	0.05	0.00	0.01	21.74

rs151124788	Im MDSC %CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	19	47622471	G	C	1857	0.51	0.12	0.00	0.01	19.60
rs2455069	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	19	51728641	G	A	1857	0.25	0.03	0.00	0.03	59.56
rs1537122	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	21	46598506	T	C	1857	-0.16	0.03	0.00	0.01	22.86
rs12482767	%CD33dim HLA DR- CD66b- Im MDSC	ebi-a-GCST90001516	21	47428075	A	G	1857	0.23	0.05	0.00	0.01	20.37
rs2703989	CD33br HLA DR+ AC	ebi-a-GCST90001517	1	90495703	T	C	1858	0.76	0.16	0.00	0.01	22.07
rs11161969	CD33br HLA DR+ AC	ebi-a-GCST90001517	1	87752464	G	A	1858	0.16	0.03	0.00	0.01	23.31
rs5020267	CD33br HLA DR+ AC	ebi-a-GCST90001517	2	147077389	G	A	1858	0.23	0.05	0.00	0.01	24.12
rs150886675	CD33br HLA DR+ AC	ebi-a-GCST90001517	2	227300526	A	G	1858	-1.10	0.25	0.00	0.01	19.91
rs3770997	CD33br HLA DR+ AC	ebi-a-GCST90001517	2	206649338	C	T	1858	0.16	0.04	0.00	0.01	21.91
rs143438920	CD33br HLA DR+ AC	ebi-a-GCST90001517	3	15416436	A	C	1858	-0.77	0.17	0.00	0.01	21.30
rs115418145	CD33br HLA DR+ AC	ebi-a-GCST90001517	4	130012204	T	G	1858	3.85	0.80	0.00	0.01	23.05
rs73248200	CD33br HLA DR+ AC	ebi-a-GCST90001517	4	27723538	G	T	1858	0.18	0.04	0.00	0.01	24.05
rs505769	CD33br HLA DR+ AC	ebi-a-GCST90001517	5	29036863	A	C	1858	0.18	0.04	0.00	0.01	22.77
rs1902950	CD33br HLA DR+ AC	ebi-a-GCST90001517	5	162397650	C	G	1858	0.43	0.10	0.00	0.01	20.78
rs141849324	CD33br HLA DR+ AC	ebi-a-GCST90001517	5	133807831	A	C	1858	-0.64	0.14	0.00	0.01	19.97
rs77906933	CD33br HLA DR+ AC	ebi-a-GCST90001517	6	125326624	G	A	1858	1.59	0.34	0.00	0.01	22.24
rs183489799	CD33br HLA DR+ AC	ebi-a-GCST90001517	6	135523741	A	G	1858	0.56	0.13	0.00	0.01	20.30
rs34908874	CD33br HLA DR+ AC	ebi-a-GCST90001517	6	19571542	G	A	1858	0.69	0.16	0.00	0.01	19.65
rs142786778	CD33br HLA DR+ AC	ebi-a-GCST90001517	6	23419953	A	G	1858	-1.67	0.37	0.00	0.01	20.27
rs1647900	CD33br HLA DR+ AC	ebi-a-GCST90001517	7	134917158	T	A	1858	1.99	0.44	0.00	0.01	19.94
rs182908654	CD33br HLA DR+ AC	ebi-a-GCST90001517	7	141084101	C	T	1858	-2.35	0.44	0.00	0.02	28.63
rs11777538	CD33br HLA DR+ AC	ebi-a-GCST90001517	8	127623130	G	A	1858	-0.20	0.04	0.00	0.01	21.03
rs182483660	CD33br HLA DR+ AC	ebi-a-GCST90001517	10	90000206	T	C	1858	0.35	0.07	0.00	0.01	23.16
rs10740011	CD33br HLA DR+ AC	ebi-a-GCST90001517	10	61890937	T	G	1858	-0.15	0.03	0.00	0.01	22.55
rs143612223	CD33br HLA DR+ AC	ebi-a-GCST90001517	10	112429560	T	A	1858	3.42	0.67	0.00	0.01	25.95
rs61916462	CD33br HLA DR+ AC	ebi-a-GCST90001517	11	101619255	A	G	1858	0.22	0.05	0.00	0.01	22.72
rs12297491	CD33br HLA DR+ AC	ebi-a-GCST90001517	12	1731406	A	C	1858	0.21	0.04	0.00	0.01	22.41
rs4020134	CD33br HLA DR+ AC	ebi-a-GCST90001517	14	78420741	G	A	1858	-0.16	0.03	0.00	0.01	20.39
rs117019089	CD33br HLA DR+ AC	ebi-a-GCST90001517	16	69342268	T	G	1858	3.05	0.67	0.00	0.01	20.66
rs35948572	CD33br HLA DR+ AC	ebi-a-GCST90001517	16	5666157	T	C	1858	0.21	0.04	0.00	0.01	21.87
rs13334605	CD33br HLA DR+ AC	ebi-a-GCST90001517	16	8615510	G	C	1858	0.17	0.03	0.00	0.01	23.62
rs111715212	CD33br HLA DR+ AC	ebi-a-GCST90001517	18	5327059	A	C	1858	0.18	0.04	0.00	0.01	20.77
rs74253876	CD33br HLA DR+ AC	ebi-a-GCST90001517	18	5858361	T	C	1858	-0.20	0.04	0.00	0.01	26.99

rs117285079	CD33br HLA DR+ AC	ebi-a-GCST90001517	18	4762780	G	C	1858	-0.38	0.08	0.00	0.01	21.31
rs3865444	CD33br HLA DR+ AC	ebi-a-GCST90001517	19	51727962	A	C	1858	-0.37	0.04	0.00	0.05	90.88
rs144410606	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	1	187381911	G	T	1858	2.15	0.48	0.00	0.01	20.11
rs2703989	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	1	90495703	T	C	1858	0.79	0.16	0.00	0.01	23.93
rs17046269	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	2	54973519	C	G	1858	0.31	0.07	0.00	0.01	20.19
rs150886675	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	2	227300526	A	G	1858	-1.13	0.25	0.00	0.01	20.87
rs5020267	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	2	147077389	G	A	1858	0.22	0.05	0.00	0.01	21.23
rs9990730	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	4	183610911	C	A	1858	-0.17	0.04	0.00	0.01	23.41
rs6858113	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	4	27713713	A	G	1858	0.16	0.03	0.00	0.01	21.48
rs115418145	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	4	130012204	T	G	1858	3.85	0.81	0.00	0.01	22.74
rs505806	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	5	29036851	A	G	1858	0.19	0.04	0.00	0.01	23.36
rs1902950	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	5	162397650	C	G	1858	0.43	0.10	0.00	0.01	19.61
rs77906933	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	6	125326624	G	A	1858	1.56	0.34	0.00	0.01	21.08
rs34908874	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	6	19571542	G	A	1858	0.70	0.16	0.00	0.01	19.73
rs182908654	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	7	141084101	C	T	1858	-2.36	0.45	0.00	0.01	27.84
rs1647900	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	7	134917158	T	A	1858	2.05	0.45	0.00	0.01	20.35
rs4733718	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	8	130647103	T	A	1858	-0.15	0.03	0.00	0.01	19.72
rs138272175	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	9	945397	T	C	1858	0.43	0.09	0.00	0.01	22.89
rs10740011	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	10	61890937	T	G	1858	-0.15	0.03	0.00	0.01	20.56
rs35248101	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	10	13171617	C	A	1858	2.99	0.66	0.00	0.01	20.50
rs117032925	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	10	103744374	A	C	1858	3.03	0.68	0.00	0.01	19.65
rs75873877	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	10	89722783	C	T	1858	0.33	0.07	0.00	0.01	22.53
rs143612223	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	10	112429560	T	A	1858	3.17	0.68	0.00	0.01	22.00
rs61916496	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	11	101684475	T	A	1858	0.21	0.04	0.00	0.01	21.50
rs144437325	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	13	52130641	A	G	1858	-1.60	0.35	0.00	0.01	20.77

rs4020134	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	14	78420741	G	A	1858	-0.16	0.03	0.00	0.01	21.66
rs4357922	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	15	97966655	G	A	1858	0.18	0.04	0.00	0.01	20.51
rs57812633	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	16	5690721	G	A	1858	0.21	0.05	0.00	0.01	22.48
rs13334605	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	16	8615510	G	C	1858	0.17	0.04	0.00	0.01	22.22
rs117019089	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	16	69342268	T	G	1858	3.21	0.68	0.00	0.01	22.56
rs117306448	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	17	68540131	G	T	1858	-1.89	0.42	0.00	0.01	20.02
rs16988845	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	19	51549527	A	C	1858	0.16	0.03	0.00	0.01	21.95
rs3865444	CD33br HLA DR+ CD14- AC	ebi-a-GCST90001518	19	51727962	A	C	1858	-0.38	0.04	0.00	0.05	92.39
rs10494422	CD33br HLA DR+ CD14- %CD33br	ebi-a-GCST90001519	1	164781015	C	A	1858	0.24	0.05	0.00	0.01	20.25
rs10799466	HLA DR+ CD33br HLA DR+ CD14- %CD33br	ebi-a-GCST90001519	1	228317685	A	G	1858	-0.15	0.03	0.00	0.01	19.72
rs12033128	HLA DR+ CD33br HLA DR+ CD14- %CD33br	ebi-a-GCST90001519	1	85552939	C	T	1858	-0.26	0.05	0.00	0.02	29.77
rs16865573	HLA DR+ CD33br HLA DR+ CD14- %CD33br	ebi-a-GCST90001519	2	6895049	C	T	1858	-0.20	0.04	0.00	0.01	22.42
rs116534482	HLA DR+ CD33br HLA DR+ CD14- %CD33br	ebi-a-GCST90001519	2	142334140	C	T	1858	0.42	0.09	0.00	0.01	21.58
rs218773	HLA DR+ CD33br HLA DR+ CD14- %CD33br	ebi-a-GCST90001519	4	14437080	G	A	1858	0.34	0.07	0.00	0.01	24.15
rs115205981	HLA DR+ CD33br HLA DR+ CD14- %CD33br	ebi-a-GCST90001519	4	36025181	A	G	1858	-0.23	0.05	0.00	0.01	20.87
rs6844114	HLA DR+ CD33br HLA DR+ CD14- %CD33br	ebi-a-GCST90001519	4	190745892	A	G	1858	-0.49	0.10	0.00	0.01	22.05
rs62350505	HLA DR+ CD33br HLA DR+ CD14- %CD33br	ebi-a-GCST90001519	4	165304812	G	C	1858	1.10	0.24	0.00	0.01	21.82
rs2501720	HLA DR+ CD33br HLA DR+ CD14- %CD33br	ebi-a-GCST90001519	6	90899561	A	G	1858	0.17	0.04	0.00	0.01	20.68
rs11982860	HLA DR+ CD33br HLA DR+ CD14- %CD33br	ebi-a-GCST90001519	7	67501241	A	G	1858	0.18	0.04	0.00	0.01	19.77
rs142412842	HLA DR+ CD33br HLA DR+ CD14- %CD33br	ebi-a-GCST90001519	7	140274216	C	A	1858	-1.30	0.29	0.00	0.01	20.67

	CD33br HLA											
rs111391334	DR+ CD14- %CD33br	ebi-a-GCST90001519	9	83651275	G	A	1858	2.17	0.48	0.00	0.01	20.07
	HLA DR+ CD33br HLA											
rs7116432	DR+ CD14- %CD33br	ebi-a-GCST90001519	11	35244058	G	A	1858	-0.18	0.04	0.00	0.01	21.16
	HLA DR+ CD33br HLA											
rs2529690	DR+ CD14- %CD33br	ebi-a-GCST90001519	17	12239004	A	G	1858	0.22	0.04	0.00	0.01	25.04
	HLA DR+ CD33br HLA											
rs113548770	DR+ CD14- %CD33br	ebi-a-GCST90001519	18	70222212	G	A	1858	-1.71	0.36	0.00	0.01	21.91
	HLA DR+ CD33br HLA											
rs7245846	DR+ CD14- %CD33br	ebi-a-GCST90001519	19	51731176	A	G	1858	-0.31	0.04	0.00	0.03	63.54
	HLA DR+ CD33br HLA											
rs111695695	DR+ CD14- %CD33br	ebi-a-GCST90001519	19	51897760	A	C	1858	-0.27	0.06	0.00	0.01	20.14
	HLA DR+ CD33br HLA											
rs62197298	DR+ CD14- %CD33br	ebi-a-GCST90001519	20	61646108	T	C	1858	-0.24	0.05	0.00	0.01	21.36
	HLA DR+ CD33br HLA											
rs115048709	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	1	87894430	T	C	1858	-0.30	0.07	0.00	0.01	20.41
rs5020267	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	2	147077389	G	A	1858	0.21	0.05	0.00	0.01	20.59
rs3770997	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	2	206649338	C	T	1858	0.16	0.04	0.00	0.01	20.29
rs76694877	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	3	27966223	G	T	1858	-0.38	0.08	0.00	0.01	24.51
rs112790132	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	3	115423600	A	G	1858	-0.74	0.15	0.00	0.01	24.81
rs75779179	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	3	14581493	G	C	1858	-0.66	0.15	0.00	0.01	20.43
rs139406769	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	3	178041850	G	A	1858	0.93	0.21	0.00	0.01	19.83
rs56151283	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	3	150895562	G	A	1858	-0.55	0.12	0.00	0.01	20.68
rs142206516	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	4	130010719	A	G	1858	3.67	0.81	0.00	0.01	20.45
rs1865405	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	5	136614606	C	A	1858	-0.20	0.05	0.00	0.01	19.83
rs142786778	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	6	23419953	A	G	1858	-1.73	0.37	0.00	0.01	21.39
rs187876923	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	6	125217867	T	C	1858	0.57	0.12	0.00	0.01	22.98
rs55652412	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	6	135488750	T	C	1858	0.58	0.13	0.00	0.01	20.26
rs145382040	DR+ CD14dim AC CD33br HLA	ebi-a-GCST90001520	6	25721374	G	C	1858	0.68	0.15	0.00	0.01	19.63
rs182908654	DR+ CD14dim AC	ebi-a-GCST90001520	7	141084101	C	T	1858	-2.18	0.44	0.00	0.01	24.86

rs10112702	CD33br HLA DR+	ebi-a-GCST90001520	8	127626066	G	C	1858	-0.22	0.04	0.00	0.01	27.83
rs143612223	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	10	112429560	T	A	1858	3.38	0.68	0.00	0.01	25.00
rs7074380	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	10	43466121	A	T	1858	0.29	0.07	0.00	0.01	20.12
rs2695824	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	11	131554552	T	A	1858	-0.22	0.05	0.00	0.01	20.27
rs9548748	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	13	39950178	T	C	1858	0.16	0.03	0.00	0.01	23.54
rs11618675	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	13	49307675	A	G	1858	0.50	0.11	0.00	0.01	21.40
rs7180375	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	15	79157379	C	T	1858	0.16	0.03	0.00	0.01	21.05
rs187512831	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	16	12806949	A	G	1858	-0.32	0.07	0.00	0.01	20.84
rs74253876	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	18	5858361	T	C	1858	-0.23	0.04	0.00	0.02	32.39
rs117285079	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	18	4762780	G	C	1858	-0.38	0.08	0.00	0.01	20.79
rs113771439	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	18	5326964	A	G	1858	0.19	0.04	0.00	0.01	24.24
rs3865444	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	19	51727962	A	C	1858	-0.33	0.04	0.00	0.04	70.03
rs73039451	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	19	33617508	A	G	1858	-0.39	0.08	0.00	0.01	20.86
rs77594041	CD14dim AC CD33br HLA DR+	ebi-a-GCST90001520	20	20080535	T	C	1858	0.93	0.20	0.00	0.01	21.74
rs17262293	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	1	29062427	A	G	1858	0.22	0.05	0.00	0.01	20.22
rs187359230	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	2	35143865	A	G	1858	1.36	0.27	0.00	0.01	25.71
rs6544660	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	2	43688496	T	C	1858	0.18	0.03	0.00	0.01	27.10
rs6720231	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	2	158761398	C	A	1858	0.44	0.10	0.00	0.01	20.69
rs76092047	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	2	236068499	C	T	1858	-0.49	0.10	0.00	0.01	22.55
rs182987179	CD14dim %CD33br HLA DR+	ebi-a-GCST90001521	3	41352496	G	T	1858	1.62	0.34	0.00	0.01	23.19

	CD33br HLA DR+												
rs61797471	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	4	36058097	C	T	1858	0.16	0.03	0.00	0.01	20.74	
rs115038761	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	4	136462637	G	A	1858	0.34	0.07	0.00	0.01	20.57	
rs6844114	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	4	190745892	A	G	1858	0.46	0.10	0.00	0.01	19.62	
rs12655500	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	5	163124522	A	G	1858	0.17	0.04	0.00	0.01	24.02	
rs111231787	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	5	112408670	T	C	1858	1.24	0.22	0.00	0.02	30.92	
rs2982905	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	6	162155632	G	T	1858	0.33	0.07	0.00	0.01	25.18	
rs1504215	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	6	91006227	A	G	1858	0.16	0.03	0.00	0.01	22.69	
rs6951925	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	7	108801624	T	G	1858	-0.26	0.06	0.00	0.01	21.41	
rs625405	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	7	4184036	G	T	1858	0.15	0.03	0.00	0.01	19.63	
rs138834110	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	8	5338183	A	T	1858	1.40	0.29	0.00	0.01	22.72	
rs2811828	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	9	17952241	C	T	1858	-0.16	0.03	0.00	0.01	24.12	
rs480590	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	11	117356979	C	T	1858	-0.15	0.03	0.00	0.01	20.33	
rs72719861	CD14dim %CD33br HLA DR+ CD33br HLA DR+	ebi-a-GCST90001521	14	72634959	A	G	1858	-0.88	0.19	0.00	0.01	22.65	
rs12933012	CD14dim %CD33br HLA DR+	ebi-a-GCST90001521	16	81880726	G	C	1858	0.19	0.04	0.00	0.01	22.07	

rs9912578	CD33br HLA											
	DR+											
	CD14dim	ebi-a-GCST90001521	17	70578744	G	A	1858	0.16	0.04	0.00	0.01	19.78
	%CD33br											
rs117734358	HLA DR+											
	CD33br HLA											
	DR+											
	CD14dim	ebi-a-GCST90001521	18	13088666	T	C	1858	0.64	0.14	0.00	0.01	22.58
rs12459419	%CD33br											
	HLA DR+											
	CD33br HLA											
	DR+											
rs73030477	CD14dim	ebi-a-GCST90001521	19	51728477	T	C	1858	-0.18	0.04	0.00	0.01	20.84
	%CD33br											
	HLA DR+											
	CD33br HLA											
rs10409679	DR+											
	CD14dim	ebi-a-GCST90001521	19	28098310	A	G	1858	-0.74	0.16	0.00	0.01	20.97
	%CD33br											
	HLA DR+											
rs740867	CD33br HLA											
	DR+											
	CD14dim	ebi-a-GCST90001521	19	57195149	G	A	1858	0.17	0.04	0.00	0.01	20.08
	%CD33br											
rs59118111	HLA DR+											
	CD33- HLA	ebi-a-GCST90001522	1	4044791	C	G	1858	-0.43	0.08	0.00	0.01	25.21
	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	3	10659768	T	C	1858	-0.23	0.05	0.00	0.01	20.69
rs930273	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	4	53828606	T	C	1858	-0.27	0.06	0.00	0.01	20.58
	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	6	103221111	G	A	1858	-0.81	0.17	0.00	0.01	21.70
rs145308006	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	6	19014908	T	C	1858	-0.31	0.07	0.00	0.01	20.80
	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	6	139658866	A	G	1858	-0.16	0.04	0.00	0.01	19.76
rs72826499	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	7	105343363	A	G	1858	0.21	0.05	0.00	0.01	21.77
	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	10	38761057	A	G	1858	-0.35	0.08	0.00	0.01	20.53
rs6918752	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	10	128153755	A	G	1858	0.37	0.08	0.00	0.01	20.87
	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	11	4839164	A	G	1858	-0.16	0.03	0.00	0.01	22.40
rs7079561	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	14	54236212	A	G	1858	-0.30	0.07	0.00	0.01	20.18
	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	14	101739270	G	A	1858	0.51	0.11	0.00	0.01	20.20
rs55867246	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	15	65664499	T	C	1858	0.34	0.07	0.00	0.01	22.16
	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	16	84165036	C	T	1858	-0.61	0.14	0.00	0.01	19.79
rs145397048	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	17	33797371	T	G	1858	-0.19	0.03	0.00	0.02	32.19
	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	18	35502118	T	A	1858	0.67	0.14	0.00	0.01	21.56
rs67418059	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	18	72338465	T	C	1858	0.28	0.06	0.00	0.01	19.72
	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	19	31193989	G	C	1858	-1.31	0.28	0.00	0.01	22.20
rs145540967	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	19	3958937	G	C	1858	0.42	0.08	0.00	0.01	27.09
	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	19	54838294	G	A	1858	-0.17	0.04	0.00	0.01	21.28
rs1205315	DR- AC											
	CD33- HLA	ebi-a-GCST90001522	20	15544052	C	T	1858	-0.65	0.14	0.00	0.01	20.95
	DR- AC											
	CD33- HLA	ebi-a-GCST90001523	1	175194000	T	C	1858	1.82	0.41	0.00	0.01	19.62
rs116851051	DR+											
	CD33br HLA											
	DR+											
	CD14dim	ebi-a-GCST90001521	17	70578744	G	A	1858	0.16	0.04	0.00	0.01	19.78
rs144484750	%CD33br											
	HLA DR+											
	CD33br HLA											
	DR+											

rs372474797	CD33- HLA DR+ AC	ebi-a-GCST90001523	2	90197043	A	G	1858	-0.41	0.09	0.00	0.01	19.76
rs11695642	CD33- HLA DR+ AC	ebi-a-GCST90001523	2	43952695	T	G	1858	-0.16	0.03	0.00	0.01	21.32
rs17382372	CD33- HLA DR+ AC	ebi-a-GCST90001523	2	136921761	A	G	1858	0.20	0.04	0.00	0.01	21.52
rs74940075	CD33- HLA DR+ AC	ebi-a-GCST90001523	3	105338298	A	G	1858	-2.59	0.56	0.00	0.01	21.38
rs4955865	CD33- HLA DR+ AC	ebi-a-GCST90001523	3	55733390	T	C	1858	-0.15	0.03	0.00	0.01	19.72
rs114548614	CD33- HLA DR+ AC	ebi-a-GCST90001523	3	196493486	T	A	1858	-1.16	0.26	0.00	0.01	20.25
rs66733222	CD33- HLA DR+ AC	ebi-a-GCST90001523	3	171668815	A	C	1858	-0.16	0.04	0.00	0.01	19.62
rs78557978	CD33- HLA DR+ AC	ebi-a-GCST90001523	4	115638601	C	G	1858	-1.08	0.22	0.00	0.01	23.03
rs6841247	CD33- HLA DR+ AC	ebi-a-GCST90001523	4	31899436	T	A	1858	0.28	0.06	0.00	0.01	21.64
rs149494397	CD33- HLA DR+ AC	ebi-a-GCST90001523	6	46669724	G	A	1858	-0.91	0.20	0.00	0.01	20.07
rs149034028	CD33- HLA DR+ AC	ebi-a-GCST90001523	6	138310176	T	C	1858	-0.49	0.10	0.00	0.01	22.20
rs115139705	CD33- HLA DR+ AC	ebi-a-GCST90001523	7	120959087	A	G	1858	0.38	0.08	0.00	0.01	20.07
rs118141414	CD33- HLA DR+ AC	ebi-a-GCST90001523	7	141885631	T	C	1858	2.60	0.59	0.00	0.01	19.66
rs876036	CD33- HLA DR+ AC	ebi-a-GCST90001523	7	50307710	C	T	1858	-0.25	0.04	0.00	0.02	46.09
rs2705609	CD33- HLA DR+ AC	ebi-a-GCST90001523	7	3560919	T	G	1858	-0.21	0.04	0.00	0.01	25.65
rs117757905	CD33- HLA DR+ AC	ebi-a-GCST90001523	9	20121195	A	G	1858	-1.64	0.36	0.00	0.01	20.72
rs140563508	CD33- HLA DR+ AC	ebi-a-GCST90001523	9	140249209	T	C	1858	0.68	0.14	0.00	0.01	23.22
rs185521042	CD33- HLA DR+ AC	ebi-a-GCST90001523	10	81460339	C	A	1858	0.71	0.16	0.00	0.01	20.50
rs139348198	CD33- HLA DR+ AC	ebi-a-GCST90001523	11	14699945	T	C	1858	-0.76	0.16	0.00	0.01	22.31
rs73023658	CD33- HLA DR+ AC	ebi-a-GCST90001523	11	130596271	T	A	1858	0.76	0.16	0.00	0.01	21.86
rs145935372	CD33- HLA DR+ AC	ebi-a-GCST90001523	12	61820975	A	G	1858	-0.62	0.14	0.00	0.01	20.23
rs2464634	CD33- HLA DR+ AC	ebi-a-GCST90001523	12	120316206	G	T	1858	-1.58	0.35	0.00	0.01	20.03
rs3916927	CD33- HLA DR+ AC	ebi-a-GCST90001523	13	103927135	A	G	1858	-0.18	0.04	0.00	0.01	21.96
rs143360411	CD33- HLA DR+ AC	ebi-a-GCST90001523	14	60625341	A	T	1858	-0.69	0.16	0.00	0.01	19.68
rs117803686	CD33- HLA DR+ AC	ebi-a-GCST90001523	15	25457565	A	G	1858	-0.67	0.15	0.00	0.01	19.96
rs118076832	CD33- HLA DR+ AC	ebi-a-GCST90001523	15	52532599	G	C	1858	0.68	0.14	0.00	0.01	21.93
rs17883048	CD33- HLA DR+ AC	ebi-a-GCST90001523	17	7570956	A	G	1858	0.33	0.07	0.00	0.01	20.79
rs117117531	CD33- HLA DR+ AC	ebi-a-GCST90001523	17	50899429	A	C	1858	-1.57	0.32	0.00	0.01	23.82
rs2108605	CD33- HLA DR+ AC	ebi-a-GCST90001523	17	10352579	G	C	1858	-1.04	0.23	0.00	0.01	19.87
rs116926801	CD33- HLA DR+ AC	ebi-a-GCST90001523	17	65652250	T	C	1858	-0.55	0.12	0.00	0.01	22.28
rs7207960	CD33- HLA DR+ AC	ebi-a-GCST90001523	17	32010983	T	C	1858	0.26	0.06	0.00	0.01	21.35
rs73049161	CD33- HLA DR+ AC	ebi-a-GCST90001523	19	41969867	A	G	1858	-2.11	0.47	0.00	0.01	19.88
rs140072356	CD33- HLA DR+ AC	ebi-a-GCST90001523	19	41677568	A	G	1858	-1.08	0.23	0.00	0.01	21.50
rs35720624	CD33- HLA DR+ AC	ebi-a-GCST90001523	19	53014851	T	A	1858	-0.30	0.06	0.00	0.01	21.94
rs1697573	CD33- HLA DR+ AC	ebi-a-GCST90001523	19	51718317	A	T	1858	-0.41	0.03	0.00	0.08	161.09
rs34318562	CD33- HLA DR+ AC	ebi-a-GCST90001523	19	52180033	A	G	1858	-0.19	0.04	0.00	0.02	29.54
rs6074118	CD33- HLA DR+ AC	ebi-a-GCST90001523	20	10283445	T	A	1858	-0.20	0.04	0.00	0.01	21.81

rs2070901	Gr MDSC	ebi-a-GCST90001524	1	161185058	T	G	1856	0.17	0.03	0.00	0.01	22.96
rs6710092	Gr MDSC	ebi-a-GCST90001524	2	166018627	G	A	1856	0.32	0.07	0.00	0.01	19.88
rs2017989	Gr MDSC	ebi-a-GCST90001524	2	242099961	T	C	1856	-0.53	0.11	0.00	0.01	22.95
rs111636975	Gr MDSC	ebi-a-GCST90001524	2	176606506	G	A	1856	0.88	0.18	0.00	0.01	23.75
rs1434218	Gr MDSC	ebi-a-GCST90001524	2	79555347	G	A	1856	-0.15	0.03	0.00	0.01	20.59
rs114244809	Gr MDSC	ebi-a-GCST90001524	2	5834493	C	T	1856	0.40	0.09	0.00	0.01	19.81
rs2351156	Gr MDSC	ebi-a-GCST90001524	2	50325488	C	T	1856	-0.27	0.06	0.00	0.01	22.84
rs75747211	Gr MDSC	ebi-a-GCST90001524	3	48261366	A	T	1856	-0.48	0.11	0.00	0.01	20.45
rs114469087	Gr MDSC	ebi-a-GCST90001524	4	90493819	A	T	1856	0.44	0.10	0.00	0.01	20.28
rs1018969	Gr MDSC	ebi-a-GCST90001524	4	5468752	T	C	1856	0.27	0.06	0.00	0.01	20.06
rs114772249	Gr MDSC	ebi-a-GCST90001524	5	54008468	A	T	1856	0.58	0.13	0.00	0.01	20.16
rs10872783	Gr MDSC	ebi-a-GCST90001524	6	96696878	C	T	1856	0.15	0.03	0.00	0.01	22.21
rs140075808	Gr MDSC	ebi-a-GCST90001524	7	115503233	A	C	1856	-0.38	0.09	0.00	0.01	19.79
rs72845259	Gr MDSC	ebi-a-GCST90001524	10	132711992	A	G	1856	1.78	0.35	0.00	0.01	25.28
rs2468595	Gr MDSC	ebi-a-GCST90001524	11	23114913	T	G	1856	-0.15	0.03	0.00	0.01	19.95
rs12588021	Gr MDSC	ebi-a-GCST90001524	14	72955384	C	T	1856	0.15	0.03	0.00	0.01	20.66
rs78384212	Gr MDSC	ebi-a-GCST90001524	14	60291874	T	C	1856	0.35	0.07	0.00	0.01	23.93
rs8098513	Gr MDSC	ebi-a-GCST90001524	18	67052180	G	A	1856	0.18	0.04	0.00	0.01	22.08
rs655539	Gr MDSC	ebi-a-GCST90001524	18	54281790	C	T	1856	-0.22	0.05	0.00	0.01	21.74
rs3865444	Gr MDSC	ebi-a-GCST90001524	19	51727962	A	C	1856	-0.27	0.04	0.00	0.03	50.99
rs16988872	Gr MDSC	ebi-a-GCST90001524	19	51580161	T	C	1856	-0.20	0.04	0.00	0.02	31.54
rs1801274	CD33dim	ebi-a-GCST90001525	1	161479745	G	A	1858	0.26	0.03	0.00	0.03	56.52
rs148937000	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	1	94437964	T	G	1858	1.67	0.38	0.00	0.01	19.66
rs4606283	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	1	227581017	T	C	1858	0.17	0.04	0.00	0.01	21.06
rs62146115	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	2	95456961	G	A	1858	-0.29	0.06	0.00	0.01	20.87
rs2868992	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	2	56232555	G	T	1858	-0.21	0.05	0.00	0.01	20.25
rs143383466	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	3	196068066	T	C	1858	1.14	0.25	0.00	0.01	21.42
rs11709025	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	3	177439366	T	C	1858	0.15	0.03	0.00	0.01	19.85
rs71596080	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	4	82676237	C	T	1858	0.29	0.06	0.00	0.01	23.84
rs10025005	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	4	181288587	T	G	1858	0.19	0.04	0.00	0.01	25.12
rs10011663	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	4	190338080	G	A	1858	0.18	0.04	0.00	0.01	23.55
rs78173101	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	5	148830537	G	C	1858	-0.59	0.13	0.00	0.01	21.54
rs62362950	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	5	83003910	T	C	1858	-0.34	0.07	0.00	0.01	24.80
rs74851637	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	5	144893255	T	G	1858	0.81	0.17	0.00	0.01	22.22
rs17721845	HLA DR+ CD11b+ AC	ebi-a-GCST90001525	6	149234718	T	C	1858	0.19	0.04	0.00	0.01	24.58

rs73716755	CD33dim HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	7	116308013	C	G	1858	-0.37	0.08	0.00	0.01	23.06
rs144894656	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	9	118222268	C	A	1858	-0.77	0.17	0.00	0.01	21.47
rs11594395	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	10	2817998	G	C	1858	0.51	0.11	0.00	0.01	21.38
rs192715019	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	12	83087530	T	C	1858	-0.53	0.10	0.00	0.01	27.96
rs74638799	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	12	11652069	G	A	1858	0.28	0.06	0.00	0.01	21.47
rs9524403	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	13	94940936	C	T	1858	1.04	0.22	0.00	0.01	22.17
rs9510371	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	13	23410009	T	C	1858	0.21	0.05	0.00	0.01	22.59
rs141080550	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	13	111287945	A	G	1858	0.47	0.09	0.00	0.01	26.17
rs11631677	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	15	86647805	T	C	1858	-0.16	0.03	0.00	0.01	24.33
rs58051708	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	17	72998954	G	A	1858	-0.72	0.16	0.00	0.01	20.54
rs145231100	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	18	33141890	A	G	1858	-0.66	0.14	0.00	0.01	23.58
rs1201940	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	20	59281507	C	T	1858	-0.15	0.03	0.00	0.01	20.82
rs76640602	HLA DR+ CD11b+ AC CD33dim	ebi-a-GCST90001525	22	39737217	A	G	1858	0.59	0.12	0.00	0.01	25.89
rs3820097	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	1	161049358	A	G	1858	-0.43	0.07	0.00	0.02	33.79
rs1801274	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	1	161479745	G	A	1858	0.55	0.03	0.00	0.12	256.82
rs55720217	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	1	28277072	T	C	1858	0.19	0.04	0.00	0.01	20.39
rs35006063	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	1	105261254	T	C	1858	-0.93	0.19	0.00	0.01	23.94
rs75239369	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	2	180132004	G	A	1858	-0.39	0.08	0.00	0.01	23.26
rs139393711	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	3	113287778	G	C	1858	-0.45	0.10	0.00	0.01	21.52
rs78096163	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	3	49663488	A	G	1858	1.00	0.22	0.00	0.01	20.70

rs263715	CD33dim HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	3	6504785	A	G	1858	-0.53	0.11	0.00	0.01	22.42
rs6820873	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	4	31077545	C	A	1858	-0.17	0.03	0.00	0.01	24.35
rs115483539	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	5	50273359	A	G	1858	-0.35	0.08	0.00	0.01	21.85
rs7723240	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	5	82990740	T	C	1858	-0.18	0.04	0.00	0.01	20.88
rs35152411	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	5	125675454	T	G	1858	0.40	0.09	0.00	0.01	19.78
rs7754966	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	6	151449284	T	A	1858	0.17	0.04	0.00	0.01	21.28
rs9260301	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	6	29916465	A	T	1858	0.45	0.10	0.00	0.01	20.10
rs73203458	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	7	112318350	C	T	1858	-0.59	0.13	0.00	0.01	20.24
rs79573082	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	8	20155237	A	G	1858	0.63	0.14	0.00	0.01	20.48
rs111944709	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	8	4886462	C	G	1858	0.66	0.15	0.00	0.01	20.75
rs4641163	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	9	130194536	C	G	1858	0.16	0.03	0.00	0.01	22.85
rs78671194	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	10	73360670	G	A	1858	1.82	0.40	0.00	0.01	20.65
rs79027682	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	10	30519550	C	G	1858	0.23	0.05	0.00	0.01	20.94
rs12306859	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	12	52497538	A	G	1858	0.31	0.07	0.00	0.01	19.74

rs117713744	CD33dim HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	13	39990754	C	T	1858	0.36	0.08	0.00	0.01	20.61
rs7156568	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	14	102533672	C	T	1858	0.18	0.04	0.00	0.01	21.38
rs3826007	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	15	80263217	T	C	1858	0.36	0.04	0.00	0.04	80.28
rs6105661	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	20	16785806	A	G	1858	0.16	0.04	0.00	0.01	21.07
rs2097380	HLA DR+ CD11b+ %CD33dim	ebi-a-GCST90001526	22	49658809	G	C	1858	0.16	0.04	0.00	0.01	20.52
rs72762130	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	1	237056710	G	A	1858	0.32	0.07	0.00	0.01	21.55
rs1801274	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	1	161479745	G	A	1858	-0.18	0.03	0.00	0.01	27.91
rs116772525	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	1	184082076	T	C	1858	-1.39	0.31	0.00	0.01	20.33
rs116600349	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	1	7584588	A	C	1858	-1.05	0.24	0.00	0.01	19.70
rs72702556	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	1	150680115	T	C	1858	0.15	0.03	0.00	0.01	21.46
rs10921381	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	1	193500034	T	C	1858	0.16	0.03	0.00	0.01	21.78
rs62172936	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	2	154682039	T	C	1858	-0.45	0.10	0.00	0.01	19.96
rs1427642	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	2	82739796	G	A	1858	-0.26	0.06	0.00	0.01	20.38
rs77839823	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	2	117657692	C	T	1858	-0.15	0.03	0.00	0.01	21.13
rs1377398	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	2	19918761	A	G	1858	-0.15	0.03	0.00	0.01	20.19
rs115342053	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	2	178319837	C	G	1858	-0.78	0.17	0.00	0.01	21.71
rs79141836	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	2	99513380	G	T	1858	-0.31	0.07	0.00	0.01	21.82
rs113181189	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	3	2089038	G	T	1858	0.52	0.11	0.00	0.01	22.34
rs4467644	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	4	115266184	T	C	1858	-0.15	0.03	0.00	0.01	21.15
rs139262012	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	5	99798403	C	A	1858	0.70	0.15	0.00	0.01	22.84
rs34228085	HLA DR+ CD11b- AC	ebi-a-GCST90001527	7	144809718	T	C	1858	-0.15	0.03	0.00	0.01	20.30

rs76259509	CD33dim HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	7	86296884	T	G	1858	2.82	0.63	0.00	0.01	19.84
rs34574947	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	7	18953422	T	C	1858	-0.15	0.03	0.00	0.01	19.75
rs185048341	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	9	107953420	A	G	1858	-0.66	0.12	0.00	0.02	30.47
rs17658872	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	10	74886544	G	A	1858	-0.93	0.21	0.00	0.01	20.38
rs80075776	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	13	70565458	C	G	1858	0.27	0.06	0.00	0.01	19.86
rs11616439	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	13	102675461	A	C	1858	0.19	0.04	0.00	0.01	19.79
rs34476866	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	14	37002449	T	A	1858	-0.60	0.13	0.00	0.01	22.67
rs61987643	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	14	54058233	A	G	1858	-0.29	0.06	0.00	0.01	22.01
rs67760360	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	15	80260872	A	G	1858	-0.34	0.04	0.00	0.04	82.79
rs184208453	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	17	62996369	C	T	1858	0.73	0.16	0.00	0.01	19.97
rs12965906	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	18	49061830	C	G	1858	-0.72	0.16	0.00	0.01	20.68
rs112332228	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	18	36935582	T	C	1858	3.05	0.63	0.00	0.01	23.14
rs1201943	HLA DR+ CD11b- AC CD33dim	ebi-a-GCST90001527	20	59282409	T	C	1858	-0.16	0.03	0.00	0.01	25.10
rs3820097	HLA DR+ CD11b- %CD33dim	ebi-a-GCST90001528	1	161049358	A	G	1858	0.43	0.07	0.00	0.02	33.39
rs35006063	HLA DR+ CD11b- %CD33dim	ebi-a-GCST90001528	1	105261254	T	C	1858	0.93	0.19	0.00	0.01	23.61
rs1801274	HLA DR+ CD11b- %CD33dim	ebi-a-GCST90001528	1	161479745	G	A	1858	-0.55	0.03	0.00	0.12	257.08
rs75239369	HLA DR+ CD11b- %CD33dim	ebi-a-GCST90001528	2	180132004	G	A	1858	0.38	0.08	0.00	0.01	21.51
rs263715	HLA DR+ CD11b- %CD33dim	ebi-a-GCST90001528	3	6504785	A	G	1858	0.52	0.11	0.00	0.01	21.36
rs139393711	HLA DR+ CD11b- %CD33dim	ebi-a-GCST90001528	3	113287778	G	C	1858	0.44	0.10	0.00	0.01	20.78
rs6820873	HLA DR+ CD11b- %CD33dim	ebi-a-GCST90001528	4	31077545	C	A	1858	0.16	0.03	0.00	0.01	20.67

	CD33dim HLA DR+											
rs115483539	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	5	50273359	A	G	1858	0.35	0.08	0.00	0.01	21.19
rs114746765	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	5	125978376	C	T	1858	1.63	0.36	0.00	0.01	20.10
rs942382	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	6	151472251	A	G	1858	0.17	0.04	0.00	0.01	22.01
rs112808189	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	6	159180712	T	C	1858	-0.32	0.07	0.00	0.01	20.64
rs73203461	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	7	112321582	C	A	1858	0.64	0.14	0.00	0.01	20.31
rs117229031	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	7	84944448	C	T	1858	1.06	0.23	0.00	0.01	20.33
rs79573082	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	8	20155237	A	G	1858	-0.63	0.14	0.00	0.01	19.97
rs111944709	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	8	4886462	C	G	1858	-0.67	0.15	0.00	0.01	21.11
rs112330535	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	8	97415144	G	C	1858	-0.41	0.09	0.00	0.01	21.08
rs11789887	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	9	130168840	A	G	1858	-0.16	0.03	0.00	0.01	20.90
rs79027682	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	10	30519550	C	G	1858	-0.23	0.05	0.00	0.01	21.62
rs78671194	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	10	73360670	G	A	1858	-1.85	0.40	0.00	0.01	21.34
rs72857552	CD11b- %CD33dim HT_A DR+ CD33dim HLA DR+	ebi-a-GCST90001528	11	11239846	T	C	1858	0.25	0.05	0.00	0.01	20.59
rs7156568	CD11b- %CD33dim HT_A DR+	ebi-a-GCST90001528	14	102533672	C	T	1858	-0.18	0.04	0.00	0.01	20.49

rs3826007	CD33dim HLA DR+ CD11b- %CD33dim	ebi-a-GCST90001528	15	80263217	T	C	1858	-0.35	0.04	0.00	0.04	76.97
rs17443769	HLA DR+ CD11b- %CD33dim	ebi-a-GCST90001528	16	9531278	T	C	1858	0.92	0.20	0.00	0.01	20.37
rs6105661	HLA DR+ CD11b- %CD33dim	ebi-a-GCST90001528	20	16785806	A	G	1858	-0.17	0.04	0.00	0.01	21.79
rs2097380	HLA DR+ CD11b- %CD33dim	ebi-a-GCST90001528	22	49658809	G	C	1858	-0.16	0.04	0.00	0.01	20.54
rs12239179	HLA DR+ CD66b++ myeloid cell AC	ebi-a-GCST90001529	1	198976492	T	C	1858	-0.18	0.04	0.00	0.01	19.69
rs2070901	CD66b++ myeloid cell AC	ebi-a-GCST90001529	1	161185058	T	G	1858	0.19	0.04	0.00	0.01	26.87
rs10803923	CD66b++ myeloid cell AC	ebi-a-GCST90001529	2	179931060	C	T	1858	0.22	0.05	0.00	0.01	20.67
rs59277927	CD66b++ myeloid cell AC	ebi-a-GCST90001529	2	223074399	A	C	1858	0.21	0.05	0.00	0.01	21.29
rs2630166	CD66b++ myeloid cell AC	ebi-a-GCST90001529	3	60042425	G	C	1858	0.20	0.04	0.00	0.01	22.29
rs116795543	CD66b++ myeloid cell AC	ebi-a-GCST90001529	3	188082404	A	G	1858	1.00	0.22	0.00	0.01	20.13
rs114469087	CD66b++ myeloid cell AC	ebi-a-GCST90001529	4	90493819	A	T	1858	0.50	0.10	0.00	0.01	23.20
rs1047483	CD66b++ myeloid cell AC	ebi-a-GCST90001529	5	52249612	T	A	1858	-0.15	0.03	0.00	0.01	21.06
rs71536865	CD66b++ myeloid cell AC	ebi-a-GCST90001529	7	11873259	T	G	1858	-0.36	0.08	0.00	0.01	20.22
rs72845259	CD66b++ myeloid cell AC	ebi-a-GCST90001529	10	132711992	A	G	1858	1.74	0.37	0.00	0.01	21.87
rs11218704	CD66b++ myeloid cell AC	ebi-a-GCST90001529	11	122458787	G	A	1858	0.34	0.07	0.00	0.01	23.91
rs11114486	CD66b++ myeloid cell AC	ebi-a-GCST90001529	12	80899901	A	C	1858	0.15	0.03	0.00	0.01	19.81
rs1899009	CD66b++ myeloid cell AC	ebi-a-GCST90001529	12	74096868	G	A	1858	0.20	0.04	0.00	0.01	25.60
rs78384212	CD66b++ myeloid cell AC	ebi-a-GCST90001529	14	60291874	T	C	1858	0.34	0.08	0.00	0.01	20.72
rs2911266	CD66b++ myeloid cell AC	ebi-a-GCST90001529	16	89509001	T	C	1858	-0.15	0.03	0.00	0.01	19.84
rs111580523	CD66b++ myeloid cell AC	ebi-a-GCST90001529	18	57183504	C	A	1858	0.90	0.20	0.00	0.01	20.53
rs10419309	CD66b++ myeloid cell AC	ebi-a-GCST90001529	19	52138563	G	A	1858	0.18	0.03	0.00	0.02	28.57
rs16979810	CD66b++ myeloid cell AC	ebi-a-GCST90001529	20	18935780	T	C	1858	0.26	0.06	0.00	0.01	19.87

rs148676149	CD66b++ myeloid cell	ebi-a-GCST90001529	22	47075772	A	G	1858	-0.30	0.07	0.00	0.01	19.63
rs12736179	Mo MDSC AC	ebi-a-GCST90001530	1	20887141	T	C	1855	-0.17	0.04	0.00	0.01	21.95
rs12082268	Mo MDSC AC	ebi-a-GCST90001530	1	217288095	C	T	1855	0.49	0.11	0.00	0.01	20.07
rs10458377	Mo MDSC AC	ebi-a-GCST90001530	1	226154277	G	A	1855	-0.22	0.05	0.00	0.01	21.37
rs10176753	Mo MDSC AC	ebi-a-GCST90001530	2	133046981	G	A	1855	-0.16	0.03	0.00	0.01	21.42
rs147643522	Mo MDSC AC	ebi-a-GCST90001530	3	185678332	C	T	1855	1.28	0.28	0.00	0.01	21.55
rs9271768	Mo MDSC AC	ebi-a-GCST90001530	6	32594188	G	A	1855	0.37	0.04	0.00	0.04	84.63
rs9270591	Mo MDSC AC	ebi-a-GCST90001530	6	32561424	T	C	1855	0.42	0.04	0.00	0.06	114.47
rs2071473	Mo MDSC AC	ebi-a-GCST90001530	6	32782605	T	C	1855	-0.24	0.04	0.00	0.02	40.61
rs80032720	Mo MDSC AC	ebi-a-GCST90001530	6	32384933	A	G	1855	-0.44	0.07	0.00	0.02	39.36
rs7757733	Mo MDSC AC	ebi-a-GCST90001530	6	5580339	A	G	1855	-0.15	0.03	0.00	0.01	21.74
rs112611150	Mo MDSC AC	ebi-a-GCST90001530	7	186897	T	C	1855	-0.31	0.07	0.00	0.01	21.61
rs9792404	Mo MDSC AC	ebi-a-GCST90001530	9	8429048	A	G	1855	0.20	0.04	0.00	0.01	20.08
rs11112649	Mo MDSC AC	ebi-a-GCST90001530	12	106064969	C	G	1855	-0.17	0.04	0.00	0.01	22.52
rs1800973	Mo MDSC AC	ebi-a-GCST90001530	12	69744014	A	C	1855	0.31	0.06	0.00	0.01	26.14
rs10082958	Mo MDSC AC	ebi-a-GCST90001530	12	89653407	T	A	1855	0.21	0.05	0.00	0.01	19.71
rs12885009	Mo MDSC AC	ebi-a-GCST90001530	14	85063049	A	C	1855	-0.17	0.04	0.00	0.01	21.98
rs3007125	Mo MDSC AC	ebi-a-GCST90001530	14	47267652	T	C	1855	0.20	0.04	0.00	0.01	20.79
rs78949787	Mo MDSC AC	ebi-a-GCST90001530	19	51591138	T	C	1855	0.15	0.03	0.00	0.01	21.04
rs1354106	Mo MDSC AC	ebi-a-GCST90001530	19	51737991	G	T	1855	-0.43	0.04	0.00	0.06	126.60
rs114590598	CD33dim HLA DR- AC	ebi-a-GCST90001531	1	185852065	T	C	1856	2.43	0.42	0.00	0.02	33.21
rs10515946	CD33dim HLA DR- AC	ebi-a-GCST90001531	2	208038537	C	A	1856	0.56	0.13	0.00	0.01	19.86
rs9842941	CD33dim HLA DR- AC	ebi-a-GCST90001531	3	128441690	G	T	1856	-0.19	0.04	0.00	0.01	24.91
rs138503959	CD33dim HLA DR- AC	ebi-a-GCST90001531	3	89320290	A	C	1856	-0.48	0.11	0.00	0.01	19.86
rs146071030	CD33dim HLA DR- AC	ebi-a-GCST90001531	3	134673672	A	G	1856	0.60	0.13	0.00	0.01	20.24
rs6851258	CD33dim HLA DR- AC	ebi-a-GCST90001531	4	113247850	G	A	1856	0.15	0.03	0.00	0.01	20.03
rs74831462	CD33dim HLA DR- AC	ebi-a-GCST90001531	5	95242577	G	A	1856	2.72	0.58	0.00	0.01	22.13
rs116166244	CD33dim HLA DR- AC	ebi-a-GCST90001531	5	110463783	C	G	1856	2.68	0.58	0.00	0.01	21.61
rs403939	CD33dim HLA DR- AC	ebi-a-GCST90001531	8	144555482	C	T	1856	0.19	0.04	0.00	0.01	22.54
rs962695	CD33dim HLA DR- AC	ebi-a-GCST90001531	8	80656206	C	T	1856	0.17	0.04	0.00	0.01	21.31
rs9297816	CD33dim HLA DR- AC	ebi-a-GCST90001531	8	132011279	A	G	1856	0.18	0.04	0.00	0.01	24.87
rs11203701	CD33dim HLA DR- AC	ebi-a-GCST90001531	8	15256015	A	G	1856	0.16	0.03	0.00	0.01	21.77
rs78915471	CD33dim HLA DR- AC	ebi-a-GCST90001531	10	18406409	G	A	1856	3.19	0.71	0.00	0.01	20.23
rs78338533	CD33dim HLA DR- AC	ebi-a-GCST90001531	10	11630331	G	A	1856	2.43	0.50	0.00	0.01	24.10
rs72776409	CD33dim HLA DR- AC	ebi-a-GCST90001531	10	759450	T	C	1856	-0.83	0.18	0.00	0.01	20.99
rs142419042	CD33dim HLA DR- AC	ebi-a-GCST90001531	11	104445613	T	C	1856	-0.55	0.11	0.00	0.01	23.72

rs117780942	CD33dim HLA DR- AC	ebi-a-GCST90001531	11	105062174	A	C	1856	-0.49	0.11	0.00	0.01	21.07
rs7987975	CD33dim HLA DR- AC	ebi-a-GCST90001531	13	114578893	G	A	1856	0.19	0.04	0.00	0.01	21.70
rs117197348	CD33dim HLA DR- AC	ebi-a-GCST90001531	14	90893228	A	G	1856	2.12	0.48	0.00	0.01	19.70
rs77388515	CD33dim HLA DR- AC	ebi-a-GCST90001531	19	34133960	G	A	1856	-0.28	0.06	0.00	0.01	23.67
rs33978622	CD33dim HLA DR- AC	ebi-a-GCST90001531	19	51736383	C	G	1856	-0.47	0.04	0.00	0.07	149.52
rs78744187	CD33dim HLA DR- AC	ebi-a-GCST90001531	19	33754548	T	C	1856	-0.51	0.07	0.00	0.03	57.39
rs55678760	CD33dim HLA DR- AC	ebi-a-GCST90001531	20	58069558	C	T	1856	0.18	0.04	0.00	0.01	22.16
rs2013837	CD33dim HLA DR- AC	ebi-a-GCST90001531	22	39271617	A	G	1856	-0.16	0.03	0.00	0.01	24.41
rs1475853	CD33dim HLA DR- AC	ebi-a-GCST90001531	22	25145753	A	G	1856	0.49	0.11	0.00	0.01	19.82
rs114590598	Basophil AC	ebi-a-GCST90001532	1	185852065	T	C	1857	2.42	0.42	0.00	0.02	33.13
rs138503959	Basophil AC	ebi-a-GCST90001532	3	89320290	A	C	1857	-0.48	0.11	0.00	0.01	19.70
rs9842941	Basophil AC	ebi-a-GCST90001532	3	128441690	G	T	1857	-0.20	0.04	0.00	0.01	26.33
rs6446560	Basophil AC	ebi-a-GCST90001532	4	4257901	T	C	1857	-0.15	0.03	0.00	0.01	19.93
rs116166244	Basophil AC	ebi-a-GCST90001532	5	110463783	C	G	1857	2.76	0.57	0.00	0.01	23.10
rs74831462	Basophil AC	ebi-a-GCST90001532	5	95242577	G	A	1857	2.77	0.58	0.00	0.01	23.09
rs3897098	Basophil AC	ebi-a-GCST90001532	8	83786650	G	A	1857	-0.16	0.04	0.00	0.01	19.65
rs9297816	Basophil AC	ebi-a-GCST90001532	8	132011279	A	G	1857	0.18	0.04	0.00	0.01	25.98
rs403939	Basophil AC	ebi-a-GCST90001532	8	144555482	C	T	1857	0.19	0.04	0.00	0.01	23.80
rs35406957	Basophil AC	ebi-a-GCST90001532	8	130634816	A	G	1857	-0.16	0.04	0.00	0.01	20.97
rs11203701	Basophil AC	ebi-a-GCST90001532	8	15256015	A	G	1857	0.16	0.03	0.00	0.01	21.89
rs78915471	Basophil AC	ebi-a-GCST90001532	10	18406409	G	A	1857	3.27	0.71	0.00	0.01	21.34
rs78338533	Basophil AC	ebi-a-GCST90001532	10	11630331	G	A	1857	2.43	0.49	0.00	0.01	24.26
rs117780942	Basophil AC	ebi-a-GCST90001532	11	105062174	A	C	1857	-0.53	0.11	0.00	0.01	25.24
rs142419042	Basophil AC	ebi-a-GCST90001532	11	104445613	T	C	1857	-0.59	0.11	0.00	0.01	27.67
rs117197348	Basophil AC	ebi-a-GCST90001532	14	90893228	A	G	1857	2.14	0.48	0.00	0.01	20.27
rs3865444	Basophil AC	ebi-a-GCST90001532	19	51727962	A	C	1857	-0.49	0.04	0.00	0.08	157.95
rs77388515	Basophil AC	ebi-a-GCST90001532	19	34133960	G	A	1857	-0.30	0.06	0.00	0.01	27.94
rs75773078	Basophil AC	ebi-a-GCST90001532	19	51742145	A	G	1857	-0.29	0.06	0.00	0.01	22.08
rs78744187	Basophil AC	ebi-a-GCST90001532	19	33754548	T	C	1857	-0.50	0.07	0.00	0.03	56.27
rs7351079	Basophil AC	ebi-a-GCST90001532	19	51574038	G	A	1857	-0.19	0.04	0.00	0.01	24.85
rs55678760	Basophil AC	ebi-a-GCST90001532	20	58069558	C	T	1857	0.18	0.04	0.00	0.01	22.02
rs2013837	Basophil AC	ebi-a-GCST90001532	22	39271617	A	G	1857	-0.16	0.03	0.00	0.01	23.00
rs1475853	Basophil AC	ebi-a-GCST90001532	22	25145753	A	G	1857	0.50	0.11	0.00	0.01	20.53
rs61823496	Basophil %CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	1	223653616	G	T	1857	-0.19	0.04	0.00	0.01	19.78
rs75165408	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	3	67867718	A	G	1857	0.27	0.06	0.00	0.01	19.76
rs4350951	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	3	169241641	A	G	1857	0.18	0.04	0.00	0.01	23.27
rs4679209	%CD33dim HLA DR- CD66b-	ebi-a-GCST90001533	3	125887424	T	C	1857	0.16	0.03	0.00	0.01	22.99

rs72777352	Basophil %CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	5	94316089	A	T	1857	-0.70	0.16	0.00	0.01	20.33
rs118101102	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	6	79907097	G	C	1857	-0.60	0.13	0.00	0.01	21.05
rs2392579	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	7	38540948	G	A	1857	-0.26	0.06	0.00	0.01	20.91
rs13237906	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	7	101155469	T	G	1857	0.16	0.03	0.00	0.01	22.62
rs16872136	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	8	106003701	G	A	1857	-0.42	0.09	0.00	0.01	22.93
rs49195	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	8	71550708	T	C	1857	0.18	0.04	0.00	0.01	21.63
rs72714455	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	8	131925751	T	C	1857	0.15	0.03	0.00	0.01	20.47
rs1924240	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	9	85792653	C	T	1857	-0.18	0.04	0.00	0.01	19.64
rs73163591	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	13	28146072	A	C	1857	0.30	0.07	0.00	0.01	19.94
rs62024809	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	15	53420725	T	C	1857	-0.76	0.17	0.00	0.01	19.87
rs208569	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	16	22868035	C	T	1857	0.25	0.05	0.00	0.01	21.28
rs7351079	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	19	51574038	G	A	1857	-0.28	0.04	0.00	0.03	55.54
rs117417480	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	19	54429001	T	G	1857	0.81	0.15	0.00	0.02	29.80
rs3865444	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	19	51727962	A	C	1857	-0.52	0.04	0.00	0.09	187.01
rs4499342	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	19	8786913	T	C	1857	0.25	0.05	0.00	0.02	30.45
rs422720	%CD33dim HLA DR- CD66b- Basophil	ebi-a-GCST90001533	21	46578954	A	C	1857	0.16	0.03	0.00	0.01	22.43
rs2244104	%CD33dim HLA DR- CD66b- CD45RA- CD4+ AC	ebi-a-GCST90001533	22	39410500	G	C	1857	-0.14	0.03	0.00	0.01	19.76
rs150956189	CD45RA- CD4+ AC	ebi-a-GCST90001534	1	214625781	C	T	3395	-2.99	0.66	0.00	0.01	20.39
rs541367304	CD45RA- CD4+ AC	ebi-a-GCST90001534	1	198283058	A	G	3395	-1.86	0.27	0.00	0.01	48.34
rs6743943	CD45RA- CD4+ AC	ebi-a-GCST90001534	2	118512809	C	T	3395	0.14	0.03	0.00	0.01	25.99

rs148716007	CD45RA- CD4+ AC	ebi-a-GCST90001534	5	120094917	T	C	3395	0.29	0.06	0.00	0.01	21.33
rs117563350	CD45RA- CD4+ AC	ebi-a-GCST90001534	6	151699396	G	A	3395	-0.34	0.07	0.00	0.01	21.10
rs55905714	CD45RA- CD4+ AC	ebi-a-GCST90001534	6	68723598	C	A	3395	0.17	0.04	0.00	0.01	20.93
rs62447160	CD45RA- CD4+ AC	ebi-a-GCST90001534	7	36527098	C	T	3395	-0.14	0.03	0.00	0.01	26.05
rs73176863	CD45RA- CD4+ AC	ebi-a-GCST90001534	7	156112045	T	G	3395	2.34	0.53	0.00	0.01	19.60
rs41306808	CD45RA- CD4+ AC	ebi-a-GCST90001534	10	12164786	G	C	3395	0.23	0.05	0.00	0.01	22.66
rs137903114	CD45RA- CD4+ AC	ebi-a-GCST90001534	11	130770585	C	T	3395	-0.96	0.21	0.00	0.01	20.13
rs11062774	CD45RA- CD4+ AC	ebi-a-GCST90001534	12	3830558	G	A	3395	0.18	0.04	0.00	0.01	24.06
rs653178	CD45RA- CD4+ AC	ebi-a-GCST90001534	12	112007756	T	C	3395	-0.16	0.03	0.00	0.01	32.64
rs7162344	CD45RA- CD4+ AC	ebi-a-GCST90001534	15	26030485	A	G	3395	-0.13	0.03	0.00	0.01	24.89
rs4357954	CD45RA- CD4+ AC	ebi-a-GCST90001534	16	7395086	G	C	3395	-0.24	0.05	0.00	0.01	25.01
rs145638437	CD45RA- CD4+ AC	ebi-a-GCST90001534	16	27137016	A	G	3395	0.71	0.16	0.00	0.01	20.05
rs9961909	CD45RA- CD4+ AC	ebi-a-GCST90001534	18	49180597	C	T	3395	-0.31	0.06	0.00	0.01	22.92
rs184600191	CD45RA- CD4+ AC	ebi-a-GCST90001534	18	14436972	G	A	3395	-0.38	0.08	0.00	0.01	19.63
rs116794175	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	1	194010208	C	T	3427	-0.81	0.18	0.00	0.01	19.68
rs12121018	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	1	94176595	A	G	3427	-0.16	0.03	0.00	0.01	24.99
rs114825362	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	1	101526164	C	G	3427	-0.39	0.09	0.00	0.01	21.01
rs150607181	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	1	239680551	C	G	3427	-0.43	0.09	0.00	0.01	20.54
rs76201922	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	1	226764439	G	C	3427	-0.38	0.09	0.00	0.01	20.31
rs146620586	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	1	198524264	T	G	3427	-2.02	0.27	0.00	0.02	57.91
rs146674398	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	1	187940731	T	C	3427	-0.42	0.09	0.00	0.01	19.67
rs11579717	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	1	199999121	A	G	3427	-1.08	0.18	0.00	0.01	37.75
rs10432663	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	2	41955462	C	T	3427	-0.14	0.03	0.00	0.01	21.78
rs11124653	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	2	39112166	A	C	3427	0.13	0.02	0.00	0.01	30.29
rs72613709	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	2	197060767	G	T	3427	0.29	0.06	0.00	0.01	21.35
rs12712610	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	2	38897249	G	A	3427	-0.19	0.03	0.00	0.02	53.52
rs183293285	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	3	75917650	T	C	3427	-0.43	0.09	0.00	0.01	21.41
rs10013469	CD4+ %CD4+ CD45RA-	ebi-a-GCST90001535	4	185924276	A	G	3427	0.19	0.04	0.00	0.01	22.76
rs931555	CD4+ %CD4+	ebi-a-GCST90001535	5	35803577	T	C	3427	-0.12	0.03	0.00	0.01	19.69

rs62341785	CD45RA- CD4+	ebi-a-GCST90001535	5	7272022	G	A	3427	0.13	0.03	0.00	0.01	20.58
rs7700617	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	5	39546706	A	C	3427	-0.11	0.02	0.00	0.01	20.27
rs9271766	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	6	32594169	G	A	3427	-0.16	0.03	0.00	0.01	23.19
rs71569312	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	6	35830034	T	C	3427	0.43	0.09	0.00	0.01	21.67
rs10230422	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	7	16431997	A	G	3427	0.19	0.04	0.00	0.01	20.36
rs10269315	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	7	119060402	T	C	3427	0.61	0.13	0.00	0.01	20.76
rs76139558	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	10	2787360	C	G	3427	0.69	0.14	0.00	0.01	24.40
rs1250600	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	10	81010850	G	T	3427	-0.11	0.03	0.00	0.01	20.10
rs141350785	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	11	5240669	C	G	3427	-0.25	0.06	0.00	0.01	20.91
rs73189225	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	12	108927798	A	G	3427	-0.17	0.04	0.00	0.01	19.97
rs1849779	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	12	43674787	T	C	3427	-0.11	0.02	0.00	0.01	20.88
rs146329634	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	14	89433599	T	C	3427	0.31	0.07	0.00	0.01	22.84
rs2252009	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	16	3214442	G	T	3427	0.14	0.03	0.00	0.01	20.19
rs7216330	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	17	4102387	T	C	3427	-0.12	0.02	0.00	0.01	22.89
rs76516339	%CD4+ CD45RA- CD4+	ebi-a-GCST90001535	18	74287337	T	A	3427	-0.16	0.03	0.00	0.01	26.29
rs11579717	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	1	199999121	A	G	3427	-0.93	0.18	0.00	0.01	27.33
rs146620586	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	1	198524264	T	G	3427	-1.99	0.27	0.00	0.02	54.63
rs150422994	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	1	21018820	G	C	3427	-0.32	0.07	0.00	0.01	22.29
rs1581998	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	1	157535842	G	T	3427	-0.13	0.03	0.00	0.01	25.12
rs1380699	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	2	57906216	G	A	3427	-0.15	0.03	0.00	0.01	22.78
rs72795179	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	2	38931153	A	G	3427	0.11	0.02	0.00	0.01	20.72
rs12712610	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	2	38897249	G	A	3427	-0.16	0.03	0.00	0.01	38.02
rs190665193	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	2	106438361	G	A	3427	-3.15	0.65	0.00	0.01	23.49
rs6771179	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	3	14769598	G	C	3427	-0.11	0.02	0.00	0.01	21.67
rs7675607	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	4	37884855	G	T	3427	-0.12	0.03	0.00	0.01	21.17
rs10013442	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	4	185924195	A	G	3427	0.18	0.04	0.00	0.01	19.98
rs12498745	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	4	99216768	A	G	3427	-2.20	0.44	0.00	0.01	25.09
rs138143706	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	6	13138376	A	G	3427	-0.37	0.08	0.00	0.01	19.98
rs9271766	%CD4+ CD45RA- CD4+ %T	ebi-a-GCST90001536	6	32594169	G	A	3427	-0.18	0.03	0.00	0.01	28.57

rs74911099	CD45RA- CD4+ %T	ebi-a-GCST90001536	6	85644512	C	T	3427	-0.78	0.17	0.00	0.01	21.61
rs1051488	CD45RA- CD4+ %T	ebi-a-GCST90001536	6	31322911	T	C	3427	0.17	0.03	0.00	0.01	25.54
rs79647440	CD45RA- CD4+ %T	ebi-a-GCST90001536	7	142438302	T	C	3427	-4.11	0.77	0.00	0.01	28.44
rs144196931	CD45RA- CD4+ %T	ebi-a-GCST90001536	7	139232896	A	G	3427	-0.37	0.08	0.00	0.01	21.11
rs1550856	CD45RA- CD4+ %T	ebi-a-GCST90001536	8	117805397	G	A	3427	0.16	0.03	0.00	0.01	28.76
rs62539662	CD45RA- CD4+ %T	ebi-a-GCST90001536	9	10237013	C	A	3427	0.50	0.11	0.00	0.01	20.90
rs11201613	CD45RA- CD4+ %T	ebi-a-GCST90001536	10	87172617	A	G	3427	-0.46	0.10	0.00	0.01	21.27
rs188628982	CD45RA- CD4+ %T	ebi-a-GCST90001536	11	86965976	T	G	3427	0.34	0.08	0.00	0.01	19.73
rs7963505	CD45RA- CD4+ %T	ebi-a-GCST90001536	12	131363533	T	A	3427	0.13	0.03	0.00	0.01	19.83
rs142403852	CD45RA- CD4+ %T	ebi-a-GCST90001536	12	86979143	C	T	3427	-0.69	0.14	0.00	0.01	23.40
rs543009646	CD45RA- CD4+ %T	ebi-a-GCST90001536	16	16334247	T	C	3427	-0.37	0.08	0.00	0.01	19.66
rs12448994	CD45RA- CD4+ %T	ebi-a-GCST90001536	16	989381	T	C	3427	0.19	0.04	0.00	0.01	21.69
rs1626874	CD45RA- CD4+ %T	ebi-a-GCST90001536	18	66895282	A	G	3427	0.14	0.03	0.00	0.01	23.05
rs73196629	CD45RA- CD4+ %T	ebi-a-GCST90001536	21	19399885	G	A	3427	-0.61	0.13	0.00	0.01	23.47
rs12160006	CD45RA- CD4+ %T	ebi-a-GCST90001536	22	32667243	C	T	3427	-0.17	0.04	0.00	0.01	20.16
rs12043060	CM CD4+	ebi-a-GCST90001537	1	157059350	T	C	3395	0.12	0.03	0.00	0.01	23.03
rs541367304	CM CD4+	ebi-a-GCST90001537	1	198283058	A	G	3395	-1.33	0.26	0.00	0.01	25.87
rs10206629	CM CD4+	ebi-a-GCST90001537	2	38920333	C	T	3395	0.13	0.03	0.00	0.01	20.64
rs2875222	CM CD4+	ebi-a-GCST90001537	3	75433850	A	G	3395	-0.12	0.03	0.00	0.01	19.76
rs79668094	CM CD4+	ebi-a-GCST90001537	4	64094440	A	G	3395	1.78	0.38	0.00	0.01	21.51
rs11725186	CM CD4+	ebi-a-GCST90001537	4	94012466	A	T	3395	0.37	0.08	0.00	0.01	20.05
rs76664097	CM CD4+	ebi-a-GCST90001537	5	178428451	A	G	3395	-0.61	0.11	0.00	0.01	28.35
rs9271622	CM CD4+	ebi-a-GCST90001537	6	32591845	A	G	3395	0.18	0.03	0.00	0.01	27.30
rs13207893	CM CD4+	ebi-a-GCST90001537	6	32586922	C	T	3395	-0.15	0.03	0.00	0.01	21.89
rs34327811	CM CD4+	ebi-a-GCST90001537	6	148552958	C	T	3395	-0.20	0.04	0.00	0.01	21.12
rs75024452	CM CD4+	ebi-a-GCST90001537	6	7780498	T	A	3395	0.25	0.05	0.00	0.01	22.78
rs7760353	CM CD4+	ebi-a-GCST90001537	6	102207604	A	T	3395	0.23	0.05	0.00	0.01	20.61
rs17717645	CM CD4+	ebi-a-GCST90001537	7	18003774	C	T	3395	0.42	0.08	0.00	0.01	27.26
rs11990065	CM CD4+	ebi-a-GCST90001537	8	17277790	G	A	3395	0.25	0.06	0.00	0.01	19.84
rs118048878	CM CD4+	ebi-a-GCST90001537	9	27446846	A	G	3395	-0.30	0.07	0.00	0.01	19.85
rs183058497	CM CD4+	ebi-a-GCST90001537	12	65373483	C	G	3395	0.61	0.13	0.00	0.01	21.95
rs1913821	CM CD4+	ebi-a-GCST90001537	12	20885314	C	T	3395	-0.67	0.15	0.00	0.01	20.75
rs3184504	CM CD4+	ebi-a-GCST90001537	12	111884608	C	T	3395	-0.16	0.03	0.00	0.01	35.36
rs11062774	CM CD4+	ebi-a-GCST90001537	12	3830558	G	A	3395	0.16	0.03	0.00	0.01	20.89
rs151245760	CM CD4+	ebi-a-GCST90001537	12	16811638	C	T	3395	0.48	0.09	0.00	0.01	29.01
rs55873755	CM CD4+	ebi-a-GCST90001537	12	26948822	T	C	3395	-0.41	0.09	0.00	0.01	21.40
rs1980708	CM CD4+	ebi-a-GCST90001537	13	100586353	C	T	3395	-0.15	0.03	0.00	0.01	19.99
rs78720100	CM CD4+	ebi-a-GCST90001537	15	97948444	T	C	3395	0.26	0.06	0.00	0.01	20.29
rs7162344	CM CD4+	ebi-a-GCST90001537	15	26030485	A	G	3395	-0.12	0.03	0.00	0.01	21.09
rs117066544	CM CD4+	ebi-a-GCST90001537	17	7887429	A	G	3395	-0.30	0.07	0.00	0.01	19.75
rs144079997	CM CD4+	ebi-a-GCST90001537	17	72909337	T	C	3395	0.19	0.04	0.00	0.01	21.27
rs1043118	CM CD4+	ebi-a-GCST90001537	20	56223607	A	G	3395	0.32	0.07	0.00	0.01	23.69
rs61148192	CM CD4+	ebi-a-GCST90001537	20	10891892	G	A	3395	-0.23	0.05	0.00	0.01	19.88
rs17584809	AC	ebi-a-GCST90001537	21	33131559	T	C	3395	0.45	0.10	0.00	0.01	20.41

rs116640816	CM CD4+ %CD4+	ebi-a-GCST90001538	1	233503332	T	G	3427	0.40	0.09	0.00	0.01	22.25
rs76756517	CM CD4+ %CD4+	ebi-a-GCST90001538	1	27383717	A	G	3427	0.32	0.07	0.00	0.01	21.36
rs4497244	CM CD4+ %CD4+	ebi-a-GCST90001538	1	197997953	A	G	3427	-1.09	0.21	0.00	0.01	26.82
rs12409155	CM CD4+ %CD4+	ebi-a-GCST90001538	1	110998348	T	C	3427	-0.21	0.04	0.00	0.01	25.26
rs72817100	CM CD4+ %CD4+	ebi-a-GCST90001538	2	100426114	T	C	3427	-0.78	0.17	0.00	0.01	21.55
rs4473342	CM CD4+ %CD4+	ebi-a-GCST90001538	2	160994845	G	A	3427	0.41	0.09	0.00	0.01	22.15
rs963730	CM CD4+ %CD4+	ebi-a-GCST90001538	2	39216773	C	T	3427	0.17	0.04	0.00	0.01	21.19
rs59491101	CM CD4+ %CD4+	ebi-a-GCST90001538	2	62624970	T	C	3427	-0.58	0.13	0.00	0.01	21.24
rs6751481	CM CD4+ %CD4+	ebi-a-GCST90001538	2	38897810	C	T	3427	-0.17	0.03	0.00	0.01	45.43
rs6780334	CM CD4+ %CD4+	ebi-a-GCST90001538	3	177085939	C	T	3427	0.15	0.03	0.00	0.01	20.65
rs186961945	CM CD4+ %CD4+	ebi-a-GCST90001538	3	34562966	A	G	3427	0.32	0.07	0.00	0.01	21.23
rs12503846	CM CD4+ %CD4+	ebi-a-GCST90001538	4	181498148	T	G	3427	-0.21	0.04	0.00	0.01	25.17
rs10782230	CM CD4+ %CD4+	ebi-a-GCST90001538	6	126228512	A	G	3427	0.11	0.03	0.00	0.01	19.83
rs9396752	CM CD4+ %CD4+	ebi-a-GCST90001538	6	9941223	A	G	3427	0.20	0.04	0.00	0.01	21.60
rs10245930	CM CD4+ %CD4+	ebi-a-GCST90001538	7	21822311	G	C	3427	0.12	0.03	0.00	0.01	20.15
rs6954594	CM CD4+ %CD4+	ebi-a-GCST90001538	7	144239162	T	G	3427	0.26	0.06	0.00	0.01	21.44
rs13233481	CM CD4+ %CD4+	ebi-a-GCST90001538	7	130980127	G	A	3427	0.12	0.03	0.00	0.01	20.39
rs72694085	CM CD4+ %CD4+	ebi-a-GCST90001538	9	4651962	G	T	3427	0.28	0.06	0.00	0.01	21.85
rs113269772	CM CD4+ %CD4+	ebi-a-GCST90001538	9	79870974	C	T	3427	0.45	0.10	0.00	0.01	20.59
rs143395500	CM CD4+ %CD4+	ebi-a-GCST90001538	10	69536834	T	C	3427	-6.34	1.43	0.00	0.01	19.64
rs151245760	CM CD4+ %CD4+	ebi-a-GCST90001538	12	16811638	C	T	3427	0.40	0.09	0.00	0.01	20.25
rs12231781	CM CD4+ %CD4+	ebi-a-GCST90001538	12	16272142	C	A	3427	0.21	0.05	0.00	0.01	20.00
rs143624012	CM CD4+ %CD4+	ebi-a-GCST90001538	13	74308892	C	T	3427	0.59	0.13	0.00	0.01	20.91
rs2816718	CM CD4+ %CD4+	ebi-a-GCST90001538	14	49245824	C	A	3427	-0.16	0.03	0.00	0.01	21.45
rs4784296	CM CD4+ %CD4+	ebi-a-GCST90001538	16	51479349	A	G	3427	0.12	0.03	0.00	0.01	20.95
rs117765614	CM CD4+ %CD4+	ebi-a-GCST90001538	17	39786505	T	C	3427	0.43	0.09	0.00	0.01	21.36
rs186686893	CM CD4+ %CD4+	ebi-a-GCST90001538	17	37015917	A	G	3427	-0.34	0.07	0.00	0.01	22.34
rs8067124	CM CD4+ %CD4+	ebi-a-GCST90001538	17	38869490	T	A	3427	0.35	0.07	0.00	0.01	26.34
rs56350470	CM CD4+ %CD4+	ebi-a-GCST90001538	19	53813407	T	C	3427	0.19	0.04	0.00	0.01	21.32
rs73021131	CM CD4+ %CD4+	ebi-a-GCST90001538	19	16505722	A	T	3427	0.99	0.22	0.00	0.01	20.40
rs13041294	CM CD4+ %CD4+	ebi-a-GCST90001538	20	48024935	T	G	3427	0.15	0.03	0.00	0.01	20.63
rs74510800	CM CD4+ %CD4+	ebi-a-GCST90001538	22	36127324	A	G	3427	-1.25	0.26	0.00	0.01	22.51
rs10495355	CM CD4+ %T cell	ebi-a-GCST90001539	1	235018206	T	C	3427	-0.12	0.03	0.00	0.01	19.77
rs12409155	CM CD4+ %T cell	ebi-a-GCST90001539	1	110998348	T	C	3427	-0.19	0.04	0.00	0.01	20.97
rs12734326	CM CD4+ %T cell	ebi-a-GCST90001539	1	240644644	T	C	3427	0.12	0.03	0.00	0.01	22.43
rs143570471	CM CD4+ %T cell	ebi-a-GCST90001539	2	110018647	T	G	3427	1.29	0.29	0.00	0.01	19.60
rs6751481	CM CD4+ %T cell	ebi-a-GCST90001539	2	38897810	C	T	3427	-0.14	0.03	0.00	0.01	28.99

rs73171187	CM CD4+ %T cell	ebi-a-GCST90001539	3	177034032	G	T	3427	0.24	0.05	0.00	0.01	23.45
rs148365679	CM CD4+ %T cell	ebi-a-GCST90001539	3	194035416	A	G	3427	0.21	0.04	0.00	0.01	24.95
rs73206223	CM CD4+ %T cell	ebi-a-GCST90001539	4	5821635	G	C	3427	0.46	0.09	0.00	0.01	23.76
rs715997	CM CD4+ %T cell	ebi-a-GCST90001539	4	182072648	T	C	3427	-0.13	0.03	0.00	0.01	19.68
rs149778510	CM CD4+ %T cell	ebi-a-GCST90001539	4	112434921	T	G	3427	0.36	0.08	0.00	0.01	19.78
rs17230697	CM CD4+ %T cell	ebi-a-GCST90001539	4	55480792	T	C	3427	-0.13	0.03	0.00	0.01	20.74
rs114753591	CM CD4+ %T cell	ebi-a-GCST90001539	5	43356042	A	G	3427	0.25	0.05	0.00	0.01	22.32
rs2127105	CM CD4+ %T cell	ebi-a-GCST90001539	5	172260234	T	C	3427	0.12	0.03	0.00	0.01	21.69
rs7757458	CM CD4+ %T cell	ebi-a-GCST90001539	6	103618303	G	A	3427	0.44	0.10	0.00	0.01	20.87
rs13233481	CM CD4+ %T cell	ebi-a-GCST90001539	7	130980127	G	A	3427	0.12	0.03	0.00	0.01	20.38
rs1983285	CM CD4+ %T cell	ebi-a-GCST90001539	7	131783062	C	T	3427	0.18	0.04	0.00	0.01	19.91
rs62525675	CM CD4+ %T cell	ebi-a-GCST90001539	8	87705654	T	A	3427	-0.14	0.03	0.00	0.01	22.13
rs72694085	CM CD4+ %T cell	ebi-a-GCST90001539	9	4651962	G	T	3427	0.31	0.06	0.00	0.01	25.69
rs12805205	CM CD4+ %T cell	ebi-a-GCST90001539	11	97164068	C	G	3427	-0.23	0.05	0.00	0.01	20.74
rs151245760	CM CD4+ %T cell	ebi-a-GCST90001539	12	16811638	C	T	3427	0.45	0.09	0.00	0.01	24.45
rs10846286	CM CD4+ %T cell	ebi-a-GCST90001539	12	16252521	G	A	3427	0.26	0.06	0.00	0.01	19.62
rs7963505	CM CD4+ %T cell	ebi-a-GCST90001539	12	131363533	T	A	3427	0.14	0.03	0.00	0.01	20.49
rs4784296	CM CD4+ %T cell	ebi-a-GCST90001539	16	51479349	A	G	3427	0.12	0.03	0.00	0.01	20.58
rs12453732	CM CD4+ %T cell	ebi-a-GCST90001539	17	38177839	C	A	3427	-0.14	0.03	0.00	0.01	22.95
rs13041294	CM CD4+ %T cell	ebi-a-GCST90001539	20	48024935	T	G	3427	0.16	0.03	0.00	0.01	20.63
rs10485474	CM CD4+ %T cell	ebi-a-GCST90001539	20	59473649	A	G	3427	0.15	0.03	0.00	0.01	19.73
rs9998896	Naive CD4+ AC	ebi-a-GCST90001540	4	94816722	A	G	3395	0.18	0.04	0.00	0.01	21.17
rs186690287	Naive CD4+ AC	ebi-a-GCST90001540	4	109425453	C	T	3395	0.56	0.13	0.00	0.01	20.21
rs4282192	Naive CD4+ AC	ebi-a-GCST90001540	4	38320205	G	T	3395	0.13	0.03	0.00	0.01	20.32
rs72776301	Naive CD4+ AC	ebi-a-GCST90001540	5	79555714	T	G	3395	0.20	0.04	0.00	0.01	21.77
rs151100670	Naive CD4+ AC	ebi-a-GCST90001540	5	141405792	G	A	3395	-0.24	0.05	0.00	0.01	20.13
rs7704364	Naive CD4+ AC	ebi-a-GCST90001540	5	8105516	A	G	3395	0.11	0.03	0.00	0.01	20.04
rs143021470	Naive CD4+ AC	ebi-a-GCST90001540	6	81026437	G	C	3395	1.46	0.33	0.00	0.01	19.74
rs17205612	Naive CD4+ AC	ebi-a-GCST90001540	6	32637333	T	C	3395	-0.19	0.04	0.00	0.01	26.41
rs139014478	Naive CD4+ AC	ebi-a-GCST90001540	6	51524409	T	G	3395	0.74	0.17	0.00	0.01	19.60
rs9271772	Naive CD4+ AC	ebi-a-GCST90001540	6	32594275	A	G	3395	0.25	0.03	0.00	0.02	53.88
rs3129891	Naive CD4+ AC	ebi-a-GCST90001540	6	32415080	A	G	3395	-0.22	0.03	0.00	0.01	42.21
rs77253141	Naive CD4+ AC	ebi-a-GCST90001540	8	24504854	C	T	3395	0.29	0.06	0.00	0.01	20.37
rs71501086	Naive CD4+ AC	ebi-a-GCST90001540	9	11010939	C	T	3395	-0.31	0.07	0.00	0.01	19.59
rs55996464	Naive CD4+ AC	ebi-a-GCST90001540	9	130525294	A	G	3395	0.21	0.04	0.00	0.01	25.87
rs78628680	Naive CD4+ AC	ebi-a-GCST90001540	10	114300633	G	A	3395	0.34	0.08	0.00	0.01	20.66
rs75958070	Naive CD4+ AC	ebi-a-GCST90001540	11	79203049	C	G	3395	-0.17	0.04	0.00	0.01	22.14

rs3184504	Naive CD4+ AC	ebi-a-GCST90001540	12	111884608	C	T	3395	-0.12	0.03	0.00	0.01	20.35
rs980169	Naive CD4+ AC	ebi-a-GCST90001540	15	96720568	G	A	3395	0.11	0.03	0.00	0.01	19.76
rs75139198	Naive CD4+ AC	ebi-a-GCST90001540	15	96213762	T	G	3395	0.12	0.03	0.00	0.01	19.86
rs12916593	Naive CD4+ AC	ebi-a-GCST90001540	15	26130511	A	G	3395	0.12	0.03	0.00	0.01	20.12
rs113039817	Naive CD4+ AC	ebi-a-GCST90001540	16	7395808	T	C	3395	-0.47	0.10	0.00	0.01	20.98
rs12607959	Naive CD4+ AC	ebi-a-GCST90001540	18	65226341	G	C	3395	-0.32	0.07	0.00	0.01	23.68
rs79538978	Naive CD4+ AC	ebi-a-GCST90001540	18	54960800	C	T	3395	0.31	0.06	0.00	0.01	24.18
rs78280695	Naive CD4+ AC	ebi-a-GCST90001540	19	15667049	C	A	3395	0.21	0.04	0.00	0.01	23.99
rs78897171	Naive CD4+ AC	ebi-a-GCST90001540	20	60443251	A	G	3395	-1.11	0.24	0.00	0.01	20.94
rs113148171	Naive CD4+ AC	ebi-a-GCST90001540	22	46993034	T	G	3395	0.25	0.06	0.00	0.01	20.44
rs11579717	Naive CD4+ %CD4+	ebi-a-GCST90001541	1	199999121	A	G	3427	0.83	0.17	0.00	0.01	23.43
rs146620586	Naive CD4+ %CD4+	ebi-a-GCST90001541	1	198524264	T	G	3427	1.50	0.26	0.00	0.01	32.94
rs12121018	Naive CD4+ %CD4+	ebi-a-GCST90001541	1	94176595	A	G	3427	0.14	0.03	0.00	0.01	21.18
rs114825362	Naive CD4+ %CD4+	ebi-a-GCST90001541	1	101526164	C	G	3427	0.43	0.08	0.00	0.01	27.15
rs150607181	Naive CD4+ %CD4+	ebi-a-GCST90001541	1	239680551	C	G	3427	0.44	0.09	0.00	0.01	23.37
rs12712610	Naive CD4+ %CD4+	ebi-a-GCST90001541	2	38897249	G	A	3427	0.15	0.03	0.00	0.01	32.68
rs11124653	Naive CD4+ %CD4+	ebi-a-GCST90001541	2	39112166	A	C	3427	-0.11	0.02	0.00	0.01	22.62
rs72613709	Naive CD4+ %CD4+	ebi-a-GCST90001541	2	197060767	G	T	3427	-0.30	0.06	0.00	0.01	23.41
rs11716653	Naive CD4+ %CD4+	ebi-a-GCST90001541	3	174932703	C	G	3427	0.11	0.02	0.00	0.01	19.75
rs62274365	Naive CD4+ %CD4+	ebi-a-GCST90001541	3	103225168	G	A	3427	0.25	0.05	0.00	0.01	20.61
rs7636470	Naive CD4+ %CD4+	ebi-a-GCST90001541	3	186606581	G	C	3427	0.14	0.03	0.00	0.01	19.59
rs36088117	Naive CD4+ %CD4+	ebi-a-GCST90001541	4	11877955	T	G	3427	0.16	0.03	0.00	0.01	21.74
rs140125890	Naive CD4+ %CD4+	ebi-a-GCST90001541	4	40884597	C	G	3427	0.64	0.13	0.00	0.01	23.38
rs4702116	Naive CD4+ %CD4+	ebi-a-GCST90001541	5	15902603	C	G	3427	-0.18	0.04	0.00	0.01	24.84
rs4959365	Naive CD4+ %CD4+	ebi-a-GCST90001541	6	6026750	G	A	3427	-0.11	0.02	0.00	0.01	22.10
rs148031710	Naive CD4+ %CD4+	ebi-a-GCST90001541	6	31148873	C	T	3427	-0.25	0.05	0.00	0.01	23.27
rs9271536	Naive CD4+ %CD4+	ebi-a-GCST90001541	6	32589978	T	A	3427	0.23	0.03	0.00	0.01	48.65
rs113243185	Naive CD4+ %CD4+	ebi-a-GCST90001541	6	32585071	C	G	3427	-0.21	0.04	0.00	0.01	33.41
rs17205612	Naive CD4+ %CD4+	ebi-a-GCST90001541	6	32637333	T	C	3427	-0.17	0.04	0.00	0.01	22.20
rs7798224	Naive CD4+ %CD4+	ebi-a-GCST90001541	7	103375873	C	G	3427	0.36	0.08	0.00	0.01	22.73
rs113763504	Naive CD4+ %CD4+	ebi-a-GCST90001541	10	81110536	A	G	3427	-0.65	0.14	0.00	0.01	19.99
rs76139558	Naive CD4+ %CD4+	ebi-a-GCST90001541	10	2787360	C	G	3427	-0.63	0.14	0.00	0.01	21.25
rs73189225	Naive CD4+ %CD4+	ebi-a-GCST90001541	12	108927798	A	G	3427	0.17	0.04	0.00	0.01	21.09
rs1849779	Naive CD4+ %CD4+	ebi-a-GCST90001541	12	43674787	T	C	3427	0.11	0.02	0.00	0.01	20.77
rs146180953	Naive CD4+ %CD4+	ebi-a-GCST90001541	13	100509066	T	C	3427	0.12	0.03	0.00	0.01	20.18
rs146329634	Naive CD4+ %CD4+	ebi-a-GCST90001541	14	89433599	T	C	3427	-0.32	0.06	0.00	0.01	24.98
rs77572771	Naive CD4+ %CD4+	ebi-a-GCST90001541	15	63059380	G	A	3427	0.80	0.18	0.00	0.01	19.76

rs8071815	Naive CD4+ %CD4+	ebi-a-GCST90001541	17	47988216	C	A	3427	0.11	0.02	0.00	0.01	19.56
rs66679234	Naive CD4+ %CD4+	ebi-a-GCST90001541	17	4224639	T	C	3427	-0.12	0.02	0.00	0.01	26.48
rs11652705	Naive CD4+ %CD4+	ebi-a-GCST90001541	17	41761741	G	A	3427	-0.14	0.03	0.00	0.01	20.09
rs12607959	Naive CD4+ %CD4+	ebi-a-GCST90001541	18	65226341	G	C	3427	-0.29	0.06	0.00	0.01	19.67
rs8091016	Naive CD4+ %CD4+	ebi-a-GCST90001541	18	74288206	G	C	3427	-0.15	0.03	0.00	0.01	21.54
rs79538978	Naive CD4+ %CD4+	ebi-a-GCST90001541	18	54960800	C	T	3427	0.28	0.06	0.00	0.01	21.09
rs6046769	Naive CD4+ %CD4+	ebi-a-GCST90001541	20	20238128	G	A	3427	0.11	0.02	0.00	0.01	19.75
rs117262034	Naive CD4+ %CD4+	ebi-a-GCST90001541	22	19597257	T	G	3427	0.38	0.08	0.00	0.01	20.41
rs5767274	Naive CD4+ %CD4+	ebi-a-GCST90001541	22	46980774	T	C	3427	0.16	0.03	0.00	0.01	20.89
rs541367304	EM CD4+	ebi-a-GCST90001542	1	198283058	A	G	3395	-1.79	0.26	0.00	0.01	46.19
rs11579717	EM CD4+	ebi-a-GCST90001542	1	199999121	A	G	3395	-0.86	0.19	0.00	0.01	19.92
rs150956189	EM CD4+	ebi-a-GCST90001542	1	214625781	C	T	3395	-3.04	0.65	0.00	0.01	21.60
rs6729741	EM CD4+	ebi-a-GCST90001542	2	118599600	T	A	3395	-0.15	0.03	0.00	0.01	32.53
rs142002778	EM CD4+	ebi-a-GCST90001542	3	75855397	C	T	3395	-0.46	0.10	0.00	0.01	20.58
rs17376950	EM CD4+	ebi-a-GCST90001542	3	60085026	C	G	3395	-0.30	0.06	0.00	0.01	23.70
rs75603168	EM CD4+	ebi-a-GCST90001542	4	5108593	T	C	3395	-0.68	0.15	0.00	0.01	20.15
rs115531274	EM CD4+	ebi-a-GCST90001542	5	18401623	G	A	3395	0.16	0.04	0.00	0.01	20.18
rs7737130	EM CD4+	ebi-a-GCST90001542	5	123727627	A	C	3395	0.23	0.05	0.00	0.01	21.73
rs115795061	EM CD4+	ebi-a-GCST90001542	6	32731861	A	T	3395	-0.31	0.07	0.00	0.01	19.90
rs117563350	EM CD4+	ebi-a-GCST90001542	6	151699396	G	A	3395	-0.36	0.07	0.00	0.01	24.82
rs62447160	EM CD4+	ebi-a-GCST90001542	7	36527098	C	T	3395	-0.13	0.03	0.00	0.01	24.15
rs75275482	EM CD4+	ebi-a-GCST90001542	8	121950150	T	C	3395	-2.36	0.52	0.00	0.01	20.47
rs74443612	EM CD4+	ebi-a-GCST90001542	8	77653957	G	A	3395	-0.57	0.12	0.00	0.01	20.98
rs148709760	EM CD4+	ebi-a-GCST90001542	9	136923252	A	G	3395	-0.30	0.06	0.00	0.01	22.34
rs143648086	EM CD4+	ebi-a-GCST90001542	9	139422055	A	G	3395	-0.34	0.08	0.00	0.01	20.00
rs17183358	EM CD4+	ebi-a-GCST90001542	10	2738100	A	T	3395	-0.24	0.05	0.00	0.01	19.65
rs112785791	EM CD4+	ebi-a-GCST90001542	12	114413657	A	G	3395	-0.36	0.08	0.00	0.01	19.65
rs77802035	EM CD4+	ebi-a-GCST90001542	13	49298909	T	C	3395	0.39	0.09	0.00	0.01	19.91
rs12894769	EM CD4+	ebi-a-GCST90001542	14	79210529	A	G	3395	-0.34	0.08	0.00	0.01	19.69
rs72705882	EM CD4+	ebi-a-GCST90001542	15	26023978	T	C	3395	-0.17	0.04	0.00	0.01	20.21
rs74010649	EM CD4+	ebi-a-GCST90001542	16	7400983	T	G	3395	-0.22	0.05	0.00	0.01	21.36
rs9967156	EM CD4+	ebi-a-GCST90001542	18	73833744	C	G	3395	0.12	0.03	0.00	0.01	21.85
rs9961909	EM CD4+	ebi-a-GCST90001542	18	49180597	C	T	3395	-0.32	0.06	0.00	0.01	25.94
rs78082758	EM CD4+	ebi-a-GCST90001542	22	26812132	G	A	3395	-0.40	0.08	0.00	0.01	23.54
rs72668680	EM CD4+ %CD4+	ebi-a-GCST90001543	1	53240377	A	G	3427	-1.54	0.34	0.00	0.01	20.56
rs146620586	EM CD4+ %CD4+	ebi-a-GCST90001543	1	198524264	T	G	3427	-1.62	0.27	0.00	0.01	35.87
rs11579717	EM CD4+ %CD4+	ebi-a-GCST90001543	1	199999121	A	G	3427	-0.92	0.18	0.00	0.01	26.45
rs114825362	EM CD4+ %CD4+	ebi-a-GCST90001543	1	101526164	C	G	3427	-0.45	0.09	0.00	0.01	26.66
rs12712610	EM CD4+ %CD4+	ebi-a-GCST90001543	2	38897249	G	A	3427	-0.12	0.03	0.00	0.01	20.51
rs114348846	EM CD4+ %CD4+	ebi-a-GCST90001543	2	241731435	A	G	3427	-0.14	0.03	0.00	0.01	24.73
rs1991423	EM CD4+ %CD4+	ebi-a-GCST90001543	2	137242053	G	A	3427	-0.17	0.04	0.00	0.01	20.55
rs114499519	EM CD4+ %CD4+	ebi-a-GCST90001543	3	102911185	A	G	3427	-0.28	0.06	0.00	0.01	20.35
rs1920658	EM CD4+ %CD4+	ebi-a-GCST90001543	3	160357646	A	G	3427	0.11	0.03	0.00	0.01	19.79

rs114174358	EM CD4+ %CD4+	ebi-a-GCST90001543	4	1091560	T	C	3427	-1.26	0.26	0.00	0.01	23.01
rs9267484	EM CD4+ %CD4+	ebi-a-GCST90001543	6	31505724	T	A	3427	0.21	0.04	0.00	0.01	23.00
rs35900954	EM CD4+ %CD4+	ebi-a-GCST90001543	6	124439410	A	G	3427	0.21	0.04	0.00	0.01	22.27
rs4959028	EM CD4+ %CD4+	ebi-a-GCST90001543	6	32383138	G	A	3427	0.21	0.03	0.00	0.01	39.66
rs9269702	EM CD4+ %CD4+	ebi-a-GCST90001543	6	32547143	A	G	3427	-0.21	0.04	0.00	0.01	29.83
rs7798224	EM CD4+ %CD4+	ebi-a-GCST90001543	7	103375873	C	G	3427	-0.36	0.08	0.00	0.01	21.24
rs28844071	EM CD4+ %CD4+	ebi-a-GCST90001543	8	127475071	A	C	3427	0.11	0.02	0.00	0.01	21.95
rs439782	EM CD4+ %CD4+	ebi-a-GCST90001543	8	68568325	A	G	3427	0.16	0.03	0.00	0.01	22.82
rs72858657	EM CD4+ %CD4+	ebi-a-GCST90001543	11	14128767	C	T	3427	-0.30	0.07	0.00	0.01	19.77
rs79505492	EM CD4+ %CD4+	ebi-a-GCST90001543	11	79167993	G	A	3427	0.19	0.04	0.00	0.01	20.16
rs73060045	EM CD4+ %CD4+	ebi-a-GCST90001543	12	12168131	G	A	3427	0.20	0.04	0.00	0.01	25.81
rs113498448	EM CD4+ %CD4+	ebi-a-GCST90001543	12	27421151	G	T	3427	0.14	0.03	0.00	0.01	20.22
rs12428126	EM CD4+ %CD4+	ebi-a-GCST90001543	13	21012562	G	A	3427	0.12	0.03	0.00	0.01	20.76
rs72744142	EM CD4+ %CD4+	ebi-a-GCST90001543	15	81518947	A	G	3427	0.16	0.03	0.00	0.01	22.29
rs183743052	EM CD4+ %CD4+	ebi-a-GCST90001543	17	51049212	T	C	3427	-0.69	0.15	0.00	0.01	20.10
rs157386	EM CD4+ %CD4+	ebi-a-GCST90001543	17	19699121	A	G	3427	0.19	0.04	0.00	0.01	22.94
rs75010615	EM CD4+ %CD4+	ebi-a-GCST90001543	17	38896451	T	C	3427	1.40	0.30	0.00	0.01	21.30
rs79538978	EM CD4+ %CD4+	ebi-a-GCST90001543	18	54960800	C	T	3427	-0.29	0.06	0.00	0.01	20.38
rs12607959	EM CD4+ %CD4+	ebi-a-GCST90001543	18	65226341	G	C	3427	0.30	0.07	0.00	0.01	20.48
rs6046769	EM CD4+ %CD4+	ebi-a-GCST90001543	20	20238128	G	A	3427	-0.12	0.02	0.00	0.01	23.37
rs114825362	EM CD4+ %T cell	ebi-a-GCST90001544	1	101526164	C	G	3427	-0.41	0.08	0.00	0.01	23.22
rs146620586	EM CD4+ %T cell	ebi-a-GCST90001544	1	198524264	T	G	3427	-1.71	0.26	0.00	0.01	42.01
rs11579717	EM CD4+ %T cell	ebi-a-GCST90001544	1	199999121	A	G	3427	-0.88	0.17	0.00	0.01	25.61
rs80060305	EM CD4+ %T cell	ebi-a-GCST90001544	2	46131295	A	G	3427	0.26	0.05	0.00	0.01	22.80
rs58905133	EM CD4+ %T cell	ebi-a-GCST90001544	2	38887964	G	A	3427	0.12	0.03	0.00	0.01	21.44
rs113243185	EM CD4+ %T cell	ebi-a-GCST90001544	6	32585071	C	G	3427	0.21	0.04	0.00	0.01	33.37
rs9267484	EM CD4+ %T cell	ebi-a-GCST90001544	6	31505724	T	A	3427	0.24	0.04	0.00	0.01	32.14
rs113642164	EM CD4+ %T cell	ebi-a-GCST90001544	6	100662893	T	C	3427	-0.25	0.06	0.00	0.01	19.68
rs9271536	EM CD4+ %T cell	ebi-a-GCST90001544	6	32589978	T	A	3427	-0.24	0.03	0.00	0.01	49.05
rs3131014	EM CD4+ %T cell	ebi-a-GCST90001544	6	31116627	A	G	3427	-0.15	0.03	0.00	0.01	21.43
rs2500513	EM CD4+ %T cell	ebi-a-GCST90001544	6	149287703	G	A	3427	-0.12	0.03	0.00	0.01	20.20
rs11770479	EM CD4+ %T cell	ebi-a-GCST90001544	7	70906148	C	T	3427	-0.67	0.14	0.00	0.01	22.86
rs7464374	EM CD4+ %T cell	ebi-a-GCST90001544	8	144768532	A	G	3427	-0.37	0.08	0.00	0.01	23.07
rs387663	EM CD4+ %T cell	ebi-a-GCST90001544	8	68568308	A	G	3427	0.17	0.03	0.00	0.01	28.09
rs72858657	EM CD4+ %T cell	ebi-a-GCST90001544	11	14128767	C	T	3427	-0.30	0.07	0.00	0.01	21.17
rs2981595	EM CD4+ %T cell	ebi-a-GCST90001544	12	10583297	A	G	3427	-0.17	0.03	0.00	0.01	32.51
rs73189225	EM CD4+ %T cell	ebi-a-GCST90001544	12	108927798	A	G	3427	-0.17	0.04	0.00	0.01	21.93

rs73060045	EM CD4+ %T cell	ebi-a-GCST90001544	12	12168131	G	A	3427	0.18	0.04	0.00	0.01	21.80
rs2606175	EM CD4+ %T cell	ebi-a-GCST90001544	15	88060366	T	A	3427	-0.12	0.02	0.00	0.01	24.16
rs17776339	EM CD4+ %T cell	ebi-a-GCST90001544	15	43260378	A	T	3427	0.30	0.06	0.00	0.01	21.78
rs183743052	EM CD4+ %T cell	ebi-a-GCST90001544	17	51049212	T	C	3427	-0.75	0.15	0.00	0.01	24.91
rs12607959	EM CD4+ %T cell	ebi-a-GCST90001544	18	65226341	G	C	3427	0.29	0.07	0.00	0.01	20.09
rs6132693	EM CD4+ %T cell	ebi-a-GCST90001544	20	299759	T	G	3427	-0.11	0.02	0.00	0.01	20.87
rs114780135	TD CD4+ AC	ebi-a-GCST90001545	1	197674188	C	T	3395	1.03	0.21	0.00	0.01	24.67
rs12712610	TD CD4+ AC	ebi-a-GCST90001545	2	38897249	G	A	3395	0.18	0.03	0.00	0.01	41.67
rs13096849	TD CD4+ AC	ebi-a-GCST90001545	3	184212137	G	T	3395	-0.22	0.05	0.00	0.01	20.38
rs116761394	TD CD4+ AC	ebi-a-GCST90001545	3	122030442	T	C	3395	0.24	0.05	0.00	0.01	21.27
rs62323288	TD CD4+ AC	ebi-a-GCST90001545	4	139844715	G	A	3395	0.17	0.04	0.00	0.01	20.52
rs143706635	TD CD4+ AC	ebi-a-GCST90001545	5	67078101	G	A	3395	-0.48	0.11	0.00	0.01	19.59
rs9269202	TD CD4+ AC	ebi-a-GCST90001545	6	32449523	C	T	3395	0.16	0.03	0.00	0.01	21.99
rs9271537	TD CD4+ AC	ebi-a-GCST90001545	6	32589982	T	C	3395	-0.19	0.03	0.00	0.01	35.91
rs3105008	TD CD4+ AC	ebi-a-GCST90001545	8	96535247	T	C	3395	-0.28	0.05	0.00	0.01	26.77
rs71497247	TD CD4+ AC	ebi-a-GCST90001545	10	18763343	G	C	3395	0.24	0.05	0.00	0.01	20.15
rs79700278	TD CD4+ AC	ebi-a-GCST90001545	12	65625955	C	T	3395	-0.72	0.15	0.00	0.01	22.90
rs1304374	TD CD4+ AC	ebi-a-GCST90001545	21	32198368	A	G	3395	-0.12	0.03	0.00	0.01	21.65
rs28832396	TD CD4+ %CD4+	ebi-a-GCST90001546	1	109586432	T	C	3427	0.11	0.03	0.00	0.01	20.12
rs113435341	TD CD4+ %CD4+	ebi-a-GCST90001546	1	198151688	G	A	3427	1.23	0.22	0.00	0.01	30.47
rs597606	TD CD4+ %CD4+	ebi-a-GCST90001546	2	224660972	T	C	3427	0.11	0.03	0.00	0.01	20.45
rs1897327	TD CD4+ %CD4+	ebi-a-GCST90001546	2	38966307	C	T	3427	0.15	0.03	0.00	0.01	24.60
rs13024840	TD CD4+ %CD4+	ebi-a-GCST90001546	2	38895920	A	T	3427	0.21	0.03	0.00	0.02	52.62
rs4674422	TD CD4+ %CD4+	ebi-a-GCST90001546	2	220606931	C	T	3427	-0.12	0.03	0.00	0.01	19.57
rs116761394	TD CD4+ %CD4+	ebi-a-GCST90001546	3	122030442	T	C	3427	0.23	0.05	0.00	0.01	20.73
rs497623	TD CD4+ %CD4+	ebi-a-GCST90001546	3	170418340	C	T	3427	-0.18	0.04	0.00	0.01	22.55
rs62400929	TD CD4+ %CD4+	ebi-a-GCST90001546	6	31159546	G	A	3427	0.31	0.05	0.00	0.01	41.42
rs9501598	TD CD4+ %CD4+	ebi-a-GCST90001546	6	31853808	G	A	3427	0.23	0.05	0.00	0.01	22.02
rs113243185	TD CD4+ %CD4+	ebi-a-GCST90001546	6	32585071	C	G	3427	0.28	0.04	0.00	0.02	58.26
rs9501107	TD CD4+ %CD4+	ebi-a-GCST90001546	6	31392047	T	G	3427	0.21	0.04	0.00	0.01	29.48
rs9271536	TD CD4+ %CD4+	ebi-a-GCST90001546	6	32589978	T	A	3427	-0.28	0.03	0.00	0.02	70.08
rs1184536	TD CD4+ %CD4+	ebi-a-GCST90001546	10	129021087	A	G	3427	0.15	0.03	0.00	0.01	20.11
rs7075830	TD CD4+ %CD4+	ebi-a-GCST90001546	10	1091650	C	G	3427	-0.29	0.06	0.00	0.01	22.62
rs10750395	TD CD4+ %CD4+	ebi-a-GCST90001546	11	99630378	A	G	3427	-0.13	0.03	0.00	0.01	23.76
rs34977393	TD CD4+ %CD4+	ebi-a-GCST90001546	11	104086486	C	G	3427	-0.39	0.08	0.00	0.01	21.27
rs191878389	TD CD4+ %CD4+	ebi-a-GCST90001546	12	17957041	C	T	3427	-0.63	0.14	0.00	0.01	20.03
rs140464654	TD CD4+ %CD4+	ebi-a-GCST90001546	12	41374965	G	A	3427	-0.70	0.15	0.00	0.01	20.88
rs7131851	TD CD4+ %CD4+	ebi-a-GCST90001546	12	129434577	G	A	3427	0.11	0.02	0.00	0.01	20.72
rs12148245	TD CD4+ %CD4+	ebi-a-GCST90001546	15	80278961	T	C	3427	0.12	0.03	0.00	0.01	19.92
rs4778983	TD CD4+ %CD4+	ebi-a-GCST90001546	15	82503078	C	T	3427	-0.13	0.03	0.00	0.01	22.33

rs140178705	TD CD4+ %CD4+	ebi-a-GCST90001546	18	5785815	A	G	3427	-0.83	0.18	0.00	0.01	21.13
rs28832396	TD CD4+ %T cell	ebi-a-GCST90001547	1	109586432	T	C	3427	0.11	0.02	0.00	0.01	19.75
rs17583875	TD CD4+ %T cell	ebi-a-GCST90001547	1	197924770	A	G	3427	1.30	0.23	0.00	0.01	33.05
rs114171033	TD CD4+ %T cell	ebi-a-GCST90001547	2	142418583	C	G	3427	0.17	0.04	0.00	0.01	20.11
rs55633297	TD CD4+ %T cell	ebi-a-GCST90001547	2	121565142	G	A	3427	-0.20	0.04	0.00	0.01	22.14
rs1897327	TD CD4+ %T cell	ebi-a-GCST90001547	2	38966307	C	T	3427	0.14	0.03	0.00	0.01	23.83
rs1509520	TD CD4+ %T cell	ebi-a-GCST90001547	2	65076497	T	G	3427	0.19	0.04	0.00	0.01	23.69
rs13024840	TD CD4+ %T cell	ebi-a-GCST90001547	2	38895920	A	T	3427	0.20	0.03	0.00	0.02	52.50
rs6766978	TD CD4+ %T cell	ebi-a-GCST90001547	3	188878471	G	A	3427	-0.12	0.03	0.00	0.01	20.16
rs143346058	TD CD4+ %T cell	ebi-a-GCST90001547	3	141674361	G	C	3427	-2.99	0.63	0.00	0.01	22.29
rs140596675	TD CD4+ %T cell	ebi-a-GCST90001547	4	119558596	A	G	3427	-0.18	0.04	0.00	0.01	21.40
rs9271536	TD CD4+ %T cell	ebi-a-GCST90001547	6	32589978	T	A	3427	-0.29	0.03	0.00	0.02	76.55
rs113243185	TD CD4+ %T cell	ebi-a-GCST90001547	6	32585071	C	G	3427	0.29	0.04	0.00	0.02	62.64
rs9501598	TD CD4+ %T cell	ebi-a-GCST90001547	6	31853808	G	A	3427	0.24	0.05	0.00	0.01	25.60
rs62400929	TD CD4+ %T cell	ebi-a-GCST90001547	6	31159546	G	A	3427	0.32	0.05	0.00	0.01	44.79
rs9501107	TD CD4+ %T cell	ebi-a-GCST90001547	6	31392047	T	G	3427	0.22	0.04	0.00	0.01	31.63
rs113667295	TD CD4+ %T cell	ebi-a-GCST90001547	8	138632388	C	G	3427	-2.17	0.49	0.00	0.01	19.63
rs7075830	TD CD4+ %T cell	ebi-a-GCST90001547	10	1091650	C	G	3427	-0.29	0.06	0.00	0.01	23.37
rs10750395	TD CD4+ %T cell	ebi-a-GCST90001547	11	99630378	A	G	3427	-0.13	0.03	0.00	0.01	24.93
rs7131851	TD CD4+ %T cell	ebi-a-GCST90001547	12	129434577	G	A	3427	0.11	0.02	0.00	0.01	19.78
rs191878389	TD CD4+ %T cell	ebi-a-GCST90001547	12	17957041	C	T	3427	-0.64	0.14	0.00	0.01	20.98
rs140239764	TD CD4+ %T cell	ebi-a-GCST90001547	12	25084629	A	C	3427	-1.20	0.27	0.00	0.01	20.24
rs140464654	TD CD4+ %T cell	ebi-a-GCST90001547	12	41374965	G	A	3427	-0.68	0.15	0.00	0.01	19.82
rs74385090	TD CD4+ %T cell	ebi-a-GCST90001547	14	51932689	T	A	3427	-0.18	0.04	0.00	0.01	19.98
rs12148245	TD CD4+ %T cell	ebi-a-GCST90001547	15	80278961	T	C	3427	0.12	0.03	0.00	0.01	20.47
rs4778983	TD CD4+ %T cell	ebi-a-GCST90001547	15	82503078	C	T	3427	-0.12	0.03	0.00	0.01	20.70
rs3786686	TD CD4+ %T cell	ebi-a-GCST90001547	19	6831355	A	G	3427	0.12	0.03	0.00	0.01	20.83
rs1304372	TD CD4+ %T cell	ebi-a-GCST90001547	21	32198305	A	G	3427	-0.11	0.02	0.00	0.01	20.77
rs113435341	CM CD8br AC	ebi-a-GCST90001548	1	198151688	G	A	3395	-1.23	0.21	0.00	0.01	33.52
rs78746216	CM CD8br AC	ebi-a-GCST90001548	2	221949923	A	T	3395	1.15	0.26	0.00	0.01	19.73
rs138265071	CM CD8br AC	ebi-a-GCST90001548	2	233371652	C	A	3395	1.10	0.23	0.00	0.01	22.02
rs78389248	CM CD8br AC	ebi-a-GCST90001548	3	29218896	A	G	3395	-0.30	0.06	0.00	0.01	25.67
rs116293582	CM CD8br AC	ebi-a-GCST90001548	3	152670506	C	T	3395	-0.19	0.04	0.00	0.01	19.94
rs78805150	CM CD8br AC	ebi-a-GCST90001548	5	52037812	A	T	3395	-0.29	0.06	0.00	0.01	22.81
rs7723922	CM CD8br AC	ebi-a-GCST90001548	5	171961688	T	C	3395	-0.13	0.03	0.00	0.01	20.74
rs80120480	CM CD8br AC	ebi-a-GCST90001548	6	31411457	A	C	3395	-0.23	0.05	0.00	0.01	24.76
rs57031530	CM CD8br AC	ebi-a-GCST90001548	6	97286991	T	C	3395	0.14	0.03	0.00	0.01	21.79

rs59128750	CM CD8br AC	ebi-a-GCST90001548	7	68448742	A	C	3395	0.21	0.05	0.00	0.01	20.13
rs142789041	CM CD8br AC	ebi-a-GCST90001548	7	16682991	G	A	3395	0.50	0.11	0.00	0.01	20.47
rs149060712	CM CD8br AC	ebi-a-GCST90001548	8	60906565	G	A	3395	0.36	0.08	0.00	0.01	22.05
rs13290078	CM CD8br AC	ebi-a-GCST90001548	9	27934690	A	G	3395	-0.17	0.04	0.00	0.01	20.24
rs73377526	CM CD8br AC	ebi-a-GCST90001548	10	117424380	T	G	3395	-0.52	0.11	0.00	0.01	20.75
rs71467473	CM CD8br AC	ebi-a-GCST90001548	11	69919703	A	G	3395	-0.18	0.04	0.00	0.01	20.25
rs4565951	CM CD8br AC	ebi-a-GCST90001548	12	108304102	T	C	3395	0.22	0.05	0.00	0.01	20.63
rs118038203	CM CD8br AC	ebi-a-GCST90001548	13	90021753	T	C	3395	0.29	0.06	0.00	0.01	20.31
rs12149562	CM CD8br AC	ebi-a-GCST90001548	16	12222651	C	T	3395	-0.19	0.04	0.00	0.01	21.97
rs78160658	CM CD8br AC	ebi-a-GCST90001548	16	4623421	T	C	3395	-0.26	0.05	0.00	0.01	26.71
rs62047982	CM CD8br AC	ebi-a-GCST90001548	16	53154832	T	C	3395	-0.12	0.02	0.00	0.01	25.11
rs9924010	CM CD8br AC	ebi-a-GCST90001548	16	7398995	A	G	3395	-0.20	0.04	0.00	0.01	23.81
rs117534688	CM CD8br AC	ebi-a-GCST90001548	17	31444517	T	C	3395	0.25	0.05	0.00	0.01	20.27
rs8079667	CM CD8br AC	ebi-a-GCST90001548	17	70743564	C	T	3395	0.11	0.02	0.00	0.01	19.98
rs3179285	CM CD8br AC	ebi-a-GCST90001548	17	41476397	T	G	3395	0.23	0.05	0.00	0.01	19.59
rs143819377	CM CD8br AC	ebi-a-GCST90001548	18	4603336	G	A	3395	0.31	0.07	0.00	0.01	20.80
rs6073949	CM CD8br AC	ebi-a-GCST90001548	20	44531878	A	G	3395	-0.12	0.02	0.00	0.01	22.08
rs61735519	CM CD8br AC	ebi-a-GCST90001548	22	45749966	C	G	3395	0.29	0.06	0.00	0.01	23.66
rs74559159	CM CD8br %CD8br	ebi-a-GCST90001549	1	3835304	A	G	3427	-0.36	0.08	0.00	0.01	22.74
rs541367304	CM CD8br %CD8br	ebi-a-GCST90001549	1	198283058	A	G	3427	-1.19	0.26	0.00	0.01	20.91
rs75518360	CM CD8br %CD8br	ebi-a-GCST90001549	1	14881805	T	C	3427	0.48	0.09	0.00	0.01	26.22
rs55699240	CM CD8br %CD8br	ebi-a-GCST90001549	2	113838725	C	G	3427	-0.16	0.03	0.00	0.01	25.17
rs11887842	CM CD8br %CD8br	ebi-a-GCST90001549	2	102839478	T	C	3427	-0.18	0.04	0.00	0.01	19.76
rs67145759	CM CD8br %CD8br	ebi-a-GCST90001549	2	38902624	G	A	3427	-0.14	0.03	0.00	0.01	21.27
rs183732116	CM CD8br %CD8br	ebi-a-GCST90001549	2	168003021	A	G	3427	0.31	0.07	0.00	0.01	22.01
rs35121986	CM CD8br %CD8br	ebi-a-GCST90001549	2	187690214	C	T	3427	0.26	0.06	0.00	0.01	19.61
rs116515477	CM CD8br %CD8br	ebi-a-GCST90001549	3	68134416	G	A	3427	0.40	0.08	0.00	0.01	23.31
rs66550246	CM CD8br %CD8br	ebi-a-GCST90001549	3	159822228	G	A	3427	-0.14	0.03	0.00	0.01	21.02
rs16881729	CM CD8br %CD8br	ebi-a-GCST90001549	4	29389538	T	C	3427	0.25	0.06	0.00	0.01	19.88
rs10035567	CM CD8br %CD8br	ebi-a-GCST90001549	5	173005364	A	T	3427	-0.19	0.04	0.00	0.01	20.25
rs16878206	CM CD8br %CD8br	ebi-a-GCST90001549	5	59816794	G	A	3427	0.14	0.03	0.00	0.01	19.58
rs4868220	CM CD8br %CD8br	ebi-a-GCST90001549	5	172266325	G	A	3427	-0.11	0.02	0.00	0.01	21.04
rs62463257	CM CD8br %CD8br	ebi-a-GCST90001549	7	71923809	T	C	3427	-0.12	0.03	0.00	0.01	22.65
rs35069110	CM CD8br %CD8br	ebi-a-GCST90001549	7	157454257	A	G	3427	-0.12	0.02	0.00	0.01	24.74
rs117299036	CM CD8br %CD8br	ebi-a-GCST90001549	7	17645647	T	G	3427	0.58	0.13	0.00	0.01	21.20
rs2040680	CM CD8br %CD8br	ebi-a-GCST90001549	7	88785449	C	T	3427	-0.32	0.07	0.00	0.01	19.58
rs6558408	CM CD8br %CD8br	ebi-a-GCST90001549	8	145033734	A	G	3427	-0.15	0.03	0.00	0.01	21.28

rs78845536	CM CD8br %CD8br	ebi-a-GCST90001549	9	10866626	G	T	3427	0.33	0.07	0.00	0.01	21.20
rs192829014	CM CD8br %CD8br	ebi-a-GCST90001549	9	5750067	A	G	3427	0.54	0.12	0.00	0.01	21.36
rs116858348	CM CD8br %CD8br	ebi-a-GCST90001549	10	92780623	G	T	3427	0.52	0.11	0.00	0.01	20.81
rs2123414	CM CD8br %CD8br	ebi-a-GCST90001549	10	130834276	G	A	3427	0.26	0.06	0.00	0.01	19.83
rs78719136	CM CD8br %CD8br	ebi-a-GCST90001549	14	21355951	G	A	3427	-0.34	0.08	0.00	0.01	20.30
rs350280	CM CD8br %CD8br	ebi-a-GCST90001549	16	12231997	G	A	3427	-0.12	0.03	0.00	0.01	22.15
rs62047982	CM CD8br %CD8br	ebi-a-GCST90001549	16	53154832	T	C	3427	-0.12	0.02	0.00	0.01	24.21
rs62037700	CM CD8br %CD8br	ebi-a-GCST90001549	16	12102157	T	G	3427	-0.12	0.03	0.00	0.01	20.99
rs2713981	CM CD8br %CD8br	ebi-a-GCST90001549	17	70743094	G	A	3427	0.12	0.03	0.00	0.01	20.24
rs4796089	CM CD8br %CD8br	ebi-a-GCST90001549	17	33814758	C	T	3427	0.16	0.04	0.00	0.01	19.77
rs2866112	CM CD8br %CD8br	ebi-a-GCST90001549	19	54310961	C	G	3427	-0.20	0.04	0.00	0.01	24.45
rs2840005	CM CD8br %CD8br	ebi-a-GCST90001549	19	56314899	C	T	3427	0.15	0.03	0.00	0.01	22.01
rs2424193	CM CD8br %CD8br	ebi-a-GCST90001549	20	18417321	G	A	3427	0.35	0.07	0.00	0.01	23.53
rs13037846	CM CD8br %CD8br	ebi-a-GCST90001549	20	59379480	T	C	3427	-0.30	0.07	0.00	0.01	19.75
rs541367304	CM CD8br %T cell	ebi-a-GCST90001550	1	198283058	A	G	3427	-1.31	0.25	0.00	0.01	26.42
rs10865142	CM CD8br %T cell	ebi-a-GCST90001550	2	38892836	C	T	3427	-0.13	0.03	0.00	0.01	23.51
rs76516141	CM CD8br %T cell	ebi-a-GCST90001550	3	33874255	T	C	3427	0.39	0.09	0.00	0.01	20.02
rs4702732	CM CD8br %T cell	ebi-a-GCST90001550	5	10806765	G	A	3427	0.19	0.04	0.00	0.01	20.63
rs78708224	CM CD8br %T cell	ebi-a-GCST90001550	7	26455241	C	T	3427	0.16	0.03	0.00	0.01	20.94
rs117410040	CM CD8br %T cell	ebi-a-GCST90001550	7	155951234	G	A	3427	-0.19	0.04	0.00	0.01	19.76
rs117299036	CM CD8br %T cell	ebi-a-GCST90001550	7	17645647	T	G	3427	0.57	0.12	0.00	0.01	21.20
rs35069110	CM CD8br %T cell	ebi-a-GCST90001550	7	157454257	A	G	3427	-0.12	0.02	0.00	0.01	22.98
rs7819099	CM CD8br %T cell	ebi-a-GCST90001550	8	144992862	G	A	3427	-0.11	0.02	0.00	0.01	19.78
rs149060712	CM CD8br %T cell	ebi-a-GCST90001550	8	60906565	G	A	3427	0.36	0.08	0.00	0.01	20.26
rs75442393	CM CD8br %T cell	ebi-a-GCST90001550	8	2918034	A	C	3427	-0.21	0.05	0.00	0.01	22.32
rs192459369	CM CD8br %T cell	ebi-a-GCST90001550	9	10726150	G	T	3427	0.30	0.07	0.00	0.01	20.19
rs10868399	CM CD8br %T cell	ebi-a-GCST90001550	9	88850694	G	A	3427	-0.16	0.04	0.00	0.01	19.63
rs75837226	CM CD8br %T cell	ebi-a-GCST90001550	11	67813671	T	C	3427	0.37	0.08	0.00	0.01	19.60
rs59708244	CM CD8br %T cell	ebi-a-GCST90001550	11	121805674	A	G	3427	-0.14	0.03	0.00	0.01	20.20
rs8003606	CM CD8br %T cell	ebi-a-GCST90001550	14	68973250	T	G	3427	0.12	0.03	0.00	0.01	19.87
rs139325044	CM CD8br %T cell	ebi-a-GCST90001550	16	59183550	A	G	3427	0.44	0.10	0.00	0.01	19.68
rs56392104	CM CD8br %T cell	ebi-a-GCST90001550	16	11828567	A	G	3427	-0.16	0.04	0.00	0.01	20.32
rs173262	CM CD8br %T cell	ebi-a-GCST90001550	16	12230161	T	C	3427	-0.12	0.03	0.00	0.01	24.14
rs140690408	CM CD8br %T cell	ebi-a-GCST90001550	16	53339004	T	C	3427	-0.12	0.03	0.00	0.01	22.99
rs34353535	CM CD8br %T cell	ebi-a-GCST90001550	19	45038267	A	G	3427	0.29	0.06	0.00	0.01	20.52
rs61735519	CM CD8br %T cell	ebi-a-GCST90001550	22	45749966	C	G	3427	0.29	0.06	0.00	0.01	23.38
rs2629830	Naive CD8br AC	ebi-a-GCST90001551	1	114684259	G	C	3395	-0.11	0.02	0.00	0.01	22.15

rs116590755	Naive CD8br AC	ebi-a-GCST90001551	2	173592729	T	G	3395	-2.23	0.47	0.00	0.01	23.07
rs73926977	Naive CD8br AC	ebi-a-GCST90001551	2	38260823	G	A	3395	-0.17	0.04	0.00	0.01	19.77
rs78908164	Naive CD8br AC	ebi-a-GCST90001551	2	127884901	T	G	3395	0.19	0.04	0.00	0.01	23.53
rs10178070	Naive CD8br AC	ebi-a-GCST90001551	2	18727639	C	T	3395	-0.12	0.03	0.00	0.01	21.16
rs79752907	Naive CD8br AC	ebi-a-GCST90001551	2	237010723	T	C	3395	-0.09	0.02	0.00	0.01	22.98
rs4849134	Naive CD8br AC	ebi-a-GCST90001551	2	111615015	G	A	3395	0.10	0.02	0.00	0.01	31.80
rs79777035	Naive CD8br AC	ebi-a-GCST90001551	3	25717920	C	T	3395	0.75	0.16	0.00	0.01	23.06
rs140786980	Naive CD8br AC	ebi-a-GCST90001551	3	174970460	C	A	3395	0.40	0.09	0.00	0.01	19.59
rs11735841	Naive CD8br AC	ebi-a-GCST90001551	4	25612506	A	G	3395	0.44	0.09	0.00	0.01	21.52
rs11931315	Naive CD8br AC	ebi-a-GCST90001551	4	16601009	C	T	3395	-0.08	0.02	0.00	0.01	19.61
rs28465400	Naive CD8br AC	ebi-a-GCST90001551	6	29839523	T	C	3395	0.14	0.03	0.00	0.01	24.25
rs72851020	Naive CD8br AC	ebi-a-GCST90001551	6	32501393	T	C	3395	0.21	0.03	0.00	0.01	39.19
rs1374984	Naive CD8br AC	ebi-a-GCST90001551	6	127949276	A	G	3395	0.15	0.03	0.00	0.01	19.64
rs72826622	Naive CD8br AC	ebi-a-GCST90001551	6	20193704	T	C	3395	-0.12	0.03	0.00	0.01	20.26
rs1150829	Naive CD8br AC	ebi-a-GCST90001551	6	587532	T	C	3395	-0.09	0.02	0.00	0.01	21.33
rs2853995	Naive CD8br AC	ebi-a-GCST90001551	6	31333019	C	T	3395	-0.16	0.03	0.00	0.01	27.44
rs12555210	Naive CD8br AC	ebi-a-GCST90001551	9	33428882	G	A	3395	0.14	0.03	0.00	0.01	21.96
rs12420840	Naive CD8br AC	ebi-a-GCST90001551	11	126523412	G	A	3395	0.14	0.03	0.00	0.01	22.53
rs10783874	Naive CD8br AC	ebi-a-GCST90001551	12	58534768	C	G	3395	-0.08	0.02	0.00	0.01	20.17
rs34099171	Naive CD8br AC	ebi-a-GCST90001551	12	79413333	T	A	3395	0.30	0.07	0.00	0.01	20.98
rs113911480	Naive CD8br AC	ebi-a-GCST90001551	14	29113167	G	T	3395	0.24	0.05	0.00	0.01	25.41
rs17685199	Naive CD8br AC	ebi-a-GCST90001551	15	36405909	C	A	3395	-0.11	0.02	0.00	0.01	24.07
rs28678122	Naive CD8br AC	ebi-a-GCST90001551	15	56956314	C	A	3395	0.11	0.02	0.00	0.01	20.59
rs11652705	Naive CD8br AC	ebi-a-GCST90001551	17	41761741	G	A	3395	-0.12	0.02	0.00	0.01	26.01
rs62065924	Naive CD8br AC	ebi-a-GCST90001551	17	39984813	A	T	3395	0.16	0.03	0.00	0.01	21.92
rs143416600	Naive CD8br AC	ebi-a-GCST90001551	18	37173101	A	G	3395	1.62	0.36	0.00	0.01	19.74
rs62229789	Naive CD8br AC	ebi-a-GCST90001551	20	50100758	T	C	3395	-0.26	0.05	0.00	0.01	25.72
rs117120215	Naive CD8br AC	ebi-a-GCST90001551	21	38377520	G	C	3395	-2.45	0.51	0.00	0.01	23.28
rs4658869	Naive CD8br %CD8br	ebi-a-GCST90001552	1	243020284	C	G	3427	0.22	0.05	0.00	0.01	21.05
rs2629824	Naive CD8br %CD8br	ebi-a-GCST90001552	1	114687316	G	A	3427	-0.13	0.02	0.00	0.01	27.02
rs150213926	Naive CD8br %CD8br	ebi-a-GCST90001552	1	200202822	G	C	3427	-0.54	0.11	0.00	0.01	22.49
rs76668354	Naive CD8br %CD8br	ebi-a-GCST90001552	2	103587624	G	C	3427	0.50	0.10	0.00	0.01	25.79
rs1533299	Naive CD8br %CD8br	ebi-a-GCST90001552	2	111616141	T	C	3427	0.09	0.02	0.00	0.01	24.29
rs142772175	Naive CD8br %CD8br	ebi-a-GCST90001552	2	120240225	T	C	3427	3.44	0.71	0.00	0.01	23.37
rs1064086	Naive CD8br %CD8br	ebi-a-GCST90001552	2	237034061	A	G	3427	-0.11	0.02	0.00	0.01	30.04
rs12631411	Naive CD8br %CD8br	ebi-a-GCST90001552	3	106253801	C	G	3427	-0.14	0.03	0.00	0.01	19.94
rs116495677	Naive CD8br %CD8br	ebi-a-GCST90001552	4	6612728	T	C	3427	1.65	0.37	0.00	0.01	19.87

rs149655274	Naive CD8br %CD8br	ebi-a-GCST90001552	4	154029285	T	C	3427	1.36	0.31	0.00	0.01	19.73
rs4862490	Naive CD8br %CD8br	ebi-a-GCST90001552	4	185923329	C	G	3427	-0.09	0.02	0.00	0.01	20.23
rs13359589	Naive CD8br %CD8br	ebi-a-GCST90001552	5	73116673	T	C	3427	1.38	0.28	0.00	0.01	24.90
rs72811823	Naive CD8br %CD8br	ebi-a-GCST90001552	5	145928905	A	G	3427	2.32	0.50	0.00	0.01	21.47
rs76508332	Naive CD8br %CD8br	ebi-a-GCST90001552	6	167353961	T	C	3427	0.39	0.09	0.00	0.01	20.83
rs114559146	Naive CD8br %CD8br	ebi-a-GCST90001552	6	31395062	C	G	3427	0.11	0.02	0.00	0.01	22.09
rs9260902	Naive CD8br %CD8br	ebi-a-GCST90001552	6	29947740	C	T	3427	-0.12	0.02	0.00	0.01	25.64
rs9792050	Naive CD8br %CD8br	ebi-a-GCST90001552	7	31164655	T	G	3427	-0.14	0.03	0.00	0.01	22.09
rs117111088	Naive CD8br %CD8br	ebi-a-GCST90001552	7	8319424	T	C	3427	0.17	0.04	0.00	0.01	21.57
rs141596789	Naive CD8br %CD8br	ebi-a-GCST90001552	7	28687227	C	G	3427	1.37	0.31	0.00	0.01	19.75
rs13253487	Naive CD8br %CD8br	ebi-a-GCST90001552	8	62835179	G	A	3427	-0.21	0.05	0.00	0.01	20.17
rs77779289	Naive CD8br %CD8br	ebi-a-GCST90001552	8	18461126	G	T	3427	1.96	0.44	0.00	0.01	19.68
rs62572630	Naive CD8br %CD8br	ebi-a-GCST90001552	9	114635416	A	G	3427	0.35	0.08	0.00	0.01	20.73
rs185397210	Naive CD8br %CD8br	ebi-a-GCST90001552	9	12807800	T	C	3427	0.53	0.11	0.00	0.01	21.21
rs72757070	Naive CD8br %CD8br	ebi-a-GCST90001552	9	113053653	T	A	3427	0.16	0.04	0.00	0.01	19.84
rs77986171	Naive CD8br %CD8br	ebi-a-GCST90001552	10	54725683	A	G	3427	-0.22	0.05	0.00	0.01	20.33
rs78038265	Naive CD8br %CD8br	ebi-a-GCST90001552	12	85949580	G	A	3427	2.03	0.42	0.00	0.01	23.42
rs7981825	Naive CD8br %CD8br	ebi-a-GCST90001552	13	98313824	A	G	3427	-0.58	0.13	0.00	0.01	20.18
rs9577271	Naive CD8br %CD8br	ebi-a-GCST90001552	13	114096507	G	A	3427	0.11	0.02	0.00	0.01	21.04
rs1879612	Naive CD8br %CD8br	ebi-a-GCST90001552	15	99398708	C	T	3427	0.08	0.02	0.00	0.01	21.00
rs8057009	Naive CD8br %CD8br	ebi-a-GCST90001552	16	85990923	G	T	3427	-0.09	0.02	0.00	0.01	19.89
rs205358	Naive CD8br %CD8br	ebi-a-GCST90001552	16	28114995	T	C	3427	0.14	0.03	0.00	0.01	20.32
rs181235482	Naive CD8br %CD8br	ebi-a-GCST90001552	16	21569690	T	A	3427	2.18	0.48	0.00	0.01	20.49
rs5011724	Naive CD8br %CD8br	ebi-a-GCST90001552	17	41759061	C	T	3427	-0.10	0.02	0.00	0.01	23.24
rs8067835	Naive CD8br %CD8br	ebi-a-GCST90001552	17	31363767	G	A	3427	0.10	0.02	0.00	0.01	21.17
rs143788880	Naive CD8br %CD8br	ebi-a-GCST90001552	17	57361218	A	G	3427	0.49	0.11	0.00	0.01	21.49
rs34001747	Naive CD8br %CD8br	ebi-a-GCST90001552	17	16863687	G	C	3427	2.98	0.67	0.00	0.01	19.57
rs275837	Naive CD8br %CD8br	ebi-a-GCST90001552	19	48876190	A	C	3427	-0.09	0.02	0.00	0.01	21.53
rs139415527	Naive CD8br %CD8br	ebi-a-GCST90001552	21	46904641	G	A	3427	1.27	0.29	0.00	0.01	19.77
rs118003243	Naive CD8br %CD8br	ebi-a-GCST90001552	21	43795055	C	T	3427	0.34	0.07	0.00	0.01	21.52
rs13386443	Naive CD8br %T cell	ebi-a-GCST90001553	2	111722118	G	A	3427	0.08	0.02	0.00	0.01	21.01
rs10183338	Naive CD8br %T cell	ebi-a-GCST90001553	2	111610816	T	G	3427	0.12	0.02	0.00	0.01	31.07
rs1064086	Naive CD8br %T cell	ebi-a-GCST90001553	2	237034061	A	G	3427	-0.09	0.02	0.00	0.01	25.95
rs116590755	Naive CD8br %T cell	ebi-a-GCST90001553	2	173592729	T	G	3427	-2.26	0.46	0.00	0.01	23.81
rs6833962	Naive CD8br %T cell	ebi-a-GCST90001553	4	103558731	T	C	3427	-0.12	0.02	0.00	0.01	26.35
rs10474365	Naive CD8br %T cell	ebi-a-GCST90001553	5	90986313	T	C	3427	0.14	0.03	0.00	0.01	21.16
rs73404248	Naive CD8br %T cell	ebi-a-GCST90001553	6	31410352	A	G	3427	-0.14	0.03	0.00	0.01	23.09

rs114581570	Naive CD8br %T cell	ebi-a-GCST90001553	6	19906546	G	A	3427	-1.19	0.24	0.00	0.01	23.77
rs116562707	Naive CD8br %T cell	ebi-a-GCST90001553	6	31360602	G	A	3427	0.40	0.07	0.00	0.01	35.55
rs145607970	Naive CD8br %T cell	ebi-a-GCST90001553	6	32624017	A	C	3427	0.19	0.04	0.00	0.01	19.61
rs141596789	Naive CD8br %T cell	ebi-a-GCST90001553	7	28687227	C	G	3427	1.49	0.28	0.00	0.01	28.27
rs8180936	Naive CD8br %T cell	ebi-a-GCST90001553	8	61151574	T	C	3427	0.08	0.02	0.00	0.01	21.97
rs75368383	Naive CD8br %T cell	ebi-a-GCST90001553	8	144789624	C	T	3427	0.24	0.05	0.00	0.01	22.00
rs12555210	Naive CD8br %T cell	ebi-a-GCST90001553	9	33428882	G	A	3427	0.16	0.03	0.00	0.01	27.14
rs72815242	Naive CD8br %T cell	ebi-a-GCST90001553	10	29316021	A	G	3427	0.12	0.03	0.00	0.01	20.43
rs656841	Naive CD8br %T cell	ebi-a-GCST90001553	11	126244173	G	C	3427	-0.08	0.02	0.00	0.01	20.35
rs4764066	Naive CD8br %T cell	ebi-a-GCST90001553	12	14385601	C	T	3427	-0.11	0.02	0.00	0.01	20.98
rs7981825	Naive CD8br %T cell	ebi-a-GCST90001553	13	98313824	A	G	3427	-0.53	0.12	0.00	0.01	20.19
rs11843149	Naive CD8br %T cell	ebi-a-GCST90001553	13	24258336	C	T	3427	0.09	0.02	0.00	0.01	21.62
rs17767232	Naive CD8br %T cell	ebi-a-GCST90001553	14	65199087	A	G	3427	1.12	0.24	0.00	0.01	22.20
rs73328313	Naive CD8br %T cell	ebi-a-GCST90001553	14	93019211	T	G	3427	0.20	0.04	0.00	0.01	20.33
rs17685199	Naive CD8br %T cell	ebi-a-GCST90001553	15	36405909	C	A	3427	-0.10	0.02	0.00	0.01	21.92
rs112725843	Naive CD8br %T cell	ebi-a-GCST90001553	16	28238440	T	C	3427	0.12	0.02	0.00	0.01	22.88
rs11652705	Naive CD8br %T cell	ebi-a-GCST90001553	17	41761741	G	A	3427	-0.12	0.02	0.00	0.01	28.17
rs143788880	Naive CD8br %T cell	ebi-a-GCST90001553	17	57361218	A	G	3427	0.44	0.10	0.00	0.01	20.69
rs34742163	Naive CD8br %T cell	ebi-a-GCST90001553	17	3040277	C	G	3427	0.10	0.02	0.00	0.01	21.15
rs8067835	Naive CD8br %T cell	ebi-a-GCST90001553	17	31363767	G	A	3427	0.11	0.02	0.00	0.01	27.56
rs10411666	Naive CD8br %T cell	ebi-a-GCST90001553	19	779416	C	G	3427	-0.11	0.03	0.00	0.01	19.69
rs117120215	Naive CD8br %T cell	ebi-a-GCST90001553	21	38377520	G	C	3427	-2.44	0.50	0.00	0.01	23.77
rs116954000	Naive CD8br %T cell	ebi-a-GCST90001553	22	40298491	A	T	3427	0.70	0.14	0.00	0.01	24.29
rs11166573	EM CD8br AC	ebi-a-GCST90001554	1	101733861	A	G	3395	-0.12	0.03	0.00	0.01	21.20
rs17583875	EM CD8br AC	ebi-a-GCST90001554	1	197924770	A	G	3395	-1.51	0.23	0.00	0.01	41.76
rs150956189	EM CD8br AC	ebi-a-GCST90001554	1	214625781	C	T	3395	-2.91	0.66	0.00	0.01	19.69
rs76668354	EM CD8br AC	ebi-a-GCST90001554	2	103587624	G	C	3395	-0.70	0.14	0.00	0.01	26.34
rs115083752	EM CD8br AC	ebi-a-GCST90001554	2	145856378	A	G	3395	-0.34	0.08	0.00	0.01	20.20
rs58905133	EM CD8br AC	ebi-a-GCST90001554	2	38887964	G	A	3395	0.14	0.03	0.00	0.01	24.91
rs57159407	EM CD8br AC	ebi-a-GCST90001554	2	22978736	A	C	3395	-0.31	0.07	0.00	0.01	20.04
rs113985770	EM CD8br AC	ebi-a-GCST90001554	2	210377930	A	G	3395	-0.62	0.13	0.00	0.01	21.99
rs60998309	EM CD8br AC	ebi-a-GCST90001554	3	24959272	A	C	3395	-0.27	0.06	0.00	0.01	20.50
rs2378966	EM CD8br AC	ebi-a-GCST90001554	4	179936308	T	C	3395	0.13	0.03	0.00	0.01	24.48
rs13187183	EM CD8br AC	ebi-a-GCST90001554	5	117976098	C	T	3395	-0.23	0.05	0.00	0.01	25.38
rs9382165	EM CD8br AC	ebi-a-GCST90001554	6	52836410	G	A	3395	0.24	0.05	0.00	0.01	23.79
rs11153123	EM CD8br AC	ebi-a-GCST90001554	6	109038333	G	A	3395	-0.14	0.03	0.00	0.01	21.78
rs3130685	EM CD8br AC	ebi-a-GCST90001554	6	31206206	T	C	3395	0.18	0.03	0.00	0.01	32.03

rs9268932	EM CD8br AC	ebi-a-GCST90001554	6	32433290	G	T	3395	0.17	0.03	0.00	0.01	25.98
rs593435	EM CD8br AC	ebi-a-GCST90001554	7	132417404	T	C	3395	0.12	0.03	0.00	0.01	22.57
rs73195098	EM CD8br AC	ebi-a-GCST90001554	7	112571685	A	C	3395	0.37	0.08	0.00	0.01	22.22
rs77753889	EM CD8br AC	ebi-a-GCST90001554	8	130711599	A	G	3395	0.18	0.04	0.00	0.01	20.00
rs1322060	EM CD8br AC	ebi-a-GCST90001554	9	117697660	G	C	3395	-0.13	0.03	0.00	0.01	20.18
rs1183901	EM CD8br AC	ebi-a-GCST90001554	10	90231718	C	T	3395	-0.14	0.03	0.00	0.01	24.95
rs75744217	EM CD8br AC	ebi-a-GCST90001554	10	68456634	T	C	3395	0.18	0.04	0.00	0.01	19.61
rs11060493	EM CD8br AC	ebi-a-GCST90001554	12	130160924	C	A	3395	0.19	0.04	0.00	0.01	19.56
rs11080350	EM CD8br AC	ebi-a-GCST90001554	17	33774635	T	C	3395	-0.12	0.03	0.00	0.01	19.79
rs143237141	EM CD8br AC	ebi-a-GCST90001554	22	45176439	A	G	3395	0.32	0.07	0.00	0.01	21.46
rs60220946	EM CD8br %CD8br	ebi-a-GCST90001555	1	193505625	T	C	3427	-0.34	0.07	0.00	0.01	21.32
rs150956189	EM CD8br %CD8br	ebi-a-GCST90001555	1	214625781	C	T	3427	-2.99	0.56	0.00	0.01	28.86
rs34645541	EM CD8br %CD8br	ebi-a-GCST90001555	1	195875605	A	C	3427	-0.60	0.11	0.00	0.01	28.14
rs150329295	EM CD8br %CD8br	ebi-a-GCST90001555	1	241856210	A	C	3427	-2.30	0.48	0.00	0.01	22.66
rs2629830	EM CD8br %CD8br	ebi-a-GCST90001555	1	114684259	G	C	3427	0.13	0.03	0.00	0.01	19.92
rs116794175	EM CD8br %CD8br	ebi-a-GCST90001555	1	194010208	C	T	3427	-0.79	0.17	0.00	0.01	22.69
rs17583875	EM CD8br %CD8br	ebi-a-GCST90001555	1	197924770	A	G	3427	-1.62	0.19	0.00	0.02	69.39
rs11896593	EM CD8br %CD8br	ebi-a-GCST90001555	2	38925155	C	G	3427	-0.25	0.02	0.00	0.04	133.56
rs2463509	EM CD8br %CD8br	ebi-a-GCST90001555	2	103672986	T	C	3427	1.15	0.20	0.00	0.01	32.23
rs75196020	EM CD8br %CD8br	ebi-a-GCST90001555	2	241750301	A	C	3427	-0.11	0.02	0.00	0.01	20.45
rs28578699	EM CD8br %CD8br	ebi-a-GCST90001555	2	38899155	C	A	3427	-0.16	0.02	0.00	0.01	51.26
rs10510244	EM CD8br %CD8br	ebi-a-GCST90001555	3	3036671	C	G	3427	-0.30	0.07	0.00	0.01	20.76
rs1479391	EM CD8br %CD8br	ebi-a-GCST90001555	3	61970211	C	T	3427	-0.12	0.03	0.00	0.01	20.53
rs116760504	EM CD8br %CD8br	ebi-a-GCST90001555	3	47546791	A	C	3427	-0.22	0.04	0.00	0.01	25.31
rs7709566	EM CD8br %CD8br	ebi-a-GCST90001555	5	117881168	G	T	3427	-0.13	0.03	0.00	0.01	21.70
rs146969910	EM CD8br %CD8br	ebi-a-GCST90001555	5	171664213	C	T	3427	0.31	0.07	0.00	0.01	22.05
rs148770451	EM CD8br %CD8br	ebi-a-GCST90001555	6	26044129	T	C	3427	0.40	0.08	0.00	0.01	24.09
rs28629976	EM CD8br %CD8br	ebi-a-GCST90001555	6	32625221	C	T	3427	-0.28	0.06	0.00	0.01	20.21
rs7867019	EM CD8br %CD8br	ebi-a-GCST90001555	9	13378083	T	A	3427	-0.23	0.05	0.00	0.01	21.19
rs7903206	EM CD8br %CD8br	ebi-a-GCST90001555	10	28349473	T	C	3427	0.18	0.04	0.00	0.01	20.58
rs17588249	EM CD8br %CD8br	ebi-a-GCST90001555	12	43493148	T	C	3427	0.13	0.03	0.00	0.01	20.41
rs14067	EM CD8br %CD8br	ebi-a-GCST90001555	13	114110660	G	A	3427	-0.12	0.03	0.00	0.01	21.28
rs117545347	EM CD8br %CD8br	ebi-a-GCST90001555	15	98090362	T	G	3427	-0.93	0.21	0.00	0.01	19.89
rs12952913	EM CD8br %CD8br	ebi-a-GCST90001555	17	18020050	T	C	3427	-0.68	0.15	0.00	0.01	19.63
rs4473273	EM CD8br %CD8br	ebi-a-GCST90001555	18	27999885	C	T	3427	0.11	0.02	0.00	0.01	24.37
rs141730400	EM CD8br %T cell	ebi-a-GCST90001556	1	244508870	T	A	3427	-0.29	0.07	0.00	0.01	20.07
rs17583875	EM CD8br %T cell	ebi-a-GCST90001556	1	197924770	A	G	3427	-1.50	0.22	0.00	0.01	45.71

rs542493	EM CD8br %T cell	ebi-a-GCST90001556	1	65508317	A	C	3427	0.35	0.08	0.00	0.01	19.84
rs76668354	EM CD8br %T cell	ebi-a-GCST90001556	2	103587624	G	C	3427	-0.67	0.13	0.00	0.01	26.02
rs58905133	EM CD8br %T cell	ebi-a-GCST90001556	2	38887964	G	A	3427	0.18	0.03	0.00	0.01	46.26
rs7577330	EM CD8br %T cell	ebi-a-GCST90001556	2	113613580	T	A	3427	0.25	0.05	0.00	0.01	22.04
rs4507432	EM CD8br %T cell	ebi-a-GCST90001556	4	1748200	G	A	3427	0.16	0.03	0.00	0.01	27.14
rs1583072	EM CD8br %T cell	ebi-a-GCST90001556	5	118002423	G	A	3427	-0.13	0.03	0.00	0.01	21.03
rs13359589	EM CD8br %T cell	ebi-a-GCST90001556	5	73116673	T	C	3427	-1.62	0.37	0.00	0.01	19.67
rs111551789	EM CD8br %T cell	ebi-a-GCST90001556	6	29720277	A	G	3427	0.43	0.09	0.00	0.01	21.31
rs2275854	EM CD8br %T cell	ebi-a-GCST90001556	6	29976838	G	A	3427	0.14	0.03	0.00	0.01	19.88
rs7496	EM CD8br %T cell	ebi-a-GCST90001556	6	52842839	T	C	3427	0.27	0.06	0.00	0.01	23.08
rs2442737	EM CD8br %T cell	ebi-a-GCST90001556	6	31329303	A	G	3427	-0.14	0.03	0.00	0.01	20.06
rs116944484	EM CD8br %T cell	ebi-a-GCST90001556	10	83233799	A	G	3427	-2.13	0.42	0.00	0.01	25.45
rs4802765	EM CD8br %T cell	ebi-a-GCST90001556	19	51589473	C	T	3427	-0.14	0.03	0.00	0.01	20.29
rs113702891	TD CD8br AC	ebi-a-GCST90001557	1	9586393	A	G	3395	-0.15	0.03	0.00	0.01	20.24
rs191753228	TD CD8br AC	ebi-a-GCST90001557	1	196321168	T	C	3395	1.02	0.23	0.00	0.01	19.80
rs78397636	TD CD8br AC	ebi-a-GCST90001557	2	36822684	T	C	3395	0.31	0.07	0.00	0.01	20.63
rs7583259	TD CD8br AC	ebi-a-GCST90001557	2	38921934	G	C	3395	0.28	0.03	0.00	0.03	121.40
rs6707421	TD CD8br AC	ebi-a-GCST90001557	2	38897781	G	A	3395	0.19	0.03	0.00	0.01	45.88
rs79293829	TD CD8br AC	ebi-a-GCST90001557	4	37444327	G	A	3395	0.42	0.09	0.00	0.01	20.67
rs56669682	TD CD8br AC	ebi-a-GCST90001557	4	136465712	A	C	3395	0.22	0.05	0.00	0.01	21.00
rs114799586	TD CD8br AC	ebi-a-GCST90001557	5	27430294	T	C	3395	0.29	0.07	0.00	0.01	19.97
rs6915999	TD CD8br AC	ebi-a-GCST90001557	6	31377851	A	G	3395	-0.14	0.03	0.00	0.01	22.10
rs78245997	TD CD8br AC	ebi-a-GCST90001557	7	67448185	G	T	3395	-0.68	0.15	0.00	0.01	20.37
rs12352819	TD CD8br AC	ebi-a-GCST90001557	9	133271663	T	C	3395	-0.37	0.08	0.00	0.01	22.28
rs4593919	TD CD8br AC	ebi-a-GCST90001557	10	118142847	C	T	3395	0.22	0.05	0.00	0.01	19.81
rs561315248	TD CD8br AC	ebi-a-GCST90001557	10	68624972	A	G	3395	0.19	0.04	0.00	0.01	24.91
rs10829262	TD CD8br AC	ebi-a-GCST90001557	10	18999976	G	T	3395	0.12	0.03	0.00	0.01	20.27
rs138437119	TD CD8br AC	ebi-a-GCST90001557	10	129206876	T	A	3395	0.38	0.08	0.00	0.01	20.31
rs7989683	TD CD8br AC	ebi-a-GCST90001557	13	96304050	T	C	3395	-0.25	0.05	0.00	0.01	21.75
rs1958553	TD CD8br AC	ebi-a-GCST90001557	14	34077214	A	G	3395	-0.18	0.04	0.00	0.01	19.91
rs4796089	TD CD8br AC	ebi-a-GCST90001557	17	33814758	C	T	3395	-0.18	0.04	0.00	0.01	21.11
rs2837838	TD CD8br AC	ebi-a-GCST90001557	21	42191862	G	A	3395	0.23	0.05	0.00	0.01	22.03
rs118009051	TD CD8br AC	ebi-a-GCST90001557	21	17079538	G	C	3395	0.34	0.07	0.00	0.01	21.02
rs79479105	TD CD8br %CD8br	ebi-a-GCST90001558	1	213569604	T	C	3427	0.18	0.04	0.00	0.01	22.52
rs113702891	TD CD8br %CD8br	ebi-a-GCST90001558	1	9586393	A	G	3427	-0.15	0.03	0.00	0.01	21.51
rs541367304	TD CD8br %CD8br	ebi-a-GCST90001558	1	198283058	A	G	3427	1.79	0.26	0.00	0.01	48.75
rs17397520	TD CD8br %CD8br	ebi-a-GCST90001558	1	99902142	C	T	3427	-0.39	0.09	0.00	0.01	19.77
rs11579717	TD CD8br %CD8br	ebi-a-GCST90001558	1	199999121	A	G	3427	0.89	0.19	0.00	0.01	22.69
rs13023673	TD CD8br %CD8br	ebi-a-GCST90001558	2	38594483	C	T	3427	0.18	0.03	0.00	0.01	30.93
rs79827501	TD CD8br %CD8br	ebi-a-GCST90001558	2	38431267	T	G	3427	-0.31	0.05	0.00	0.01	43.45
rs12622920	TD CD8br %CD8br	ebi-a-GCST90001558	2	38753514	T	G	3427	0.27	0.06	0.00	0.01	20.87

rs17034567	TD CD8br %CD8br	ebi-a-GCST90001558	2	102062586	G	T	3427	0.24	0.05	0.00	0.01	20.66
rs7583259	TD CD8br %CD8br	ebi-a-GCST90001558	2	38921934	G	C	3427	0.35	0.02	0.00	0.06	210.40
rs6707421	TD CD8br %CD8br	ebi-a-GCST90001558	2	38897781	G	A	3427	0.25	0.03	0.00	0.02	83.21
rs112587592	TD CD8br %CD8br	ebi-a-GCST90001558	5	104220406	C	A	3427	-0.82	0.18	0.00	0.01	21.03
rs9263519	TD CD8br %CD8br	ebi-a-GCST90001558	6	31067184	A	G	3427	-0.13	0.03	0.00	0.01	20.17
rs79481260	TD CD8br %CD8br	ebi-a-GCST90001558	8	7256096	T	A	3427	-0.65	0.15	0.00	0.01	20.15
rs1328299	TD CD8br %CD8br	ebi-a-GCST90001558	9	16047293	G	T	3427	-0.16	0.04	0.00	0.01	19.69
rs12352819	TD CD8br %CD8br	ebi-a-GCST90001558	9	133271663	T	C	3427	-0.34	0.08	0.00	0.01	19.90
rs561315248	TD CD8br %CD8br	ebi-a-GCST90001558	10	68624972	A	G	3427	0.19	0.04	0.00	0.01	26.36
rs78799727	TD CD8br %CD8br	ebi-a-GCST90001558	12	129218834	T	G	3427	-0.52	0.12	0.00	0.01	19.79
rs118080839	TD CD8br %CD8br	ebi-a-GCST90001558	12	53301100	T	C	3427	-0.40	0.09	0.00	0.01	20.83
rs7989683	TD CD8br %CD8br	ebi-a-GCST90001558	13	96304050	T	C	3427	-0.23	0.05	0.00	0.01	20.40
rs56995664	TD CD8br %CD8br	ebi-a-GCST90001558	17	71799960	C	T	3427	-0.20	0.04	0.00	0.01	21.67
rs8070109	TD CD8br %CD8br	ebi-a-GCST90001558	17	18598568	T	C	3427	-0.13	0.03	0.00	0.01	20.48
rs77511728	TD CD8br %CD8br	ebi-a-GCST90001558	17	2170021	C	T	3427	-0.25	0.05	0.00	0.01	23.79
rs3829817	TD CD8br %CD8br	ebi-a-GCST90001558	19	8161450	T	C	3427	0.13	0.03	0.00	0.01	20.41
rs9614433	TD CD8br %CD8br	ebi-a-GCST90001558	22	44700197	C	T	3427	-0.16	0.03	0.00	0.01	20.34
rs146620586	TD CD8br %T cell	ebi-a-GCST90001559	1	198524264	T	G	3427	1.57	0.29	0.00	0.01	30.00
rs13023673	TD CD8br %T cell	ebi-a-GCST90001559	2	38594483	C	T	3427	0.16	0.03	0.00	0.01	21.63
rs6707421	TD CD8br %T cell	ebi-a-GCST90001559	2	38897781	G	A	3427	0.20	0.03	0.00	0.01	51.13
rs7583259	TD CD8br %T cell	ebi-a-GCST90001559	2	38921934	G	C	3427	0.30	0.02	0.00	0.04	146.31
rs17034567	TD CD8br %T cell	ebi-a-GCST90001559	2	102062586	G	T	3427	0.24	0.05	0.00	0.01	20.57
rs79827501	TD CD8br %T cell	ebi-a-GCST90001559	2	38431267	T	G	3427	-0.26	0.05	0.00	0.01	27.60
rs78735231	TD CD8br %T cell	ebi-a-GCST90001559	4	134825979	C	T	3427	0.74	0.16	0.00	0.01	20.04
rs1450437	TD CD8br %T cell	ebi-a-GCST90001559	4	139524885	A	C	3427	-0.11	0.03	0.00	0.01	20.40
rs1864958	TD CD8br %T cell	ebi-a-GCST90001559	5	149767083	C	T	3427	-0.12	0.03	0.00	0.01	19.70
rs73338957	TD CD8br %T cell	ebi-a-GCST90001559	5	163631995	C	T	3427	0.22	0.05	0.00	0.01	19.65
rs62367544	TD CD8br %T cell	ebi-a-GCST90001559	5	104124640	C	A	3427	-0.91	0.20	0.00	0.01	21.49
rs138437119	TD CD8br %T cell	ebi-a-GCST90001559	10	129206876	T	A	3427	0.37	0.08	0.00	0.01	19.75
rs561315248	TD CD8br %T cell	ebi-a-GCST90001559	10	68624972	A	G	3427	0.18	0.04	0.00	0.01	23.03
rs7104957	TD CD8br %T cell	ebi-a-GCST90001559	11	122575669	G	A	3427	0.22	0.05	0.00	0.01	19.79
rs75690955	TD CD8br %T cell	ebi-a-GCST90001559	12	96812894	A	G	3427	0.23	0.05	0.00	0.01	20.84
rs7989683	TD CD8br %T cell	ebi-a-GCST90001559	13	96304050	T	C	3427	-0.23	0.05	0.00	0.01	19.99
rs28621553	TD CD8br %T cell	ebi-a-GCST90001559	17	71801578	A	G	3427	-0.21	0.04	0.00	0.01	22.89
rs3865240	TD CD8br %T cell	ebi-a-GCST90001559	17	1991460	G	A	3427	0.13	0.03	0.00	0.01	22.24
rs9968024	TD CD8br %T cell	ebi-a-GCST90001559	22	51144731	C	T	3427	-0.15	0.03	0.00	0.01	20.79
rs17655711	CD45RA+ CD8br AC	ebi-a-GCST90001560	1	237971051	C	T	3395	-0.24	0.05	0.00	0.01	19.66

rs76444609	CD45RA+ CD8br AC	ebi-a-GCST90001560	1	249084997	A	G	3395	3.81	0.84	0.00	0.01	20.76
rs28578699	CD45RA+ CD8br AC	ebi-a-GCST90001560	2	38899155	C	A	3395	0.12	0.02	0.00	0.01	28.60
rs11896593	CD45RA+ CD8br AC	ebi-a-GCST90001560	2	38925155	C	G	3395	0.20	0.02	0.00	0.02	76.48
rs79777035	CD45RA+ CD8br AC	ebi-a-GCST90001560	3	25717920	C	T	3395	0.99	0.20	0.00	0.01	24.92
rs185587352	CD45RA+ CD8br AC	ebi-a-GCST90001560	3	117384981	A	G	3395	1.98	0.44	0.00	0.01	20.00
rs62321187	CD45RA+ CD8br AC	ebi-a-GCST90001560	4	120605817	T	C	3395	3.71	0.83	0.00	0.01	20.06
rs114799586	CD45RA+ CD8br AC	ebi-a-GCST90001560	5	27430294	T	C	3395	0.27	0.06	0.00	0.01	23.04
rs72826622	CD45RA+ CD8br AC	ebi-a-GCST90001560	6	20193704	T	C	3395	-0.16	0.03	0.00	0.01	20.39
rs114968045	CD45RA+ CD8br AC	ebi-a-GCST90001560	6	32666960	C	T	3395	-0.16	0.03	0.00	0.01	32.23
rs3104369	CD45RA+ CD8br AC	ebi-a-GCST90001560	6	32602482	C	T	3395	0.17	0.03	0.00	0.01	37.13
rs72933273	CD45RA+ CD8br AC	ebi-a-GCST90001560	6	109644613	T	C	3395	-0.45	0.10	0.00	0.01	19.66
rs6943221	CD45RA+ CD8br AC	ebi-a-GCST90001560	7	10075089	A	T	3395	0.13	0.03	0.00	0.01	21.26
rs75402344	CD45RA+ CD8br AC	ebi-a-GCST90001560	8	5871144	T	G	3395	3.28	0.69	0.00	0.01	22.31
rs1550856	CD45RA+ CD8br AC	ebi-a-GCST90001560	8	117805397	G	A	3395	-0.12	0.03	0.00	0.01	21.24
rs140940501	CD45RA+ CD8br AC	ebi-a-GCST90001560	9	128850262	A	G	3395	-0.62	0.14	0.00	0.01	20.56
rs76552842	CD45RA+ CD8br AC	ebi-a-GCST90001560	11	83433494	A	G	3395	4.00	0.81	0.00	0.01	24.60
rs117284243	CD45RA+ CD8br AC	ebi-a-GCST90001560	11	122918979	T	A	3395	3.82	0.84	0.00	0.01	20.62
rs11110042	CD45RA+ CD8br AC	ebi-a-GCST90001560	12	100186724	T	C	3395	0.12	0.03	0.00	0.01	21.09
rs138746551	CD45RA+ CD8br AC	ebi-a-GCST90001560	12	48342339	G	A	3395	0.36	0.08	0.00	0.01	19.80
rs35644926	CD45RA+ CD8br AC	ebi-a-GCST90001560	15	71472800	C	T	3395	0.18	0.04	0.00	0.01	20.17
rs72791631	CD45RA+ CD8br AC	ebi-a-GCST90001560	16	57560762	A	T	3395	-0.16	0.03	0.00	0.01	20.50
rs16968252	CD45RA+ CD8br AC	ebi-a-GCST90001560	17	31692448	A	G	3395	0.42	0.09	0.00	0.01	19.65
rs118124576	CD45RA+ CD8br AC	ebi-a-GCST90001560	18	13390635	G	T	3395	-0.69	0.15	0.00	0.01	21.42
rs13381634	CD45RA+ CD8br AC	ebi-a-GCST90001560	18	62334258	G	A	3395	0.10	0.02	0.00	0.01	20.41
rs62077212	CD45RA+ CD8br AC	ebi-a-GCST90001560	18	27887990	C	T	3395	0.13	0.02	0.00	0.01	26.57
rs2837838	CD45RA+ CD8br AC	ebi-a-GCST90001560	21	42191862	G	A	3395	0.20	0.04	0.00	0.01	23.52
rs190023756	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	1	199471227	A	G	3427	0.54	0.11	0.00	0.01	25.62
rs116794175	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	1	194010208	C	T	3427	0.82	0.17	0.00	0.01	24.41
rs17583875	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	1	197924770	A	G	3427	1.76	0.19	0.00	0.02	81.29
rs34645541	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	1	195875605	A	C	3427	0.58	0.11	0.00	0.01	26.02
rs150956189	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	1	214625781	C	T	3427	3.10	0.56	0.00	0.01	30.82
rs28578699	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	2	38899155	C	A	3427	0.17	0.02	0.00	0.02	60.41
rs2463509	CD8br %CD8br	ebi-a-GCST90001561	2	103672986	T	C	3427	-1.14	0.20	0.00	0.01	31.19

rs11896593	CD45RA+ CD8br %CD8br CD45RA+	ebi-a-GCST90001561	2	38925155	C	G	3427	0.27	0.02	0.00	0.04	149.55
rs75196020	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	2	241750301	A	C	3427	0.11	0.02	0.00	0.01	19.90
rs10510244	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	3	3036671	C	G	3427	0.30	0.07	0.00	0.01	20.34
rs181615229	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	3	2937455	C	A	3427	0.22	0.05	0.00	0.01	20.46
rs62268448	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	3	61307038	C	A	3427	-0.17	0.04	0.00	0.01	20.45
rs115475145	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	4	148303054	C	T	3427	0.35	0.07	0.00	0.01	22.29
rs146969910	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	5	171664213	C	T	3427	-0.31	0.07	0.00	0.01	21.36
rs140764369	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	5	120985438	A	G	3427	0.24	0.05	0.00	0.01	21.41
rs148770451	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	6	26044129	T	C	3427	-0.40	0.08	0.00	0.01	24.43
rs118191043	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	7	138310353	G	A	3427	-0.66	0.15	0.00	0.01	20.36
rs77806002	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	11	127735836	G	A	3427	1.20	0.26	0.00	0.01	20.68
rs117900773	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	11	97410635	T	C	3427	0.36	0.08	0.00	0.01	21.03
rs76552842	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	11	83433494	A	G	3427	3.62	0.79	0.00	0.01	20.78
rs17588249	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	12	43493148	T	C	3427	-0.13	0.03	0.00	0.01	20.73
rs14067	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	13	114110660	G	A	3427	0.12	0.03	0.00	0.01	22.41
rs117545347	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	15	98090362	T	G	3427	0.96	0.21	0.00	0.01	21.07
rs114542543	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	17	55617067	T	C	3427	-0.32	0.07	0.00	0.01	19.62
rs12952913	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	17	18020050	T	C	3427	0.69	0.15	0.00	0.01	20.42
rs4473273	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	18	27999885	C	T	3427	-0.11	0.02	0.00	0.01	23.95
rs12958506	CD8br %CD8br CD45RA+	ebi-a-GCST90001561	18	75239395	T	G	3427	0.42	0.09	0.00	0.01	21.14
rs149720446	CD8br %T cell CD45RA+	ebi-a-GCST90001562	1	78725368	A	G	3427	0.52	0.12	0.00	0.01	20.07
rs72932690	CD8br %T cell CD45RA+	ebi-a-GCST90001562	1	68487020	G	A	3427	0.16	0.04	0.00	0.01	19.74
rs146620586	CD8br %T cell CD45RA+	ebi-a-GCST90001562	1	198524264	T	G	3427	1.46	0.25	0.00	0.01	32.98
rs569064217	CD8br %T cell	ebi-a-GCST90001562	1	241601336	A	G	3427	-0.44	0.10	0.00	0.01	20.00

rs150956189	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	1	214625781	C	T	3427	2.70	0.58	0.00	0.01	21.64
rs7583259	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	2	38921934	G	C	3427	0.24	0.02	0.00	0.03	115.40
rs6707421	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	2	38897781	G	A	3427	0.16	0.02	0.00	0.01	42.48
rs191749866	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	2	39603005	C	T	3427	0.49	0.11	0.00	0.01	21.16
rs73101099	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	3	61309584	A	G	3427	-0.17	0.04	0.00	0.01	20.39
rs185587352	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	3	117384981	A	G	3427	2.01	0.45	0.00	0.01	19.87
rs181615229	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	3	2937455	C	A	3427	0.23	0.05	0.00	0.01	21.41
rs77031975	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	4	618242	G	T	3427	1.05	0.21	0.00	0.01	24.02
rs140811183	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	4	135317580	A	G	3427	-0.44	0.09	0.00	0.01	22.06
rs11099574	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	4	84074624	A	T	3427	-0.12	0.03	0.00	0.01	20.72
rs2596459	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	6	31417540	T	G	3427	0.15	0.03	0.00	0.01	32.00
rs3094228	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	6	31429927	C	T	3427	-0.15	0.03	0.00	0.01	28.39
rs71569429	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	6	164449966	T	C	3427	0.28	0.06	0.00	0.01	24.60
rs6943827	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	7	41966718	A	G	3427	-0.10	0.02	0.00	0.01	21.05
rs75402344	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	8	5871144	T	G	3427	3.59	0.70	0.00	0.01	26.43
rs117773023	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	8	3996923	C	T	3427	2.86	0.59	0.00	0.01	23.69
rs16873557	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	8	106724711	T	C	3427	-0.26	0.06	0.00	0.01	20.29
rs8180936	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	8	61151574	T	C	3427	0.11	0.02	0.00	0.01	22.94
rs116954492	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	9	16497683	T	C	3427	-0.28	0.06	0.00	0.01	20.38
rs77806002	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	11	127735836	G	A	3427	1.35	0.27	0.00	0.01	24.28
rs76552842	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	11	83433494	A	G	3427	3.90	0.82	0.00	0.01	22.46
rs111110042	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	12	100186724	T	C	3427	0.12	0.03	0.00	0.01	19.95
rs11629948	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	15	65376824	A	T	3427	0.16	0.03	0.00	0.01	23.22
rs192221507	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	16	10650924	A	G	3427	1.71	0.39	0.00	0.01	19.61

rs79039330	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	17	43385620	T	G	3427	0.14	0.03	0.00	0.01	22.61
rs118124576	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	18	13390635	G	T	3427	-0.76	0.15	0.00	0.01	24.68
rs143018694	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	19	38512779	A	G	3427	2.28	0.51	0.00	0.01	20.20
rs2515898	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	19	13712956	T	C	3427	-0.10	0.02	0.00	0.01	20.69
rs62212949	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	21	19196423	A	C	3427	0.36	0.08	0.00	0.01	20.24
rs116954000	CD45RA+ CD8br %T cell	ebi-a-GCST90001562	22	40298491	A	T	3427	0.92	0.19	0.00	0.01	24.08
rs62107683	CM DN (CD4-CD8-)	ebi-a-GCST90001563	2	8430901	G	C	3395	-0.19	0.04	0.00	0.01	20.38
rs149297162	CM DN (CD4-CD8-)	ebi-a-GCST90001563	3	193372154	A	G	3395	1.67	0.37	0.00	0.01	20.12
rs71592595	CM DN (CD4-CD8-)	ebi-a-GCST90001563	5	121763931	C	T	3395	0.21	0.05	0.00	0.01	19.79
rs149764572	CM DN (CD4-CD8-)	ebi-a-GCST90001563	14	95378018	G	A	3395	1.12	0.22	0.00	0.01	25.05
rs335577	CM DN (CD4-CD8-)	ebi-a-GCST90001564	1	214874967	A	G	3427	0.16	0.03	0.00	0.01	20.08
rs140471174	CM DN (CD4-CD8-)	ebi-a-GCST90001564	1	55929294	T	C	3427	0.58	0.13	0.00	0.01	21.12
rs62107683	CM DN (CD4-CD8-)	ebi-a-GCST90001564	2	8430901	G	C	3427	-0.21	0.04	0.00	0.01	21.44
rs6443820	CM DN (CD4-CD8-)	ebi-a-GCST90001564	3	182393540	T	A	3427	-0.16	0.03	0.00	0.01	20.87
rs41297739	CM DN (CD4-CD8-)	ebi-a-GCST90001564	4	70347949	T	C	3427	0.17	0.04	0.00	0.01	19.62
rs36108327	CM DN (CD4-CD8-)	ebi-a-GCST90001564	6	134052042	A	G	3427	1.72	0.38	0.00	0.01	20.13
rs13439307	CM DN (CD4-CD8-)	ebi-a-GCST90001564	8	123030662	A	G	3427	-0.26	0.06	0.00	0.01	22.39
rs4421367	CM DN (CD4-CD8-)	ebi-a-GCST90001564	8	3902849	A	C	3427	0.11	0.02	0.00	0.01	20.39
rs114405373	CM DN (CD4-CD8-)	ebi-a-GCST90001564	10	88835399	T	C	3427	0.65	0.13	0.00	0.01	23.51
rs74902462	CM DN (CD4-CD8-)	ebi-a-GCST90001564	12	59066617	T	C	3427	-0.86	0.19	0.00	0.01	20.21
rs11643091	CM DN (CD4-CD8-)	ebi-a-GCST90001564	16	5903304	G	A	3427	0.12	0.03	0.00	0.01	20.71
rs2681072	CM DN (CD4-CD8-)	ebi-a-GCST90001564	17	33734417	T	C	3427	0.11	0.03	0.00	0.01	20.26
rs3744246	CM DN (CD4-CD8-)	ebi-a-GCST90001564	17	38084350	C	T	3427	0.11	0.02	0.00	0.01	20.40
rs77759734	CM DN (CD4-CD8-)	ebi-a-GCST90001564	18	56943484	T	C	3427	0.50	0.10	0.00	0.01	26.40
rs6056743	CM DN (CD4-CD8-)	ebi-a-GCST90001564	20	9582756	G	A	3427	0.15	0.03	0.00	0.01	19.74
rs60174111	CM DN (CD4-CD8-)	ebi-a-GCST90001564	20	20107611	C	T	3427	0.27	0.06	0.00	0.01	20.99
rs10923602	CM DN (CD4-CD8-)	ebi-a-GCST90001565	1	119091238	A	T	3427	0.11	0.02	0.00	0.01	20.81
rs7419106	CM DN (CD4-CD8-)	ebi-a-GCST90001565	1	4118900	G	C	3427	0.12	0.03	0.00	0.01	20.55
rs2363876	CM DN (CD4-CD8-)	ebi-a-GCST90001565	1	61776742	T	C	3427	0.13	0.03	0.00	0.01	23.88
rs142709521	CM DN (CD4-CD8-)	ebi-a-GCST90001565	1	978139	C	G	3427	-0.29	0.07	0.00	0.01	19.63
rs116181048	CM DN (CD4-CD8-)	ebi-a-GCST90001565	2	208596366	A	G	3427	0.79	0.17	0.00	0.01	21.01
rs60587253	CM DN (CD4-CD8-)	ebi-a-GCST90001565	2	80073031	T	C	3427	0.28	0.06	0.00	0.01	19.86
rs301224	CM DN (CD4-CD8-)	ebi-a-GCST90001565	3	176091938	A	G	3427	0.12	0.03	0.00	0.01	20.12
rs1816148	CM DN (CD4-CD8-)	ebi-a-GCST90001565	5	51696375	C	T	3427	-0.28	0.06	0.00	0.01	19.92

rs56017608	CM DN (CD4-CD8-)	ebi-a-GCST90001565	7	149806486	G	A	3427	0.11	0.02	0.00	0.01	19.59
rs10976338	CM DN (CD4-CD8-)	ebi-a-GCST90001565	9	7510150	C	G	3427	-0.32	0.06	0.00	0.01	26.60
rs11592463	CM DN (CD4-CD8-)	ebi-a-GCST90001565	10	34518442	A	G	3427	-0.16	0.04	0.00	0.01	20.66
rs79148798	CM DN (CD4-CD8-)	ebi-a-GCST90001565	11	132425661	C	T	3427	2.00	0.39	0.00	0.01	26.61
rs2681071	CM DN (CD4-CD8-)	ebi-a-GCST90001565	17	33734665	T	G	3427	0.11	0.02	0.00	0.01	21.00
rs188074964	CM DN (CD4-CD8-)	ebi-a-GCST90001565	19	49834820	C	T	3427	1.32	0.28	0.00	0.01	21.78
rs6093976	CM DN (CD4-CD8-)	ebi-a-GCST90001565	20	43035780	T	C	3427	0.16	0.04	0.00	0.01	19.87
rs117646786	CM DN (CD4-CD8-)	ebi-a-GCST90001565	22	33601370	C	A	3427	1.76	0.36	0.00	0.01	24.07
rs12139791	Naive DN (CD4-CD8-)	ebi-a-GCST90001566	1	182697886	A	G	3395	-0.20	0.04	0.00	0.01	19.95
rs1679937	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	1	53595255	T	G	3395	-0.10	0.02	0.00	0.01	21.11
rs62174823	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	2	156766527	C	T	3395	-0.36	0.08	0.00	0.01	19.68
rs78905646	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	2	189898847	A	G	3395	0.31	0.07	0.00	0.01	22.31
rs1348953	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	2	84213945	A	G	3395	-0.45	0.10	0.00	0.01	21.50
rs727239	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	3	6358753	G	A	3395	-0.66	0.15	0.00	0.01	20.20
rs116550072	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	5	150605036	T	C	3395	-0.76	0.17	0.00	0.01	20.56
rs3819288	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	6	31322694	C	T	3395	-0.18	0.04	0.00	0.01	22.29
rs2523614	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	6	31320654	C	T	3395	-0.14	0.03	0.00	0.01	27.54
rs73061672	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	7	8326430	A	T	3395	0.19	0.04	0.00	0.01	21.55
rs149868216	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	8	89666365	A	T	3395	0.56	0.12	0.00	0.01	20.41
rs7036108	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	9	107284126	A	G	3395	0.10	0.02	0.00	0.01	23.74
rs34406534	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	9	11740444	C	G	3395	-0.33	0.07	0.00	0.01	20.09
rs10821586	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	10	61519938	G	T	3395	-0.19	0.04	0.00	0.01	19.64
rs9599032	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	13	66450470	C	T	3395	0.26	0.06	0.00	0.01	20.09
rs35761894	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	13	70921568	G	A	3395	0.14	0.03	0.00	0.01	25.59
rs113911480	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	14	29113167	G	T	3395	0.28	0.06	0.00	0.01	23.96
rs12907798	AC Naive DN (CD4-CD8-)	ebi-a-GCST90001566	15	36349479	T	C	3395	-0.13	0.03	0.00	0.01	23.44
rs17315924	AC (CD4-CD8-)	ebi-a-GCST90001566	15	80725065	G	A	3395	0.14	0.03	0.00	0.01	19.84

rs4784694	Naive DN (CD4-CD8-) AC	ebi-a-GCST90001566	16	56631722	C	T	3395	-0.09	0.02	0.00	0.01	19.66
rs332818	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	1	61679283	G	A	3427	0.11	0.02	0.00	0.01	25.18
rs1252165	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	1	237168044	T	C	3427	0.86	0.19	0.00	0.01	21.69
rs114187856	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	2	240939082	T	C	3427	-0.65	0.14	0.00	0.01	20.75
rs76313555	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	3	59914042	T	C	3427	0.57	0.12	0.00	0.01	21.26
rs7699349	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	4	149134594	C	T	3427	-0.12	0.03	0.00	0.01	20.55
rs13359589	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	5	73116673	T	C	3427	1.75	0.35	0.00	0.01	25.33
rs141935759	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	6	145631468	A	G	3427	0.49	0.11	0.00	0.01	21.22
rs148768795	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	6	150715047	A	G	3427	0.39	0.08	0.00	0.01	22.98
rs1264345	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	6	30800068	A	G	3427	0.13	0.03	0.00	0.01	20.72
rs140929446	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	7	57131203	A	C	3427	-0.24	0.05	0.00	0.01	23.88
rs17779181	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	7	23640174	C	T	3427	-0.15	0.03	0.00	0.01	19.75
rs12537183	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	7	153543926	C	T	3427	-0.13	0.03	0.00	0.01	22.06
rs2331387	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	7	45898582	A	T	3427	0.11	0.02	0.00	0.01	21.06
rs4386870	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	7	22747751	T	C	3427	0.15	0.03	0.00	0.01	29.13
rs149868216	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	8	89666365	A	T	3427	0.67	0.14	0.00	0.01	22.68
rs4504704	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	9	78567264	C	T	3427	-0.13	0.03	0.00	0.01	19.74
rs2988087	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	10	32399394	A	G	3427	-0.10	0.02	0.00	0.01	19.79
rs755280	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	12	95116986	G	T	3427	0.44	0.09	0.00	0.01	21.34
rs1290035	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	14	69856859	C	T	3427	-0.13	0.03	0.00	0.01	21.01
rs139496000	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	15	64652871	A	G	3427	0.37	0.08	0.00	0.01	20.19
rs13339407	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	16	78156295	G	A	3427	-0.12	0.03	0.00	0.01	20.97
rs17608925	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	17	38082831	C	T	3427	-0.13	0.03	0.00	0.01	19.62
rs55748312	Naive DN (CD4-CD8-) %DN	ebi-a-GCST90001567	17	70184940	T	C	3427	-0.11	0.02	0.00	0.01	21.65

rs1679937	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	1	53595255	T	G	3427	-0.10	0.02	0.00	0.01	20.29
rs57726666	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	2	16203326	G	A	3427	0.19	0.04	0.00	0.01	21.58
rs4832054	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	2	87058580	A	G	3427	0.11	0.02	0.00	0.01	20.79
rs73150883	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	3	146048618	A	G	3427	0.26	0.06	0.00	0.01	19.78
rs116550072	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	5	150605036	T	C	3427	-0.77	0.17	0.00	0.01	19.87
rs2523614	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	6	31320654	C	T	3427	-0.15	0.03	0.00	0.01	33.96
rs3819288	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	6	31322694	C	T	3427	-0.21	0.04	0.00	0.01	27.40
rs73061672	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	7	8326430	A	T	3427	0.21	0.04	0.00	0.01	23.57
rs13235626	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	7	21281534	C	T	3427	0.09	0.02	0.00	0.01	19.67
rs12537183	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	7	153543926	C	T	3427	-0.12	0.02	0.00	0.01	23.15
rs117300256	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	8	15118856	T	G	3427	1.15	0.26	0.00	0.01	19.71
rs79416719	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	8	76291201	C	T	3427	0.90	0.20	0.00	0.01	20.12
rs149868216	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	8	89666365	A	T	3427	0.57	0.13	0.00	0.01	19.75
rs77986171	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	10	54725683	A	G	3427	-0.24	0.05	0.00	0.01	20.07
rs10836189	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	11	34364512	A	G	3427	-0.16	0.03	0.00	0.01	21.25
rs7956917	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	12	115792537	T	C	3427	-0.12	0.03	0.00	0.01	20.76
rs73084801	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	12	30233867	T	C	3427	0.83	0.18	0.00	0.01	20.27
rs35761894	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	13	70921568	G	A	3427	0.15	0.03	0.00	0.01	27.28
rs9599032	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	13	66450470	C	T	3427	0.26	0.06	0.00	0.01	20.03
rs664597	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	13	37440708	C	T	3427	-0.11	0.02	0.00	0.01	22.74
rs17315924	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	15	80725065	G	A	3427	0.14	0.03	0.00	0.01	19.91
rs112522622	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	16	51946807	T	G	3427	0.17	0.04	0.00	0.01	23.28
rs75858298	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	16	59757006	G	C	3427	0.23	0.05	0.00	0.01	21.24
rs117020416	Naive DN (CD4-CD8-) %T cell	ebi-a-GCST90001568	17	57520937	A	G	3427	1.59	0.36	0.00	0.01	19.89
rs541367304	EM DN (CD4-CD8-)	ebi-a-GCST90001569	1	198283058	A	G	3395	-1.32	0.25	0.00	0.01	28.43

rs111902980	EM DN (CD4-CD8-)	ebi-a-GCST90001569	1	157954450	A	G	3395	0.47	0.09	0.00	0.01	29.95
rs76685729	EM DN (CD4-CD8-)	ebi-a-GCST90001569	2	188005200	G	A	3395	-0.26	0.06	0.00	0.01	21.45
rs6710361	EM DN (CD4-CD8-)	ebi-a-GCST90001569	2	87047145	A	G	3395	0.18	0.03	0.00	0.01	34.17
rs142885636	EM DN (CD4-CD8-)	ebi-a-GCST90001569	2	73173482	G	A	3395	0.35	0.08	0.00	0.01	20.42
rs11124150	EM DN (CD4-CD8-)	ebi-a-GCST90001569	2	98905012	G	A	3395	-0.12	0.02	0.00	0.01	23.13
rs13170001	EM DN (CD4-CD8-)	ebi-a-GCST90001569	5	2685550	T	C	3395	-0.13	0.03	0.00	0.01	24.00
rs78522661	EM DN (CD4-CD8-)	ebi-a-GCST90001569	5	179850567	T	C	3395	0.18	0.04	0.00	0.01	21.55
rs10947785	EM DN (CD4-CD8-)	ebi-a-GCST90001569	6	39132818	A	G	3395	-0.11	0.02	0.00	0.01	21.39
rs113500908	EM DN (CD4-CD8-)	ebi-a-GCST90001569	6	100774499	T	C	3395	0.29	0.06	0.00	0.01	25.05
rs139249541	EM DN (CD4-CD8-)	ebi-a-GCST90001569	6	102294761	G	A	3395	0.40	0.07	0.00	0.01	31.79
rs11980500	EM DN (CD4-CD8-)	ebi-a-GCST90001569	7	14882428	A	G	3395	0.14	0.03	0.00	0.01	20.13
rs577044375	EM DN (CD4-CD8-)	ebi-a-GCST90001569	9	138170904	C	T	3395	-0.44	0.10	0.00	0.01	20.40
rs7869045	EM DN (CD4-CD8-)	ebi-a-GCST90001569	9	124584495	A	G	3395	-0.25	0.06	0.00	0.01	19.70
rs1573041	EM DN (CD4-CD8-)	ebi-a-GCST90001569	10	135091802	T	C	3395	0.12	0.03	0.00	0.01	20.35
rs569669132	EM DN (CD4-CD8-)	ebi-a-GCST90001569	15	78218071	C	T	3395	-0.68	0.15	0.00	0.01	20.19
rs141519401	EM DN (CD4-CD8-)	ebi-a-GCST90001569	16	14491395	T	G	3395	0.18	0.04	0.00	0.01	20.54
rs9896155	EM DN (CD4-CD8-)	ebi-a-GCST90001569	17	33794697	G	A	3395	0.15	0.03	0.00	0.01	35.44
rs117142611	EM DN (CD4-CD8-)	ebi-a-GCST90001569	19	48128615	A	G	3395	0.97	0.22	0.00	0.01	20.22
rs437936	EM DN (CD4-CD8-)	ebi-a-GCST90001569	21	43364569	G	T	3395	-0.16	0.04	0.00	0.01	21.27
rs9647225	EM DN (CD4-CD8-)	ebi-a-GCST90001569	21	15259953	T	G	3395	-0.13	0.03	0.00	0.01	22.62
rs2126332	EM DN (CD4-CD8-)	ebi-a-GCST90001570	1	226705690	G	A	3427	0.14	0.03	0.00	0.01	27.38
rs34645541	EM DN (CD4-CD8-)	ebi-a-GCST90001570	1	195875605	A	C	3427	-0.67	0.13	0.00	0.01	24.61
rs111902980	EM DN (CD4-CD8-)	ebi-a-GCST90001570	1	157954450	A	G	3427	0.51	0.09	0.00	0.01	31.08
rs61779793	EM DN (CD4-CD8-)	ebi-a-GCST90001570	1	40193589	T	C	3427	-0.69	0.15	0.00	0.01	20.33
rs7530076	EM DN (CD4-CD8-)	ebi-a-GCST90001570	1	195825276	A	G	3427	0.45	0.08	0.00	0.01	29.40
rs541367304	EM DN (CD4-CD8-)	ebi-a-GCST90001570	1	198283058	A	G	3427	-2.13	0.26	0.00	0.02	65.42
rs1976208	EM DN (CD4-CD8-)	ebi-a-GCST90001570	1	82322706	C	A	3427	0.12	0.03	0.00	0.01	21.95
rs6659397	EM DN (CD4-CD8-)	ebi-a-GCST90001570	1	206796165	C	T	3427	-0.13	0.03	0.00	0.01	24.81
rs12133465	EM DN (CD4-CD8-)	ebi-a-GCST90001570	1	195430336	G	A	3427	-0.66	0.13	0.00	0.01	25.85
rs6751481	EM DN (CD4-CD8-)	ebi-a-GCST90001570	2	38897810	C	T	3427	-0.12	0.03	0.00	0.01	21.94
rs6729180	EM DN (CD4-CD8-)	ebi-a-GCST90001570	2	38920621	T	C	3427	-0.20	0.03	0.00	0.02	60.23
rs6782825	EM DN (CD4-CD8-)	ebi-a-GCST90001570	3	24484006	A	G	3427	0.15	0.03	0.00	0.01	26.37
rs1093425	EM DN (CD4-CD8-)	ebi-a-GCST90001570	6	101417133	G	C	3427	-0.15	0.03	0.00	0.01	20.06
rs9265144	EM DN (CD4-CD8-)	ebi-a-GCST90001570	6	31288202	C	T	3427	-0.16	0.03	0.00	0.01	21.79
rs6935399	EM DN (CD4-CD8-)	ebi-a-GCST90001570	6	151026312	T	A	3427	-0.12	0.03	0.00	0.01	22.91
rs9274712	EM DN (CD4-CD8-)	ebi-a-GCST90001570	6	32637298	T	C	3427	0.17	0.04	0.00	0.01	22.03
rs7809394	EM DN (CD4-CD8-)	ebi-a-GCST90001570	7	55145382	T	C	3427	-0.13	0.03	0.00	0.01	23.25

rs112361235	EM DN (CD4-CD8-)	ebi-a-GCST90001570	7	23599680	T	C	3427	-0.45	0.10	0.00	0.01	20.94
rs6954002	EM DN (CD4-CD8-)	ebi-a-GCST90001570	7	152739128	T	A	3427	0.13	0.03	0.00	0.01	20.10
rs117099260	EM DN (CD4-CD8-)	ebi-a-GCST90001570	8	116338265	C	T	3427	0.38	0.09	0.00	0.01	19.68
rs116877116	EM DN (CD4-CD8-)	ebi-a-GCST90001570	8	135490341	A	G	3427	0.23	0.04	0.00	0.01	30.63
rs12115038	EM DN (CD4-CD8-)	ebi-a-GCST90001570	8	19929781	C	T	3427	0.13	0.03	0.00	0.01	20.52
rs4871042	EM DN (CD4-CD8-)	ebi-a-GCST90001570	8	121144851	G	C	3427	0.13	0.03	0.00	0.01	22.81
rs117470554	EM DN (CD4-CD8-)	ebi-a-GCST90001570	9	16436647	C	T	3427	0.18	0.04	0.00	0.01	20.13
rs74120911	EM DN (CD4-CD8-)	ebi-a-GCST90001570	10	21616211	C	T	3427	-0.26	0.06	0.00	0.01	21.43
rs827338	EM DN (CD4-CD8-)	ebi-a-GCST90001570	10	72674619	A	G	3427	0.17	0.04	0.00	0.01	20.73
rs75679242	EM DN (CD4-CD8-)	ebi-a-GCST90001570	11	44090370	A	C	3427	-0.18	0.04	0.00	0.01	21.01
rs77924860	EM DN (CD4-CD8-)	ebi-a-GCST90001570	11	14032701	T	G	3427	-1.51	0.34	0.00	0.01	20.16
rs117301997	EM DN (CD4-CD8-)	ebi-a-GCST90001570	14	46761853	T	C	3427	-0.78	0.17	0.00	0.01	20.25
rs141687469	EM DN (CD4-CD8-)	ebi-a-GCST90001570	17	38885512	C	T	3427	-0.41	0.09	0.00	0.01	19.67
rs5756946	EM DN (CD4-CD8-)	ebi-a-GCST90001570	22	38570219	C	T	3427	0.14	0.03	0.00	0.01	27.09
rs116230798	EM DN (CD4-CD8-)	ebi-a-GCST90001571	1	95254974	T	C	3427	-0.27	0.06	0.00	0.01	22.31
rs541367304	EM DN (CD4-CD8-)	ebi-a-GCST90001571	1	198283058	A	G	3427	-1.24	0.25	0.00	0.01	24.20
rs111902980	EM DN (CD4-CD8-)	ebi-a-GCST90001571	1	157954450	A	G	3427	0.43	0.09	0.00	0.01	24.35
rs34546581	EM DN (CD4-CD8-)	ebi-a-GCST90001571	2	87021659	A	G	3427	0.20	0.03	0.00	0.01	43.42
rs28555522	EM DN (CD4-CD8-)	ebi-a-GCST90001571	3	141557676	G	A	3427	0.13	0.03	0.00	0.01	22.88
rs77784181	EM DN (CD4-CD8-)	ebi-a-GCST90001571	4	130189351	A	G	3427	1.49	0.34	0.00	0.01	19.67
rs4583837	EM DN (CD4-CD8-)	ebi-a-GCST90001571	4	108003824	T	C	3427	0.26	0.06	0.00	0.01	21.54
rs78522661	EM DN (CD4-CD8-)	ebi-a-GCST90001571	5	179850567	T	C	3427	0.20	0.04	0.00	0.01	23.78
rs113075410	EM DN (CD4-CD8-)	ebi-a-GCST90001571	6	101435600	G	A	3427	0.24	0.05	0.00	0.01	20.04
rs13210358	EM DN (CD4-CD8-)	ebi-a-GCST90001571	6	102272234	T	C	3427	0.47	0.07	0.00	0.01	43.75
rs55781756	EM DN (CD4-CD8-)	ebi-a-GCST90001571	6	32795706	A	G	3427	0.15	0.03	0.00	0.01	21.58
rs113500908	EM DN (CD4-CD8-)	ebi-a-GCST90001571	6	100774499	T	C	3427	0.35	0.06	0.00	0.01	35.47
rs10225877	EM DN (CD4-CD8-)	ebi-a-GCST90001571	7	55150822	T	A	3427	-0.13	0.03	0.00	0.01	23.14
rs76747637	EM DN (CD4-CD8-)	ebi-a-GCST90001571	7	79800654	A	G	3427	0.69	0.15	0.00	0.01	21.06
rs28647367	EM DN (CD4-CD8-)	ebi-a-GCST90001571	8	142106083	A	G	3427	0.23	0.05	0.00	0.01	19.90
rs116877116	EM DN (CD4-CD8-)	ebi-a-GCST90001571	8	135490341	A	G	3427	0.20	0.04	0.00	0.01	23.82
rs75679242	EM DN (CD4-CD8-)	ebi-a-GCST90001571	11	44090370	A	C	3427	-0.18	0.04	0.00	0.01	21.44
rs78118522	EM DN (CD4-CD8-)	ebi-a-GCST90001571	11	107707464	C	A	3427	-0.13	0.03	0.00	0.01	21.49
rs11180778	EM DN (CD4-CD8-)	ebi-a-GCST90001571	12	76371057	C	T	3427	0.12	0.03	0.00	0.01	19.92
rs527345021	EM DN (CD4-CD8-)	ebi-a-GCST90001571	13	107465525	C	T	3427	-0.86	0.18	0.00	0.01	22.03
rs11635763	EM DN (CD4-CD8-)	ebi-a-GCST90001571	15	27177182	G	A	3427	0.12	0.02	0.00	0.01	21.81
rs141519401	EM DN (CD4-CD8-)	ebi-a-GCST90001571	16	14491395	T	G	3427	0.17	0.04	0.00	0.01	19.71
rs9896155	EM DN (CD4-CD8-)	ebi-a-GCST90001571	17	33794697	G	A	3427	0.13	0.03	0.00	0.01	25.82

rs140247402	EM DN (CD4-CD8-)	ebi-a-GCST90001571	17	1235562	T	C	3427	-0.25	0.06	0.00	0.01	20.65
rs437936	EM DN (CD4-CD8-)	ebi-a-GCST90001571	21	43364569	G	T	3427	-0.16	0.04	0.00	0.01	20.73
rs9660907	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	1	245039866	C	T	3395	0.23	0.05	0.00	0.01	20.44
rs4497244	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	1	197997953	A	G	3395	0.97	0.21	0.00	0.01	21.10
rs1891587	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	1	190077813	T	C	3395	0.12	0.03	0.00	0.01	23.15
rs6431734	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	2	15874207	A	C	3395	0.14	0.03	0.00	0.01	20.00
rs6751481	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	2	38897810	C	T	3395	0.12	0.03	0.00	0.01	20.31
rs6729180	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	2	38920621	T	C	3395	0.19	0.03	0.00	0.02	56.10
rs6755452	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	2	87035076	G	T	3395	0.17	0.03	0.00	0.01	26.37
rs36060603	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	3	78637361	G	A	3395	0.12	0.03	0.00	0.01	22.80
rs10003087	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	4	172937884	G	T	3395	0.13	0.03	0.00	0.01	24.08
rs72731805	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	4	147400930	A	T	3395	-0.29	0.07	0.00	0.01	19.62
rs114588192	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	5	146490228	T	C	3395	0.38	0.08	0.00	0.01	22.40
rs78513507	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	5	98468131	T	C	3395	0.34	0.08	0.00	0.01	20.37
rs2442720	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	6	31320277	T	A	3395	-0.17	0.03	0.00	0.01	28.38
rs9461666	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	6	31207763	G	T	3395	-0.22	0.05	0.00	0.01	20.65
rs7744522	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	6	11109693	G	A	3395	0.11	0.03	0.00	0.01	20.51
rs61126090	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	6	32586382	G	A	3395	-0.27	0.04	0.00	0.01	50.68
rs75865132	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	7	27625612	C	T	3395	-1.14	0.26	0.00	0.01	19.83
rs117257206	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	8	120880964	A	G	3395	0.26	0.06	0.00	0.01	20.57
rs191991810	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	12	38160865	C	G	3395	0.39	0.08	0.00	0.01	22.73
rs142576649	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	12	130856799	C	T	3395	0.37	0.08	0.00	0.01	20.11
rs17775026	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	16	26221619	A	G	3395	0.12	0.03	0.00	0.01	22.46
rs2242597	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	17	34245629	G	T	3395	-0.27	0.06	0.00	0.01	21.81
rs10422969	TD DN (CD4- CD8-) AC	ebi-a-GCST90001572	19	30096708	A	G	3395	0.17	0.04	0.00	0.01	20.58
rs6659397	TD DN (CD4- CD8-) %DN	ebi-a-GCST90001573	1	206796165	C	T	3427	0.13	0.03	0.00	0.01	24.91
rs2126332	TD DN (CD4- CD8-) %DN	ebi-a-GCST90001573	1	226705690	G	A	3427	-0.14	0.03	0.00	0.01	27.04
rs7530076	TD DN (CD4- CD8-) %DN	ebi-a-GCST90001573	1	195825276	A	G	3427	-0.45	0.08	0.00	0.01	29.36
rs111902980	TD DN (CD4- CD8-) %DN	ebi-a-GCST90001573	1	157954450	A	G	3427	-0.50	0.09	0.00	0.01	29.78
rs12133465	TD DN (CD4- CD8-) %DN	ebi-a-GCST90001573	1	195430336	G	A	3427	0.64	0.13	0.00	0.01	24.28
rs541367304	TD DN (CD4- CD8-) %DN	ebi-a-GCST90001573	1	198283058	A	G	3427	2.05	0.26	0.00	0.02	60.51
rs12712610	TD DN (CD4- CD8-) %DN	ebi-a-GCST90001573	2	38897249	G	A	3427	0.16	0.03	0.00	0.01	32.52
rs7583259	TD DN (CD4- CD8-) %DN	ebi-a-GCST90001573	2	38921934	G	C	3427	0.22	0.03	0.00	0.02	74.74
rs6782825	TD DN (CD4- CD8-) %DN	ebi-a-GCST90001573	3	24484006	A	G	3427	-0.16	0.03	0.00	0.01	29.17
rs34513732	TD DN (CD4- CD8-) %DN	ebi-a-GCST90001573	3	140621480	C	T	3427	0.13	0.03	0.00	0.01	21.51
rs72729850	TD DN (CD4- CD8-) %DN	ebi-a-GCST90001573	4	147300773	T	C	3427	-0.31	0.07	0.00	0.01	20.83
rs35139945	TD DN (CD4- CD8-) %DN	ebi-a-GCST90001573	6	32626267	T	G	3427	-0.17	0.04	0.00	0.01	22.34

rs1265224	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	6	4514319	A	G	3427	0.13	0.03	0.00	0.01	20.39
rs7809394	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	7	55145382	T	C	3427	0.13	0.03	0.00	0.01	22.67
rs112374765	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	7	157846504	T	G	3427	-0.32	0.07	0.00	0.01	20.26
rs10738134	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	8	121168145	C	T	3427	-0.12	0.03	0.00	0.01	21.39
rs116877116	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	8	135490341	A	G	3427	-0.23	0.04	0.00	0.01	29.78
rs12115038	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	8	19929781	C	T	3427	-0.13	0.03	0.00	0.01	19.86
rs10987246	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	9	129079854	G	A	3427	-0.12	0.03	0.00	0.01	19.89
rs117470554	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	9	16436647	C	T	3427	-0.19	0.04	0.00	0.01	21.61
rs7085637	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	10	21616206	G	T	3427	0.28	0.06	0.00	0.01	24.55
rs75679242	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	11	44090370	A	C	3427	0.18	0.04	0.00	0.01	20.96
rs117694717	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	13	106560589	A	T	3427	-0.21	0.05	0.00	0.01	19.87
rs80142288	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	13	75648872	G	A	3427	0.68	0.15	0.00	0.01	21.53
rs72676662	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	14	47362685	G	A	3427	0.94	0.21	0.00	0.01	20.29
rs141687469	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	17	38885512	C	T	3427	0.41	0.09	0.00	0.01	19.88
rs368478932	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	17	62913595	C	G	3427	-1.07	0.24	0.00	0.01	20.67
rs5756946	TD DN (CD4-CD8-) %DN	ebi-a-GCST90001573	22	38570219	C	T	3427	-0.13	0.03	0.00	0.01	24.30
rs114892491	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	1	156921889	T	C	3427	-0.29	0.06	0.00	0.01	21.26
rs9660907	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	1	245039866	C	T	3427	0.26	0.05	0.00	0.01	24.64
rs7530076	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	1	195825276	A	G	3427	-0.40	0.08	0.00	0.01	22.93
rs541367304	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	1	198283058	A	G	3427	1.56	0.26	0.00	0.01	34.94
rs57305384	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	1	229002885	C	G	3427	0.20	0.04	0.00	0.01	25.45
rs10920583	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	1	190099416	A	G	3427	0.11	0.03	0.00	0.01	20.19
rs6755452	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	2	87035076	G	T	3427	0.19	0.03	0.00	0.01	34.46
rs78911530	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	2	67543324	A	G	3427	-0.79	0.17	0.00	0.01	20.97
rs6729180	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	2	38920621	T	C	3427	0.20	0.03	0.00	0.02	59.23
rs6751481	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	2	38897810	C	T	3427	0.12	0.03	0.00	0.01	22.32
rs36060603	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	3	78637361	G	A	3427	0.13	0.03	0.00	0.01	25.28
rs10003087	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	4	172937884	G	T	3427	0.13	0.03	0.00	0.01	22.82
rs78513507	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	5	98468131	T	C	3427	0.35	0.08	0.00	0.01	20.17
rs142421834	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	5	52915612	G	A	3427	-0.49	0.11	0.00	0.01	20.00
rs76673582	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	5	149696943	T	C	3427	-0.24	0.05	0.00	0.01	21.53
rs9266797	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	6	31363510	T	C	3427	0.15	0.03	0.00	0.01	23.13
rs111983490	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	6	32205324	A	G	3427	-0.22	0.04	0.00	0.01	34.91
rs28584364	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	6	32512048	T	C	3427	0.31	0.05	0.00	0.01	36.82
rs17692789	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	7	122641368	A	C	3427	0.43	0.09	0.00	0.01	20.89
rs117481225	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	7	146971931	C	T	3427	-1.33	0.30	0.00	0.01	19.63
rs147717252	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	7	27567035	A	T	3427	-1.18	0.26	0.00	0.01	20.85

rs146907982	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	9	120231514	A	G	3427	0.25	0.06	0.00	0.01	19.82
rs35706962	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	11	106402698	T	C	3427	0.56	0.12	0.00	0.01	20.70
rs116088408	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	12	27632799	T	A	3427	-0.65	0.14	0.00	0.01	22.37
rs10876180	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	12	51836616	T	C	3427	-0.12	0.03	0.00	0.01	20.96
rs11669637	TD DN (CD4-CD8-) %T	ebi-a-GCST90001574	19	12690226	T	G	3427	-0.17	0.04	0.00	0.01	20.92
rs72721071	Naive CD4+ %T cell	ebi-a-GCST90001575	1	94170616	G	A	3427	0.22	0.05	0.00	0.01	20.72
rs17583875	Naive CD4+ %T cell	ebi-a-GCST90001575	1	197924770	A	G	3427	1.01	0.22	0.00	0.01	21.27
rs6576734	Naive CD4+ %T cell	ebi-a-GCST90001575	1	85383442	T	G	3427	-0.13	0.03	0.00	0.01	20.19
rs114825362	Naive CD4+ %T cell	ebi-a-GCST90001575	1	101526164	C	G	3427	0.39	0.09	0.00	0.01	20.13
rs150607181	Naive CD4+ %T cell	ebi-a-GCST90001575	1	239680551	C	G	3427	0.45	0.10	0.00	0.01	21.36
rs145775506	Naive CD4+ %T cell	ebi-a-GCST90001575	2	209850246	G	T	3427	0.90	0.20	0.00	0.01	19.83
rs72613709	Naive CD4+ %T cell	ebi-a-GCST90001575	2	197060767	G	T	3427	-0.31	0.06	0.00	0.01	23.97
rs150981153	Naive CD4+ %T cell	ebi-a-GCST90001575	2	57533997	C	A	3427	-0.56	0.11	0.00	0.01	25.16
rs12712610	Naive CD4+ %T cell	ebi-a-GCST90001575	2	38897249	G	A	3427	0.12	0.03	0.00	0.01	21.39
rs9990031	Naive CD4+ %T cell	ebi-a-GCST90001575	3	129437836	T	C	3427	-0.13	0.03	0.00	0.01	19.68
rs7636470	Naive CD4+ %T cell	ebi-a-GCST90001575	3	186606581	G	C	3427	0.17	0.03	0.00	0.01	24.57
rs4507432	Naive CD4+ %T cell	ebi-a-GCST90001575	4	1748200	G	A	3427	-0.15	0.03	0.00	0.01	24.97
rs36088117	Naive CD4+ %T cell	ebi-a-GCST90001575	4	11877955	T	G	3427	0.16	0.04	0.00	0.01	19.70
rs1379152	Naive CD4+ %T cell	ebi-a-GCST90001575	4	64498422	C	G	3427	-0.12	0.03	0.00	0.01	20.02
rs140125890	Naive CD4+ %T cell	ebi-a-GCST90001575	4	40884597	C	G	3427	0.66	0.14	0.00	0.01	22.48
rs57810789	Naive CD4+ %T cell	ebi-a-GCST90001575	4	185350356	T	C	3427	0.12	0.03	0.00	0.01	20.19
rs7715223	Naive CD4+ %T cell	ebi-a-GCST90001575	5	15900124	A	C	3427	-0.19	0.04	0.00	0.01	24.35
rs76972929	Naive CD4+ %T cell	ebi-a-GCST90001575	5	153357272	T	C	3427	1.20	0.27	0.00	0.01	19.96
rs151100670	Naive CD4+ %T cell	ebi-a-GCST90001575	5	141405792	G	A	3427	-0.24	0.05	0.00	0.01	20.56
rs9269702	Naive CD4+ %T cell	ebi-a-GCST90001575	6	32547143	A	G	3427	0.19	0.04	0.00	0.01	25.02
rs4959365	Naive CD4+ %T cell	ebi-a-GCST90001575	6	6026750	G	A	3427	-0.12	0.02	0.00	0.01	22.34
rs2516718	Naive CD4+ %T cell	ebi-a-GCST90001575	6	30223903	T	C	3427	0.18	0.04	0.00	0.01	19.58
rs4959028	Naive CD4+ %T cell	ebi-a-GCST90001575	6	32383138	G	A	3427	-0.18	0.03	0.00	0.01	29.35
rs77253141	Naive CD4+ %T cell	ebi-a-GCST90001575	8	24504854	C	T	3427	0.30	0.07	0.00	0.01	21.05
rs7042017	Naive CD4+ %T cell	ebi-a-GCST90001575	9	92779466	T	C	3427	-0.13	0.03	0.00	0.01	20.41
rs76139558	Naive CD4+ %T cell	ebi-a-GCST90001575	10	2787360	C	G	3427	-0.65	0.14	0.00	0.01	20.46
rs1849779	Naive CD4+ %T cell	ebi-a-GCST90001575	12	43674787	T	C	3427	0.11	0.03	0.00	0.01	20.25
rs146329634	Naive CD4+ %T cell	ebi-a-GCST90001575	14	89433599	T	C	3427	-0.31	0.07	0.00	0.01	21.37
rs980169	Naive CD4+ %T cell	ebi-a-GCST90001575	15	96720568	G	A	3427	0.12	0.03	0.00	0.01	20.33
rs66679234	Naive CD4+ %T cell	ebi-a-GCST90001575	17	4224639	T	C	3427	-0.14	0.02	0.00	0.01	31.44
rs4792002	Naive CD4+ %T cell	ebi-a-GCST90001575	17	7853356	G	A	3427	0.12	0.03	0.00	0.01	20.20
rs75010615	Naive CD4+ %T cell	ebi-a-GCST90001575	17	38896451	T	C	3427	-1.40	0.31	0.00	0.01	20.79

rs157386	Naive CD4+ %T cell	ebi-a-GCST90001575	17	19699121	A	G	3427	-0.19	0.04	0.00	0.01	21.92
rs79538978	Naive CD4+ %T cell	ebi-a-GCST90001575	18	54960800	C	T	3427	0.32	0.06	0.00	0.01	25.23
rs78137572	Naive CD4+ %T cell	ebi-a-GCST90001575	19	15677349	C	T	3427	0.17	0.04	0.00	0.01	21.47
rs6046769	Naive CD4+ %T cell	ebi-a-GCST90001575	20	20238128	G	A	3427	0.11	0.02	0.00	0.01	20.15
rs5767274	Naive CD4+ %T cell	ebi-a-GCST90001575	22	46980774	T	C	3427	0.16	0.04	0.00	0.01	19.96
rs1384161	Transitional %B cell	ebi-a-GCST90001576	1	99311623	G	A	3657	0.12	0.03	0.00	0.01	21.71
rs2375523	Transitional %B cell	ebi-a-GCST90001576	1	65152941	T	C	3657	-0.19	0.04	0.00	0.01	22.26
rs1473575	Transitional %B cell	ebi-a-GCST90001576	1	242619029	T	C	3657	0.12	0.02	0.00	0.01	21.91
rs62157336	Transitional %B cell	ebi-a-GCST90001576	2	79220714	T	C	3657	-0.13	0.03	0.00	0.01	20.13
rs145834662	Transitional %B cell	ebi-a-GCST90001576	2	85296873	A	T	3657	-0.34	0.08	0.00	0.01	19.65
rs76112278	Transitional %B cell	ebi-a-GCST90001576	4	15915069	A	G	3657	-0.41	0.09	0.00	0.01	21.34
rs6853622	Transitional %B cell	ebi-a-GCST90001576	4	83375719	C	T	3657	-0.12	0.03	0.00	0.01	20.02
rs29001568	Transitional %B cell	ebi-a-GCST90001576	6	32447341	A	G	3657	-0.15	0.03	0.00	0.01	22.72
rs9394619	Transitional %B cell	ebi-a-GCST90001576	6	39574377	C	T	3657	0.33	0.07	0.00	0.01	24.89
rs28491938	Transitional %B cell	ebi-a-GCST90001576	9	41980474	T	C	3657	0.19	0.04	0.00	0.01	20.91
rs117249531	Transitional %B cell	ebi-a-GCST90001576	10	81026095	T	C	3657	-0.94	0.20	0.00	0.01	21.92
rs190371014	Transitional %B cell	ebi-a-GCST90001576	10	24415064	G	C	3657	0.30	0.07	0.00	0.01	20.85
rs35060907	Transitional %B cell	ebi-a-GCST90001576	10	132636158	T	G	3657	-0.20	0.04	0.00	0.01	22.88
rs59879144	Transitional %B cell	ebi-a-GCST90001576	12	75564449	A	C	3657	-0.45	0.10	0.00	0.01	20.80
rs117943886	Transitional %B cell	ebi-a-GCST90001576	13	95198601	T	C	3657	0.24	0.05	0.00	0.01	21.44
rs4906270	Transitional %B cell	ebi-a-GCST90001576	14	103364737	T	G	3657	-0.14	0.03	0.00	0.01	21.47
rs2216762	Transitional %B cell	ebi-a-GCST90001576	16	84759446	C	T	3657	-0.15	0.03	0.00	0.01	22.92
rs1294253	Transitional AC	ebi-a-GCST90001577	1	233503875	C	T	3656	-0.12	0.03	0.00	0.01	20.60
rs116285595	Transitional AC	ebi-a-GCST90001577	1	200858159	T	C	3656	0.67	0.14	0.00	0.01	21.87
rs1384162	Transitional AC	ebi-a-GCST90001577	1	99311831	G	A	3656	0.12	0.02	0.00	0.01	22.43
rs140088532	Transitional AC	ebi-a-GCST90001577	2	105581937	C	T	3656	-0.31	0.06	0.00	0.01	23.99
rs78188887	Transitional AC	ebi-a-GCST90001577	2	155636739	G	A	3656	1.48	0.32	0.00	0.01	20.97
rs3845834	Transitional AC	ebi-a-GCST90001577	2	219236436	T	C	3656	0.28	0.06	0.00	0.01	19.59
rs113965271	Transitional AC	ebi-a-GCST90001577	2	128428350	C	G	3656	-0.32	0.07	0.00	0.01	19.89
rs733555	Transitional AC	ebi-a-GCST90001577	2	16464227	T	G	3656	-0.13	0.03	0.00	0.01	21.19
rs374727947	Transitional AC	ebi-a-GCST90001577	3	163801921	G	T	3656	0.59	0.13	0.00	0.01	20.15
rs34161184	Transitional AC	ebi-a-GCST90001577	3	74778821	A	G	3656	-0.11	0.02	0.00	0.01	20.15
rs35949974	Transitional AC	ebi-a-GCST90001577	4	42452429	A	T	3656	-0.17	0.04	0.00	0.01	21.81
rs76112278	Transitional AC	ebi-a-GCST90001577	4	15915069	A	G	3656	-0.45	0.09	0.00	0.01	27.45
rs985222	Transitional AC	ebi-a-GCST90001577	4	5229884	C	T	3656	-0.11	0.02	0.00	0.01	20.38
rs75512885	Transitional AC	ebi-a-GCST90001577	5	158317602	A	T	3656	-0.26	0.05	0.00	0.01	33.13
rs929786	Transitional AC	ebi-a-GCST90001577	5	143071654	T	A	3656	-0.17	0.04	0.00	0.01	20.53

rs77886121	Transitional AC	ebi-a-GCST90001577	5	153628389	A	G	3656	0.33	0.07	0.00	0.01	22.73
rs143397127	Transitional AC	ebi-a-GCST90001577	7	12847391	C	T	3656	-0.46	0.10	0.00	0.01	23.06
rs12535189	Transitional AC	ebi-a-GCST90001577	7	121174063	T	C	3656	0.11	0.02	0.00	0.01	21.52
rs1639898	Transitional AC	ebi-a-GCST90001577	7	2204473	G	A	3656	-0.17	0.04	0.00	0.01	22.04
rs55798372	Transitional AC	ebi-a-GCST90001577	8	3638250	T	C	3656	0.24	0.05	0.00	0.01	24.60
rs2395904	Transitional AC	ebi-a-GCST90001577	8	130617819	G	T	3656	-0.13	0.03	0.00	0.01	24.71
rs16868356	Transitional AC	ebi-a-GCST90001577	8	102770464	C	T	3656	0.42	0.09	0.00	0.01	23.98
rs190371014	Transitional AC	ebi-a-GCST90001577	10	24415064	G	C	3656	0.33	0.06	0.00	0.01	25.70
rs12799241	Transitional AC	ebi-a-GCST90001577	11	119980729	A	G	3656	0.12	0.03	0.00	0.01	19.61
rs75505900	Transitional AC	ebi-a-GCST90001577	11	115433689	T	G	3656	-0.27	0.06	0.00	0.01	21.19
rs11159480	Transitional AC	ebi-a-GCST90001577	14	81466662	T	G	3656	-0.15	0.03	0.00	0.01	20.29
rs146347064	Transitional AC	ebi-a-GCST90001577	16	8263526	A	C	3656	-0.39	0.09	0.00	0.01	20.86
rs117518951	Transitional AC	ebi-a-GCST90001577	16	55449193	C	T	3656	0.27	0.05	0.00	0.01	24.22
rs8045732	Transitional AC	ebi-a-GCST90001577	16	88060989	C	G	3656	0.12	0.02	0.00	0.01	21.79
rs12939565	Transitional AC	ebi-a-GCST90001577	17	38038389	T	A	3656	-0.14	0.03	0.00	0.01	29.45
rs8092698	Transitional AC	ebi-a-GCST90001577	18	75135714	A	T	3656	0.12	0.03	0.00	0.01	19.93
rs78943781	Transitional AC	ebi-a-GCST90001577	19	32443306	C	T	3656	-0.21	0.05	0.00	0.01	20.90
rs655580	Transitional AC	ebi-a-GCST90001577	19	53039110	A	G	3656	0.11	0.02	0.00	0.01	20.78
rs10796440	Transitional %lymphocyte	ebi-a-GCST90001578	1	18491472	G	T	3656	0.12	0.03	0.00	0.01	19.78
rs1384162	Transitional %lymphocyte	ebi-a-GCST90001578	1	99311831	G	A	3656	0.12	0.02	0.00	0.01	24.86
rs10158474	Transitional %lymphocyte	ebi-a-GCST90001578	1	96015938	G	A	3656	0.11	0.02	0.00	0.01	20.96
rs140088532	Transitional %lymphocyte	ebi-a-GCST90001578	2	105581937	C	T	3656	-0.32	0.06	0.00	0.01	25.37
rs62157336	Transitional %lymphocyte	ebi-a-GCST90001578	2	79220714	T	C	3656	-0.13	0.03	0.00	0.01	19.83
rs733555	Transitional %lymphocyte	ebi-a-GCST90001578	2	16464227	T	G	3656	-0.12	0.03	0.00	0.01	19.79
rs74720848	Transitional %lymphocyte	ebi-a-GCST90001578	4	164477154	G	A	3656	0.74	0.16	0.00	0.01	20.60
rs72673262	Transitional %lymphocyte	ebi-a-GCST90001578	4	126225945	T	C	3656	0.12	0.03	0.00	0.01	19.72
rs76112278	Transitional %lymphocyte	ebi-a-GCST90001578	4	15915069	A	G	3656	-0.42	0.09	0.00	0.01	23.06
rs77886121	Transitional %lymphocyte	ebi-a-GCST90001578	5	153628389	A	G	3656	0.32	0.07	0.00	0.01	21.05
rs75512885	Transitional %lymphocyte	ebi-a-GCST90001578	5	158317602	A	T	3656	-0.24	0.05	0.00	0.01	26.89
rs17206161	Transitional %lymphocyte	ebi-a-GCST90001578	6	32665490	C	T	3656	-0.21	0.05	0.00	0.01	21.45
rs1639898	Transitional %lymphocyte	ebi-a-GCST90001578	7	2204473	G	A	3656	-0.16	0.04	0.00	0.01	20.17
rs55798372	Transitional %lymphocyte	ebi-a-GCST90001578	8	3638250	T	C	3656	0.22	0.05	0.00	0.01	20.71
rs7005227	Transitional %lymphocyte	ebi-a-GCST90001578	8	130597858	A	C	3656	-0.13	0.03	0.00	0.01	23.26
rs12360242	Transitional %lymphocyte	ebi-a-GCST90001578	10	132652504	T	C	3656	-0.20	0.04	0.00	0.01	21.36
rs190371014	Transitional %lymphocyte	ebi-a-GCST90001578	10	24415064	G	C	3656	0.33	0.07	0.00	0.01	25.69
rs11068290	Transitional %lymphocyte	ebi-a-GCST90001578	12	110228055	T	C	3656	0.36	0.08	0.00	0.01	20.35
rs59879144	Transitional %lymphocyte	ebi-a-GCST90001578	12	75564449	A	C	3656	-0.48	0.10	0.00	0.01	24.27

rs117943886	Transitional %lymphocyte	ebi-a-GCST90001578	13	95198601	T	C	3656	0.26	0.05	0.00	0.01	24.52
rs3811315	Transitional %lymphocyte	ebi-a-GCST90001578	14	22499870	A	T	3656	0.18	0.04	0.00	0.01	22.88
rs72805142	Transitional %lymphocyte	ebi-a-GCST90001578	16	85878540	T	G	3656	-0.20	0.04	0.00	0.01	20.05
rs2216762	Transitional %lymphocyte	ebi-a-GCST90001578	16	84759446	C	T	3656	-0.15	0.03	0.00	0.01	24.87
rs146347064	Transitional %lymphocyte	ebi-a-GCST90001578	16	8263526	A	C	3656	-0.41	0.09	0.00	0.01	22.20
rs11657531	Transitional %lymphocyte	ebi-a-GCST90001578	17	2731370	T	C	3656	-0.11	0.02	0.00	0.01	23.06
rs12939565	Transitional %lymphocyte	ebi-a-GCST90001578	17	38038389	T	A	3656	-0.13	0.03	0.00	0.01	21.76
rs60521331	Transitional %lymphocyte	ebi-a-GCST90001578	17	8639905	A	G	3656	0.11	0.02	0.00	0.01	20.03
rs329966	Transitional %lymphocyte	ebi-a-GCST90001578	19	53070617	G	A	3656	-0.11	0.02	0.00	0.01	20.24
rs12404245	CD14- CD16+	ebi-a-GCST90001579	1	77952299	C	T	3629	0.32	0.07	0.00	0.01	21.26
rs115383270	CD14- CD16+	ebi-a-GCST90001579	1	161531340	A	G	3629	-0.46	0.03	0.00	0.05	204.70
rs74341264	CD14- CD16+	ebi-a-GCST90001579	1	161561151	A	G	3629	0.20	0.04	0.00	0.01	28.03
rs112150611	CD14- CD16+	ebi-a-GCST90001579	1	18034211	T	C	3629	0.52	0.11	0.00	0.01	21.42
rs116662407	CD14- CD16+	ebi-a-GCST90001579	1	18064955	C	A	3629	0.68	0.15	0.00	0.01	21.07
rs6684716	CD14- CD16+	ebi-a-GCST90001579	1	166649601	T	C	3629	0.18	0.04	0.00	0.01	21.06
rs74578127	CD14- CD16+	ebi-a-GCST90001579	2	232980015	T	A	3629	0.32	0.07	0.00	0.01	20.11
rs3853483	CD14- CD16+	ebi-a-GCST90001579	5	141962502	T	G	3629	-0.14	0.03	0.00	0.01	21.05
rs12055035	CD14- CD16+	ebi-a-GCST90001579	5	173542221	C	T	3629	-0.13	0.03	0.00	0.01	21.26
rs77983030	CD14- CD16+	ebi-a-GCST90001579	9	74645450	T	C	3629	0.22	0.05	0.00	0.01	19.94
rs117671592	CD14- CD16+	ebi-a-GCST90001579	10	14470275	G	A	3629	1.06	0.24	0.00	0.01	19.89
rs144707945	CD14- CD16+	ebi-a-GCST90001579	11	115147742	C	G	3629	-1.20	0.24	0.00	0.01	24.25
rs10833398	CD14- CD16+	ebi-a-GCST90001579	11	20860026	C	T	3629	-0.14	0.03	0.00	0.01	22.25
rs143984211	CD14- CD16+	ebi-a-GCST90001579	11	395746	T	G	3629	0.33	0.07	0.00	0.01	21.90
rs139922750	CD14- CD16+	ebi-a-GCST90001579	12	64437951	A	C	3629	-2.48	0.56	0.00	0.01	19.85
rs8026803	CD14- CD16+	ebi-a-GCST90001579	15	80260014	C	T	3629	-0.15	0.03	0.00	0.01	25.44
rs473026	CD14- CD16+	ebi-a-GCST90001579	18	24363797	A	G	3629	-0.27	0.06	0.00	0.01	21.99
rs139025334	CD14- CD16+	ebi-a-GCST90001579	20	48944963	A	G	3629	0.23	0.05	0.00	0.01	22.25
rs9984228	CD14- CD16+	ebi-a-GCST90001579	21	47484045	T	C	3629	-0.13	0.03	0.00	0.01	20.74
rs74341264	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	1	161561151	A	G	3629	0.25	0.04	0.00	0.01	43.05
rs115451299	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	1	110012633	C	T	3629	-1.26	0.27	0.00	0.01	21.13
rs185631377	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	1	161031616	A	G	3629	-0.57	0.13	0.00	0.01	19.96
rs71632979	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	1	161526397	G	A	3629	-0.64	0.03	0.00	0.13	550.72
rs139795227	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	1	92842367	C	A	3629	0.32	0.06	0.00	0.01	28.94
rs71639910	CD16+ monocyte AC	ebi-a-GCST90001580	1	161937774	A	G	3629	-0.31	0.05	0.00	0.01	40.44

rs3829793	CD14+ CD16+ monocyte AC CD14+	ebi-a-GCST90001580	1	161194400	G	C	3629	0.16	0.03	0.00	0.01	38.07
rs147218533	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	3	167152276	C	T	3629	0.43	0.10	0.00	0.01	19.63
rs112831211	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	4	182944203	G	T	3629	0.30	0.06	0.00	0.01	22.74
rs78723624	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	4	33430567	G	A	3629	-0.61	0.14	0.00	0.01	20.45
rs9313620	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	5	172669254	T	C	3629	0.11	0.02	0.00	0.01	19.79
rs144601865	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	5	38258302	T	G	3629	0.23	0.05	0.00	0.01	20.00
rs13260841	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	8	19431500	T	C	3629	-0.13	0.03	0.00	0.01	21.19
rs77305308	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	8	30170640	C	T	3629	0.32	0.07	0.00	0.01	21.56
rs72649637	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	8	51887026	C	T	3629	0.30	0.07	0.00	0.01	20.06
rs877544	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	9	113895745	T	A	3629	-0.12	0.02	0.00	0.01	23.37
rs10970605	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	9	31933307	C	G	3629	-0.58	0.12	0.00	0.01	23.06
rs142005394	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	11	17377369	A	G	3629	-1.05	0.23	0.00	0.01	19.80
rs847888	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	12	112151742	A	C	3629	-0.14	0.03	0.00	0.01	27.25
rs71436541	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	13	80448111	T	G	3629	-0.37	0.08	0.00	0.01	20.76
rs11856889	CD16+ monocyte AC CD14+	ebi-a-GCST90001580	15	24443663	T	C	3629	-0.12	0.03	0.00	0.01	21.90
rs913678	CD16+ monocyte AC CD14- CD16- AC	ebi-a-GCST90001580	20	48955424	C	T	3629	-0.12	0.03	0.00	0.01	22.20
rs1338629	CD14- CD16- AC	ebi-a-GCST90001581	1	164446649	A	T	3629	-0.17	0.04	0.00	0.01	19.73
rs144126567	CD14- CD16- AC	ebi-a-GCST90001581	1	161510516	G	C	3629	0.33	0.03	0.00	0.03	102.37
rs78327733	CD14- CD16- AC	ebi-a-GCST90001581	1	241079307	G	A	3629	-0.29	0.06	0.00	0.01	22.62
rs3014270	CD14- CD16- AC	ebi-a-GCST90001581	1	227562378	T	C	3629	-0.26	0.05	0.00	0.01	31.59
rs147699975	CD14- CD16- AC	ebi-a-GCST90001581	2	213883128	T	C	3629	-0.55	0.11	0.00	0.01	23.14
rs79657767	CD14- CD16- AC	ebi-a-GCST90001581	2	38775196	T	C	3629	-1.37	0.31	0.00	0.01	19.87
rs2324472	CD14- CD16- AC	ebi-a-GCST90001581	4	24260048	C	T	3629	0.11	0.02	0.00	0.01	20.63
rs2562375	CD14- CD16- AC	ebi-a-GCST90001581	5	132729281	C	T	3629	-0.11	0.03	0.00	0.01	20.88
rs73161489	CD14- CD16- AC	ebi-a-GCST90001581	5	86880856	G	A	3629	1.20	0.27	0.00	0.01	19.75
rs17540814	CD14- CD16- AC	ebi-a-GCST90001581	6	93853881	C	T	3629	-2.37	0.50	0.00	0.01	22.39
rs6921349	CD14- CD16- AC	ebi-a-GCST90001581	6	166039211	C	T	3629	0.14	0.03	0.00	0.01	19.62
rs445	CD14- CD16- AC	ebi-a-GCST90001581	7	92408370	T	C	3629	-0.18	0.03	0.00	0.01	33.87
rs149241803	CD14- CD16- AC	ebi-a-GCST90001581	7	39649629	A	G	3629	-0.40	0.08	0.00	0.01	23.25

rs138772443	CD14- CD16- AC	ebi-a-GCST90001581	9	139345466	A	G	3629	-0.81	0.18	0.00	0.01	20.54
rs17296114	CD14- CD16- AC	ebi-a-GCST90001581	10	32693485	T	C	3629	0.14	0.03	0.00	0.01	20.06
rs12301658	CD14- CD16- AC	ebi-a-GCST90001581	12	22349620	C	A	3629	0.17	0.04	0.00	0.01	19.75
rs76478186	CD14- CD16- AC	ebi-a-GCST90001581	12	68363738	A	G	3629	-0.74	0.16	0.00	0.01	20.33
rs1800973	CD14- CD16- AC	ebi-a-GCST90001581	12	69744014	A	C	3629	0.31	0.04	0.00	0.01	47.36
rs11865775	CD14- CD16- AC	ebi-a-GCST90001581	16	5750222	T	C	3629	-0.21	0.05	0.00	0.01	21.99
rs115758894	CD14- CD16- AC	ebi-a-GCST90001581	18	53138692	A	G	3629	0.22	0.05	0.00	0.01	23.00
rs4806508	CD14- CD16- AC	ebi-a-GCST90001581	19	54337523	A	G	3629	0.14	0.03	0.00	0.01	23.79
rs8122111	CD14- CD16- AC	ebi-a-GCST90001581	20	46542662	G	A	3629	0.14	0.03	0.00	0.01	21.70
rs17406122	CD14- CD16- AC	ebi-a-GCST90001581	20	7719687	A	T	3629	5.61	1.23	0.00	0.01	20.66
rs761570	CD14- CD16- AC	ebi-a-GCST90001581	20	912626	G	A	3629	-0.16	0.03	0.00	0.01	21.31
rs2205245	CD14- CD16- AC	ebi-a-GCST90001581	21	29959796	T	G	3629	-0.19	0.04	0.00	0.01	21.13
rs78355921	CD14+ CD16-	ebi-a-GCST90001582	1	159941852	C	G	3629	-0.19	0.04	0.00	0.01	22.11
rs150649461	CD14+ CD16-	ebi-a-GCST90001582	1	92925654	C	G	3629	0.29	0.06	0.00	0.01	20.96
rs17465420	CD14+ CD16-	ebi-a-GCST90001582	1	38398588	C	T	3629	0.11	0.02	0.00	0.01	19.65
rs2904118	CD14+ CD16-	ebi-a-GCST90001582	2	56402320	T	C	3629	-0.12	0.03	0.00	0.01	20.22
rs1375493	CD14+ CD16-	ebi-a-GCST90001582	2	182323766	A	G	3629	0.15	0.02	0.00	0.01	37.52
rs183716470	CD14+ CD16-	ebi-a-GCST90001582	3	81299703	G	T	3629	-0.20	0.05	0.00	0.01	20.45
rs58943387	CD14+ CD16-	ebi-a-GCST90001582	3	190720967	G	T	3629	-0.15	0.03	0.00	0.01	21.93
rs310730	CD14+ CD16-	ebi-a-GCST90001582	3	4328811	C	T	3629	0.30	0.07	0.00	0.01	20.56
rs536943	CD14+ CD16-	ebi-a-GCST90001582	3	173213883	G	A	3629	-0.14	0.03	0.00	0.01	20.03
rs189962728	CD14+ CD16-	ebi-a-GCST90001582	4	58124445	C	T	3629	-2.57	0.57	0.00	0.01	20.65
rs13121143	CD14+ CD16-	ebi-a-GCST90001582	4	190199873	C	T	3629	0.17	0.03	0.00	0.01	26.50
rs10029045	CD14+ CD16-	ebi-a-GCST90001582	4	36008336	A	T	3629	-0.11	0.02	0.00	0.01	19.58
rs12501003	CD14+ CD16-	ebi-a-GCST90001582	4	92510918	G	A	3629	0.16	0.03	0.00	0.01	25.57
rs56010301	CD14+ CD16-	ebi-a-GCST90001582	5	52645510	T	C	3629	-0.14	0.03	0.00	0.01	21.17
rs445	CD14+ CD16-	ebi-a-GCST90001582	7	92408370	T	C	3629	-0.18	0.03	0.00	0.01	36.89
rs10094039	CD14+ CD16-	ebi-a-GCST90001582	8	130589676	G	A	3629	-0.14	0.03	0.00	0.01	24.20
rs111463078	CD14+ CD16-	ebi-a-GCST90001582	8	2350689	A	T	3629	0.34	0.08	0.00	0.01	20.29
rs613224	CD14+ CD16-	ebi-a-GCST90001582	8	2803266	C	T	3629	0.31	0.06	0.00	0.01	24.82
rs2418135	CD14+ CD16-	ebi-a-GCST90001582	9	113901309	A	G	3629	-0.15	0.02	0.00	0.01	37.18
rs11177104	CD14+ CD16-	ebi-a-GCST90001582	12	68605883	A	G	3629	-0.62	0.14	0.00	0.01	21.07
rs9599503	CD14+ CD16-	ebi-a-GCST90001582	13	35314819	C	T	3629	-0.13	0.03	0.00	0.01	22.98
rs41331448	CD14+ CD16-	ebi-a-GCST90001582	13	21289312	G	A	3629	0.76	0.16	0.00	0.01	21.59
rs149927978	CD14+ CD16-	ebi-a-GCST90001582	14	105638349	C	T	3629	-0.57	0.13	0.00	0.01	19.69
rs2247998	CD14+ CD16-	ebi-a-GCST90001582	16	85801445	A	G	3629	-0.11	0.03	0.00	0.01	20.31
rs58581511	CD14+ CD16-	ebi-a-GCST90001582	17	57950621	G	T	3629	-0.18	0.04	0.00	0.01	24.67

rs9747839	CD14+	ebi-a-GCST90001582	17	81084522	G	C	3629	0.13	0.03	0.00	0.01	22.18
rs8076666	CD16-	ebi-a-GCST90001582	17	78223817	G	A	3629	0.13	0.03	0.00	0.01	20.02
rs2120231	CD14+	ebi-a-GCST90001582	17	1015996	G	T	3629	-0.12	0.02	0.00	0.01	22.82
rs55779804	CD16-	ebi-a-GCST90001582	19	6371660	C	G	3629	-0.19	0.04	0.00	0.01	20.14
rs28437286	CD14+	ebi-a-GCST90001582	21	43063279	G	A	3629	-0.36	0.08	0.00	0.01	19.90
rs118111037	CD16-	ebi-a-GCST90001582	22	35958024	T	C	3629	-1.46	0.32	0.00	0.01	20.30
rs115451299	Monocyte AC	ebi-a-GCST90001583	1	110012633	C	T	3629	-1.31	0.27	0.00	0.01	23.65
rs55971447	Monocyte AC	ebi-a-GCST90001583	1	161515326	T	C	3629	-0.13	0.03	0.00	0.01	20.89
rs150649461	Monocyte AC	ebi-a-GCST90001583	1	92925654	C	G	3629	0.30	0.06	0.00	0.01	22.57
rs1896857	Monocyte AC	ebi-a-GCST90001583	2	198164530	G	A	3629	0.15	0.03	0.00	0.01	21.76
rs1375493	Monocyte AC	ebi-a-GCST90001583	2	182323766	A	G	3629	0.13	0.02	0.00	0.01	26.19
rs6708174	Monocyte AC	ebi-a-GCST90001583	2	134344243	C	T	3629	-0.14	0.03	0.00	0.01	20.52
rs10192574	Monocyte AC	ebi-a-GCST90001583	2	56278216	C	A	3629	-0.11	0.02	0.00	0.01	20.72
rs183716470	Monocyte AC	ebi-a-GCST90001583	3	81299703	G	T	3629	-0.20	0.05	0.00	0.01	19.59
rs189962728	Monocyte AC	ebi-a-GCST90001583	4	58124445	C	T	3629	-2.82	0.57	0.00	0.01	24.81
rs13121143	Monocyte AC	ebi-a-GCST90001583	4	190199873	C	T	3629	0.17	0.03	0.00	0.01	26.16
rs12501003	Monocyte AC	ebi-a-GCST90001583	4	92510918	G	A	3629	0.16	0.03	0.00	0.01	24.94
rs445	Monocyte AC	ebi-a-GCST90001583	7	92408370	T	C	3629	-0.15	0.03	0.00	0.01	25.67
rs145530955	Monocyte AC	ebi-a-GCST90001583	7	65604757	T	C	3629	-0.33	0.07	0.00	0.01	21.03
rs2541899	Monocyte AC	ebi-a-GCST90001583	7	35423859	T	C	3629	0.14	0.03	0.00	0.01	21.16
rs77765378	Monocyte AC	ebi-a-GCST90001583	8	77490437	C	G	3629	0.29	0.06	0.00	0.01	19.66
rs78805826	Monocyte AC	ebi-a-GCST90001583	8	49196586	A	T	3629	0.36	0.08	0.00	0.01	21.51
rs75791731	Monocyte AC	ebi-a-GCST90001583	8	135163467	T	G	3629	-0.22	0.04	0.00	0.01	24.83
rs12346499	Monocyte AC	ebi-a-GCST90001583	9	113902881	T	C	3629	-0.14	0.02	0.00	0.01	31.88
rs1249347	Monocyte AC	ebi-a-GCST90001583	10	28612860	G	C	3629	-0.14	0.03	0.00	0.01	19.69
rs139761995	Monocyte AC	ebi-a-GCST90001583	11	36967796	T	C	3629	0.82	0.18	0.00	0.01	20.69
rs11177104	Monocyte AC	ebi-a-GCST90001583	12	68605883	A	G	3629	-0.60	0.14	0.00	0.01	19.76
rs11061521	Monocyte AC	ebi-a-GCST90001583	12	131900390	A	C	3629	0.14	0.03	0.00	0.01	22.57
rs116981568	Monocyte AC	ebi-a-GCST90001583	13	28964708	T	C	3629	0.27	0.06	0.00	0.01	23.23
rs9599503	Monocyte AC	ebi-a-GCST90001583	13	35314819	C	T	3629	-0.12	0.03	0.00	0.01	20.74
rs142584082	Monocyte AC	ebi-a-GCST90001583	14	98059388	G	A	3629	1.36	0.29	0.00	0.01	21.27
rs28648481	Monocyte AC	ebi-a-GCST90001583	14	97964046	T	A	3629	1.31	0.29	0.00	0.01	20.70
rs2120231	Monocyte AC	ebi-a-GCST90001583	17	1015996	G	T	3629	-0.12	0.02	0.00	0.01	24.21
rs58581511	Monocyte AC	ebi-a-GCST90001583	17	57950621	G	T	3629	-0.16	0.04	0.00	0.01	19.94
rs28437286	Monocyte AC	ebi-a-GCST90001583	21	43063279	G	A	3629	-0.36	0.08	0.00	0.01	19.63
rs74975395	CD14-	ebi-a-GCST90001584	1	166026114	T	C	3629	0.23	0.04	0.00	0.01	27.17
rs115383270	monocvte CD14-	ebi-a-GCST90001584	1	161531340	A	G	3629	-0.45	0.03	0.00	0.05	195.45
rs141826566	CD16+	ebi-a-GCST90001584	1	30332508	T	C	3629	2.17	0.48	0.00	0.01	20.33
rs74915645	monocvte CD14-	ebi-a-GCST90001584	2	9134527	C	G	3629	-0.71	0.15	0.00	0.01	21.48
rs115440084	CD16+	ebi-a-GCST90001584	2	150006610	T	C	3629	0.38	0.08	0.00	0.01	20.64
rs155144	monocvte CD14-	ebi-a-GCST90001584	2	182315630	A	G	3629	0.12	0.02	0.00	0.01	23.47

rs12637779	CD14- CD16+ monocvte	ebi-a-GCST90001584	3	109439443	G	A	3629	-0.15	0.03	0.00	0.01	19.66
rs7613930	CD14- CD16+ monocvte	ebi-a-GCST90001584	3	188340672	T	C	3629	-0.14	0.03	0.00	0.01	24.69
rs185857822	CD14- CD16+ monocvte	ebi-a-GCST90001584	5	1285334	T	C	3629	-0.95	0.22	0.00	0.01	19.56
rs1202098	CD14- CD16+ monocvte	ebi-a-GCST90001584	6	73301721	A	G	3629	-0.58	0.13	0.00	0.01	20.96
rs9357234	CD14- CD16+ monocvte	ebi-a-GCST90001584	6	37030217	A	C	3629	0.12	0.03	0.00	0.01	20.46
rs7834258	CD14- CD16+ monocvte	ebi-a-GCST90001584	8	13209667	G	A	3629	0.16	0.04	0.00	0.01	20.62
rs78829712	CD14- CD16+ monocvte	ebi-a-GCST90001584	10	82443865	A	C	3629	0.28	0.06	0.00	0.01	21.57
rs143356597	CD14- CD16+ monocvte	ebi-a-GCST90001584	11	588659	A	G	3629	0.30	0.06	0.00	0.01	23.12
rs144707945	CD14- CD16+ monocvte	ebi-a-GCST90001584	11	115147742	C	G	3629	-1.15	0.24	0.00	0.01	22.42
rs10765883	CD14- CD16+ monocvte	ebi-a-GCST90001584	11	11658286	T	C	3629	0.11	0.02	0.00	0.01	19.97
rs73046238	CD14- CD16+ monocvte	ebi-a-GCST90001584	12	2608522	T	C	3629	-0.95	0.21	0.00	0.01	19.98
rs17200456	CD14- CD16+ monocvte	ebi-a-GCST90001584	14	25243751	T	C	3629	0.38	0.08	0.00	0.01	20.75
rs4999522	CD14- CD16+ monocvte	ebi-a-GCST90001584	14	95963238	A	G	3629	-0.11	0.02	0.00	0.01	20.10
rs3826007	CD14- CD16+ monocvte	ebi-a-GCST90001584	15	80263217	T	C	3629	-0.17	0.03	0.00	0.01	34.20
rs316369	CD14- CD16+ monocvte	ebi-a-GCST90001584	16	9728962	C	T	3629	0.11	0.02	0.00	0.01	20.26
rs4783204	CD14- CD16+ monocvte	ebi-a-GCST90001584	16	85474706	C	T	3629	0.15	0.03	0.00	0.01	22.49
rs137976321	CD14- CD16+ monocvte	ebi-a-GCST90001584	20	50183940	A	G	3629	0.40	0.09	0.00	0.01	20.66
rs71639910	CD14+ CD16+ monocyte	ebi-a-GCST90001585	1	161937774	A	G	3629	-0.29	0.05	0.00	0.01	34.51
rs74341264	%monocvte CD14+ CD16+ monocyte	ebi-a-GCST90001585	1	161561151	A	G	3629	0.24	0.04	0.00	0.01	39.03
rs3829793	%monocvte CD14+ CD16+ monocyte	ebi-a-GCST90001585	1	161194400	G	C	3629	0.17	0.03	0.00	0.01	38.44
rs71632979	%monocvte CD14+ CD16+ monocyte	ebi-a-GCST90001585	1	161526397	G	A	3629	-0.70	0.03	0.00	0.15	663.43
rs138308733	%monocvte CD16+ monocyte	ebi-a-GCST90001585	1	158788928	G	C	3629	-0.59	0.13	0.00	0.01	19.71

rs185631377	CD14+ CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	1	161031616	A	G	3629	-0.65	0.13	0.00	0.01	25.79
rs11466597	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	1	92185351	C	T	3629	0.37	0.07	0.00	0.01	27.19
rs7604795	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	2	215457940	C	T	3629	0.15	0.03	0.00	0.01	20.70
rs75738537	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	3	172984421	A	G	3629	0.37	0.08	0.00	0.01	21.65
rs147218533	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	3	167152276	C	T	3629	0.49	0.10	0.00	0.01	25.49
rs114032392	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	4	122320941	G	A	3629	0.58	0.13	0.00	0.01	19.96
rs6853013	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	4	161408429	G	C	3629	0.49	0.11	0.00	0.01	19.76
rs112831211	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	4	182944203	G	T	3629	0.29	0.06	0.00	0.01	20.73
rs77936882	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	4	148945287	G	T	3629	0.26	0.06	0.00	0.01	20.91
rs1903578	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	4	91255079	T	C	3629	-0.14	0.03	0.00	0.01	21.25
rs141154517	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	4	71103396	A	G	3629	-0.33	0.07	0.00	0.01	21.40
rs2304647	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	4	41646651	C	G	3629	0.12	0.03	0.00	0.01	19.71
rs34161492	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	6	79237344	T	C	3629	0.22	0.05	0.00	0.01	20.02
rs76127744	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	7	99531657	A	G	3629	0.49	0.10	0.00	0.01	24.03
rs445	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	7	92408370	T	C	3629	0.17	0.03	0.00	0.01	28.36
rs77305308	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	8	30170640	C	T	3629	0.32	0.07	0.00	0.01	21.36
rs72649637	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	8	51887026	C	T	3629	0.34	0.07	0.00	0.01	25.10
rs10970605	CD16+ monocyte %monocvte	ebi-a-GCST90001585	9	31933307	C	G	3629	-0.60	0.12	0.00	0.01	23.87

rs56037947	CD14+ CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	12	4104047	G	A	3629	-0.11	0.02	0.00	0.01	20.55
rs847888	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	12	112151742	A	C	3629	-0.14	0.03	0.00	0.01	27.67
rs117302238	CD16+ monocyte %monocvte CD14+	ebi-a-GCST90001585	15	75293128	A	G	3629	0.32	0.07	0.00	0.01	22.72
rs142340414	CD16- monocvte CD14+	ebi-a-GCST90001586	1	212967660	T	C	3629	-3.05	0.65	0.00	0.01	21.69
rs659192	CD16- monocvte CD14+	ebi-a-GCST90001586	1	208200737	G	C	3629	-0.17	0.03	0.00	0.01	23.14
rs4656993	CD16- monocvte CD14+	ebi-a-GCST90001586	1	161176137	G	A	3629	-0.11	0.02	0.00	0.01	20.99
rs141826566	CD16- monocyte CD14+	ebi-a-GCST90001586	1	30332508	T	C	3629	-2.13	0.48	0.00	0.01	19.68
rs111690368	CD16- monocvte CD14+	ebi-a-GCST90001586	1	91084546	T	C	3629	-0.74	0.16	0.00	0.01	21.55
rs115383270	CD16- monocvte CD14+	ebi-a-GCST90001586	1	161531340	A	G	3629	0.55	0.03	0.00	0.08	302.64
rs74341264	CD16- monocvte CD14+	ebi-a-GCST90001586	1	161561151	A	G	3629	-0.22	0.04	0.00	0.01	34.12
rs155144	CD16- monocvte CD14+	ebi-a-GCST90001586	2	182315630	A	G	3629	-0.11	0.02	0.00	0.01	21.66
rs12637779	CD16- monocvte CD14+	ebi-a-GCST90001586	3	109439443	G	A	3629	0.15	0.03	0.00	0.01	20.75
rs149602828	CD16- monocvte CD14+	ebi-a-GCST90001586	4	43503165	A	G	3629	0.31	0.07	0.00	0.01	19.93
rs150125023	CD16- monocvte CD14+	ebi-a-GCST90001586	5	1812272	A	G	3629	-0.30	0.07	0.00	0.01	20.74
rs13183256	CD16- monocvte CD14+	ebi-a-GCST90001586	5	37116496	A	G	3629	0.17	0.04	0.00	0.01	21.37
rs138743668	CD16- monocvte CD14+	ebi-a-GCST90001586	5	26070685	A	G	3629	0.61	0.14	0.00	0.01	20.30
rs139379948	CD16- monocvte CD14+	ebi-a-GCST90001586	7	103732660	A	G	3629	0.54	0.12	0.00	0.01	21.93
rs78047442	CD16- monocvte CD14+	ebi-a-GCST90001586	7	153317246	T	G	3629	0.15	0.03	0.00	0.01	19.75
rs56347556	CD16- monocvte CD14+	ebi-a-GCST90001586	8	29823363	T	A	3629	-0.19	0.04	0.00	0.01	20.62
rs116915583	CD16- monocvte CD14+	ebi-a-GCST90001586	9	108747182	T	C	3629	-2.11	0.47	0.00	0.01	20.51
rs79562353	CD16- monocvte CD14+	ebi-a-GCST90001586	10	17069964	C	T	3629	0.24	0.05	0.00	0.01	21.82
rs143984211	CD16- monocvte CD14+	ebi-a-GCST90001586	11	395746	T	G	3629	-0.32	0.07	0.00	0.01	21.39
rs10833398	CD16- monocvte	ebi-a-GCST90001586	11	20860026	C	T	3629	0.13	0.03	0.00	0.01	19.92

rs76293503	CD14+ CD16- monocvte CD14+	ebi-a-GCST90001586	12	124510950	A	G	3629	-1.21	0.26	0.00	0.01	20.85
rs67760360	CD16- monocvte CD14+	ebi-a-GCST90001586	15	80260872	A	G	3629	0.16	0.03	0.00	0.01	27.69
rs4783204	CD16- monocyte CD14+	ebi-a-GCST90001586	16	85474706	C	T	3629	-0.14	0.03	0.00	0.01	21.27
rs13330943	CD16- monocvte CD14+	ebi-a-GCST90001586	16	8615778	C	T	3629	0.12	0.03	0.00	0.01	22.02
rs62083033	CD16- monocvte CD14+	ebi-a-GCST90001586	17	68030340	C	A	3629	-1.29	0.28	0.00	0.01	20.91
rs137976321	CD16- monocvte CD16+	ebi-a-GCST90001586	20	50183940	A	G	3629	-0.40	0.09	0.00	0.01	21.15
rs111690368	monocyte %monocyte CD16+	ebi-a-GCST90001587	1	91084546	T	C	3629	0.71	0.16	0.00	0.01	20.04
rs74341264	monocyte %monocvte CD16+	ebi-a-GCST90001587	1	161561151	A	G	3629	0.22	0.04	0.00	0.01	34.07
rs4656993	monocyte %monocvte CD16+	ebi-a-GCST90001587	1	161176137	G	A	3629	0.12	0.02	0.00	0.01	21.47
rs659192	monocyte %monocvte CD16+	ebi-a-GCST90001587	1	208200737	G	C	3629	0.17	0.03	0.00	0.01	23.10
rs115383270	monocyte %monocyte CD16+	ebi-a-GCST90001587	1	161531340	A	G	3629	-0.54	0.03	0.00	0.07	292.25
rs150451378	monocyte %monocvte CD16+	ebi-a-GCST90001587	2	4795580	A	C	3629	-0.41	0.09	0.00	0.01	19.63
rs115440084	monocyte %monocvte CD16+	ebi-a-GCST90001587	2	150006610	T	C	3629	0.37	0.08	0.00	0.01	19.83
rs155144	monocyte %monocvte CD16+	ebi-a-GCST90001587	2	182315630	A	G	3629	0.11	0.02	0.00	0.01	21.34
rs7613930	monocyte %monocyte CD16+	ebi-a-GCST90001587	3	188340672	T	C	3629	-0.13	0.03	0.00	0.01	20.01
rs12637779	monocyte %monocvte CD16+	ebi-a-GCST90001587	3	109439443	G	A	3629	-0.15	0.03	0.00	0.01	20.52
rs13183256	monocyte %monocvte CD16+	ebi-a-GCST90001587	5	37116496	A	G	3629	-0.17	0.04	0.00	0.01	21.19
rs150125023	monocyte %monocvte CD16+	ebi-a-GCST90001587	5	1812272	A	G	3629	0.30	0.07	0.00	0.01	20.69
rs138743668	monocyte %monocyte CD16+	ebi-a-GCST90001587	5	26070685	A	G	3629	-0.62	0.14	0.00	0.01	20.95
rs139379948	monocyte %monocvte CD16+	ebi-a-GCST90001587	7	103732660	A	G	3629	-0.53	0.12	0.00	0.01	21.56
rs79562353	monocyte %monocvte CD16+	ebi-a-GCST90001587	10	17069964	C	T	3629	-0.24	0.05	0.00	0.01	22.10
rs143356597	monocyte %monocvte CD16+	ebi-a-GCST90001587	11	588659	A	G	3629	0.29	0.06	0.00	0.01	22.16
rs10765883	monocyte %monocvte CD16+	ebi-a-GCST90001587	11	11658286	T	C	3629	0.11	0.03	0.00	0.01	20.13
rs144707945	monocyte %monocvte	ebi-a-GCST90001587	11	115147742	C	G	3629	-1.10	0.24	0.00	0.01	20.24

rs12582907	CD16+ monocyte %monocvte CD16+	ebi-a-GCST90001587	12	130524797	C	T	3629	-0.14	0.03	0.00	0.01	20.31
rs67760360	monocyte %monocvte CD16+	ebi-a-GCST90001587	15	80260872	A	G	3629	-0.16	0.03	0.00	0.01	29.74
rs4783204	monocyte %monocvte CD16+	ebi-a-GCST90001587	16	85474706	C	T	3629	0.15	0.03	0.00	0.01	22.58
rs13330943	monocyte %monocvte CD16+	ebi-a-GCST90001587	16	8615778	C	T	3629	-0.12	0.03	0.00	0.01	23.03
rs72982284	monocyte %monocvte CD16+	ebi-a-GCST90001587	18	77678240	T	C	3629	0.13	0.03	0.00	0.01	19.92
rs137976321	monocyte %monocvte	ebi-a-GCST90001587	20	50183940	A	G	3629	0.39	0.09	0.00	0.01	20.01
rs17113367	T/B	ebi-a-GCST90001588	1	95785786	C	A	3653	-0.20	0.04	0.00	0.01	21.84
rs72941136	T/B	ebi-a-GCST90001588	1	82245693	C	G	3653	-0.18	0.04	0.00	0.01	20.57
rs3738088	T/B	ebi-a-GCST90001588	1	18554670	T	G	3653	-0.54	0.11	0.00	0.01	22.95
rs7634218	T/B	ebi-a-GCST90001588	3	188392916	A	C	3653	-0.12	0.03	0.00	0.01	22.78
rs13066480	T/B	ebi-a-GCST90001588	3	177432204	A	G	3653	-0.32	0.07	0.00	0.01	20.74
rs2679580	T/B	ebi-a-GCST90001588	3	8845344	G	A	3653	0.11	0.02	0.00	0.01	19.81
rs1523154	T/B	ebi-a-GCST90001588	4	31904141	T	G	3653	-0.14	0.03	0.00	0.01	19.92
rs191132013	T/B	ebi-a-GCST90001588	4	32930199	T	G	3653	-0.48	0.11	0.00	0.01	20.61
rs9368867	T/B	ebi-a-GCST90001588	6	11760807	A	C	3653	0.13	0.03	0.00	0.01	24.41
rs34147569	T/B	ebi-a-GCST90001588	6	71753094	C	T	3653	0.14	0.03	0.00	0.01	21.78
rs1557987	T/B	ebi-a-GCST90001588	7	26591929	G	A	3653	-0.15	0.03	0.00	0.01	20.63
rs150774187	T/B	ebi-a-GCST90001588	7	100536678	A	G	3653	-0.16	0.04	0.00	0.01	19.59
rs77233730	T/B	ebi-a-GCST90001588	8	118635981	T	C	3653	0.20	0.05	0.00	0.01	20.27
rs7000289	T/B	ebi-a-GCST90001588	8	130597230	G	A	3653	0.14	0.03	0.00	0.01	26.58
rs73520190	T/B	ebi-a-GCST90001588	9	118765180	G	T	3653	-0.38	0.08	0.00	0.01	20.03
rs116735405	T/B	ebi-a-GCST90001588	10	119550308	C	G	3653	0.35	0.08	0.00	0.01	22.03
rs6585493	T/B	ebi-a-GCST90001588	10	85429828	A	G	3653	0.15	0.03	0.00	0.01	20.05
rs4758148	T/B	ebi-a-GCST90001588	11	5876630	G	A	3653	-0.27	0.06	0.00	0.01	19.64
rs142089808	T/B	ebi-a-GCST90001588	11	116171120	G	A	3653	1.06	0.20	0.00	0.01	28.31
rs7990182	T/B	ebi-a-GCST90001588	13	110384132	G	T	3653	0.13	0.02	0.00	0.01	29.39
rs9520905	T/B	ebi-a-GCST90001588	13	109146439	T	G	3653	-0.12	0.03	0.00	0.01	21.50
rs12874404	T/B	ebi-a-GCST90001588	13	108993494	G	A	3653	-0.22	0.03	0.00	0.02	68.89
rs11627066	T/B	ebi-a-GCST90001588	14	66304049	T	C	3653	0.12	0.02	0.00	0.01	22.38
rs4789817	T/B	ebi-a-GCST90001588	17	80607989	G	A	3653	-0.12	0.03	0.00	0.01	19.68
rs3894193	T/B	ebi-a-GCST90001588	17	38125346	G	C	3653	-0.15	0.03	0.00	0.01	31.82
rs9892810	T/B	ebi-a-GCST90001588	17	2716155	C	T	3653	0.16	0.02	0.00	0.01	40.52
rs144426024	T/B	ebi-a-GCST90001588	18	56897917	T	C	3653	-0.52	0.12	0.00	0.01	19.94
rs2223650	T/B	ebi-a-GCST90001588	20	9831513	T	G	3653	0.12	0.03	0.00	0.01	20.58
rs73220980	T/B	ebi-a-GCST90001588	21	44752768	A	G	3653	-0.54	0.12	0.00	0.01	20.95
rs5754162	T/B	ebi-a-GCST90001588	22	32991307	A	T	3653	-0.14	0.03	0.00	0.01	29.02
rs11120194	CD4/CD8br	ebi-a-GCST90001589	1	213863315	C	T	3652	-0.17	0.04	0.00	0.01	19.74
rs12139740	CD4/CD8br	ebi-a-GCST90001589	1	242332976	T	C	3652	0.16	0.03	0.00	0.01	20.03
rs141317121	CD4/CD8br	ebi-a-GCST90001589	1	19649970	A	G	3652	-0.21	0.05	0.00	0.01	20.15
rs13418326	CD4/CD8br	ebi-a-GCST90001589	2	113732809	G	C	3652	-0.14	0.03	0.00	0.01	21.60
rs798726	CD4/CD8br	ebi-a-GCST90001589	4	1685211	C	T	3652	-0.14	0.03	0.00	0.01	21.54
rs955275	CD4/CD8br	ebi-a-GCST90001589	6	117320197	G	A	3652	0.29	0.06	0.00	0.01	22.62

rs73402222	CD4/CD8br	ebi-a-GCST90001589	6	31388449	C	T	3652	0.19	0.03	0.00	0.01	31.27
rs2516466	CD4/CD8br	ebi-a-GCST90001589	6	31414327	G	T	3652	-0.13	0.03	0.00	0.01	20.22
rs74493069	CD4/CD8br	ebi-a-GCST90001589	7	138725017	A	G	3652	0.85	0.19	0.00	0.01	21.14
rs1529247	CD4/CD8br	ebi-a-GCST90001589	7	9337459	A	T	3652	0.43	0.09	0.00	0.01	20.07
rs10990269	CD4/CD8br	ebi-a-GCST90001589	9	99054924	T	C	3652	-0.12	0.03	0.00	0.01	19.99
rs2576166	CD4/CD8br	ebi-a-GCST90001589	10	90271135	G	C	3652	0.12	0.03	0.00	0.01	23.06
rs117942997	CD4/CD8br	ebi-a-GCST90001589	10	74476968	G	C	3652	0.45	0.10	0.00	0.01	20.15
rs495055	CD4/CD8br	ebi-a-GCST90001589	17	74440890	G	A	3652	0.30	0.07	0.00	0.01	21.81
rs11080350	CD4/CD8br	ebi-a-GCST90001589	17	33774635	T	C	3652	0.11	0.03	0.00	0.01	20.13
rs62130076	CD4/CD8br	ebi-a-GCST90001589	19	1671549	A	G	3652	-0.12	0.03	0.00	0.01	21.71
rs7537437	CD4+ AC	ebi-a-GCST90001590	1	39439538	A	G	3652	-0.14	0.03	0.00	0.01	19.74
rs75697875	CD4+ AC	ebi-a-GCST90001590	1	23233895	G	C	3652	0.28	0.06	0.00	0.01	21.41
rs2972073	CD4+ AC	ebi-a-GCST90001590	2	55293730	C	T	3652	0.16	0.04	0.00	0.01	20.01
rs75494288	CD4+ AC	ebi-a-GCST90001590	2	59985834	A	T	3652	-0.33	0.07	0.00	0.01	20.42
rs905461	CD4+ AC	ebi-a-GCST90001590	3	104884917	C	A	3652	0.12	0.03	0.00	0.01	19.66
rs10051472	CD4+ AC	ebi-a-GCST90001590	5	79563530	C	G	3652	0.12	0.03	0.00	0.01	20.75
rs10040274	CD4+ AC	ebi-a-GCST90001590	5	114822737	A	G	3652	0.13	0.03	0.00	0.01	23.85
rs117563350	CD4+ AC	ebi-a-GCST90001590	6	151699396	G	A	3652	-0.32	0.07	0.00	0.01	21.80
rs9271772	CD4+ AC	ebi-a-GCST90001590	6	32594275	A	G	3652	0.19	0.04	0.00	0.01	28.47
rs143021470	CD4+ AC	ebi-a-GCST90001590	6	81026437	G	C	3652	1.63	0.36	0.00	0.01	20.68
rs3129891	CD4+ AC	ebi-a-GCST90001590	6	32415080	A	G	3652	-0.16	0.03	0.00	0.01	22.36
rs72960548	CD4+ AC	ebi-a-GCST90001590	6	127873865	C	T	3652	0.25	0.05	0.00	0.01	25.61
rs73132830	CD4+ AC	ebi-a-GCST90001590	7	55936249	A	G	3652	0.14	0.03	0.00	0.01	19.99
rs4425753	CD4+ AC	ebi-a-GCST90001590	8	15369837	G	C	3652	0.18	0.04	0.00	0.01	22.54
rs139746725	CD4+ AC	ebi-a-GCST90001590	9	68344045	T	G	3652	1.53	0.34	0.00	0.01	20.05
rs78628680	CD4+ AC	ebi-a-GCST90001590	10	114300633	G	A	3652	0.36	0.08	0.00	0.01	19.68
rs137903114	CD4+ AC	ebi-a-GCST90001590	11	130770585	C	T	3652	-0.94	0.19	0.00	0.01	24.26
rs61935579	CD4+ AC	ebi-a-GCST90001590	12	60195749	A	G	3652	-0.28	0.06	0.00	0.01	20.94
rs3184504	CD4+ AC	ebi-a-GCST90001590	12	111884608	C	T	3652	-0.18	0.03	0.00	0.01	47.15
rs3211602	CD4+ AC	ebi-a-GCST90001590	12	58147219	A	G	3652	-1.65	0.36	0.00	0.01	21.37
rs28578320	CD4+ AC	ebi-a-GCST90001590	15	96213772	C	T	3652	0.11	0.03	0.00	0.01	19.61
rs7162344	CD4+ AC	ebi-a-GCST90001590	15	26030485	A	G	3652	-0.11	0.02	0.00	0.01	21.63
rs414743	CD4+ AC	ebi-a-GCST90001590	21	46512075	A	G	3652	0.14	0.03	0.00	0.01	21.46
rs1849876	CD4+ AC	ebi-a-GCST90001590	22	45611053	C	T	3652	0.13	0.03	0.00	0.01	22.85
rs1932067	CD4+ %T _{cell}	ebi-a-GCST90001591	1	26322081	C	T	3668	0.15	0.03	0.00	0.01	20.09
rs75478218	CD4+ %T _{cell}	ebi-a-GCST90001591	1	167583792	A	G	3668	0.54	0.12	0.00	0.01	21.43
rs10497440	CD4+ %T _{cell}	ebi-a-GCST90001591	2	176311434	A	G	3668	0.88	0.20	0.00	0.01	20.07
rs6744796	CD4+ %T _{cell}	ebi-a-GCST90001591	2	212828793	G	A	3668	-0.13	0.03	0.00	0.01	23.46
rs55699240	CD4+ %T _{cell}	ebi-a-GCST90001591	2	113838725	C	G	3668	-0.14	0.03	0.00	0.01	19.57
rs114828374	CD4+ %T _{cell}	ebi-a-GCST90001591	2	149887929	G	A	3668	-0.55	0.11	0.00	0.01	23.70
rs76397707	CD4+ %T _{cell}	ebi-a-GCST90001591	3	96614918	A	T	3668	0.60	0.13	0.00	0.01	20.19
rs147164127	CD4+ %T _{cell}	ebi-a-GCST90001591	3	132826728	G	C	3668	-0.27	0.06	0.00	0.01	20.21
rs798726	CD4+ %T _{cell}	ebi-a-GCST90001591	4	1685211	C	T	3668	-0.14	0.03	0.00	0.01	21.15
rs114574090	CD4+ %T _{cell}	ebi-a-GCST90001591	4	46796462	T	C	3668	-0.52	0.12	0.00	0.01	19.72
rs9266287	CD4+ %T _{cell}	ebi-a-GCST90001591	6	31328612	G	A	3668	0.17	0.03	0.00	0.01	23.41
rs13210358	CD4+ %T _{cell}	ebi-a-GCST90001591	6	102272234	T	C	3668	-0.35	0.07	0.00	0.01	23.80
rs2516660	CD4+ %T _{cell}	ebi-a-GCST90001591	6	30466596	A	G	3668	-0.14	0.03	0.00	0.01	21.73
rs60342399	CD4+ %T _{cell}	ebi-a-GCST90001591	7	52601846	T	C	3668	0.24	0.05	0.00	0.01	20.65

rs56009006	CD4+ %T	ebi-a-GCST90001591	7	132484052	T	C	3668	-0.23	0.05	0.00	0.01	21.55
rs72735973	cell CD4+ %T	ebi-a-GCST90001591	8	136778540	C	T	3668	-0.30	0.07	0.00	0.01	20.77
rs2576166	cell CD4+ %T	ebi-a-GCST90001591	10	90271135	G	C	3668	0.12	0.03	0.00	0.01	23.76
rs1020462	cell CD4+ %T	ebi-a-GCST90001591	12	78570914	C	G	3668	-0.11	0.02	0.00	0.01	19.99
rs74950524	cell CD4+ %T	ebi-a-GCST90001591	12	5424569	A	G	3668	0.13	0.03	0.00	0.01	19.60
rs16958131	cell CD4+ %T	ebi-a-GCST90001591	13	101667739	C	G	3668	0.45	0.10	0.00	0.01	19.57
rs3914424	cell CD4+ %T	ebi-a-GCST90001591	17	68353355	A	G	3668	1.04	0.23	0.00	0.01	21.05
rs2590261	cell CD4+ %T	ebi-a-GCST90001591	17	74602286	T	C	3668	0.13	0.03	0.00	0.01	21.75
rs11869223	cell CD4+ %T	ebi-a-GCST90001591	17	33775713	G	C	3668	-0.12	0.02	0.00	0.01	23.92
rs7280330	cell CD4+ %T	ebi-a-GCST90001591	21	33068962	C	T	3668	-0.20	0.04	0.00	0.01	19.61
rs73162393	cell CD4+ %T	ebi-a-GCST90001591	22	28078166	T	C	3668	-0.20	0.05	0.00	0.01	20.15
rs12130486	CD8br AC	ebi-a-GCST90001592	1	81455274	C	T	3652	0.36	0.08	0.00	0.01	22.20
rs12119984	CD8br AC	ebi-a-GCST90001592	1	246874501	G	A	3652	-0.62	0.13	0.00	0.01	22.44
rs78032118	CD8br AC	ebi-a-GCST90001592	2	66964383	T	C	3652	0.69	0.15	0.00	0.01	22.38
rs113985770	CD8br AC	ebi-a-GCST90001592	2	210377930	A	G	3652	-0.55	0.12	0.00	0.01	19.84
rs6858602	CD8br AC	ebi-a-GCST90001592	4	179936294	C	T	3652	-0.12	0.02	0.00	0.01	25.77
rs3130685	CD8br AC	ebi-a-GCST90001592	6	31206206	T	C	3652	0.19	0.03	0.00	0.01	44.12
rs75424572	CD8br AC	ebi-a-GCST90001592	6	127364239	G	T	3652	0.28	0.06	0.00	0.01	20.05
rs12195711	CD8br AC	ebi-a-GCST90001592	6	50386986	T	C	3652	0.17	0.04	0.00	0.01	23.26
rs28895267	CD8br AC	ebi-a-GCST90001592	6	32445916	T	C	3652	0.18	0.03	0.00	0.01	36.79
rs6915999	CD8br AC	ebi-a-GCST90001592	6	31377851	A	G	3652	-0.14	0.03	0.00	0.01	26.78
rs79647440	CD8br AC	ebi-a-GCST90001592	7	142438302	T	C	3652	3.67	0.81	0.00	0.01	20.73
rs11772710	CD8br AC	ebi-a-GCST90001592	7	132433567	T	C	3652	-0.11	0.02	0.00	0.01	20.87
rs1550856	CD8br AC	ebi-a-GCST90001592	8	117805397	G	A	3652	-0.14	0.03	0.00	0.01	23.81
rs11197647	CD8br AC	ebi-a-GCST90001592	10	118142066	T	G	3652	0.22	0.04	0.00	0.01	24.61
rs1980812	CD8br AC	ebi-a-GCST90001592	10	90274583	G	A	3652	-0.11	0.02	0.00	0.01	21.16
rs11060493	CD8br AC	ebi-a-GCST90001592	12	130160924	C	A	3652	0.18	0.04	0.00	0.01	21.37
rs28415769	CD8br AC	ebi-a-GCST90001592	14	94358762	C	T	3652	-0.11	0.02	0.00	0.01	19.60
rs117391590	CD8br AC	ebi-a-GCST90001592	17	42759948	A	G	3652	-0.27	0.06	0.00	0.01	21.19
rs35238206	CD8br AC	ebi-a-GCST90001592	17	75698346	G	A	3652	0.12	0.03	0.00	0.01	21.69
rs11080350	CD8br AC	ebi-a-GCST90001592	17	33774635	T	C	3652	-0.12	0.02	0.00	0.01	23.96
rs41276984	CD8br AC	ebi-a-GCST90001592	20	37580670	G	C	3652	1.76	0.37	0.00	0.01	22.90
rs2837838	CD8br AC	ebi-a-GCST90001592	21	42191862	G	A	3652	0.21	0.05	0.00	0.01	20.70
rs2267983	CD8br AC	ebi-a-GCST90001592	22	50698157	A	C	3652	-0.13	0.02	0.00	0.01	26.21
rs76595423	CD8br %T cell	ebi-a-GCST90001593	1	102745011	G	T	3668	0.98	0.21	0.00	0.01	21.21
rs141317121	CD8br %T cell	ebi-a-GCST90001593	1	19649970	A	G	3668	0.21	0.05	0.00	0.01	20.67
rs12139740	CD8br %T cell	ebi-a-GCST90001593	1	242332976	T	C	3668	-0.16	0.03	0.00	0.01	21.53
rs13418326	CD8br %T cell	ebi-a-GCST90001593	2	113732809	G	C	3668	0.15	0.03	0.00	0.01	24.38
rs7670980	CD8br %T cell	ebi-a-GCST90001593	4	41910384	T	G	3668	-0.20	0.04	0.00	0.01	20.06
rs798726	CD8br %T cell	ebi-a-GCST90001593	4	1685211	C	T	3668	0.14	0.03	0.00	0.01	20.62
rs40653	CD8br %T cell	ebi-a-GCST90001593	5	9372480	T	C	3668	-0.11	0.03	0.00	0.01	20.34
rs2337390	CD8br %T cell	ebi-a-GCST90001593	5	71408867	G	A	3668	0.14	0.03	0.00	0.01	20.62
rs73402222	CD8br %T cell	ebi-a-GCST90001593	6	31388449	C	T	3668	-0.19	0.03	0.00	0.01	35.50
rs2516466	CD8br %T cell	ebi-a-GCST90001593	6	31414327	G	T	3668	0.14	0.03	0.00	0.01	23.54
rs955275	CD8br %T cell	ebi-a-GCST90001593	6	117320197	G	A	3668	-0.29	0.06	0.00	0.01	23.18

rs74493069	CD8br %T cell	ebi-a-GCST90001593	7	138725017	A	G	3668	-0.82	0.18	0.00	0.01	19.66
rs62458311	CD8br %T cell	ebi-a-GCST90001593	7	67315960	A	G	3668	0.27	0.06	0.00	0.01	20.71
rs7826289	CD8br %T cell	ebi-a-GCST90001593	8	61782205	T	C	3668	-0.40	0.09	0.00	0.01	19.78
rs10990269	CD8br %T cell	ebi-a-GCST90001593	9	99054924	T	C	3668	0.12	0.03	0.00	0.01	22.74
rs116943003	CD8br %T cell	ebi-a-GCST90001593	10	76644830	A	T	3668	-0.24	0.05	0.00	0.01	20.33
rs117942997	CD8br %T cell	ebi-a-GCST90001593	10	74476968	G	C	3668	-0.44	0.10	0.00	0.01	19.72
rs2576166	CD8br %T cell	ebi-a-GCST90001593	10	90271135	G	C	3668	-0.12	0.03	0.00	0.01	22.77
rs74381175	CD8br %T cell	ebi-a-GCST90001593	11	130326664	T	G	3668	-0.37	0.08	0.00	0.01	19.66
rs1676877	CD8br %T cell	ebi-a-GCST90001593	11	74879130	G	A	3668	0.19	0.04	0.00	0.01	21.67
rs12449027	CD8br %T cell	ebi-a-GCST90001593	16	13172942	A	G	3668	-0.14	0.03	0.00	0.01	19.98
rs495055	CD8br %T cell	ebi-a-GCST90001593	17	74440890	G	A	3668	-0.30	0.06	0.00	0.01	21.20
rs62130076	CD8br %T cell	ebi-a-GCST90001593	19	1671549	A	G	3668	0.12	0.03	0.00	0.01	23.09
rs73516994	CD8br %T cell DP	ebi-a-GCST90001593	19	16748884	T	C	3668	-0.30	0.07	0.00	0.01	20.03
rs72728134	(CD4+CD8+) AC DP	ebi-a-GCST90001594	1	100596929	T	A	3652	0.12	0.03	0.00	0.01	20.00
rs12142860	(CD4+CD8+) AC DP	ebi-a-GCST90001594	1	215998585	T	G	3652	0.59	0.13	0.00	0.01	20.90
rs75275131	(CD4+CD8+) AC DP	ebi-a-GCST90001594	2	4425244	G	A	3652	0.69	0.14	0.00	0.01	22.63
rs62314120	(CD4+CD8+) AC DP	ebi-a-GCST90001594	4	126951113	A	G	3652	0.16	0.04	0.00	0.01	19.98
rs10002165	(CD4+CD8+) AC DP	ebi-a-GCST90001594	4	145233527	C	T	3652	-0.38	0.09	0.00	0.01	19.73
rs11725463	(CD4+CD8+) AC DP	ebi-a-GCST90001594	4	94584105	G	A	3652	-0.23	0.05	0.00	0.01	19.74
rs9493240	(CD4+CD8+) AC DP	ebi-a-GCST90001594	6	132534887	A	G	3652	0.14	0.03	0.00	0.01	26.10
rs77965313	(CD4+CD8+) AC DP	ebi-a-GCST90001594	9	120915115	C	A	3652	-0.31	0.07	0.00	0.01	22.83
rs147688743	(CD4+CD8+) AC DP	ebi-a-GCST90001594	10	64810319	A	G	3652	-0.46	0.10	0.00	0.01	21.60
rs117166897	(CD4+CD8+) AC DP	ebi-a-GCST90001594	10	10964820	G	A	3652	-0.25	0.05	0.00	0.01	21.22
rs11025036	(CD4+CD8+) AC DP	ebi-a-GCST90001594	11	19175633	A	G	3652	-0.46	0.08	0.00	0.01	30.61
rs2857229	(CD4+CD8+) AC DP	ebi-a-GCST90001594	12	6900616	G	A	3652	0.27	0.03	0.00	0.03	97.50
rs1764923	(CD4+CD8+) AC DP	ebi-a-GCST90001594	13	86328055	T	G	3652	-0.12	0.03	0.00	0.01	21.33
rs72694502	(CD4+CD8+) AC DP	ebi-a-GCST90001594	14	85161244	C	T	3652	-0.38	0.08	0.00	0.01	20.82
rs7160965	(CD4+CD8+) AC DP	ebi-a-GCST90001594	14	31506505	C	T	3652	0.18	0.04	0.00	0.01	19.76
rs7141604	(CD4+CD8+) AC	ebi-a-GCST90001594	14	21252046	T	C	3652	0.11	0.03	0.00	0.01	20.03

rs6606924	DP (CD4+CD8+)	ebi-a-GCST90001594	15	29054286	A	T	3652	-0.13	0.03	0.00	0.01	24.56
rs10851760	AC DP (CD4+CD8+)	ebi-a-GCST90001594	15	66871840	G	A	3652	-0.15	0.03	0.00	0.01	22.36
rs857241	AC DP (CD4+CD8+)	ebi-a-GCST90001594	20	3078879	G	T	3652	-0.99	0.22	0.00	0.01	21.14
rs6022045	AC DP (CD4+CD8+)	ebi-a-GCST90001594	20	51305288	C	T	3652	-0.11	0.03	0.00	0.01	20.84
rs73095609	AC DP (CD4+CD8+)	ebi-a-GCST90001595	1	226673287	T	C	3668	-0.13	0.03	0.00	0.01	22.40
rs10490700	%T cell DP (CD4+CD8+)	ebi-a-GCST90001595	2	106615183	G	A	3668	0.13	0.03	0.00	0.01	21.05
rs74197595	%T cell DP (CD4+CD8+)	ebi-a-GCST90001595	2	231492412	G	T	3668	0.15	0.03	0.00	0.01	20.36
rs16987794	%T cell DP (CD4+CD8+)	ebi-a-GCST90001595	2	20748761	C	T	3668	-0.15	0.03	0.00	0.01	19.73
rs4482524	%T cell DP (CD4+CD8+)	ebi-a-GCST90001595	2	242673146	C	G	3668	-0.20	0.04	0.00	0.01	20.75
rs28459093	%T cell DP (CD4+CD8+)	ebi-a-GCST90001595	4	13725129	T	C	3668	-0.25	0.05	0.00	0.01	23.96
rs45551732	%T cell DP (CD4+CD8+)	ebi-a-GCST90001595	5	169816374	T	C	3668	0.34	0.07	0.00	0.01	22.27
rs111582587	%T cell DP (CD4+CD8+)	ebi-a-GCST90001595	6	32649176	T	C	3668	0.20	0.05	0.00	0.01	20.39
rs192222368	CD8dim AC	ebi-a-GCST90001596	2	222901838	T	C	3652	0.51	0.12	0.00	0.01	19.88
rs1554808	CD8dim AC	ebi-a-GCST90001596	2	123656927	G	T	3652	0.25	0.05	0.00	0.01	23.08
rs11676464	CD8dim AC	ebi-a-GCST90001596	2	86018262	A	G	3652	-0.19	0.04	0.00	0.01	23.39
rs139090356	CD8dim AC	ebi-a-GCST90001596	2	7451357	G	A	3652	0.88	0.19	0.00	0.01	20.75
rs4438746	CD8dim AC	ebi-a-GCST90001596	4	8280496	T	C	3652	0.12	0.03	0.00	0.01	20.42
rs60409696	CD8dim AC	ebi-a-GCST90001596	5	8374588	T	C	3652	0.33	0.07	0.00	0.01	20.51
rs2937553	CD8dim AC	ebi-a-GCST90001596	5	36473128	G	A	3652	-0.12	0.03	0.00	0.01	23.57
rs72974644	CD8dim AC	ebi-a-GCST90001596	6	123644770	A	G	3652	0.31	0.07	0.00	0.01	20.60
rs72936510	CD8dim AC	ebi-a-GCST90001596	6	99300812	A	T	3652	0.17	0.04	0.00	0.01	19.60
rs139249541	CD8dim AC	ebi-a-GCST90001596	6	102294761	G	A	3652	0.48	0.07	0.00	0.01	46.90
rs111273508	CD8dim AC	ebi-a-GCST90001596	6	25330739	A	G	3652	0.59	0.11	0.00	0.01	27.72
rs79251210	CD8dim AC	ebi-a-GCST90001596	6	100468602	A	G	3652	0.43	0.06	0.00	0.01	44.52
rs180222	CD8dim AC	ebi-a-GCST90001596	8	133899160	G	C	3652	-0.26	0.06	0.00	0.01	19.78
rs35947132	CD8dim AC	ebi-a-GCST90001596	10	72360387	A	G	3652	0.18	0.04	0.00	0.01	19.81
rs74508088	CD8dim AC	ebi-a-GCST90001596	10	52148920	T	C	3652	0.39	0.09	0.00	0.01	20.37
rs34562168	CD8dim AC	ebi-a-GCST90001596	10	110358510	C	T	3652	-0.18	0.04	0.00	0.01	20.70
rs80109323	CD8dim AC	ebi-a-GCST90001596	10	133227859	T	C	3652	1.64	0.34	0.00	0.01	23.81
rs145682498	CD8dim AC	ebi-a-GCST90001596	10	54508949	A	T	3652	0.24	0.05	0.00	0.01	21.12
rs112072415	CD8dim AC	ebi-a-GCST90001596	11	33183043	A	T	3652	0.26	0.06	0.00	0.01	20.15
rs2733684	CD8dim AC	ebi-a-GCST90001596	12	32558024	T	C	3652	0.56	0.12	0.00	0.01	20.42
rs7152367	CD8dim AC	ebi-a-GCST90001596	14	66292007	A	G	3652	0.43	0.09	0.00	0.01	21.40
rs62020708	CD8dim AC	ebi-a-GCST90001596	15	101232186	G	A	3652	2.06	0.46	0.00	0.01	20.05
rs149916994	CD8dim AC	ebi-a-GCST90001596	16	8346489	T	G	3652	0.51	0.11	0.00	0.01	20.83
rs11652532	CD8dim AC	ebi-a-GCST90001596	17	33769883	A	G	3652	-0.16	0.03	0.00	0.01	22.31
rs9916629	CD8dim AC	ebi-a-GCST90001596	17	33796260	C	T	3652	0.13	0.02	0.00	0.01	31.24

rs12185529	CD8dim AC	ebi-a-GCST90001596	19	3059754	A	G	3652	0.35	0.08	0.00	0.01	20.06
rs111748563	CD8dim AC	ebi-a-GCST90001596	19	17901533	G	A	3652	0.29	0.06	0.00	0.01	26.82
rs62210845	CD8dim AC	ebi-a-GCST90001596	21	15274585	A	G	3652	0.12	0.03	0.00	0.01	20.67
rs62287820	CD8dim %T cell	ebi-a-GCST90001597	3	155664429	G	A	3668	0.42	0.09	0.00	0.01	20.52
rs2937553	CD8dim %T cell	ebi-a-GCST90001597	5	36473128	G	A	3668	-0.13	0.03	0.00	0.01	24.16
rs60409696	CD8dim %T cell	ebi-a-GCST90001597	5	8374588	T	C	3668	0.34	0.07	0.00	0.01	21.38
rs79086781	CD8dim %T cell	ebi-a-GCST90001597	6	100526652	T	C	3668	0.49	0.06	0.00	0.02	57.43
rs139249541	CD8dim %T cell	ebi-a-GCST90001597	6	102294761	G	A	3668	0.57	0.07	0.00	0.02	62.77
rs9457418	CD8dim %T cell	ebi-a-GCST90001597	6	159051908	T	C	3668	0.12	0.03	0.00	0.01	20.80
rs141447985	CD8dim %T cell	ebi-a-GCST90001597	6	104062697	T	C	3668	0.25	0.05	0.00	0.01	21.45
rs112505246	CD8dim %T cell	ebi-a-GCST90001597	6	100914991	C	T	3668	0.25	0.05	0.00	0.01	29.80
rs76747637	CD8dim %T cell	ebi-a-GCST90001597	7	79800654	A	G	3668	0.69	0.15	0.00	0.01	19.92
rs143576769	CD8dim %T cell	ebi-a-GCST90001597	7	156775440	T	C	3668	-0.25	0.06	0.00	0.01	19.85
rs140922347	CD8dim %T cell	ebi-a-GCST90001597	7	121099420	A	C	3668	-0.24	0.05	0.00	0.01	19.91
rs77148456	CD8dim %T cell	ebi-a-GCST90001597	9	137583362	A	G	3668	-0.59	0.12	0.00	0.01	22.42
rs112072415	CD8dim %T cell	ebi-a-GCST90001597	11	33183043	A	T	3668	0.27	0.06	0.00	0.01	20.56
rs12871857	CD8dim %T cell	ebi-a-GCST90001597	13	26527159	T	C	3668	-0.25	0.05	0.00	0.01	22.87
rs17700958	CD8dim %T cell	ebi-a-GCST90001597	14	56993406	A	T	3668	-0.32	0.07	0.00	0.01	21.22
rs8022863	CD8dim %T cell	ebi-a-GCST90001597	14	77628472	G	A	3668	0.12	0.03	0.00	0.01	20.01
rs142704274	CD8dim %T cell	ebi-a-GCST90001597	17	39899038	A	G	3668	-0.41	0.09	0.00	0.01	20.68
rs111748563	CD8dim %T cell	ebi-a-GCST90001597	19	17901533	G	A	3668	0.28	0.06	0.00	0.01	24.86
rs7274761	CD8dim %T cell	ebi-a-GCST90001597	20	60128452	G	A	3668	-0.32	0.07	0.00	0.01	19.75
rs115364254	DN (CD4-CD8-) AC	ebi-a-GCST90001598	1	222677137	G	T	3652	0.16	0.03	0.00	0.01	21.54
rs11124150	DN (CD4-CD8-) AC	ebi-a-GCST90001598	2	98905012	G	A	3652	-0.13	0.02	0.00	0.01	27.19
rs6755452	DN (CD4-CD8-) AC	ebi-a-GCST90001598	2	87035076	G	T	3652	0.21	0.03	0.00	0.01	51.88
rs6708291	DN (CD4-CD8-) AC	ebi-a-GCST90001598	2	220541824	T	C	3652	0.12	0.03	0.00	0.01	19.96
rs111891110	DN (CD4-CD8-) AC	ebi-a-GCST90001598	2	75659115	C	T	3652	0.28	0.06	0.00	0.01	20.74
rs13108209	DN (CD4-CD8-) AC	ebi-a-GCST90001598	4	4354607	A	G	3652	-0.12	0.03	0.00	0.01	20.67
rs6860349	DN (CD4-CD8-) AC	ebi-a-GCST90001598	5	2133412	A	G	3652	-0.10	0.02	0.00	0.01	19.84
rs111273508	DN (CD4-CD8-) AC	ebi-a-GCST90001598	6	25330739	A	G	3652	0.51	0.11	0.00	0.01	21.77
rs4298345	DN (CD4-CD8-) AC	ebi-a-GCST90001598	6	31240818	A	G	3652	0.36	0.07	0.00	0.01	24.31
rs139249541	DN (CD4-CD8-) AC	ebi-a-GCST90001598	6	102294761	G	A	3652	0.37	0.07	0.00	0.01	28.74
rs79251210	DN (CD4-CD8-) AC	ebi-a-GCST90001598	6	100468602	A	G	3652	0.30	0.06	0.00	0.01	23.40
rs4711821	DN (CD4-CD8-) AC	ebi-a-GCST90001598	6	45556291	A	G	3652	0.13	0.03	0.00	0.01	24.55
rs7869045	DN (CD4-CD8-) AC	ebi-a-GCST90001598	9	124584495	A	G	3652	-0.27	0.06	0.00	0.01	23.12
rs577044375	DN (CD4-CD8-) AC	ebi-a-GCST90001598	9	138170904	C	T	3652	-0.45	0.10	0.00	0.01	22.49
rs11103734	DN (CD4-CD8-) AC	ebi-a-GCST90001598	9	138082201	T	C	3652	0.23	0.05	0.00	0.01	20.05

rs639937	DN (CD4-CD8-) AC	ebi-a-GCST90001598	10	96981668	A	G	3652	-0.12	0.03	0.00	0.01	20.66
rs11610256	DN (CD4-CD8-) AC	ebi-a-GCST90001598	12	111734121	T	C	3652	-0.14	0.03	0.00	0.01	23.96
rs61974190	DN (CD4-CD8-) AC	ebi-a-GCST90001598	14	23252363	A	G	3652	0.13	0.03	0.00	0.01	20.67
rs12904219	DN (CD4-CD8-) AC	ebi-a-GCST90001598	15	97967499	G	A	3652	-0.11	0.02	0.00	0.01	21.17
rs9896155	DN (CD4-CD8-) AC	ebi-a-GCST90001598	17	33794697	G	A	3652	0.14	0.02	0.00	0.01	33.50
rs9978065	DN (CD4-CD8-) AC	ebi-a-GCST90001598	21	15247433	C	T	3652	-0.14	0.03	0.00	0.01	21.51
rs181508809	DN (CD4-CD8-) %T	ebi-a-GCST90001599	1	19032967	C	T	3668	0.45	0.10	0.00	0.01	20.77
rs11124150	DN (CD4-CD8-) %T	ebi-a-GCST90001599	2	98905012	G	A	3668	-0.11	0.02	0.00	0.01	21.03
rs2177640	DN (CD4-CD8-) %T	ebi-a-GCST90001599	2	9803664	A	C	3668	0.13	0.03	0.00	0.01	20.03
rs7569868	DN (CD4-CD8-) %T	ebi-a-GCST90001599	2	87019683	T	C	3668	0.25	0.03	0.00	0.02	63.92
rs7664985	DN (CD4-CD8-) %T	ebi-a-GCST90001599	4	96189661	G	C	3668	-0.11	0.02	0.00	0.01	20.77
rs13108209	DN (CD4-CD8-) %T	ebi-a-GCST90001599	4	4354607	A	G	3668	-0.12	0.03	0.00	0.01	20.48
rs78522661	DN (CD4-CD8-) %T	ebi-a-GCST90001599	5	179850567	T	C	3668	0.18	0.04	0.00	0.01	20.83
rs4711821	DN (CD4-CD8-) %T	ebi-a-GCST90001599	6	45556291	A	G	3668	0.12	0.03	0.00	0.01	20.09
rs139249541	DN (CD4-CD8-) %T	ebi-a-GCST90001599	6	102294761	G	A	3668	0.46	0.07	0.00	0.01	42.10
rs79251210	DN (CD4-CD8-) %T	ebi-a-GCST90001599	6	100468602	A	G	3668	0.37	0.06	0.00	0.01	33.34
rs17060639	DN (CD4-CD8-) %T	ebi-a-GCST90001599	6	100915659	C	G	3668	0.21	0.04	0.00	0.01	21.79
rs7021333	DN (CD4-CD8-) %T	ebi-a-GCST90001599	9	98823528	G	T	3668	-0.12	0.02	0.00	0.01	24.35
rs11180823	DN (CD4-CD8-) %T	ebi-a-GCST90001599	12	76477941	C	A	3668	-0.12	0.02	0.00	0.01	24.54
rs9896155	DN (CD4-CD8-) %T	ebi-a-GCST90001599	17	33794697	G	A	3668	0.12	0.03	0.00	0.01	22.36
rs140247402	DN (CD4-CD8-) %T	ebi-a-GCST90001599	17	1235562	T	C	3668	-0.24	0.05	0.00	0.01	19.80
rs117051230	DN (CD4-CD8-) %T	ebi-a-GCST90001599	20	18427743	G	T	3668	-0.49	0.11	0.00	0.01	20.24
rs12033535	Leukocyte AC	ebi-a-GCST90001600	1	158256296	C	T	3653	0.50	0.11	0.00	0.01	20.35
rs12124698	Leukocyte AC	ebi-a-GCST90001600	1	246883687	T	A	3653	-0.80	0.16	0.00	0.01	25.74
rs960562	Leukocyte AC	ebi-a-GCST90001600	1	81138405	T	C	3653	-0.31	0.06	0.00	0.01	26.59
rs74698222	Leukocyte AC	ebi-a-GCST90001600	2	129448626	T	C	3653	-1.79	0.40	0.00	0.01	20.44
rs9856598	Leukocyte AC	ebi-a-GCST90001600	3	143886945	A	G	3653	-0.64	0.13	0.00	0.01	22.84
rs78475199	Leukocyte AC	ebi-a-GCST90001600	3	151512300	C	G	3653	-0.46	0.10	0.00	0.01	21.18
rs78158338	Leukocyte AC	ebi-a-GCST90001600	4	189016126	A	G	3653	0.29	0.06	0.00	0.01	22.63
rs77745857	Leukocyte AC	ebi-a-GCST90001600	4	105523007	A	C	3653	-0.33	0.07	0.00	0.01	20.90
rs185513166	Leukocyte AC	ebi-a-GCST90001600	4	109188818	T	C	3653	-0.36	0.08	0.00	0.01	21.67
rs11725186	Leukocyte AC	ebi-a-GCST90001600	4	94012466	A	T	3653	0.39	0.08	0.00	0.01	23.84
rs75663237	Leukocyte AC	ebi-a-GCST90001600	5	55340690	C	T	3653	-0.23	0.05	0.00	0.01	19.71
rs72762395	Leukocyte AC	ebi-a-GCST90001600	5	43904012	T	C	3653	-0.37	0.07	0.00	0.01	26.98
rs2797531	Lymphocyte AC	ebi-a-GCST90001601	1	111173494	A	G	3653	0.13	0.03	0.00	0.01	20.59
rs17824379	Lymphocyte AC	ebi-a-GCST90001601	3	5810961	G	A	3653	-1.05	0.23	0.00	0.01	21.30
rs115885535	Lymphocyte AC	ebi-a-GCST90001601	4	99705681	C	G	3653	-0.87	0.20	0.00	0.01	19.61
rs10040274	Lymphocyte AC	ebi-a-GCST90001601	5	114822737	A	G	3653	0.12	0.03	0.00	0.01	19.86
rs9271629	Lymphocyte AC	ebi-a-GCST90001601	6	32591976	A	C	3653	0.19	0.03	0.00	0.01	32.01
rs72960548	Lymphocyte AC	ebi-a-GCST90001601	6	127873865	C	T	3653	0.23	0.05	0.00	0.01	22.60

rs55802874	Lymphocyte AC	ebi-a-GCST90001601	7	55923072	G	A	3653	0.13	0.03	0.00	0.01	19.96
rs6942586	Lymphocyte AC	ebi-a-GCST90001601	7	36530276	A	G	3653	-0.12	0.03	0.00	0.01	20.55
rs12417637	Lymphocyte AC	ebi-a-GCST90001601	11	128303735	G	A	3653	0.19	0.04	0.00	0.01	21.40
rs7302662	Lymphocyte AC	ebi-a-GCST90001601	12	129172288	C	T	3653	-0.42	0.09	0.00	0.01	20.31
rs597808	Lymphocyte AC	ebi-a-GCST90001601	12	111973358	G	A	3653	-0.15	0.03	0.00	0.01	33.08
rs11850806	Lymphocyte AC	ebi-a-GCST90001601	14	78669137	G	T	3653	-0.68	0.13	0.00	0.01	26.83
rs941767	Lymphocyte AC	ebi-a-GCST90001601	14	91864872	G	A	3653	-0.18	0.04	0.00	0.01	20.51
rs142551447	Lymphocyte AC	ebi-a-GCST90001601	16	28203694	G	C	3653	0.28	0.06	0.00	0.01	19.83
rs79508330	Lymphocyte AC	ebi-a-GCST90001601	16	86445957	T	C	3653	-0.33	0.07	0.00	0.01	21.01
rs10410390	Lymphocyte AC	ebi-a-GCST90001601	19	54603419	C	T	3653	0.11	0.03	0.00	0.01	20.19
rs117336432	Lymphocyte AC	ebi-a-GCST90001601	20	62523193	T	C	3653	-1.54	0.34	0.00	0.01	21.01
rs112839163	Lymphocyte AC	ebi-a-GCST90001601	20	14708666	A	T	3653	-0.50	0.10	0.00	0.01	24.52
rs11702153	Lymphocyte AC	ebi-a-GCST90001601	21	14911701	T	C	3653	0.16	0.04	0.00	0.01	20.62
rs67017818	Lymphocyte %leukocyte	ebi-a-GCST90001602	1	21016307	G	A	3669	0.19	0.04	0.00	0.01	20.30
rs6701133	Lymphocyte %leukocyte	ebi-a-GCST90001602	1	62836414	C	T	3669	-0.12	0.02	0.00	0.01	22.55
rs112405229	Lymphocyte %leukocyte	ebi-a-GCST90001602	1	240584083	A	G	3669	-0.29	0.06	0.00	0.01	20.22
rs62264159	Lymphocyte %leukocyte	ebi-a-GCST90001602	3	127409116	G	T	3669	-0.39	0.09	0.00	0.01	20.15
rs893978	Lymphocyte %leukocyte	ebi-a-GCST90001602	3	74174855	T	C	3669	0.39	0.08	0.00	0.01	24.03
rs184624056	Lymphocyte %leukocyte	ebi-a-GCST90001602	4	259809	G	A	3669	-0.58	0.12	0.00	0.01	22.71
rs78277075	Lymphocyte %leukocyte	ebi-a-GCST90001602	4	183543742	G	A	3669	0.37	0.08	0.00	0.01	21.47
rs7677240	Lymphocyte %leukocyte	ebi-a-GCST90001602	4	105475366	T	A	3669	0.22	0.05	0.00	0.01	19.87
rs11960775	Lymphocyte %leukocyte	ebi-a-GCST90001602	5	126715206	A	G	3669	0.21	0.05	0.00	0.01	19.78
rs76019287	Lymphocyte %leukocyte	ebi-a-GCST90001602	5	28612713	C	T	3669	2.36	0.53	0.00	0.01	19.71
rs6912413	Lymphocyte %leukocyte	ebi-a-GCST90001602	6	22960927	G	C	3669	0.17	0.04	0.00	0.01	20.01
rs7006104	Lymphocyte %leukocyte	ebi-a-GCST90001602	8	18403786	T	C	3669	-1.18	0.25	0.00	0.01	21.52
rs11998531	Lymphocyte %leukocyte	ebi-a-GCST90001602	8	120860297	G	C	3669	-0.15	0.03	0.00	0.01	22.31
rs56275163	Lymphocyte %leukocyte	ebi-a-GCST90001602	9	140738816	C	A	3669	-0.12	0.02	0.00	0.01	23.15
rs2434066	Lymphocyte %leukocyte	ebi-a-GCST90001602	10	83891503	C	A	3669	-0.17	0.04	0.00	0.01	22.19
rs8177701	Lymphocyte %leukocyte	ebi-a-GCST90001602	10	6003312	G	A	3669	0.20	0.04	0.00	0.01	20.27
rs481252	Lymphocyte %leukocyte	ebi-a-GCST90001602	11	134188542	C	T	3669	-0.12	0.02	0.00	0.01	24.50
rs61415458	Lymphocyte %leukocyte	ebi-a-GCST90001602	12	20726031	C	T	3669	-0.16	0.03	0.00	0.01	21.23
rs74346935	Lymphocyte %leukocyte	ebi-a-GCST90001602	14	100697727	A	G	3669	0.14	0.03	0.00	0.01	22.17
rs111373552	Lymphocyte %leukocyte	ebi-a-GCST90001602	16	25912505	T	C	3669	0.22	0.05	0.00	0.01	20.94
rs77650974	Lymphocyte %leukocyte	ebi-a-GCST90001602	18	12394263	A	G	3669	-0.15	0.03	0.00	0.01	32.75
rs150146725	Lymphocyte %leukocyte	ebi-a-GCST90001602	20	49694567	C	T	3669	-0.36	0.08	0.00	0.01	19.98
rs12124698	T cell AC	ebi-a-GCST90001603	1	246883687	T	A	3653	-0.70	0.16	0.00	0.01	19.81
rs75308045	T cell AC	ebi-a-GCST90001603	1	111150195	G	A	3653	-0.13	0.03	0.00	0.01	24.38

rs17339549	T cell AC	ebi-a-GCST90001603	2	80078045	A	G	3653	0.12	0.03	0.00	0.01	21.28
rs17283318	T cell AC	ebi-a-GCST90001603	3	151749774	T	C	3653	-0.27	0.06	0.00	0.01	21.05
rs76560336	T cell AC	ebi-a-GCST90001603	4	33455497	T	C	3653	-0.70	0.16	0.00	0.01	20.16
rs10051472	T cell AC	ebi-a-GCST90001603	5	79563530	C	G	3653	0.12	0.03	0.00	0.01	20.41
rs9271622	T cell AC	ebi-a-GCST90001603	6	32591845	A	G	3653	0.22	0.03	0.00	0.01	40.54
rs72960548	T cell AC	ebi-a-GCST90001603	6	127873865	C	T	3653	0.26	0.05	0.00	0.01	28.54
rs13207893	T cell AC	ebi-a-GCST90001603	6	32586922	C	T	3653	-0.15	0.03	0.00	0.01	23.27
rs62447160	T cell AC	ebi-a-GCST90001603	7	36527098	C	T	3653	-0.12	0.03	0.00	0.01	20.82
rs1550856	T cell AC	ebi-a-GCST90001603	8	117805397	G	A	3653	-0.13	0.03	0.00	0.01	20.16
rs139994967	T cell AC	ebi-a-GCST90001603	11	79921187	G	A	3653	0.18	0.04	0.00	0.01	20.97
rs3184504	T cell AC	ebi-a-GCST90001603	12	111884608	C	T	3653	-0.15	0.03	0.00	0.01	31.07
rs11850806	T cell AC	ebi-a-GCST90001603	14	78669137	G	T	3653	-0.63	0.13	0.00	0.01	23.70
rs12599179	T cell AC	ebi-a-GCST90001603	16	86449253	T	A	3653	-0.32	0.07	0.00	0.01	20.15
rs117391590	T cell AC	ebi-a-GCST90001603	17	42759948	A	G	3653	-0.27	0.06	0.00	0.01	19.68
rs35669214	T cell AC	ebi-a-GCST90001603	17	71372662	C	T	3653	-0.12	0.03	0.00	0.01	19.91
rs75995320	T cell AC	ebi-a-GCST90001603	20	14839626	A	G	3653	-0.43	0.09	0.00	0.01	23.47
rs414743	T cell AC	ebi-a-GCST90001603	21	46512075	A	G	3653	0.13	0.03	0.00	0.01	20.61
rs11702153	T cell AC	ebi-a-GCST90001603	21	14911701	T	C	3653	0.16	0.03	0.00	0.01	20.68
rs1874323	T cell %lymphocyte	ebi-a-GCST90001604	3	65771684	C	T	3669	-0.16	0.03	0.00	0.01	20.76
rs4701789	T cell %lymphocyte	ebi-a-GCST90001604	5	7691703	G	C	3669	0.15	0.03	0.00	0.01	22.18
rs34147569	T cell %lymphocyte	ebi-a-GCST90001604	6	71753094	C	T	3669	0.13	0.03	0.00	0.01	19.65
rs28832872	T cell %lymphocyte	ebi-a-GCST90001604	6	32529015	C	T	3669	0.29	0.07	0.00	0.01	20.41
rs6904670	T cell %lymphocyte	ebi-a-GCST90001604	6	31192797	G	A	3669	-0.13	0.03	0.00	0.01	21.15
rs241580	T cell %lymphocyte	ebi-a-GCST90001604	6	157895107	G	A	3669	-0.28	0.06	0.00	0.01	19.90
rs17615220	T cell %lymphocyte	ebi-a-GCST90001604	6	32677413	G	A	3669	-0.16	0.03	0.00	0.01	23.31
rs10868215	T cell %lymphocyte	ebi-a-GCST90001604	9	87234111	C	T	3669	-0.12	0.03	0.00	0.01	23.05
rs7864642	T cell %lymphocyte	ebi-a-GCST90001604	9	122187995	T	G	3669	0.29	0.06	0.00	0.01	25.24
rs55972028	T cell %lymphocyte	ebi-a-GCST90001604	9	134712997	T	C	3669	0.17	0.04	0.00	0.01	20.81
rs4758148	T cell %lymphocyte	ebi-a-GCST90001604	11	5876630	G	A	3669	-0.27	0.06	0.00	0.01	20.90
rs11620475	T cell %lymphocyte	ebi-a-GCST90001604	13	112079904	C	G	3669	0.24	0.05	0.00	0.01	20.48
rs149528313	T cell %lymphocyte	ebi-a-GCST90001604	13	110658783	A	G	3669	0.34	0.07	0.00	0.01	25.02
rs735609	T cell %lymphocyte	ebi-a-GCST90001604	15	57644456	T	G	3669	0.23	0.04	0.00	0.01	28.03
rs9916257	T cell %lymphocyte	ebi-a-GCST90001604	17	33797371	T	G	3669	0.19	0.02	0.00	0.02	64.31
rs11870294	T cell %lymphocyte	ebi-a-GCST90001604	17	77121593	C	A	3669	0.12	0.03	0.00	0.01	20.65
rs10512469	T cell %lymphocyte	ebi-a-GCST90001604	17	33770802	T	C	3669	-0.23	0.03	0.00	0.01	52.71
rs62096695	T cell %lymphocyte	ebi-a-GCST90001604	18	77533989	G	T	3669	0.34	0.08	0.00	0.01	20.14
rs1609355	T cell %leukocyte	ebi-a-GCST90001605	2	22988095	G	A	3669	-0.30	0.07	0.00	0.01	20.57
rs78641454	T cell %leukocyte	ebi-a-GCST90001605	3	126744167	T	C	3669	-0.26	0.06	0.00	0.01	20.74
rs893978	T cell %leukocyte	ebi-a-GCST90001605	3	74174855	T	C	3669	0.42	0.08	0.00	0.01	28.81
rs4325897	T cell %leukocyte	ebi-a-GCST90001605	3	111423342	C	A	3669	0.15	0.03	0.00	0.01	21.18
rs76320442	T cell %leukocyte	ebi-a-GCST90001605	4	1632499	T	C	3669	-0.46	0.10	0.00	0.01	22.45

rs184624056	T cell %leukocyte	ebi-a-GCST90001605	4	259809	G	A	3669	-0.56	0.12	0.00	0.01	22.49
rs1501750	T cell %leukocyte	ebi-a-GCST90001605	5	4747892	G	A	3669	0.23	0.05	0.00	0.01	21.41
rs76019287	T cell %leukocyte	ebi-a-GCST90001605	5	28612713	C	T	3669	2.39	0.52	0.00	0.01	21.49
rs1114226	T cell %leukocyte	ebi-a-GCST90001605	6	77834631	G	C	3669	-0.11	0.02	0.00	0.01	21.03
rs6912413	T cell %leukocyte	ebi-a-GCST90001605	6	22960927	G	C	3669	0.17	0.04	0.00	0.01	21.60
rs113185319	T cell %leukocyte	ebi-a-GCST90001605	7	100618701	T	G	3669	-0.20	0.04	0.00	0.01	20.91
rs11998531	T cell %leukocyte	ebi-a-GCST90001605	8	120860297	G	C	3669	-0.15	0.03	0.00	0.01	22.55
rs16908368	T cell %leukocyte	ebi-a-GCST90001605	9	122185915	T	G	3669	0.27	0.06	0.00	0.01	22.49
rs55764198	T cell %leukocyte	ebi-a-GCST90001605	9	140738996	C	G	3669	-0.13	0.03	0.00	0.01	21.57
rs481252	T cell %leukocyte	ebi-a-GCST90001605	11	134188542	C	T	3669	-0.11	0.02	0.00	0.01	21.42
rs12426383	T cell %leukocyte	ebi-a-GCST90001605	12	20722854	G	A	3669	-0.15	0.03	0.00	0.01	20.67
rs4614661	T cell %leukocyte	ebi-a-GCST90001605	14	104750712	A	C	3669	-0.17	0.04	0.00	0.01	23.51
rs9916629	T cell %leukocyte	ebi-a-GCST90001605	17	33796260	C	T	3669	0.12	0.02	0.00	0.01	24.26
rs77650974	T cell %leukocyte	ebi-a-GCST90001605	18	12394263	A	G	3669	-0.11	0.03	0.00	0.01	20.17
rs150146725	T cell %leukocyte	ebi-a-GCST90001605	20	49694567	C	T	3669	-0.37	0.08	0.00	0.01	23.13
rs60704551	CD4+ %leukocyte	ebi-a-GCST90001606	1	14791436	C	A	3668	0.53	0.12	0.00	0.01	19.91
rs114905473	CD4+ %leukocyte	ebi-a-GCST90001606	4	111370027	C	T	3668	-0.24	0.05	0.00	0.01	21.00
rs798726	CD4+ %leukocyte	ebi-a-GCST90001606	4	1685211	C	T	3668	-0.14	0.03	0.00	0.01	22.57
rs13210358	CD4+ %leukocyte	ebi-a-GCST90001606	6	102272234	T	C	3668	-0.40	0.07	0.00	0.01	31.02
rs118114356	CD4+ %leukocyte	ebi-a-GCST90001606	6	162243723	T	G	3668	0.47	0.11	0.00	0.01	19.78
rs116160694	CD4+ %leukocyte	ebi-a-GCST90001606	6	67354817	C	T	3668	0.70	0.15	0.00	0.01	21.40
rs56157148	CD4+ %leukocyte	ebi-a-GCST90001606	9	138662360	G	T	3668	0.14	0.03	0.00	0.01	19.59
rs168003	CD4+ %leukocyte	ebi-a-GCST90001606	10	20133549	G	A	3668	-0.80	0.18	0.00	0.01	19.81
rs59571548	CD4+ %leukocyte	ebi-a-GCST90001606	10	130289895	C	T	3668	0.84	0.18	0.00	0.01	21.46
rs1830888	CD4+ %leukocyte	ebi-a-GCST90001606	10	45339904	A	C	3668	0.13	0.03	0.00	0.01	21.23
rs2003177	CD4+ %leukocyte	ebi-a-GCST90001606	11	87066709	G	A	3668	0.14	0.03	0.00	0.01	19.69
rs912657	CD4+ %leukocyte	ebi-a-GCST90001606	13	22369133	G	A	3668	0.12	0.03	0.00	0.01	20.01
rs17520378	CD4+ %leukocyte	ebi-a-GCST90001606	15	50900606	C	G	3668	0.20	0.04	0.00	0.01	19.90
rs62048802	CD4+ %leukocyte	ebi-a-GCST90001606	16	84703205	G	A	3668	0.12	0.02	0.00	0.01	22.94
rs112782656	CD4+ %leukocyte	ebi-a-GCST90001606	19	57486015	A	G	3668	-0.32	0.07	0.00	0.01	19.79
rs115924617	CD8br %leukocyte	ebi-a-GCST90001607	1	100383765	T	C	3668	-0.39	0.09	0.00	0.01	20.32
rs11163186	CD8br %leukocyte	ebi-a-GCST90001607	1	81483189	A	C	3668	0.38	0.08	0.00	0.01	20.88
rs78326687	CD8br %leukocyte	ebi-a-GCST90001607	1	242316531	A	C	3668	-0.16	0.03	0.00	0.01	22.07
rs13418326	CD8br %leukocyte	ebi-a-GCST90001607	2	113732809	G	C	3668	0.15	0.03	0.00	0.01	24.43
rs73207267	CD8br %leukocyte	ebi-a-GCST90001607	3	194033312	A	G	3668	0.16	0.04	0.00	0.01	19.92
rs3804348	CD8br %leukocyte	ebi-a-GCST90001607	4	3431342	A	C	3668	0.30	0.06	0.00	0.01	23.16
rs29001478	CD8br %leukocyte	ebi-a-GCST90001607	6	32447162	A	G	3668	0.16	0.03	0.00	0.01	25.41

rs6915999	CD8br %leukocyte	ebi-a-GCST90001607	6	31377851	A	G	3668	-0.14	0.03	0.00	0.01	22.49
rs3130685	CD8br %leukocyte	ebi-a-GCST90001607	6	31206206	T	C	3668	0.18	0.03	0.00	0.01	37.20
rs62458311	CD8br %leukocyte	ebi-a-GCST90001607	7	67315960	A	G	3668	0.27	0.06	0.00	0.01	21.14
rs6986151	CD8br %leukocyte	ebi-a-GCST90001607	8	101519901	C	T	3668	0.18	0.04	0.00	0.01	21.09
rs10990269	CD8br %leukocyte	ebi-a-GCST90001607	9	99054924	T	C	3668	0.11	0.03	0.00	0.01	19.68
rs2576166	CD8br %leukocyte	ebi-a-GCST90001607	10	90271135	G	C	3668	-0.12	0.03	0.00	0.01	23.17
rs3829858	CD8br %leukocyte	ebi-a-GCST90001607	10	85994142	G	A	3668	0.12	0.03	0.00	0.01	21.67
rs117942997	CD8br %leukocyte	ebi-a-GCST90001607	10	74476968	G	C	3668	-0.44	0.10	0.00	0.01	19.63
rs12931073	CD8br %leukocyte	ebi-a-GCST90001607	16	78208251	G	C	3668	-0.22	0.05	0.00	0.01	19.94
rs9934960	CD8br %leukocyte	ebi-a-GCST90001607	16	17253548	G	C	3668	-0.12	0.03	0.00	0.01	20.84
rs11080350	CD8br %leukocyte	ebi-a-GCST90001607	17	33774635	T	C	3668	-0.14	0.03	0.00	0.01	29.49
rs62130076	CD8br %leukocyte	ebi-a-GCST90001607	19	1671549	A	G	3668	0.11	0.03	0.00	0.01	20.02
rs6719918	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	2	5547219	A	G	3668	0.23	0.05	0.00	0.01	20.85
rs16987794	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	2	20748761	C	T	3668	-0.16	0.03	0.00	0.01	21.76
rs4482524	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	2	242673146	C	G	3668	-0.19	0.04	0.00	0.01	19.92
rs28459093	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	4	13725129	T	C	3668	-0.23	0.05	0.00	0.01	20.34
rs45551732	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	5	169816374	T	C	3668	0.34	0.07	0.00	0.01	22.48
rs9493240	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	6	132534887	A	G	3668	0.14	0.03	0.00	0.01	26.23
rs7786572	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	7	4779905	C	T	3668	0.30	0.07	0.00	0.01	19.86
rs77965313	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	9	120915115	C	A	3668	-0.30	0.07	0.00	0.01	20.97
rs117166897	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	10	10964820	G	A	3668	-0.24	0.05	0.00	0.01	20.66
rs147688743	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	10	64810319	A	G	3668	-0.47	0.10	0.00	0.01	22.70
rs11025036	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	11	19175633	A	G	3668	-0.43	0.08	0.00	0.01	27.22
rs3759343	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	12	6833104	C	T	3668	-0.13	0.03	0.00	0.01	22.31
rs2857229	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	12	6900616	G	A	3668	0.29	0.03	0.00	0.03	113.35
rs72694502	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	14	85161244	C	T	3668	-0.37	0.08	0.00	0.01	20.53
rs189060675	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	14	106214819	C	G	3668	0.57	0.12	0.00	0.01	21.20
rs76251345	DP (CD4+CD8+) %leukocyte	ebi-a-GCST90001608	14	51336044	G	T	3668	0.24	0.05	0.00	0.01	22.08

rs7160965	DP (CD4+CD8+) %leukocyte DP	ebi-a-GCST90001608	14	31506505	C	T	3668	0.20	0.04	0.00	0.01	26.21
rs117340321	(CD4+CD8+) %leukocyte DP	ebi-a-GCST90001608	15	42829973	T	G	3668	-0.25	0.05	0.00	0.01	22.20
rs4966346	(CD4+CD8+) %leukocyte DP	ebi-a-GCST90001608	15	29054740	G	A	3668	-0.12	0.03	0.00	0.01	21.25
rs62022846	(CD4+CD8+) %leukocyte DP	ebi-a-GCST90001608	16	11640890	C	T	3668	-0.28	0.06	0.00	0.01	22.59
rs529770358	(CD4+CD8+) %leukocyte DP	ebi-a-GCST90001608	19	1185530	C	A	3668	-0.38	0.08	0.00	0.01	22.07
rs2983457	(CD4+CD8+) %leukocyte DP	ebi-a-GCST90001608	20	62838443	G	A	3668	0.11	0.02	0.00	0.01	20.04
rs6022045	(CD4+CD8+) %leukocyte DP	ebi-a-GCST90001608	20	51305288	C	T	3668	-0.11	0.02	0.00	0.01	21.28
rs55928872	(CD4+CD8+) %leukocyte CD4+	ebi-a-GCST90001608	21	45713321	A	G	3668	-0.64	0.14	0.00	0.01	19.71
rs2801996	CD8dim AC CD4+	ebi-a-GCST90001609	1	90372717	C	T	3652	0.15	0.03	0.00	0.01	23.74
rs150339178	CD8dim AC CD4+	ebi-a-GCST90001609	2	85647906	T	C	3652	-0.31	0.06	0.00	0.01	27.97
rs35290870	CD8dim AC CD4+	ebi-a-GCST90001609	2	87023103	C	G	3652	-0.36	0.03	0.00	0.04	136.56
rs35046345	CD8dim AC CD4+	ebi-a-GCST90001609	2	84947693	T	C	3652	-0.28	0.06	0.00	0.01	23.90
rs150052968	CD8dim AC CD4+	ebi-a-GCST90001609	3	42512599	C	T	3652	0.15	0.03	0.00	0.01	23.11
rs5030065	CD8dim AC CD4+	ebi-a-GCST90001609	3	186454577	C	T	3652	0.58	0.13	0.00	0.01	19.57
rs4699432	CD8dim AC CD4+	ebi-a-GCST90001609	4	96480118	T	C	3652	0.12	0.03	0.00	0.01	20.25
rs116684688	CD8dim AC CD4+	ebi-a-GCST90001609	5	170530012	A	G	3652	0.31	0.07	0.00	0.01	20.56
rs28366280	CD8dim AC CD4+	ebi-a-GCST90001609	6	32560262	G	A	3652	0.22	0.04	0.00	0.01	34.78
rs73729106	CD8dim AC CD4+	ebi-a-GCST90001609	6	32514288	T	G	3652	-0.24	0.05	0.00	0.01	19.95
rs4959028	CD8dim AC CD4+	ebi-a-GCST90001609	6	32383138	G	A	3652	0.23	0.03	0.00	0.01	44.32
rs78510378	CD8dim AC CD4+	ebi-a-GCST90001609	7	154998925	G	A	3652	0.21	0.04	0.00	0.01	26.47
rs2706889	CD8dim AC CD4+	ebi-a-GCST90001609	7	95424378	C	T	3652	0.12	0.03	0.00	0.01	20.13
rs2810499	CD8dim AC CD4+	ebi-a-GCST90001609	9	136770207	G	T	3652	0.14	0.03	0.00	0.01	19.63
rs66907047	CD8dim AC CD4+	ebi-a-GCST90001609	10	26886249	C	T	3652	0.25	0.06	0.00	0.01	19.71
rs7109274	CD8dim AC CD4+	ebi-a-GCST90001609	11	59720416	A	G	3652	0.90	0.20	0.00	0.01	20.76
rs12422526	CD8dim AC CD4+	ebi-a-GCST90001609	12	87302893	C	T	3652	-0.11	0.03	0.00	0.01	20.77
rs10880825	CD8dim AC CD4+	ebi-a-GCST90001609	12	45991896	A	C	3652	0.12	0.03	0.00	0.01	23.08
rs61953641	CD8dim AC CD4+	ebi-a-GCST90001609	13	64026403	T	G	3652	-0.13	0.03	0.00	0.01	21.21
rs111693583	CD8dim AC CD4+	ebi-a-GCST90001609	16	28583610	T	C	3652	0.12	0.03	0.00	0.01	20.07
rs17530643	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	1	83469264	G	A	3668	0.14	0.03	0.00	0.01	19.73
rs2816843	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	1	90384101	G	A	3668	0.16	0.03	0.00	0.01	28.22
rs150339178	CD8dim %lymphocyte	ebi-a-GCST90001610	2	85647906	T	C	3668	-0.30	0.06	0.00	0.01	27.08

rs35290870	CD4+ CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	2	87023103	C	G	3668	-0.39	0.03	0.00	0.04	162.68
rs147195040	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	3	196485831	A	G	3668	0.28	0.06	0.00	0.01	19.93
rs150052968	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	3	42512599	C	T	3668	0.14	0.03	0.00	0.01	23.44
rs4833069	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	4	36081878	T	C	3668	-0.57	0.13	0.00	0.01	19.70
rs6870700	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	5	86468013	T	G	3668	0.38	0.08	0.00	0.01	19.98
rs79131379	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	6	33133040	A	G	3668	0.25	0.05	0.00	0.01	24.94
rs4959028	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	6	32383138	G	A	3668	0.29	0.03	0.00	0.02	78.18
rs73729106	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	6	32514288	T	G	3668	-0.26	0.05	0.00	0.01	26.57
rs28366280	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	6	32560262	G	A	3668	0.25	0.04	0.00	0.01	51.52
rs755884	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	6	160524578	G	C	3668	0.13	0.03	0.00	0.01	19.71
rs78510378	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	7	154998925	G	A	3668	0.20	0.04	0.00	0.01	25.13
rs2338695	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	8	90257990	T	C	3668	0.11	0.02	0.00	0.01	20.00
rs149551255	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	8	68301618	C	A	3668	0.81	0.18	0.00	0.01	20.08
rs66907047	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	10	26886249	C	T	3668	0.24	0.05	0.00	0.01	19.59
rs511713	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	11	128099099	A	G	3668	0.11	0.02	0.00	0.01	21.59
rs10858526	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	12	87312997	A	C	3668	-0.11	0.02	0.00	0.01	20.64
rs10880825	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	12	45991896	A	C	3668	0.12	0.02	0.00	0.01	22.21
rs28521508	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	15	84131989	G	A	3668	-0.12	0.03	0.00	0.01	20.52
rs111693583	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	16	28583610	T	C	3668	0.12	0.03	0.00	0.01	21.22
rs903881	CD8dim %lymphocyte CD4+	ebi-a-GCST90001610	16	16206042	T	C	3668	-0.12	0.03	0.00	0.01	22.28
rs2801996	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	1	90372717	C	T	3668	0.17	0.03	0.00	0.01	28.24
rs17530643	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	1	83469264	G	A	3668	0.14	0.03	0.00	0.01	19.89
rs114200183	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	2	97350229	T	C	3668	-0.20	0.04	0.00	0.01	20.72
rs150339178	CD8dim %leukocyte	ebi-a-GCST90001611	2	85647906	T	C	3668	-0.31	0.06	0.00	0.01	28.65

rs35290870	CD4+ CD8dim %leukocyte CD4+	ebi-a-GCST90001611	2	87023103	C	G	3668	-0.38	0.03	0.00	0.04	160.56
rs150052968	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	3	42512599	C	T	3668	0.15	0.03	0.00	0.01	24.34
rs28366280	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	6	32560262	G	A	3668	0.24	0.04	0.00	0.01	44.56
rs4959028	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	6	32383138	G	A	3668	0.27	0.03	0.00	0.02	67.58
rs79131379	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	6	33133040	A	G	3668	0.25	0.05	0.00	0.01	24.23
rs73729106	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	6	32514288	T	G	3668	-0.27	0.05	0.00	0.01	26.85
rs78510378	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	7	154998925	G	A	3668	0.21	0.04	0.00	0.01	26.58
rs66907047	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	10	26886249	C	T	3668	0.26	0.05	0.00	0.01	22.22
rs511713	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	11	128099099	A	G	3668	0.12	0.02	0.00	0.01	22.30
rs10858526	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	12	87312997	A	C	3668	-0.12	0.02	0.00	0.01	22.10
rs10880825	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	12	45991896	A	C	3668	0.11	0.02	0.00	0.01	21.48
rs28521508	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	15	84131989	G	A	3668	-0.12	0.03	0.00	0.01	20.27
rs903881	CD8dim %leukocyte CD4+	ebi-a-GCST90001611	16	16206042	T	C	3668	-0.12	0.03	0.00	0.01	22.11
rs111693583	CD8dim %leukocyte CD8dim %leukocyte CD8dim	ebi-a-GCST90001611	16	28583610	T	C	3668	0.12	0.03	0.00	0.01	20.65
rs11676464	%leukocyte CD8dim	ebi-a-GCST90001612	2	86018262	A	G	3668	-0.18	0.04	0.00	0.01	19.91
rs62287820	%leukocyte CD8dim	ebi-a-GCST90001612	3	155664429	G	A	3668	0.44	0.09	0.00	0.01	22.21
rs148468972	%leukocyte CD8dim	ebi-a-GCST90001612	4	184898221	G	A	3668	2.04	0.46	0.00	0.01	19.70
rs34740679	%leukocyte CD8dim	ebi-a-GCST90001612	4	4261553	A	G	3668	0.15	0.03	0.00	0.01	19.71
rs60409696	%leukocyte CD8dim	ebi-a-GCST90001612	5	8374588	T	C	3668	0.36	0.07	0.00	0.01	23.30
rs2937553	%leukocyte CD8dim	ebi-a-GCST90001612	5	36473128	G	A	3668	-0.13	0.03	0.00	0.01	24.81
rs79086781	%leukocyte CD8dim	ebi-a-GCST90001612	6	100526652	T	C	3668	0.47	0.07	0.00	0.01	52.24
rs139249541	%leukocyte CD8dim	ebi-a-GCST90001612	6	102294761	G	A	3668	0.52	0.07	0.00	0.01	52.16
rs112505246	%leukocyte CD8dim	ebi-a-GCST90001612	6	100914991	C	T	3668	0.24	0.05	0.00	0.01	27.68
rs76747637	%leukocyte CD8dim	ebi-a-GCST90001612	7	79800654	A	G	3668	0.70	0.16	0.00	0.01	20.09
rs143576769	%leukocyte CD8dim	ebi-a-GCST90001612	7	156775440	T	C	3668	-0.25	0.06	0.00	0.01	20.12
rs77148456	%leukocyte CD8dim	ebi-a-GCST90001612	9	137583362	A	G	3668	-0.59	0.12	0.00	0.01	22.42
rs112072415	%leukocyte CD8dim	ebi-a-GCST90001612	11	33183043	A	T	3668	0.28	0.06	0.00	0.01	21.09
rs12871857	%leukocyte CD8dim	ebi-a-GCST90001612	13	26527159	T	C	3668	-0.24	0.05	0.00	0.01	21.31
rs17700958	%leukocyte CD8dim	ebi-a-GCST90001612	14	56993406	A	T	3668	-0.32	0.07	0.00	0.01	20.24
rs8022863	%leukocyte CD8dim	ebi-a-GCST90001612	14	77628472	G	A	3668	0.12	0.03	0.00	0.01	20.08

rs9916257	CD8dim %leukocyte	ebi-a-GCST90001612	17	33797371	T	G	3668	0.13	0.02	0.00	0.01	29.27
rs111748563	CD8dim %leukocyte	ebi-a-GCST90001612	19	17901533	G	A	3668	0.27	0.06	0.00	0.01	22.48
rs72784218	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	2	19698493	A	G	3668	0.23	0.05	0.00	0.01	20.84
rs11124150	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	2	98905012	G	A	3668	-0.12	0.02	0.00	0.01	22.04
rs62176864	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	2	156465928	C	A	3668	2.32	0.51	0.00	0.01	21.04
rs7569868	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	2	87019683	T	C	3668	0.23	0.03	0.00	0.02	58.56
rs185860761	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	2	45213218	T	C	3668	-0.23	0.05	0.00	0.01	20.95
rs2177640	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	2	9803664	A	C	3668	0.13	0.03	0.00	0.01	20.21
rs7664985	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	4	96189661	G	C	3668	-0.11	0.02	0.00	0.01	20.01
rs4711821	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	6	45556291	A	G	3668	0.13	0.03	0.00	0.01	24.25
rs34025101	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	6	135388494	G	A	3668	1.39	0.31	0.00	0.01	20.06
rs79251210	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	6	100468602	A	G	3668	0.35	0.06	0.00	0.01	31.59
rs17060639	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	6	100915659	C	G	3668	0.20	0.04	0.00	0.01	21.12
rs139249541	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	6	102294761	G	A	3668	0.42	0.07	0.00	0.01	35.55
rs76747637	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	7	79800654	A	G	3668	0.68	0.15	0.00	0.01	20.91
rs7021333	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	9	98823528	G	T	3668	-0.12	0.02	0.00	0.01	25.09
rs7869045	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	9	124584495	A	G	3668	-0.25	0.06	0.00	0.01	19.87
rs11103734	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	9	138082201	T	C	3668	0.24	0.05	0.00	0.01	20.84
rs11180778	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	12	76371057	C	T	3668	0.13	0.03	0.00	0.01	23.09
rs142716558	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	14	51308539	G	A	3668	0.16	0.04	0.00	0.01	20.10
rs9896155	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	17	33794697	G	A	3668	0.14	0.03	0.00	0.01	31.28
rs140247402	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	17	1235562	T	C	3668	-0.24	0.05	0.00	0.01	19.81
rs139015432	DN (CD4- CD8-) %leukocyte	ebi-a-GCST90001613	18	55486198	T	C	3668	0.16	0.04	0.00	0.01	20.00
rs78326687	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	1	242316531	A	C	3668	-0.15	0.03	0.00	0.01	20.92
rs13418326	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	2	113732809	G	C	3668	0.15	0.03	0.00	0.01	23.49

rs6849514	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	4	186386587	T	C	3668	0.11	0.02	0.00	0.01	20.10
rs76556848	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	4	37388167	T	C	3668	0.45	0.10	0.00	0.01	20.32
rs3804348	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	4	3431342	A	C	3668	0.29	0.06	0.00	0.01	21.60
rs6595142	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	5	117867191	T	C	3668	-0.13	0.03	0.00	0.01	20.46
rs73402222	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	6	31388449	C	T	3668	-0.19	0.03	0.00	0.01	34.49
rs2275854	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	6	29976838	G	A	3668	0.15	0.03	0.00	0.01	24.73
rs9501618	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	6	32339784	C	A	3668	0.23	0.05	0.00	0.01	20.21
rs62458311	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	7	67315960	A	G	3668	0.29	0.06	0.00	0.01	24.14
rs6986151	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	8	101519901	C	T	3668	0.18	0.04	0.00	0.01	20.89
rs118063063	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	10	83179890	T	C	3668	0.44	0.09	0.00	0.01	24.64
rs2576166	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	10	90271135	G	C	3668	-0.12	0.03	0.00	0.01	23.18
rs11080350	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	17	33774635	T	C	3668	-0.15	0.03	0.00	0.01	37.71
rs4796452	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	17	6157164	T	C	3668	-0.13	0.03	0.00	0.01	19.62
rs73162393	CD8br and CD8dim %leukocyte	ebi-a-GCST90001614	22	28078166	T	C	3668	0.20	0.05	0.00	0.01	20.36
rs558986	TCRgd AC	ebi-a-GCST90001615	1	18660295	G	A	3650	-0.15	0.03	0.00	0.01	21.18
rs947107	TCRgd AC	ebi-a-GCST90001615	1	245716969	C	T	3650	-0.14	0.03	0.00	0.01	22.91
rs11897347	TCRgd AC	ebi-a-GCST90001615	2	197856673	C	T	3650	0.15	0.03	0.00	0.01	19.95
rs149000203	TCRgd AC	ebi-a-GCST90001615	4	111341950	A	G	3650	-0.34	0.08	0.00	0.01	20.07
rs139500218	TCRgd AC	ebi-a-GCST90001615	5	100863142	A	T	3650	-1.26	0.28	0.00	0.01	20.67
rs9273390	TCRgd AC	ebi-a-GCST90001615	6	32627042	C	G	3650	-0.19	0.04	0.00	0.01	30.72
rs67851010	TCRgd AC	ebi-a-GCST90001615	6	32501347	A	G	3650	0.31	0.05	0.00	0.01	45.32
rs139311612	TCRgd AC	ebi-a-GCST90001615	6	79117697	C	T	3650	-0.35	0.07	0.00	0.01	24.62
rs73353488	TCRgd AC	ebi-a-GCST90001615	7	38336965	A	G	3650	-0.29	0.06	0.00	0.01	22.59
rs3802329	TCRgd AC	ebi-a-GCST90001615	8	19266727	A	C	3650	0.15	0.03	0.00	0.01	24.05
rs77743715	TCRgd AC	ebi-a-GCST90001615	9	24238234	G	A	3650	-0.90	0.18	0.00	0.01	24.84
rs10850589	TCRgd AC	ebi-a-GCST90001615	12	109499490	T	C	3650	-0.11	0.02	0.00	0.01	21.79
rs117810965	TCRgd AC	ebi-a-GCST90001615	13	110758617	A	G	3650	0.28	0.06	0.00	0.01	19.61
rs7192379	TCRgd AC	ebi-a-GCST90001615	16	16869754	C	T	3650	-0.13	0.03	0.00	0.01	20.03
rs7194802	TCRgd AC	ebi-a-GCST90001615	16	60665097	A	C	3650	-0.13	0.03	0.00	0.01	21.97
rs9912354	TCRgd AC	ebi-a-GCST90001615	17	33805730	T	C	3650	0.11	0.02	0.00	0.01	19.78
rs35702634	TCRgd AC	ebi-a-GCST90001615	17	72943434	A	G	3650	0.28	0.06	0.00	0.01	23.64
rs8079417	TCRgd AC	ebi-a-GCST90001615	17	35269469	G	T	3650	-0.26	0.06	0.00	0.01	20.94
rs142067182	TCRgd AC	ebi-a-GCST90001615	18	51354134	T	C	3650	0.26	0.06	0.00	0.01	21.94
rs148395664	TCRgd AC	ebi-a-GCST90001615	20	6008247	A	G	3650	0.39	0.08	0.00	0.01	21.15
rs9974788	TCRgd AC	ebi-a-GCST90001615	21	27926021	A	G	3650	0.41	0.09	0.00	0.01	20.74

rs17643159	TCRgd %T cell	ebi-a-GCST90001616	1	216117735	T	A	3666	0.46	0.10	0.00	0.01	19.81
rs320359	TCRgd %T cell	ebi-a-GCST90001616	1	118129970	A	G	3666	-0.20	0.04	0.00	0.01	20.74
rs4952856	TCRgd %T cell	ebi-a-GCST90001616	2	47185438	A	G	3666	-0.14	0.03	0.00	0.01	22.52
rs17224872	TCRgd %T cell	ebi-a-GCST90001616	2	182351184	T	C	3666	0.12	0.03	0.00	0.01	20.16
rs75122287	TCRgd %T cell	ebi-a-GCST90001616	2	190980603	T	C	3666	-0.70	0.16	0.00	0.01	20.06
rs35996042	TCRgd %T cell	ebi-a-GCST90001616	3	2194745	A	G	3666	-0.26	0.05	0.00	0.01	23.06
rs113438136	TCRgd %T cell	ebi-a-GCST90001616	3	86907637	C	T	3666	0.54	0.12	0.00	0.01	21.76
rs149000203	TCRgd %T cell	ebi-a-GCST90001616	4	111341950	A	G	3666	-0.36	0.08	0.00	0.01	22.38
rs72845743	TCRgd %T cell	ebi-a-GCST90001616	6	32528414	A	G	3666	0.36	0.07	0.00	0.01	26.19
rs139311612	TCRgd %T cell	ebi-a-GCST90001616	6	79117697	C	T	3666	-0.36	0.07	0.00	0.01	24.59
rs116965753	TCRgd %T cell	ebi-a-GCST90001616	7	121036117	T	G	3666	-0.23	0.05	0.00	0.01	19.68
rs56396450	TCRgd %T cell	ebi-a-GCST90001616	7	138404064	C	G	3666	0.14	0.03	0.00	0.01	20.30
rs7818691	TCRgd %T cell	ebi-a-GCST90001616	8	19353778	G	T	3666	0.13	0.03	0.00	0.01	26.27
rs76021379	TCRgd %T cell	ebi-a-GCST90001616	9	24274574	C	T	3666	-2.12	0.44	0.00	0.01	23.74
rs2094742	TCRgd %T cell	ebi-a-GCST90001616	10	133884758	T	C	3666	-0.11	0.02	0.00	0.01	19.88
rs10850589	TCRgd %T cell	ebi-a-GCST90001616	12	109499490	T	C	3666	-0.12	0.02	0.00	0.01	21.85
rs80341165	TCRgd %T cell	ebi-a-GCST90001616	12	115642929	T	C	3666	-0.24	0.05	0.00	0.01	19.70
rs322939	TCRgd %T cell	ebi-a-GCST90001616	17	3445039	G	C	3666	0.12	0.03	0.00	0.01	20.42
rs113457024	TCRgd %T cell	ebi-a-GCST90001616	18	51480039	C	T	3666	0.18	0.04	0.00	0.01	21.18
rs947107	TCRgd %lymphocyte	ebi-a-GCST90001617	1	245716969	C	T	3666	-0.14	0.03	0.00	0.01	23.16
rs17643159	TCRgd %lymphocyte	ebi-a-GCST90001617	1	216117735	T	A	3666	0.46	0.10	0.00	0.01	20.51
rs72990536	TCRgd %lymphocyte	ebi-a-GCST90001617	2	237548169	A	G	3666	-0.60	0.13	0.00	0.01	19.78
rs840941	TCRgd %lymphocyte	ebi-a-GCST90001617	2	65713102	G	A	3666	-0.11	0.03	0.00	0.01	20.19
rs4952856	TCRgd %lymphocyte	ebi-a-GCST90001617	2	47185438	A	G	3666	-0.14	0.03	0.00	0.01	22.29
rs35996042	TCRgd %lymphocyte	ebi-a-GCST90001617	3	2194745	A	G	3666	-0.24	0.05	0.00	0.01	20.75
rs113438136	TCRgd %lymphocyte	ebi-a-GCST90001617	3	86907637	C	T	3666	0.56	0.12	0.00	0.01	22.99
rs149000203	TCRgd %lymphocyte	ebi-a-GCST90001617	4	111341950	A	G	3666	-0.36	0.08	0.00	0.01	22.20
rs139500218	TCRgd %lymphocyte	ebi-a-GCST90001617	5	100863142	A	T	3666	-1.27	0.28	0.00	0.01	20.12
rs139311612	TCRgd %lymphocyte	ebi-a-GCST90001617	6	79117697	C	T	3666	-0.36	0.07	0.00	0.01	24.37
rs72845743	TCRgd %lymphocyte	ebi-a-GCST90001617	6	32528414	A	G	3666	0.39	0.07	0.00	0.01	31.18
rs9267908	TCRgd %lymphocyte	ebi-a-GCST90001617	6	32204952	A	G	3666	0.13	0.03	0.00	0.01	20.99
rs56396450	TCRgd %lymphocyte	ebi-a-GCST90001617	7	138404064	C	G	3666	0.14	0.03	0.00	0.01	20.80
rs7818691	TCRgd %lymphocyte	ebi-a-GCST90001617	8	19353778	G	T	3666	0.13	0.03	0.00	0.01	26.39
rs76021379	TCRgd %lymphocyte	ebi-a-GCST90001617	9	24274574	C	T	3666	-2.22	0.43	0.00	0.01	26.08
rs2094742	TCRgd %lymphocyte	ebi-a-GCST90001617	10	133884758	T	C	3666	-0.11	0.02	0.00	0.01	20.58
rs10850589	TCRgd %lymphocyte	ebi-a-GCST90001617	12	109499490	T	C	3666	-0.11	0.02	0.00	0.01	20.37
rs150193285	TCRgd %lymphocyte	ebi-a-GCST90001617	15	75224360	T	C	3666	1.83	0.41	0.00	0.01	20.39

rs9912354	TCRgd %lymphocyte	ebi-a-GCST90001617	17	33805730	T	C	3666	0.11	0.02	0.00	0.01	20.16
rs113457024	TCRgd %lymphocyte	ebi-a-GCST90001617	18	51480039	C	T	3666	0.18	0.04	0.00	0.01	21.18
rs174698	TCRgd %lymphocyte	ebi-a-GCST90001617	22	19954306	T	C	3666	-2.38	0.51	0.00	0.01	21.45
rs4949963	HLA DR+ T cell AC	ebi-a-GCST90001618	1	95906877	A	T	3580	-0.12	0.03	0.00	0.01	21.37
rs6686155	HLA DR+ T cell AC	ebi-a-GCST90001618	1	120406847	A	C	3580	0.22	0.05	0.00	0.01	22.16
rs7538103	HLA DR+ T cell AC	ebi-a-GCST90001618	1	16147854	A	G	3580	-0.13	0.03	0.00	0.01	21.29
rs6758681	HLA DR+ T cell AC	ebi-a-GCST90001618	2	158890790	C	G	3580	-0.19	0.04	0.00	0.01	20.19
rs57068864	HLA DR+ T cell AC	ebi-a-GCST90001618	3	29043472	A	G	3580	0.19	0.04	0.00	0.01	20.53
rs113649280	HLA DR+ T cell AC	ebi-a-GCST90001618	3	10881996	G	A	3580	-0.95	0.21	0.00	0.01	20.03
rs71312261	HLA DR+ T cell AC	ebi-a-GCST90001618	3	158900756	G	A	3580	-0.43	0.10	0.00	0.01	19.99
rs147577369	HLA DR+ T cell AC	ebi-a-GCST90001618	4	137447868	G	A	3580	-0.70	0.16	0.00	0.01	19.83
rs68174286	HLA DR+ T cell AC	ebi-a-GCST90001618	6	32503204	T	C	3580	0.33	0.05	0.00	0.01	52.04
rs9391848	HLA DR+ T cell AC	ebi-a-GCST90001618	6	31320145	T	C	3580	0.22	0.05	0.00	0.01	20.60
rs78648104	HLA DR+ T cell AC	ebi-a-GCST90001618	6	50683009	C	T	3580	-0.16	0.03	0.00	0.01	23.96
rs79684162	HLA DR+ T cell AC	ebi-a-GCST90001618	6	142661594	T	C	3580	0.44	0.10	0.00	0.01	21.41
rs76997602	HLA DR+ T cell AC	ebi-a-GCST90001618	7	115451309	G	A	3580	-0.42	0.09	0.00	0.01	21.40
rs117419608	HLA DR+ T cell AC	ebi-a-GCST90001618	8	11831788	A	G	3580	-0.84	0.17	0.00	0.01	25.57
rs2181036	HLA DR+ T cell AC	ebi-a-GCST90001618	9	117649136	C	T	3580	-0.16	0.03	0.00	0.01	40.17
rs2808067	HLA DR+ T cell AC	ebi-a-GCST90001618	10	32045932	C	T	3580	0.12	0.03	0.00	0.01	22.38
rs1549827	HLA DR+ T cell AC	ebi-a-GCST90001618	10	118188503	A	T	3580	-0.22	0.04	0.00	0.01	26.52
rs7308816	HLA DR+ T cell AC	ebi-a-GCST90001618	12	85022716	T	G	3580	-0.14	0.03	0.00	0.01	19.71
rs11054779	HLA DR+ T cell AC	ebi-a-GCST90001618	12	12457054	T	G	3580	0.30	0.07	0.00	0.01	19.83
rs75799568	HLA DR+ T cell AC	ebi-a-GCST90001618	13	50104582	T	C	3580	1.19	0.25	0.00	0.01	22.38
rs506151	HLA DR+ T cell AC	ebi-a-GCST90001618	13	110882752	T	C	3580	-0.41	0.09	0.00	0.01	22.07
rs59231583	HLA DR+ T cell AC	ebi-a-GCST90001618	14	96082974	T	G	3580	0.13	0.03	0.00	0.01	22.73
rs111481219	HLA DR+ T cell AC	ebi-a-GCST90001618	16	11544197	T	C	3580	-0.22	0.05	0.00	0.01	23.89
rs72779785	HLA DR+ T cell AC	ebi-a-GCST90001618	16	10569039	G	A	3580	-0.20	0.03	0.00	0.01	38.35
rs3087456	HLA DR+ T cell AC	ebi-a-GCST90001618	16	10970902	A	G	3580	-0.44	0.03	0.00	0.07	253.22
rs62029480	HLA DR+ T cell AC	ebi-a-GCST90001618	16	10651993	T	C	3580	0.40	0.08	0.00	0.01	25.49
rs1084559	HLA DR+ T cell AC	ebi-a-GCST90001618	16	10825434	A	G	3580	-0.15	0.02	0.00	0.01	35.15
rs71387949	HLA DR+ T cell AC	ebi-a-GCST90001618	17	77801131	C	T	3580	0.23	0.05	0.00	0.01	22.56
rs7504737	HLA DR+ T cell AC	ebi-a-GCST90001618	18	70065436	G	A	3580	-0.11	0.02	0.00	0.01	19.84
rs138213638	HLA DR+ T cell AC	ebi-a-GCST90001618	18	55985546	C	T	3580	1.50	0.33	0.00	0.01	20.99
rs116844973	HLA DR+ T cell AC	ebi-a-GCST90001618	19	787806	C	T	3580	-0.13	0.03	0.00	0.01	19.64
rs12627305	HLA DR+ T cell AC	ebi-a-GCST90001618	21	21249973	A	G	3580	0.38	0.08	0.00	0.01	23.54
rs9613063	HLA DR+ T cell AC	ebi-a-GCST90001618	22	26382004	T	C	3580	-0.14	0.03	0.00	0.01	22.33
rs79178843	HLA DR+ T cell%T cell	ebi-a-GCST90001619	2	13251154	A	G	3596	0.55	0.12	0.00	0.01	22.42

rs116797692	HLA DR+ T cell%T cell	ebi-a-GCST90001619	2	158854583	A	G	3596	-0.31	0.07	0.00	0.01	19.66
rs145794521	HLA DR+ T cell%T cell	ebi-a-GCST90001619	3	74944494	A	G	3596	2.03	0.45	0.00	0.01	20.06
rs148323639	HLA DR+ T cell%T cell	ebi-a-GCST90001619	4	27183687	A	G	3596	0.31	0.06	0.00	0.01	24.04
rs78648104	HLA DR+ T cell%T cell	ebi-a-GCST90001619	6	50683009	C	T	3596	-0.14	0.03	0.00	0.01	20.38
rs3104414	HLA DR+ T cell%T cell	ebi-a-GCST90001619	6	32582612	A	G	3596	0.17	0.03	0.00	0.01	33.14
rs10244964	HLA DR+ T cell%T cell	ebi-a-GCST90001619	7	46432552	T	G	3596	-1.41	0.30	0.00	0.01	21.84
rs76997602	HLA DR+ T cell%T cell	ebi-a-GCST90001619	7	115451309	G	A	3596	-0.37	0.08	0.00	0.01	19.93
rs138678763	HLA DR+ T cell%T cell	ebi-a-GCST90001619	8	11817727	C	T	3596	-0.70	0.16	0.00	0.01	19.64
rs117941717	HLA DR+ T cell%T cell	ebi-a-GCST90001619	8	105030375	G	A	3596	-0.54	0.12	0.00	0.01	20.04
rs7047722	HLA DR+ T cell%T cell	ebi-a-GCST90001619	9	101548105	A	G	3596	0.10	0.02	0.00	0.01	19.78
rs144674286	HLA DR+ T cell%T cell	ebi-a-GCST90001619	9	101028704	A	G	3596	0.22	0.05	0.00	0.01	20.82
rs7032773	HLA DR+ T cell%T cell	ebi-a-GCST90001619	9	117645562	T	C	3596	-0.15	0.02	0.00	0.01	36.75
rs687184	HLA DR+ T cell%T cell	ebi-a-GCST90001619	9	22725624	C	G	3596	0.13	0.03	0.00	0.01	20.75
rs117014352	HLA DR+ T cell%T cell	ebi-a-GCST90001619	10	76784567	T	C	3596	-0.97	0.20	0.00	0.01	22.43
rs10788105	HLA DR+ T cell%T cell	ebi-a-GCST90001619	10	122390777	A	G	3596	0.22	0.05	0.00	0.01	20.91
rs7088079	HLA DR+ T cell%T cell	ebi-a-GCST90001619	10	3066899	A	G	3596	-0.18	0.04	0.00	0.01	22.28
rs7127620	HLA DR+ T cell%T cell	ebi-a-GCST90001619	11	86071947	G	A	3596	0.10	0.02	0.00	0.01	20.04
rs542160	HLA DR+ T cell%T cell	ebi-a-GCST90001619	11	107676543	T	C	3596	-0.11	0.02	0.00	0.01	24.40
rs79132531	HLA DR+ T cell%T cell	ebi-a-GCST90001619	11	107259543	G	A	3596	0.19	0.04	0.00	0.01	19.72
rs7294683	HLA DR+ T cell%T cell	ebi-a-GCST90001619	12	126542791	G	A	3596	0.10	0.02	0.00	0.01	19.71
rs11054779	HLA DR+ T cell%T cell	ebi-a-GCST90001619	12	12457054	T	G	3596	0.29	0.06	0.00	0.01	21.46
rs9526689	HLA DR+ T cell%T cell	ebi-a-GCST90001619	13	51299267	A	G	3596	0.48	0.11	0.00	0.01	20.08
rs506151	HLA DR+ T cell%T cell	ebi-a-GCST90001619	13	110882752	T	C	3596	-0.38	0.08	0.00	0.01	22.12
rs3087456	HLA DR+ T cell%T cell	ebi-a-GCST90001619	16	10970902	A	G	3596	-0.46	0.03	0.00	0.08	327.82
rs71381201	HLA DR+ T cell%T cell	ebi-a-GCST90001619	16	11357860	G	T	3596	-0.25	0.05	0.00	0.01	22.75
rs1084560	HLA DR+ T cell%T cell	ebi-a-GCST90001619	16	10824872	G	A	3596	-0.13	0.02	0.00	0.01	33.06
rs55724950	HLA DR+ T cell%T cell	ebi-a-GCST90001619	16	10993712	A	G	3596	-0.24	0.05	0.00	0.01	28.50
rs12601032	HLA DR+ T cell%T cell	ebi-a-GCST90001619	17	11457702	A	G	3596	-0.11	0.02	0.00	0.01	20.61
rs62068717	HLA DR+ T cell%T cell	ebi-a-GCST90001619	17	50420836	T	C	3596	-0.38	0.08	0.00	0.01	19.97
rs138213638	HLA DR+ T cell%T cell	ebi-a-GCST90001619	18	55985546	C	T	3596	1.48	0.31	0.00	0.01	23.35
rs140410174	HLA DR+ T cell%T cell	ebi-a-GCST90001619	19	1671156	T	C	3596	-0.24	0.05	0.00	0.01	24.45
rs73030989	HLA DR+ T cell%T cell	ebi-a-GCST90001619	19	38996871	T	C	3596	1.73	0.34	0.00	0.01	25.79
rs67501806	cell%lympho	ebi-a-GCST90001620	2	158891420	A	T	3596	-0.15	0.03	0.00	0.01	20.42
rs79178843	cvte HLA DR+ T cell%lympho	ebi-a-GCST90001620	2	13251154	A	G	3596	0.55	0.12	0.00	0.01	21.62
rs116797692	cvte HLA DR+ T cell%lympho	ebi-a-GCST90001620	2	158854583	A	G	3596	-0.32	0.07	0.00	0.01	19.77

rs143916977	HLA DR+ T cell%lympho	ebi-a-GCST90001620	3	33852454	C	A	3596	-1.27	0.28	0.00	0.01	19.87
rs148323639	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	4	27183687	A	G	3596	0.30	0.07	0.00	0.01	20.83
rs68174286	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	6	32503204	T	C	3596	0.27	0.04	0.00	0.01	37.17
rs10244964	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	7	46432552	T	G	3596	-1.45	0.31	0.00	0.01	21.63
rs76997602	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	7	115451309	G	A	3596	-0.40	0.09	0.00	0.01	21.49
rs146309290	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	8	11854977	C	T	3596	-0.72	0.16	0.00	0.01	21.72
rs144674286	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	9	101028704	A	G	3596	0.25	0.05	0.00	0.01	24.31
rs7032773	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	9	117645562	T	C	3596	-0.16	0.02	0.00	0.01	38.83
rs7088079	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	10	3066899	A	G	3596	-0.18	0.04	0.00	0.01	19.98
rs10787670	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	10	118187405	C	T	3596	-0.19	0.04	0.00	0.01	20.58
rs10788105	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	10	122390777	A	G	3596	0.24	0.05	0.00	0.01	23.91
rs117014352	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	10	76784567	T	C	3596	-1.01	0.21	0.00	0.01	23.30
rs542160	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	11	107676543	T	C	3596	-0.11	0.02	0.00	0.01	21.48
rs7294683	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	12	126542791	G	A	3596	0.11	0.02	0.00	0.01	19.88
rs1863851	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	12	11396335	A	G	3596	0.41	0.09	0.00	0.01	19.63
rs11054779	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	12	12457054	T	G	3596	0.32	0.06	0.00	0.01	24.30
rs506151	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	13	110882752	T	C	3596	-0.38	0.08	0.00	0.01	20.19
rs9526689	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	13	51299267	A	G	3596	0.50	0.11	0.00	0.01	21.18
rs2414178	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	15	53001538	C	T	3596	-0.13	0.03	0.00	0.01	20.45
rs11070458	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	15	45771751	T	C	3596	-0.55	0.12	0.00	0.01	19.56
rs3087456	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	16	10970902	A	G	3596	-0.47	0.03	0.00	0.08	321.10
rs62029480	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	16	10651993	T	C	3596	0.44	0.08	0.00	0.01	32.79
rs55724950	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	16	10993712	A	G	3596	-0.26	0.05	0.00	0.01	30.80
rs1091849	cyte HLA DR+ T cell%lympho	ebi-a-GCST90001620	16	10829280	G	A	3596	-0.13	0.02	0.00	0.01	28.11

rs73030989	HLA DR+ T cell%lympho cyte	ebi-a-GCST90001620	19	38996871	T	C	3596	1.62	0.35	0.00	0.01	21.40
rs140410174	HLA DR+ T cell%lympho cyte	ebi-a-GCST90001620	19	1671156	T	C	3596	-0.24	0.05	0.00	0.01	24.00
rs112708092	NKT AC	ebi-a-GCST90001621	2	236468046	T	C	3653	-0.17	0.04	0.00	0.01	19.73
rs72960531	NKT AC	ebi-a-GCST90001621	3	127072857	T	C	3653	-0.49	0.11	0.00	0.01	20.28
rs35164053	NKT AC	ebi-a-GCST90001621	4	110173445	A	G	3653	-0.52	0.11	0.00	0.01	24.02
rs114574090	NKT AC	ebi-a-GCST90001621	4	46796462	T	C	3653	0.56	0.12	0.00	0.01	22.10
rs353293	NKT AC	ebi-a-GCST90001621	5	148807226	T	C	3653	-0.12	0.02	0.00	0.01	21.40
rs16868916	NKT AC	ebi-a-GCST90001621	5	39445552	C	A	3653	0.86	0.18	0.00	0.01	22.01
rs75494211	NKT AC	ebi-a-GCST90001621	6	101911859	A	G	3653	0.47	0.07	0.00	0.01	45.03
rs511427	NKT AC	ebi-a-GCST90001621	6	100143688	A	G	3653	-0.19	0.04	0.00	0.01	24.16
rs139249541	NKT AC	ebi-a-GCST90001621	6	102294761	G	A	3653	0.46	0.07	0.00	0.01	40.28
rs117047316	NKT AC	ebi-a-GCST90001621	6	100317414	T	C	3653	0.29	0.06	0.00	0.01	23.85
rs115536607	NKT AC	ebi-a-GCST90001621	6	101417409	T	C	3653	0.26	0.06	0.00	0.01	22.86
rs2041561	NKT AC	ebi-a-GCST90001621	7	52580478	C	G	3653	0.15	0.03	0.00	0.01	22.58
rs640339	NKT AC	ebi-a-GCST90001621	7	132413024	T	C	3653	0.12	0.03	0.00	0.01	22.03
rs10256019	NKT AC	ebi-a-GCST90001621	7	12934776	C	T	3653	0.18	0.04	0.00	0.01	19.92
rs7819099	NKT AC	ebi-a-GCST90001621	8	144992862	G	A	3653	0.14	0.02	0.00	0.01	30.94
rs145191094	NKT AC	ebi-a-GCST90001621	8	25541959	G	T	3653	0.23	0.05	0.00	0.01	20.38
rs2781107	NKT AC	ebi-a-GCST90001621	9	122546242	C	T	3653	-0.11	0.02	0.00	0.01	20.18
rs10972866	NKT AC	ebi-a-GCST90001621	9	36351694	A	G	3653	-0.11	0.02	0.00	0.01	20.52
rs113127552	NKT AC	ebi-a-GCST90001621	10	88396393	C	T	3653	-0.20	0.04	0.00	0.01	20.84
rs10750486	NKT AC	ebi-a-GCST90001621	11	131463916	A	G	3653	0.12	0.03	0.00	0.01	21.22
rs12792298	NKT AC	ebi-a-GCST90001621	11	112189184	T	C	3653	-0.35	0.07	0.00	0.01	27.67
rs78268116	NKT AC	ebi-a-GCST90001621	11	112705025	T	C	3653	-0.41	0.04	0.00	0.03	109.48
rs12224032	NKT AC	ebi-a-GCST90001621	11	112914680	G	C	3653	0.17	0.03	0.00	0.01	30.96
rs10765907	NKT AC	ebi-a-GCST90001621	11	2306683	C	T	3653	-0.12	0.03	0.00	0.01	21.81
rs73122728	NKT AC	ebi-a-GCST90001621	12	61383255	T	A	3653	0.73	0.16	0.00	0.01	20.62
rs73109444	NKT AC	ebi-a-GCST90001621	12	47944164	T	C	3653	0.38	0.08	0.00	0.01	25.65
rs12817873	NKT AC	ebi-a-GCST90001621	12	71518033	A	G	3653	0.12	0.03	0.00	0.01	19.66
rs79649529	NKT AC	ebi-a-GCST90001621	13	109580017	A	G	3653	-0.35	0.07	0.00	0.01	21.28
rs12895031	NKT AC	ebi-a-GCST90001621	14	99846398	T	C	3653	-0.21	0.04	0.00	0.01	25.89
rs72717679	NKT AC	ebi-a-GCST90001621	15	33137651	G	T	3653	0.69	0.15	0.00	0.01	21.61
rs11652532	NKT AC	ebi-a-GCST90001621	17	33769883	A	G	3653	-0.18	0.03	0.00	0.01	29.18
rs9916629	NKT AC	ebi-a-GCST90001621	17	33796260	C	T	3653	0.15	0.02	0.00	0.01	34.72
rs7232006	NKT AC	ebi-a-GCST90001621	18	61860478	T	C	3653	0.38	0.09	0.00	0.01	20.01
rs8104714	NKT AC	ebi-a-GCST90001621	19	32872109	C	A	3653	0.13	0.03	0.00	0.01	21.30
rs9983338	NKT AC	ebi-a-GCST90001621	21	29982668	T	C	3653	-0.46	0.09	0.00	0.01	24.42
rs112565020	NKT %T cell	ebi-a-GCST90001622	2	153816776	T	C	3669	-0.31	0.07	0.00	0.01	20.58
rs77846504	NKT %T cell	ebi-a-GCST90001622	2	137558728	A	G	3669	-0.21	0.04	0.00	0.01	21.20
rs186023757	NKT %T cell	ebi-a-GCST90001622	2	208244512	T	C	3669	-0.50	0.11	0.00	0.01	22.32
rs149977848	NKT %T cell	ebi-a-GCST90001622	2	242038726	A	G	3669	0.44	0.10	0.00	0.01	19.96
rs2886726	NKT %T cell	ebi-a-GCST90001622	3	20997419	G	A	3669	-0.14	0.03	0.00	0.01	21.73
rs115536607	NKT %T cell	ebi-a-GCST90001622	6	101417409	T	C	3669	0.33	0.06	0.00	0.01	34.81
rs115889733	NKT %T cell	ebi-a-GCST90001622	6	44207850	A	G	3669	0.21	0.05	0.00	0.01	19.66
rs201024668	NKT %T cell	ebi-a-GCST90001622	6	98118004	T	A	3669	0.26	0.05	0.00	0.01	25.87
rs117147408	NKT %T cell	ebi-a-GCST90001622	6	101980039	G	A	3669	0.61	0.08	0.00	0.02	61.61

rs79251210	NKT %T cell	ebi-a-GCST90001622	6	100468602	A	G	3669	0.42	0.07	0.00	0.01	40.00
rs9488834	NKT %T cell	ebi-a-GCST90001622	6	97889936	A	G	3669	0.37	0.06	0.00	0.01	39.34
rs2041561	NKT %T cell	ebi-a-GCST90001622	7	52580478	C	G	3669	0.16	0.03	0.00	0.01	23.50
rs17158356	NKT %T cell	ebi-a-GCST90001622	7	35204550	A	G	3669	0.16	0.03	0.00	0.01	21.29
rs7819099	NKT %T cell	ebi-a-GCST90001622	8	144992862	G	A	3669	0.15	0.02	0.00	0.01	35.17
rs3012770	NKT %T cell	ebi-a-GCST90001622	9	134699760	A	G	3669	-0.12	0.03	0.00	0.01	22.45
rs4918328	NKT %T cell	ebi-a-GCST90001622	10	109648240	A	G	3669	0.16	0.03	0.00	0.01	20.24
rs10765907	NKT %T cell	ebi-a-GCST90001622	11	2306683	C	T	3669	-0.12	0.03	0.00	0.01	21.78
rs77738700	NKT %T cell	ebi-a-GCST90001622	11	112751407	A	G	3669	-0.44	0.04	0.00	0.03	120.91
rs12224032	NKT %T cell	ebi-a-GCST90001622	11	112914680	G	C	3669	0.17	0.03	0.00	0.01	30.58
rs10750486	NKT %T cell	ebi-a-GCST90001622	11	131463916	A	G	3669	0.12	0.03	0.00	0.01	21.16
rs12792298	NKT %T cell	ebi-a-GCST90001622	11	112189184	T	C	3669	-0.36	0.07	0.00	0.01	28.70
rs73122728	NKT %T cell	ebi-a-GCST90001622	12	61383255	T	A	3669	0.79	0.16	0.00	0.01	24.19
rs73109444	NKT %T cell	ebi-a-GCST90001622	12	47944164	T	C	3669	0.34	0.08	0.00	0.01	20.24
rs74426495	NKT %T cell	ebi-a-GCST90001622	12	89421923	C	T	3669	-1.45	0.32	0.00	0.01	20.30
rs79649529	NKT %T cell	ebi-a-GCST90001622	13	109580017	A	G	3669	-0.33	0.07	0.00	0.01	19.63
rs16958131	NKT %T cell	ebi-a-GCST90001622	13	101667739	C	G	3669	-0.49	0.10	0.00	0.01	23.09
rs906930	NKT %T cell	ebi-a-GCST90001622	14	99822918	T	G	3669	-0.19	0.04	0.00	0.01	23.10
rs72717679	NKT %T cell	ebi-a-GCST90001622	15	33137651	G	T	3669	0.68	0.15	0.00	0.01	21.21
rs7225505	NKT %T cell	ebi-a-GCST90001622	17	7861810	G	A	3669	-0.12	0.03	0.00	0.01	21.64
rs7218011	NKT %T cell	ebi-a-GCST90001622	17	33773022	G	A	3669	-0.16	0.03	0.00	0.01	22.26
rs9912354	NKT %T cell	ebi-a-GCST90001622	17	33805730	T	C	3669	0.12	0.02	0.00	0.01	23.53
rs75659919	NKT %T cell	ebi-a-GCST90001622	18	23907745	T	C	3669	0.14	0.03	0.00	0.01	22.36
rs6141832	NKT %T cell	ebi-a-GCST90001622	20	31448648	G	A	3669	0.50	0.11	0.00	0.01	20.00
rs2286306	NKT %T cell	ebi-a-GCST90001622	20	52558849	G	A	3669	-0.13	0.03	0.00	0.01	20.81
rs9983338	NKT %T cell	ebi-a-GCST90001622	21	29982668	T	C	3669	-0.43	0.09	0.00	0.01	22.54
rs35203503	NKT %lymphocyte	ebi-a-GCST90001623	1	23087573	C	T	3669	0.12	0.03	0.00	0.01	19.93
rs149977848	NKT %lymphocyte	ebi-a-GCST90001623	2	242038726	A	G	3669	0.45	0.10	0.00	0.01	20.49
rs186023757	NKT %lymphocyte	ebi-a-GCST90001623	2	208244512	T	C	3669	-0.49	0.11	0.00	0.01	21.24
rs77846504	NKT %lymphocyte	ebi-a-GCST90001623	2	137558728	A	G	3669	-0.21	0.05	0.00	0.01	21.46
rs2886726	NKT %lymphocyte	ebi-a-GCST90001623	3	20997419	G	A	3669	-0.14	0.03	0.00	0.01	20.49
rs79251210	NKT %lymphocyte	ebi-a-GCST90001623	6	100468602	A	G	3669	0.40	0.07	0.00	0.01	36.35
rs117147408	NKT %lymphocyte	ebi-a-GCST90001623	6	101980039	G	A	3669	0.57	0.08	0.00	0.01	53.42
rs201024668	NKT %lymphocyte	ebi-a-GCST90001623	6	98118004	T	A	3669	0.26	0.05	0.00	0.01	24.91
rs115536607	NKT %lymphocyte	ebi-a-GCST90001623	6	101417409	T	C	3669	0.31	0.06	0.00	0.01	31.40
rs9488834	NKT %lymphocyte	ebi-a-GCST90001623	6	97889936	A	G	3669	0.36	0.06	0.00	0.01	35.95
rs115889733	NKT %lymphocyte	ebi-a-GCST90001623	6	44207850	A	G	3669	0.21	0.05	0.00	0.01	20.29
rs2041561	NKT %lymphocyte	ebi-a-GCST90001623	7	52580478	C	G	3669	0.16	0.03	0.00	0.01	22.72
rs17158356	NKT %lymphocyte	ebi-a-GCST90001623	7	35204550	A	G	3669	0.15	0.03	0.00	0.01	19.63
rs7819099	NKT %lymphocyte	ebi-a-GCST90001623	8	144992862	G	A	3669	0.15	0.03	0.00	0.01	35.13
rs2781107	NKT %lymphocyte	ebi-a-GCST90001623	9	122546242	C	T	3669	-0.11	0.03	0.00	0.01	20.77
rs3012770	NKT %lymphocyte	ebi-a-GCST90001623	9	134699760	A	G	3669	-0.12	0.03	0.00	0.01	22.11
rs4918328	NKT %lymphocyte	ebi-a-GCST90001623	10	109648240	A	G	3669	0.16	0.03	0.00	0.01	20.24

rs12224032	NKT %lymphocyte	ebi-a-GCST90001623	11	112914680	G	C	3669	0.17	0.03	0.00	0.01	28.69
rs10765907	NKT %lymphocyte	ebi-a-GCST90001623	11	2306683	C	T	3669	-0.12	0.03	0.00	0.01	23.05
rs10750486	NKT %lymphocyte	ebi-a-GCST90001623	11	131463916	A	G	3669	0.12	0.03	0.00	0.01	20.50
rs12792298	NKT %lymphocyte	ebi-a-GCST90001623	11	112189184	T	C	3669	-0.34	0.07	0.00	0.01	26.23
rs77738700	NKT %lymphocyte	ebi-a-GCST90001623	11	112751407	A	G	3669	-0.42	0.04	0.00	0.03	111.87
rs73109444	NKT %lymphocyte	ebi-a-GCST90001623	12	47944164	T	C	3669	0.36	0.08	0.00	0.01	22.72
rs74426495	NKT %lymphocyte	ebi-a-GCST90001623	12	89421923	C	T	3669	-1.44	0.32	0.00	0.01	19.76
rs73122728	NKT %lymphocyte	ebi-a-GCST90001623	12	61383255	T	A	3669	0.81	0.16	0.00	0.01	25.14
rs16958131	NKT %lymphocyte	ebi-a-GCST90001623	13	101667739	C	G	3669	-0.48	0.10	0.00	0.01	22.19
rs906930	NKT %lymphocyte	ebi-a-GCST90001623	14	99822918	T	G	3669	-0.19	0.04	0.00	0.01	22.17
rs72717679	NKT %lymphocyte	ebi-a-GCST90001623	15	33137651	G	T	3669	0.69	0.15	0.00	0.01	21.22
rs7225505	NKT %lymphocyte	ebi-a-GCST90001623	17	7861810	G	A	3669	-0.12	0.03	0.00	0.01	19.84
rs9912354	NKT %lymphocyte	ebi-a-GCST90001623	17	33805730	T	C	3669	0.14	0.03	0.00	0.01	33.17
rs7218011	NKT %lymphocyte	ebi-a-GCST90001623	17	33773022	G	A	3669	-0.19	0.03	0.00	0.01	30.34
rs75659919	NKT %lymphocyte	ebi-a-GCST90001623	18	23907745	T	C	3669	0.14	0.03	0.00	0.01	21.71
rs7254941	NKT %lymphocyte	ebi-a-GCST90001623	19	9077196	T	C	3669	-0.23	0.05	0.00	0.01	19.98
rs2286306	NKT %lymphocyte	ebi-a-GCST90001623	20	52558849	G	A	3669	-0.13	0.03	0.00	0.01	20.51
rs9983338	NKT %lymphocyte	ebi-a-GCST90001623	21	29982668	T	C	3669	-0.44	0.09	0.00	0.01	22.80
rs13055438	NKT %lymphocyte	ebi-a-GCST90001623	22	45374249	C	T	3669	-0.21	0.05	0.00	0.01	19.66
rs2064600	HLA DR+ CD4+ AC	ebi-a-GCST90001624	1	1220504	A	G	3579	-0.35	0.07	0.00	0.01	23.18
rs62166973	HLA DR+ CD4+ AC	ebi-a-GCST90001624	2	121359390	A	G	3579	-0.44	0.10	0.00	0.01	20.31
rs6767083	HLA DR+ CD4+ AC	ebi-a-GCST90001624	3	179838990	A	C	3579	0.13	0.03	0.00	0.01	22.02
rs55849757	HLA DR+ CD4+ AC	ebi-a-GCST90001624	3	75122371	T	C	3579	-0.11	0.02	0.00	0.01	21.49
rs17824379	HLA DR+ CD4+ AC	ebi-a-GCST90001624	3	5810961	G	A	3579	-0.98	0.22	0.00	0.01	19.63
rs6891593	HLA DR+ CD4+ AC	ebi-a-GCST90001624	5	155005574	A	G	3579	0.35	0.08	0.00	0.01	20.67
rs3134968	HLA DR+ CD4+ AC	ebi-a-GCST90001624	6	32674059	G	A	3579	0.37	0.08	0.00	0.01	22.45
rs17198888	HLA DR+ CD4+ AC	ebi-a-GCST90001624	6	31266015	G	A	3579	-0.23	0.05	0.00	0.01	22.73
rs62417423	HLA DR+ CD4+ AC	ebi-a-GCST90001624	6	114211974	G	A	3579	-0.14	0.03	0.00	0.01	20.65
rs79769908	HLA DR+ CD4+ AC	ebi-a-GCST90001624	7	70660195	G	T	3579	-0.18	0.04	0.00	0.01	19.57
rs2977197	HLA DR+ CD4+ AC	ebi-a-GCST90001624	8	1690475	C	G	3579	-0.17	0.04	0.00	0.01	20.24
rs1322067	HLA DR+ CD4+ AC	ebi-a-GCST90001624	9	117660933	G	A	3579	-0.15	0.03	0.00	0.01	34.41
rs10787670	HLA DR+ CD4+ AC	ebi-a-GCST90001624	10	118187405	C	T	3579	-0.20	0.04	0.00	0.01	20.49
rs78229126	HLA DR+ CD4+ AC	ebi-a-GCST90001624	10	11713685	A	C	3579	0.16	0.03	0.00	0.01	21.74
rs11251832	HLA DR+ CD4+ AC	ebi-a-GCST90001624	10	3327039	A	G	3579	0.19	0.04	0.00	0.01	20.40
rs10845930	HLA DR+ CD4+ AC	ebi-a-GCST90001624	12	14382617	C	T	3579	0.16	0.03	0.00	0.01	20.54
rs10148838	HLA DR+ CD4+ AC	ebi-a-GCST90001624	14	20261108	C	G	3579	-0.25	0.05	0.00	0.01	24.52
rs7150202	HLA DR+ CD4+ AC	ebi-a-GCST90001624	14	80335426	T	A	3579	0.15	0.03	0.00	0.01	21.66

rs117110835	HLA DR+ CD4+ AC	ebi-a-GCST90001624	15	45945654	A	G	3579	-0.78	0.18	0.00	0.01	19.69
rs142283210	HLA DR+ CD4+ AC	ebi-a-GCST90001624	15	80129450	G	T	3579	-2.59	0.57	0.00	0.01	20.58
rs7405251	HLA DR+ CD4+ AC	ebi-a-GCST90001624	16	10829272	G	T	3579	-0.12	0.02	0.00	0.01	21.65
rs3087456	HLA DR+ CD4+ AC	ebi-a-GCST90001624	16	10970902	A	G	3579	-0.29	0.03	0.00	0.03	110.96
rs609755	HLA DR+ CD4+ AC	ebi-a-GCST90001624	19	56601692	G	A	3579	1.27	0.29	0.00	0.01	19.67
rs9613063	HLA DR+ CD4+ AC	ebi-a-GCST90001624	22	26382004	T	C	3579	-0.16	0.03	0.00	0.01	26.69
rs12166155	HLA DR+ CD4+ AC	ebi-a-GCST90001624	22	44999166	G	C	3579	0.11	0.03	0.00	0.01	21.00
rs80226392	HLA DR+ CD4+ %T	ebi-a-GCST90001625	3	8304753	G	A	3595	-0.14	0.03	0.00	0.01	20.58
rs116253486	HLA DR+ CD4+ %T	ebi-a-GCST90001625	3	33925087	C	T	3595	-1.18	0.27	0.00	0.01	19.61
rs10052603	HLA DR+ CD4+ %T	ebi-a-GCST90001625	5	10837029	G	A	3595	-0.10	0.02	0.00	0.01	21.63
rs4867947	HLA DR+ CD4+ %T	ebi-a-GCST90001625	5	169629403	A	C	3595	0.19	0.04	0.00	0.01	19.75
rs1832967	HLA DR+ CD4+ %T	ebi-a-GCST90001625	6	66862504	A	C	3595	-0.12	0.03	0.00	0.01	21.73
rs3104415	HLA DR+ CD4+ %T	ebi-a-GCST90001625	6	32582577	C	A	3595	0.13	0.03	0.00	0.01	23.54
rs150440365	HLA DR+ CD4+ %T	ebi-a-GCST90001625	8	104592705	G	A	3595	-0.53	0.12	0.00	0.01	20.69
rs567806839	HLA DR+ CD4+ %T	ebi-a-GCST90001625	8	26422292	T	A	3595	-0.26	0.06	0.00	0.01	20.71
rs117868023	HLA DR+ CD4+ %T	ebi-a-GCST90001625	8	103550528	A	G	3595	-0.43	0.09	0.00	0.01	20.45
rs79563199	HLA DR+ CD4+ %T	ebi-a-GCST90001625	9	130974142	A	C	3595	-0.14	0.03	0.00	0.01	21.10
rs7032773	HLA DR+ CD4+ %T	ebi-a-GCST90001625	9	117645562	T	C	3595	-0.12	0.02	0.00	0.01	27.62
rs7088079	HLA DR+ CD4+ %T	ebi-a-GCST90001625	10	3066899	A	G	3595	-0.17	0.04	0.00	0.01	21.24
rs117816082	HLA DR+ CD4+ %T	ebi-a-GCST90001625	10	27360466	G	A	3595	0.58	0.13	0.00	0.01	19.66
rs146016042	HLA DR+ CD4+ %T	ebi-a-GCST90001625	11	97693585	A	G	3595	-0.52	0.12	0.00	0.01	20.51
rs73062743	HLA DR+ CD4+ %T	ebi-a-GCST90001625	12	10511923	T	C	3595	0.15	0.03	0.00	0.01	20.03
rs7972178	HLA DR+ CD4+ %T	ebi-a-GCST90001625	12	14354060	T	G	3595	0.11	0.02	0.00	0.01	23.92
rs4906573	HLA DR+ CD4+ %T	ebi-a-GCST90001625	14	45842287	C	T	3595	0.11	0.03	0.00	0.01	19.67
rs117110835	HLA DR+ CD4+ %T	ebi-a-GCST90001625	15	45945654	A	G	3595	-0.71	0.16	0.00	0.01	20.06
rs646262	HLA DR+ CD4+ %T	ebi-a-GCST90001625	15	29720356	G	A	3595	0.11	0.02	0.00	0.01	20.54
rs8055544	HLA DR+ CD4+ %T	ebi-a-GCST90001625	16	11091561	T	G	3595	0.11	0.02	0.00	0.01	20.45
rs11641185	HLA DR+ CD4+ %T	ebi-a-GCST90001625	16	10986596	T	C	3595	-0.30	0.03	0.00	0.04	141.62
rs7202106	HLA DR+ CD4+ %T	ebi-a-GCST90001625	16	84375706	T	C	3595	0.12	0.03	0.00	0.01	20.33
rs140410174	HLA DR+ CD4+ %T	ebi-a-GCST90001625	19	1671156	T	C	3595	-0.21	0.05	0.00	0.01	20.65
rs12609975	HLA DR+ CD4+ %T	ebi-a-GCST90001625	19	39400504	G	A	3595	-0.11	0.02	0.00	0.01	22.27
rs6071096	HLA DR+ CD4+ %T	ebi-a-GCST90001625	20	58624500	C	T	3595	-0.11	0.02	0.00	0.01	22.24
rs11090233	HLA DR+ CD4+ %T	ebi-a-GCST90001625	22	23690325	A	G	3595	-0.10	0.02	0.00	0.01	19.92
rs149004280	HLA DR+ CD4+ %T	ebi-a-GCST90001625	22	48226137	T	C	3595	-0.56	0.12	0.00	0.01	22.08
rs116253486	CD4+ %lymphocyte	ebi-a-GCST90001626	3	33925087	C	T	3595	-1.26	0.27	0.00	0.01	21.29
rs1608073	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	3	179820505	T	C	3595	-0.10	0.02	0.00	0.01	20.74

rs4867947	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	5	169629403	A	C	3595	0.20	0.04	0.00	0.01	21.13
rs12716076	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	5	10838090	G	A	3595	-0.10	0.02	0.00	0.01	19.89
rs3104414	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	6	32582612	A	G	3595	0.14	0.03	0.00	0.01	23.45
rs150440365	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	8	104592705	G	A	3595	-0.55	0.12	0.00	0.01	20.81
rs112418658	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	8	26844259	C	T	3595	-0.23	0.05	0.00	0.01	19.88
rs117868023	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	8	103550528	A	G	3595	-0.44	0.10	0.00	0.01	20.62
rs7032773	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	9	117645562	T	C	3595	-0.13	0.02	0.00	0.01	32.34
rs7088079	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	10	3066899	A	G	3595	-0.17	0.04	0.00	0.01	20.44
rs7972178	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	12	14354060	T	G	3595	0.11	0.02	0.00	0.01	23.47
rs7964565	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	12	71660112	A	T	3595	0.11	0.02	0.00	0.01	19.75
rs4906573	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	14	45842287	C	T	3595	0.12	0.03	0.00	0.01	21.73
rs7202106	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	16	84375706	T	C	3595	0.13	0.03	0.00	0.01	22.17
rs3087456	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	16	10970902	A	G	3595	-0.31	0.03	0.00	0.04	148.93
rs539211	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	18	20039728	C	T	3595	-0.20	0.05	0.00	0.01	19.94
rs12609975	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	19	39400504	G	A	3595	-0.12	0.02	0.00	0.01	22.91
rs140410174	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	19	1671156	T	C	3595	-0.22	0.05	0.00	0.01	21.73
rs12610775	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	19	53134203	G	A	3595	-0.11	0.02	0.00	0.01	22.31
rs6071096	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	20	58624500	C	T	3595	-0.10	0.02	0.00	0.01	19.76
rs149004280	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	22	48226137	T	C	3595	-0.56	0.12	0.00	0.01	21.02
rs11090233	HLA DR+ CD4+ %lymphocyte	ebi-a-GCST90001626	22	23690325	A	G	3595	-0.11	0.02	0.00	0.01	23.45
rs771140	CD8br AC HLA DR+	ebi-a-GCST90001627	1	34612610	G	C	3579	-0.14	0.03	0.00	0.01	21.75
rs6686155	CD8br AC HLA DR+	ebi-a-GCST90001627	1	120406847	A	C	3579	0.23	0.05	0.00	0.01	23.57
rs12029484	CD8br AC HLA DR+	ebi-a-GCST90001627	1	230111146	G	A	3579	-0.23	0.05	0.00	0.01	24.04
rs61500216	CD8br AC HLA DR+	ebi-a-GCST90001627	1	168428587	C	T	3579	0.22	0.05	0.00	0.01	21.28
rs78744340	CD8br AC HLA DR+	ebi-a-GCST90001627	2	24474853	A	G	3579	-0.44	0.10	0.00	0.01	20.98
rs57068864	CD8br AC HLA DR+	ebi-a-GCST90001627	3	29043472	A	G	3579	0.20	0.04	0.00	0.01	20.29
rs17286630	CD8br AC HLA DR+	ebi-a-GCST90001627	5	58125959	G	A	3579	-0.33	0.07	0.00	0.01	23.18

rs11153123	HLA DR+ CD8br AC	ebi-a-GCST90001627	6	109038333	G	A	3579	-0.13	0.03	0.00	0.01	19.91
rs78648104	HLA DR+ CD8br AC	ebi-a-GCST90001627	6	50683009	C	T	3579	-0.15	0.03	0.00	0.01	19.80
rs9378213	HLA DR+ CD8br AC	ebi-a-GCST90001627	6	32448398	G	T	3579	0.24	0.03	0.00	0.02	61.69
rs79684162	HLA DR+ CD8br AC	ebi-a-GCST90001627	6	142661594	T	C	3579	0.47	0.10	0.00	0.01	23.22
rs2516465	HLA DR+ CD8br AC	ebi-a-GCST90001627	6	31414906	T	G	3579	0.16	0.03	0.00	0.01	26.08
rs76997602	HLA DR+ CD8br AC	ebi-a-GCST90001627	7	115451309	G	A	3579	-0.42	0.09	0.00	0.01	21.49
rs75495211	HLA DR+ CD8br AC	ebi-a-GCST90001627	7	114787625	T	G	3579	-0.30	0.07	0.00	0.01	20.27
rs74743779	HLA DR+ CD8br AC	ebi-a-GCST90001627	8	103349435	T	C	3579	-0.21	0.05	0.00	0.01	20.18
rs138678763	HLA DR+ CD8br AC	ebi-a-GCST90001627	8	11817727	C	T	3579	-0.88	0.17	0.00	0.01	26.59
rs2181036	HLA DR+ CD8br AC	ebi-a-GCST90001627	9	117649136	C	T	3579	-0.14	0.03	0.00	0.01	30.72
rs2808067	HLA DR+ CD8br AC	ebi-a-GCST90001627	10	32045932	C	T	3579	0.12	0.03	0.00	0.01	22.67
rs11197647	HLA DR+ CD8br AC	ebi-a-GCST90001627	10	118142066	T	G	3579	0.24	0.05	0.00	0.01	26.89
rs567794	HLA DR+ CD8br AC	ebi-a-GCST90001627	11	107664900	A	G	3579	-0.12	0.02	0.00	0.01	23.68
rs73365443	HLA DR+ CD8br AC	ebi-a-GCST90001627	12	85019560	A	G	3579	0.15	0.03	0.00	0.01	23.91
rs75799568	HLA DR+ CD8br AC	ebi-a-GCST90001627	13	50104582	T	C	3579	1.18	0.26	0.00	0.01	21.12
rs506151	HLA DR+ CD8br AC	ebi-a-GCST90001627	13	110882752	T	C	3579	-0.42	0.09	0.00	0.01	22.42
rs59231583	HLA DR+ CD8br AC	ebi-a-GCST90001627	14	96082974	T	G	3579	0.12	0.03	0.00	0.01	20.01
rs75913581	HLA DR+ CD8br AC	ebi-a-GCST90001627	14	100653131	A	G	3579	0.11	0.02	0.00	0.01	20.96
rs10152591	HLA DR+ CD8br AC	ebi-a-GCST90001627	15	70048157	C	A	3579	-0.23	0.05	0.00	0.01	20.55
rs1084560	HLA DR+ CD8br AC	ebi-a-GCST90001627	16	10824872	G	A	3579	-0.13	0.02	0.00	0.01	28.37
rs3087456	HLA DR+ CD8br AC	ebi-a-GCST90001627	16	10970902	A	G	3579	-0.43	0.03	0.00	0.06	237.56
rs112455120	HLA DR+ CD8br AC	ebi-a-GCST90001627	16	10380785	T	C	3579	0.35	0.07	0.00	0.01	24.48
rs72779785	HLA DR+ CD8br AC	ebi-a-GCST90001627	16	10569039	G	A	3579	-0.21	0.03	0.00	0.01	41.43
rs35669214	HLA DR+ CD8br AC	ebi-a-GCST90001627	17	71372662	C	T	3579	-0.12	0.03	0.00	0.01	19.76
rs138213638	HLA DR+ CD8br AC	ebi-a-GCST90001627	18	55985546	C	T	3579	1.50	0.33	0.00	0.01	20.34
rs76443179	HLA DR+ CD8br AC	ebi-a-GCST90001627	19	38669622	A	G	3579	1.51	0.34	0.00	0.01	20.23
rs117517764	HLA DR+ CD8br AC	ebi-a-GCST90001627	19	17485805	G	A	3579	0.19	0.04	0.00	0.01	20.25
rs78581629	HLA DR+ CD8br AC	ebi-a-GCST90001627	19	795371	A	G	3579	-0.19	0.04	0.00	0.01	20.97
rs112935806	CD8br %T cell	ebi-a-GCST90001628	1	182869895	A	G	3595	0.34	0.08	0.00	0.01	20.78
rs72757686	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	1	243409313	C	G	3595	1.34	0.29	0.00	0.01	20.63
rs771140	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	1	34612610	G	C	3595	-0.13	0.03	0.00	0.01	19.64
rs12029484	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	1	230111146	G	A	3595	-0.22	0.04	0.00	0.01	24.00
rs9378213	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	6	32448398	G	T	3595	0.20	0.03	0.00	0.01	43.98
rs78456529	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	7	131627162	T	C	3595	-0.16	0.03	0.00	0.01	21.51

rs6975360	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	7	82348481	G	A	3595	-0.13	0.03	0.00	0.01	20.90
rs78867731	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	8	107775474	T	A	3595	-0.22	0.05	0.00	0.01	20.18
rs138678763	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	8	11817727	C	T	3595	-0.81	0.16	0.00	0.01	23.84
rs75588949	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	9	113087414	T	A	3595	-0.19	0.04	0.00	0.01	19.74
rs1407309	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	9	117651780	A	G	3595	-0.13	0.03	0.00	0.01	28.49
rs7027771	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	9	101552955	C	T	3595	0.12	0.02	0.00	0.01	23.02
rs111509656	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	9	101005853	C	T	3595	0.36	0.08	0.00	0.01	21.91
rs11598687	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	10	76609571	C	G	3595	-1.02	0.21	0.00	0.01	22.96
rs79132531	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	11	107259543	G	A	3595	0.21	0.05	0.00	0.01	21.77
rs72998075	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	11	109402654	T	C	3595	-0.13	0.03	0.00	0.01	20.27
rs542160	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	11	107676543	T	C	3595	-0.13	0.02	0.00	0.01	29.99
rs11054779	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	12	12457054	T	G	3595	0.30	0.06	0.00	0.01	20.97
rs73365443	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	12	85019560	A	G	3595	0.13	0.03	0.00	0.01	21.52
rs506151	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	13	110882752	T	C	3595	-0.40	0.08	0.00	0.01	22.50
rs34287418	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	14	104939039	G	C	3595	-1.26	0.27	0.00	0.01	21.27
rs3087456	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	16	10970902	A	G	3595	-0.45	0.03	0.00	0.07	289.57
rs1091849	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	16	10829280	G	A	3595	-0.12	0.02	0.00	0.01	24.33
rs72779785	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	16	10569039	G	A	3595	-0.19	0.03	0.00	0.01	33.98
rs62029480	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	16	10651993	T	C	3595	0.42	0.08	0.00	0.01	28.47
rs112455120	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	16	10380785	T	C	3595	0.36	0.07	0.00	0.01	27.45
rs7195518	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	16	11485515	G	A	3595	0.54	0.12	0.00	0.01	20.75
rs138213638	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	18	55985546	C	T	3595	1.50	0.32	0.00	0.01	22.07
rs117517764	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	19	17485805	G	A	3595	0.18	0.04	0.00	0.01	20.48
rs76443179	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	19	38669622	A	G	3595	1.66	0.32	0.00	0.01	26.25

rs59556129	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	19	42107414	T	C	3595	0.29	0.07	0.00	0.01	19.65
rs6020784	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	20	49449929	G	A	3595	0.14	0.03	0.00	0.01	21.12
rs4920093	HLA DR+ CD8br %T cell	ebi-a-GCST90001628	21	43304155	G	A	3595	0.26	0.06	0.00	0.01	22.50
rs12029484	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	1	230111146	G	A	3595	-0.22	0.05	0.00	0.01	23.02
rs147143327	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	1	244492916	C	G	3595	-0.29	0.06	0.00	0.01	20.84
rs771140	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	1	34612610	G	C	3595	-0.13	0.03	0.00	0.01	20.28
rs9378213	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	6	32448398	G	T	3595	0.22	0.03	0.00	0.01	50.99
rs6975360	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	7	82348481	G	A	3595	-0.13	0.03	0.00	0.01	20.71
rs76997602	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	7	115451309	G	A	3595	-0.40	0.09	0.00	0.01	20.00
rs78456529	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	7	131627162	T	C	3595	-0.16	0.03	0.00	0.01	22.99
rs138678763	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	8	11817727	C	T	3595	-0.80	0.17	0.00	0.01	22.86
rs78867731	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	8	107775474	T	A	3595	-0.22	0.05	0.00	0.01	20.59
rs2146255	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	9	101567115	C	A	3595	-0.12	0.03	0.00	0.01	21.70
rs1407309	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	9	117651780	A	G	3595	-0.14	0.03	0.00	0.01	29.07
rs144674286	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	9	101028704	A	G	3595	0.25	0.05	0.00	0.01	23.22
rs11598687	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	10	76609571	C	G	3595	-1.03	0.22	0.00	0.01	22.61
rs1431485	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	10	118193216	C	T	3595	-0.20	0.04	0.00	0.01	21.44
rs542160	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	11	107676543	T	C	3595	-0.13	0.02	0.00	0.01	27.53
rs79132531	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	11	107259543	G	A	3595	0.21	0.05	0.00	0.01	20.52
rs73365443	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	12	85019560	A	G	3595	0.13	0.03	0.00	0.01	21.00
rs11054779	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	12	12457054	T	G	3595	0.31	0.07	0.00	0.01	22.39
rs506151	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	13	110882752	T	C	3595	-0.39	0.09	0.00	0.01	21.11
rs34287418	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	14	104939039	G	C	3595	-1.25	0.28	0.00	0.01	20.27
rs60923927	%lymphocyte CD8br	ebi-a-GCST90001629	16	10380869	A	T	3595	0.25	0.06	0.00	0.01	20.82

rs4527037	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	16	11518708	G	T	3595	0.12	0.02	0.00	0.01	23.03
rs112455120	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	16	10380785	T	C	3595	0.37	0.07	0.00	0.01	27.49
rs3087456	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	16	10970902	A	G	3595	-0.45	0.03	0.00	0.07	280.72
rs72779785	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	16	10569039	G	A	3595	-0.19	0.03	0.00	0.01	35.85
rs62029480	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	16	10651993	T	C	3595	0.43	0.08	0.00	0.01	29.06
rs117517764	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	19	17485805	G	A	3595	0.18	0.04	0.00	0.01	19.83
rs113162001	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	19	53321356	T	C	3595	0.17	0.04	0.00	0.01	20.08
rs78581629	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	19	795371	A	G	3595	-0.19	0.04	0.00	0.01	21.90
rs73030989	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	19	38996871	T	C	3595	1.70	0.36	0.00	0.01	22.24
rs6020784	HLA DR+ CD8br %lymphocyte	ebi-a-GCST90001629	20	49449929	G	A	3595	0.15	0.03	0.00	0.01	21.62
rs4920093	CD8br %lymphocyte	ebi-a-GCST90001629	21	43304155	G	A	3595	0.26	0.06	0.00	0.01	20.99
rs17448682	CD8br NKT AC	ebi-a-GCST90001630	1	15966713	T	C	3652	0.14	0.03	0.00	0.01	20.57
rs55699240	CD8br NKT AC	ebi-a-GCST90001630	2	113838725	C	G	3652	0.15	0.03	0.00	0.01	21.06
rs60553229	CD8br NKT AC	ebi-a-GCST90001630	3	183735909	A	G	3652	-1.54	0.32	0.00	0.01	23.09
rs4235317	CD8br NKT AC	ebi-a-GCST90001630	4	24439455	T	C	3652	-0.13	0.03	0.00	0.01	21.17
rs115889733	CD8br NKT AC	ebi-a-GCST90001630	6	44207850	A	G	3652	0.21	0.05	0.00	0.01	19.72
rs7756993	CD8br NKT AC	ebi-a-GCST90001630	6	31382133	C	T	3652	-0.13	0.03	0.00	0.01	21.91
rs9269109	CD8br NKT AC	ebi-a-GCST90001630	6	32443266	C	T	3652	0.17	0.03	0.00	0.01	30.64
rs593435	CD8br NKT AC	ebi-a-GCST90001630	7	132417404	T	C	3652	0.11	0.02	0.00	0.01	20.18
rs34575510	CD8br NKT AC	ebi-a-GCST90001630	7	23209757	T	C	3652	0.27	0.06	0.00	0.01	22.63
rs2041561	CD8br NKT AC	ebi-a-GCST90001630	7	52580478	C	G	3652	0.15	0.03	0.00	0.01	22.17
rs7003580	CD8br NKT AC	ebi-a-GCST90001630	8	145007534	T	C	3652	0.12	0.02	0.00	0.01	21.94
rs78099351	CD8br NKT AC	ebi-a-GCST90001630	9	10082863	C	A	3652	0.35	0.08	0.00	0.01	20.76
rs4745010	CD8br NKT AC	ebi-a-GCST90001630	9	73024602	G	A	3652	0.13	0.03	0.00	0.01	23.42
rs1325907	CD8br NKT AC	ebi-a-GCST90001630	10	90237398	A	G	3652	-0.13	0.03	0.00	0.01	25.44
rs12792298	CD8br NKT AC	ebi-a-GCST90001630	11	112189184	T	C	3652	-0.32	0.07	0.00	0.01	22.38
rs78268116	CD8br NKT AC	ebi-a-GCST90001630	11	112705025	T	C	3652	-0.40	0.04	0.00	0.03	103.78
rs12224032	CD8br NKT AC	ebi-a-GCST90001630	11	112914680	G	C	3652	0.15	0.03	0.00	0.01	23.00
rs144156455	CD8br NKT AC	ebi-a-GCST90001630	11	70988762	C	T	3652	0.32	0.07	0.00	0.01	22.23
rs2074023	CD8br NKT AC	ebi-a-GCST90001630	11	2325581	T	C	3652	-0.12	0.02	0.00	0.01	24.75
rs73109444	CD8br NKT AC	ebi-a-GCST90001630	12	47944164	T	C	3652	0.34	0.08	0.00	0.01	20.54

rs12422853	CD8br NKT AC	ebi-a-GCST90001630	12	105063882	A	G	3652	0.11	0.02	0.00	0.01	19.98
rs61944019	CD8br NKT AC	ebi-a-GCST90001630	13	27907115	A	G	3652	-0.74	0.16	0.00	0.01	20.56
rs117122100	CD8br NKT AC	ebi-a-GCST90001630	13	109403845	T	C	3652	-0.47	0.10	0.00	0.01	20.33
rs11658693	CD8br NKT AC	ebi-a-GCST90001630	17	33800249	G	A	3652	-0.20	0.04	0.00	0.01	26.44
rs12940345	CD8br NKT AC	ebi-a-GCST90001630	17	74612462	T	C	3652	0.11	0.02	0.00	0.01	21.16
rs1008425	CD8br NKT AC	ebi-a-GCST90001630	19	32852145	G	A	3652	0.12	0.03	0.00	0.01	19.93
rs1077381	CD8br NKT AC	ebi-a-GCST90001630	20	59623849	T	C	3652	0.12	0.03	0.00	0.01	20.55
rs61815774	CD8br NKT %T cell	ebi-a-GCST90001631	1	208930710	T	C	3668	-0.57	0.12	0.00	0.01	20.86
rs115294653	CD8br NKT %T cell	ebi-a-GCST90001631	1	28413298	A	G	3668	-0.54	0.12	0.00	0.01	21.07
rs147600774	CD8br NKT %T cell	ebi-a-GCST90001631	1	115926543	T	A	3668	0.39	0.09	0.00	0.01	19.62
rs34994982	CD8br NKT %T cell	ebi-a-GCST90001631	2	137472168	G	A	3668	-0.19	0.04	0.00	0.01	21.43
rs7577330	CD8br NKT %T cell	ebi-a-GCST90001631	2	113613580	T	A	3668	0.24	0.05	0.00	0.01	20.78
rs60553229	CD8br NKT %T cell	ebi-a-GCST90001631	3	183735909	A	G	3668	-1.45	0.32	0.00	0.01	21.03
rs12499194	CD8br NKT %T cell	ebi-a-GCST90001631	4	24539202	T	C	3668	0.19	0.04	0.00	0.01	19.74
rs17256404	CD8br NKT %T cell	ebi-a-GCST90001631	5	9391367	C	A	3668	0.18	0.04	0.00	0.01	20.34
rs115889733	CD8br NKT %T cell	ebi-a-GCST90001631	6	44207850	A	G	3668	0.21	0.05	0.00	0.01	20.78
rs2275854	CD8br NKT %T cell	ebi-a-GCST90001631	6	29976838	G	A	3668	0.14	0.03	0.00	0.01	20.92
rs34575510	CD8br NKT %T cell	ebi-a-GCST90001631	7	23209757	T	C	3668	0.26	0.06	0.00	0.01	20.35
rs10276441	CD8br NKT %T cell	ebi-a-GCST90001631	7	52581385	A	G	3668	0.15	0.03	0.00	0.01	22.23
rs11544989	CD8br NKT %T cell	ebi-a-GCST90001631	8	145057868	G	A	3668	0.12	0.03	0.00	0.01	22.73
rs725683	CD8br NKT %T cell	ebi-a-GCST90001631	10	90258876	T	C	3668	-0.12	0.03	0.00	0.01	22.12
rs161249	CD8br NKT %T cell	ebi-a-GCST90001631	10	31701343	C	T	3668	-0.24	0.05	0.00	0.01	21.84
rs2074023	CD8br NKT %T cell	ebi-a-GCST90001631	11	2325581	T	C	3668	-0.12	0.02	0.00	0.01	24.38
rs12224032	CD8br NKT %T cell	ebi-a-GCST90001631	11	112914680	G	C	3668	0.14	0.03	0.00	0.01	21.85
rs568739	CD8br NKT %T cell	ebi-a-GCST90001631	11	128060429	C	T	3668	0.11	0.02	0.00	0.01	19.63
rs144156455	CD8br NKT %T cell	ebi-a-GCST90001631	11	70988762	C	T	3668	0.32	0.07	0.00	0.01	24.05
rs145936741	CD8br NKT %T cell	ebi-a-GCST90001631	11	116470289	G	A	3668	-0.51	0.11	0.00	0.01	20.49
rs12792298	CD8br NKT %T cell	ebi-a-GCST90001631	11	112189184	T	C	3668	-0.31	0.07	0.00	0.01	22.50
rs76161425	CD8br NKT %T cell	ebi-a-GCST90001631	11	112704995	T	C	3668	-0.41	0.04	0.00	0.03	110.92
rs117122100	CD8br NKT %T cell	ebi-a-GCST90001631	13	109403845	T	C	3668	-0.47	0.10	0.00	0.01	21.28
rs116179687	CD8br NKT %T cell	ebi-a-GCST90001631	13	108484563	T	G	3668	-0.81	0.18	0.00	0.01	21.18
rs61944019	CD8br NKT %T cell	ebi-a-GCST90001631	13	27907115	A	G	3668	-0.76	0.16	0.00	0.01	21.80
rs11650003	CD8br NKT %T cell	ebi-a-GCST90001631	17	7866604	G	A	3668	-0.12	0.03	0.00	0.01	21.18
rs11658954	CD8br NKT %T cell	ebi-a-GCST90001631	17	74953080	G	A	3668	-0.11	0.02	0.00	0.01	21.27
rs56297703	CD8br NKT %T cell	ebi-a-GCST90001631	18	67865495	C	T	3668	-0.14	0.03	0.00	0.01	19.93
rs5769842	CD8br NKT %T cell	ebi-a-GCST90001631	22	49437976	A	G	3668	-0.22	0.05	0.00	0.01	20.60
rs147600774	CD8br NKT %lymphocyte	ebi-a-GCST90001632	1	115926543	T	A	3668	0.39	0.09	0.00	0.01	19.95

rs61815774	CD8br NKT %lymphocyte	ebi-a-GCST90001632	1	208930710	T	C	3668	-0.55	0.12	0.00	0.01	19.80
rs55699240	CD8br NKT %lymphocyte	ebi-a-GCST90001632	2	113838725	C	G	3668	0.14	0.03	0.00	0.01	20.50
rs34994982	CD8br NKT %lymphocyte	ebi-a-GCST90001632	2	137472168	G	A	3668	-0.20	0.04	0.00	0.01	22.31
rs10188255	CD8br NKT %lymphocyte	ebi-a-GCST90001632	2	122052948	A	G	3668	0.25	0.06	0.00	0.01	20.55
rs60553229	CD8br NKT %lymphocyte	ebi-a-GCST90001632	3	183735909	A	G	3668	-1.47	0.32	0.00	0.01	21.21
rs12499194	CD8br NKT %lymphocyte	ebi-a-GCST90001632	4	24539202	T	C	3668	0.19	0.04	0.00	0.01	19.79
rs17256404	CD8br NKT %lymphocyte	ebi-a-GCST90001632	5	9391367	C	A	3668	0.18	0.04	0.00	0.01	20.07
rs115889733	CD8br NKT %lymphocyte	ebi-a-GCST90001632	6	44207850	A	G	3668	0.21	0.05	0.00	0.01	21.23
rs2395191	CD8br NKT %lymphocyte	ebi-a-GCST90001632	6	32447085	C	T	3668	0.15	0.03	0.00	0.01	24.45
rs34575510	CD8br NKT %lymphocyte	ebi-a-GCST90001632	7	23209757	T	C	3668	0.27	0.06	0.00	0.01	21.50
rs2041561	CD8br NKT %lymphocyte	ebi-a-GCST90001632	7	52580478	C	G	3668	0.15	0.03	0.00	0.01	21.56
rs11544989	CD8br NKT %lymphocyte	ebi-a-GCST90001632	8	145057868	G	A	3668	0.12	0.03	0.00	0.01	23.37
rs725683	CD8br NKT %lymphocyte	ebi-a-GCST90001632	10	90258876	T	C	3668	-0.12	0.03	0.00	0.01	22.49
rs12363646	CD8br NKT %lymphocyte	ebi-a-GCST90001632	11	128067342	C	T	3668	0.11	0.02	0.00	0.01	20.11
rs12792298	CD8br NKT %lymphocyte	ebi-a-GCST90001632	11	112189184	T	C	3668	-0.30	0.07	0.00	0.01	21.12
rs11216023	CD8br NKT %lymphocyte	ebi-a-GCST90001632	11	116460172	C	G	3668	-0.45	0.10	0.00	0.01	19.80
rs2074023	CD8br NKT %lymphocyte	ebi-a-GCST90001632	11	2325581	T	C	3668	-0.12	0.02	0.00	0.01	25.29
rs78268116	CD8br NKT %lymphocyte	ebi-a-GCST90001632	11	112705025	T	C	3668	-0.40	0.04	0.00	0.03	105.30
rs12224032	CD8br NKT %lymphocyte	ebi-a-GCST90001632	11	112914680	G	C	3668	0.14	0.03	0.00	0.01	20.99
rs144156455	CD8br NKT %lymphocyte	ebi-a-GCST90001632	11	70988762	C	T	3668	0.32	0.07	0.00	0.01	23.72
rs61944019	CD8br NKT %lymphocyte	ebi-a-GCST90001632	13	27907115	A	G	3668	-0.76	0.16	0.00	0.01	21.92
rs117122100	CD8br NKT %lymphocyte	ebi-a-GCST90001632	13	109403845	T	C	3668	-0.48	0.10	0.00	0.01	21.40
rs116179687	CD8br NKT %lymphocyte	ebi-a-GCST90001632	13	108484563	T	G	3668	-0.80	0.18	0.00	0.01	20.02
rs11658954	CD8br NKT %lymphocyte	ebi-a-GCST90001632	17	74953080	G	A	3668	-0.11	0.02	0.00	0.01	20.28
rs11650003	CD8br NKT %lymphocyte	ebi-a-GCST90001632	17	7866604	G	A	3668	-0.11	0.03	0.00	0.01	20.14
rs75361910	CD8br NKT %lymphocyte	ebi-a-GCST90001632	17	33793208	T	C	3668	-0.19	0.04	0.00	0.01	25.03
rs56297703	CD8br NKT %lymphocyte	ebi-a-GCST90001632	18	67865495	C	T	3668	-0.14	0.03	0.00	0.01	20.43
rs117499937	CD8br NKT %lymphocyte	ebi-a-GCST90001632	22	28030270	A	G	3668	-0.45	0.10	0.00	0.01	20.32
rs116700304	CD8dim NKT AC	ebi-a-GCST90001633	1	6519453	A	G	3652	-0.79	0.18	0.00	0.01	20.20
rs113855303	CD8dim NKT AC	ebi-a-GCST90001633	1	11524363	A	C	3652	0.34	0.07	0.00	0.01	20.77
rs11676464	CD8dim NKT AC	ebi-a-GCST90001633	2	86018262	A	G	3652	-0.19	0.04	0.00	0.01	22.33
rs4500996	CD8dim NKT AC	ebi-a-GCST90001633	2	98843446	T	C	3652	0.16	0.03	0.00	0.01	24.58
rs139090356	CD8dim NKT AC	ebi-a-GCST90001633	2	7451357	G	A	3652	0.90	0.20	0.00	0.01	21.22
rs62391967	CD8dim NKT AC	ebi-a-GCST90001633	3	106910114	C	G	3652	0.15	0.03	0.00	0.01	19.77
rs145331774	CD8dim NKT AC	ebi-a-GCST90001633	6	402147	T	C	3652	-0.38	0.08	0.00	0.01	21.23
rs79251210	CD8dim NKT AC	ebi-a-GCST90001633	6	100468602	A	G	3652	0.56	0.06	0.00	0.02	73.93
rs9488834	CD8dim NKT AC	ebi-a-GCST90001633	6	97889936	A	G	3652	0.34	0.06	0.00	0.01	34.60

rs111273508	CD8dim NKT AC	ebi-a-GCST90001633	6	25330739	A	G	3652	0.55	0.11	0.00	0.01	23.06
rs117147408	CD8dim NKT AC	ebi-a-GCST90001633	6	101980039	G	A	3652	0.67	0.08	0.00	0.02	78.22
rs115536607	CD8dim NKT AC	ebi-a-GCST90001633	6	101417409	T	C	3652	0.35	0.05	0.00	0.01	41.38
rs303054	CD8dim NKT AC	ebi-a-GCST90001633	6	10416638	T	G	3652	0.15	0.03	0.00	0.01	19.66
rs6970303	CD8dim NKT AC	ebi-a-GCST90001633	7	28913959	C	T	3652	0.12	0.03	0.00	0.01	21.07
rs34124324	CD8dim NKT AC	ebi-a-GCST90001633	8	4205974	G	A	3652	-0.20	0.05	0.00	0.01	19.93
rs11544989	CD8dim NKT AC	ebi-a-GCST90001633	8	145057868	G	A	3652	0.13	0.03	0.00	0.01	25.64
rs145682498	CD8dim NKT AC	ebi-a-GCST90001633	10	54508949	A	T	3652	0.24	0.05	0.00	0.01	20.67
rs80109323	CD8dim NKT AC	ebi-a-GCST90001633	10	133227859	T	C	3652	1.52	0.34	0.00	0.01	19.77
rs10892953	CD8dim NKT AC	ebi-a-GCST90001633	11	99100867	G	A	3652	-0.15	0.03	0.00	0.01	20.11
rs77738700	CD8dim NKT AC	ebi-a-GCST90001633	11	112751407	A	G	3652	-0.32	0.04	0.00	0.02	67.59
rs73062743	CD8dim NKT AC	ebi-a-GCST90001633	12	10511923	T	C	3652	-0.18	0.04	0.00	0.01	21.45
rs7323005	CD8dim NKT AC	ebi-a-GCST90001633	13	40673331	G	A	3652	-0.15	0.03	0.00	0.01	20.44
rs7152367	CD8dim NKT AC	ebi-a-GCST90001633	14	66292007	A	G	3652	0.47	0.09	0.00	0.01	25.08
rs35840380	CD8dim NKT AC	ebi-a-GCST90001633	14	102546027	T	C	3652	0.33	0.07	0.00	0.01	22.32
rs7208329	CD8dim NKT AC	ebi-a-GCST90001633	17	33128801	T	C	3652	-0.33	0.07	0.00	0.01	22.47
rs7218011	CD8dim NKT AC	ebi-a-GCST90001633	17	33773022	G	A	3652	-0.16	0.03	0.00	0.01	23.92
rs9916257	CD8dim NKT AC	ebi-a-GCST90001633	17	33797371	T	G	3652	0.15	0.02	0.00	0.01	35.93
rs62126783	CD8dim NKT AC	ebi-a-GCST90001633	19	17596144	A	G	3652	-0.11	0.02	0.00	0.01	21.23
rs62210845	CD8dim NKT AC	ebi-a-GCST90001633	21	15274585	A	G	3652	0.12	0.03	0.00	0.01	20.28
rs8131290	CD8dim NKT AC	ebi-a-GCST90001633	21	45423006	T	A	3652	0.13	0.03	0.00	0.01	21.60
rs113855303	CD8dim NKT %T cell	ebi-a-GCST90001634	1	11524363	A	C	3668	0.33	0.07	0.00	0.01	19.81
rs4500996	CD8dim NKT %T cell	ebi-a-GCST90001634	2	98843446	T	C	3668	0.15	0.03	0.00	0.01	22.16
rs139090356	CD8dim NKT %T cell	ebi-a-GCST90001634	2	7451357	G	A	3668	0.90	0.20	0.00	0.01	20.74
rs7589893	CD8dim NKT %T cell	ebi-a-GCST90001634	2	99932255	T	C	3668	-0.11	0.03	0.00	0.01	19.78
rs117147408	CD8dim NKT %T cell	ebi-a-GCST90001634	6	101980039	G	A	3668	0.74	0.08	0.00	0.02	93.60
rs201024668	CD8dim NKT %T cell	ebi-a-GCST90001634	6	98118004	T	A	3668	0.24	0.05	0.00	0.01	23.49
rs115536607	CD8dim NKT %T cell	ebi-a-GCST90001634	6	101417409	T	C	3668	0.40	0.05	0.00	0.01	53.15
rs79251210	CD8dim NKT %T cell	ebi-a-GCST90001634	6	100468602	A	G	3668	0.60	0.07	0.00	0.02	84.61
rs9488834	CD8dim NKT %T cell	ebi-a-GCST90001634	6	97889936	A	G	3668	0.35	0.06	0.00	0.01	35.98
rs6970303	CD8dim NKT %T cell	ebi-a-GCST90001634	7	28913959	C	T	3668	0.12	0.03	0.00	0.01	19.82
rs11544989	CD8dim NKT %T cell	ebi-a-GCST90001634	8	145057868	G	A	3668	0.14	0.03	0.00	0.01	30.49
rs77738700	CD8dim NKT %T cell	ebi-a-GCST90001634	11	112751407	A	G	3668	-0.33	0.04	0.00	0.02	68.15
rs61925057	CD8dim NKT %T cell	ebi-a-GCST90001634	12	61076597	T	C	3668	-0.44	0.09	0.00	0.01	21.72
rs73062743	CD8dim NKT %T cell	ebi-a-GCST90001634	12	10511923	T	C	3668	-0.18	0.04	0.00	0.01	21.88
rs12871857	CD8dim NKT %T cell	ebi-a-GCST90001634	13	26527159	T	C	3668	-0.24	0.05	0.00	0.01	21.43
rs7323005	CD8dim NKT %T cell	ebi-a-GCST90001634	13	40673331	G	A	3668	-0.16	0.03	0.00	0.01	22.11

rs7152367	CD8dim NKT %T cell	ebi-a-GCST90001634	14	66292007	A	G	3668	0.46	0.09	0.00	0.01	23.52
rs113413210	CD8dim NKT %T cell	ebi-a-GCST90001634	15	78982526	C	T	3668	0.25	0.06	0.00	0.01	20.49
rs112895628	CD8dim NKT %T cell	ebi-a-GCST90001634	17	79356092	C	G	3668	-0.13	0.03	0.00	0.01	20.14
rs142704274	CD8dim NKT %T cell	ebi-a-GCST90001634	17	39899038	A	G	3668	-0.47	0.09	0.00	0.01	27.03
rs9912354	CD8dim NKT %T cell	ebi-a-GCST90001634	17	33805730	T	C	3668	0.11	0.02	0.00	0.01	21.36
rs5998010	CD8dim NKT %T cell	ebi-a-GCST90001634	22	31889080	T	C	3668	0.21	0.05	0.00	0.01	20.17
rs28628425	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	1	248782956	C	T	3668	0.36	0.08	0.00	0.01	19.62
rs7589893	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	2	99932255	T	C	3668	-0.12	0.03	0.00	0.01	20.70
rs4500996	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	2	98843446	T	C	3668	0.15	0.03	0.00	0.01	22.06
rs139090356	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	2	7451357	G	A	3668	0.89	0.20	0.00	0.01	20.57
rs11676464	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	2	86018262	A	G	3668	-0.18	0.04	0.00	0.01	19.85
rs73223508	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	3	137239756	T	A	3668	-0.16	0.04	0.00	0.01	20.09
rs62287820	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	3	155664429	G	A	3668	0.42	0.09	0.00	0.01	19.78
rs9488834	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	6	97889936	A	G	3668	0.35	0.06	0.00	0.01	35.00
rs117147408	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	6	101980039	G	A	3668	0.71	0.08	0.00	0.02	87.33
rs201024668	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	6	98118004	T	A	3668	0.24	0.05	0.00	0.01	23.49
rs79251210	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	6	100468602	A	G	3668	0.59	0.06	0.00	0.02	81.68
rs115536607	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	6	101417409	T	C	3668	0.39	0.05	0.00	0.01	50.58
rs6970303	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	7	28913959	C	T	3668	0.12	0.03	0.00	0.01	19.83
rs11544989	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	8	145057868	G	A	3668	0.14	0.03	0.00	0.01	31.13
rs77738700	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	11	112751407	A	G	3668	-0.32	0.04	0.00	0.02	66.24
rs10892953	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	11	99100867	G	A	3668	-0.15	0.03	0.00	0.01	20.02
rs73062743	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	12	10511923	T	C	3668	-0.19	0.04	0.00	0.01	22.82
rs61925057	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	12	61076597	T	C	3668	-0.43	0.09	0.00	0.01	21.42
rs12871857	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	13	26527159	T	C	3668	-0.24	0.05	0.00	0.01	21.64
rs7323005	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	13	40673331	G	A	3668	-0.16	0.03	0.00	0.01	22.06
rs7152367	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	14	66292007	A	G	3668	0.46	0.09	0.00	0.01	23.91
rs35237642	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	14	102605308	C	T	3668	0.45	0.10	0.00	0.01	21.59
rs113413210	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	15	78982526	C	T	3668	0.25	0.06	0.00	0.01	20.21
rs191392302	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	17	39953961	G	T	3668	-0.47	0.10	0.00	0.01	21.08
rs9916257	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	17	33797371	T	G	3668	0.14	0.02	0.00	0.01	34.02
rs112895628	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	17	79356092	C	G	3668	-0.13	0.03	0.00	0.01	20.01
rs7208329	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	17	33128801	T	C	3668	-0.35	0.07	0.00	0.01	25.68
rs17304450	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	19	6095431	A	G	3668	0.54	0.12	0.00	0.01	20.21
rs8131290	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	21	45423006	T	A	3668	0.13	0.03	0.00	0.01	20.18
rs5998010	CD8dim NKT %lymphocyte	ebi-a-GCST90001635	22	31889080	T	C	3668	0.21	0.05	0.00	0.01	19.65

rs11580805	DN (CD4- CD8-) NKT AC	ebi-a-GCST90001636	1	56114818	T	A	3652	-0.21	0.05	0.00	0.01	21.13
rs11485850	DN (CD4- CD8-) NKT AC	ebi-a-GCST90001636	1	248784570	G	T	3652	0.37	0.08	0.00	0.01	20.13
rs12143791	DN (CD4- CD8-) NKT AC	ebi-a-GCST90001636	1	178071170	G	A	3652	-0.12	0.03	0.00	0.01	21.24
rs4233371	DN (CD4- CD8-) NKT AC	ebi-a-GCST90001636	1	161473125	C	G	3652	0.15	0.03	0.00	0.01	21.07
rs11124150	DN (CD4- CD8-) NKT AC	ebi-a-GCST90001636	2	98905012	G	A	3652	-0.13	0.03	0.00	0.01	26.13
rs112708092	DN (CD4- CD8-) NKT AC	ebi-a-GCST90001636	2	236468046	T	C	3652	-0.16	0.04	0.00	0.01	19.85
rs1473232	DN (CD4- CD8-) NKT AC	ebi-a-GCST90001636	2	8498179	G	T	3652	0.13	0.03	0.00	0.01	20.24
rs34613828	DN (CD4- CD8-) NKT AC	ebi-a-GCST90001636	2	87022759	T	A	3652	0.21	0.03	0.00	0.01	47.94
rs6785704	DN (CD4- CD8-) NKT AC	ebi-a-GCST90001636	3	194020431	G	A	3652	-0.19	0.04	0.00	0.01	19.83
rs62290986	DN (CD4- CD8-) NKT AC	ebi-a-GCST90001636	3	194467784	A	C	3652	-0.23	0.05	0.00	0.01	20.27
rs13108209	DN (CD4- CD8-) NKT AC	ebi-a-GCST90001636	4	4354607	A	G	3652	-0.13	0.03	0.00	0.01	22.94
rs59209359	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	1	56133478	G	C	3668	-0.22	0.05	0.00	0.01	19.63
rs11485850	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	1	248784570	G	T	3668	0.38	0.08	0.00	0.01	21.02
rs4233371	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	1	161473125	C	G	3668	0.16	0.03	0.00	0.01	23.25
rs41274520	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	1	11210450	T	G	3668	0.41	0.09	0.00	0.01	21.08
rs3102960	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	2	8452497	T	C	3668	0.12	0.03	0.00	0.01	19.76
rs7569868	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	2	87019683	T	C	3668	0.23	0.03	0.00	0.01	52.09
rs188455143	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	2	179782799	A	G	3668	0.36	0.07	0.00	0.01	23.88
rs149977848	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	2	242038726	A	G	3668	0.44	0.10	0.00	0.01	19.80
rs11124150	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	2	98905012	G	A	3668	-0.12	0.03	0.00	0.01	21.64
rs6785704	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	3	194020431	G	A	3668	-0.20	0.04	0.00	0.01	22.24
rs265772	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	3	1371260	G	T	3668	-0.20	0.04	0.00	0.01	20.66
rs13108209	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	4	4354607	A	G	3668	-0.13	0.03	0.00	0.01	22.82
rs250103	DN (CD4- CD8-) NKT %T cell	ebi-a-GCST90001637	5	141986611	A	G	3668	-0.13	0.03	0.00	0.01	21.49

rs192734627	DN (CD4- CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	5	126590324	A	G	3668	0.31	0.06	0.00	0.01	22.89
rs201024668	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	6	98118004	T	A	3668	0.25	0.05	0.00	0.01	25.35
rs115536607	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	6	101417409	T	C	3668	0.37	0.05	0.00	0.01	46.15
rs117147408	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	6	101980039	G	A	3668	0.70	0.08	0.00	0.02	86.12
rs79251210	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	6	100468602	A	G	3668	0.56	0.06	0.00	0.02	75.53
rs2674389	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	6	93510469	C	T	3668	0.15	0.03	0.00	0.01	20.38
rs113145300	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	6	92830899	G	A	3668	0.35	0.07	0.00	0.01	22.36
rs9488834	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	6	97889936	A	G	3668	0.38	0.06	0.00	0.01	42.41
rs76158038	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	7	38595761	C	T	3668	-0.24	0.05	0.00	0.01	20.55
rs77738700	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	11	112751407	A	G	3668	-0.38	0.04	0.00	0.03	95.51
rs12792298	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	11	112189184	T	C	3668	-0.32	0.07	0.00	0.01	23.43
rs190676386	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	11	114445844	A	G	3668	-0.47	0.11	0.00	0.01	19.71
rs61925057	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	12	61076597	T	C	3668	-0.43	0.09	0.00	0.01	21.68
rs148936961	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	12	61264786	T	A	3668	0.38	0.08	0.00	0.01	21.92
rs140444563	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	12	31103286	G	T	3668	0.18	0.04	0.00	0.01	20.44
rs9509337	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	13	19245376	A	G	3668	-0.13	0.03	0.00	0.01	21.11
rs76333352	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	14	65546932	T	C	3668	0.63	0.14	0.00	0.01	19.95
rs113413210	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	15	78982526	C	T	3668	0.25	0.06	0.00	0.01	20.29
rs9896155	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	17	33794697	G	A	3668	0.13	0.03	0.00	0.01	26.15
rs9983338	CD8-) NKT %T cell DN (CD4-	ebi-a-GCST90001637	21	29982668	T	C	3668	-0.41	0.09	0.00	0.01	20.74
rs11485850	CD8-) NKT %lymphocyte DN (CD4-	ebi-a-GCST90001638	1	248784570	G	T	3668	0.38	0.08	0.00	0.01	20.95
rs11579742	CD8-) NKT %lymphocyte DN (CD4-	ebi-a-GCST90001638	1	175296847	T	C	3668	-0.52	0.12	0.00	0.01	20.04
rs4233371	CD8-) NKT %lymphocyte DN (CD4-	ebi-a-GCST90001638	1	161473125	C	G	3668	0.15	0.03	0.00	0.01	22.34
rs59209359	CD8-) NKT %lymphocyte	ebi-a-GCST90001638	1	56133478	G	C	3668	-0.22	0.05	0.00	0.01	21.17

rs72784218	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	2	19698493	A	G	3668	0.23	0.05	0.00	0.01	20.84
rs149977848	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	2	242038726	A	G	3668	0.44	0.10	0.00	0.01	20.51
rs7569868	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	2	87019683	T	C	3668	0.22	0.03	0.00	0.01	49.08
rs11124150	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	2	98905012	G	A	3668	-0.12	0.03	0.00	0.01	22.01
rs188455143	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	2	179782799	A	G	3668	0.35	0.07	0.00	0.01	22.28
rs6785704	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	3	194020431	G	A	3668	-0.20	0.04	0.00	0.01	22.71
rs265772	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	3	1371260	G	T	3668	-0.20	0.04	0.00	0.01	20.42
rs73191859	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	4	4222121	G	A	3668	0.18	0.04	0.00	0.01	21.23
rs192734627	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	5	126590324	A	G	3668	0.31	0.06	0.00	0.01	22.50
rs9488834	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	6	97889936	A	G	3668	0.37	0.06	0.00	0.01	40.34
rs79251210	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	6	100468602	A	G	3668	0.55	0.06	0.00	0.02	72.47
rs115536607	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	6	101417409	T	C	3668	0.36	0.05	0.00	0.01	43.57
rs201024668	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	6	98118004	T	A	3668	0.25	0.05	0.00	0.01	25.03
rs11759822	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	6	99608776	T	G	3668	0.13	0.03	0.00	0.01	22.16
rs117147408	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	6	101980039	G	A	3668	0.68	0.08	0.00	0.02	79.74
rs76158038	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	7	38595761	C	T	3668	-0.24	0.05	0.00	0.01	20.44
rs77738700	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	11	112751407	A	G	3668	-0.38	0.04	0.00	0.02	93.35
rs12792298	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	11	112189184	T	C	3668	-0.31	0.07	0.00	0.01	22.32
rs148936961	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	12	61264786	T	A	3668	0.37	0.08	0.00	0.01	20.98
rs61925057	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	12	61076597	T	C	3668	-0.43	0.09	0.00	0.01	21.20
rs140444563	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	12	31103286	G	T	3668	0.18	0.04	0.00	0.01	21.28
rs9509337	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	13	19245376	A	G	3668	-0.13	0.03	0.00	0.01	19.81
rs76333352	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	14	65546932	T	C	3668	0.63	0.14	0.00	0.01	20.40
rs113413210	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	15	78982526	C	T	3668	0.25	0.06	0.00	0.01	20.12

rs8054431	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	16	27226437	T	G	3668	0.11	0.03	0.00	0.01	19.81
rs9916629	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	17	33796260	C	T	3668	0.14	0.02	0.00	0.01	32.11
rs11652532	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	17	33769883	A	G	3668	-0.15	0.03	0.00	0.01	20.31
rs9983338	DN (CD4- CD8-) NKT %lymphocyte	ebi-a-GCST90001638	21	29982668	T	C	3668	-0.42	0.09	0.00	0.01	21.19
rs61766955	CD3- lymphocyte	ebi-a-GCST90001639	1	31073453	G	A	3653	0.42	0.09	0.00	0.01	21.12
rs12616821	AC CD3- lymphocyte	ebi-a-GCST90001639	2	99282659	C	T	3653	0.12	0.03	0.00	0.01	21.01
rs17824379	AC CD3- lymphocyte	ebi-a-GCST90001639	3	5810961	G	A	3653	-1.35	0.23	0.00	0.01	35.57
rs76620602	AC CD3- lymphocyte	ebi-a-GCST90001639	3	31651652	C	A	3653	-0.28	0.06	0.00	0.01	21.86
rs17617028	AC CD3- lymphocyte	ebi-a-GCST90001639	4	106064683	A	G	3653	0.13	0.03	0.00	0.01	23.26
rs55738889	AC CD3- lymphocyte	ebi-a-GCST90001639	5	43983956	T	C	3653	-0.29	0.06	0.00	0.01	21.52
rs17605177	AC CD3- lymphocyte	ebi-a-GCST90001639	7	126074598	A	T	3653	0.20	0.04	0.00	0.01	23.08
rs35604965	AC CD3- lymphocyte	ebi-a-GCST90001639	10	102722625	C	T	3653	0.16	0.03	0.00	0.01	20.78
rs11822514	AC CD3- lymphocyte	ebi-a-GCST90001639	11	125133704	C	T	3653	-0.13	0.03	0.00	0.01	20.80
rs184712	AC CD3- lymphocyte	ebi-a-GCST90001639	12	58141602	T	C	3653	-0.19	0.04	0.00	0.01	21.13
rs4763964	AC CD3- lymphocyte	ebi-a-GCST90001639	12	13468008	A	T	3653	-0.21	0.05	0.00	0.01	20.83
rs73234444	AC CD3- lymphocyte	ebi-a-GCST90001639	13	83976964	C	G	3653	0.62	0.14	0.00	0.01	19.65
rs935320	AC CD3- lymphocyte	ebi-a-GCST90001639	15	57644442	T	A	3653	-0.23	0.04	0.00	0.01	25.79
rs12915752	AC CD3- lymphocyte	ebi-a-GCST90001639	15	24590168	C	A	3653	-0.12	0.03	0.00	0.01	21.76
rs3894193	AC CD3- lymphocyte	ebi-a-GCST90001639	17	38125346	G	C	3653	0.12	0.03	0.00	0.01	20.65
rs4796089	AC CD3- lymphocyte	ebi-a-GCST90001639	17	33814758	C	T	3653	0.18	0.04	0.00	0.01	25.30
rs9894744	AC CD3- lymphocyte	ebi-a-GCST90001639	17	72932879	A	C	3653	-0.13	0.03	0.00	0.01	23.82
rs3795066	AC CD3- lymphocyte	ebi-a-GCST90001639	19	1039626	T	C	3653	-0.11	0.03	0.00	0.01	19.82
rs144770721	AC CD3- lymphocyte	ebi-a-GCST90001639	21	32074074	G	A	3653	-0.21	0.04	0.00	0.01	24.07
rs1874323	%lymphocyte	ebi-a-GCST90001640	3	65771684	C	T	3669	0.16	0.03	0.00	0.01	20.76

rs4701789	CD3-lymphocyte %lymphocyte	ebi-a-GCST90001640	5	7691703	G	C	3669	-0.15	0.03	0.00	0.01	22.18
rs28832872	CD3-lymphocyte %lymphocyte	ebi-a-GCST90001640	6	32529015	C	T	3669	-0.29	0.07	0.00	0.01	20.41
rs241580	CD3-lymphocyte %lymphocyte	ebi-a-GCST90001640	6	157895107	G	A	3669	0.28	0.06	0.00	0.01	19.90
rs34147569	CD3-lymphocyte %lymphocyte	ebi-a-GCST90001640	6	71753094	C	T	3669	-0.13	0.03	0.00	0.01	19.65
rs17615220	CD3-lymphocyte %lymphocyte	ebi-a-GCST90001640	6	32677413	G	A	3669	0.16	0.03	0.00	0.01	23.31
rs6904670	CD3-lymphocyte %lymphocyte	ebi-a-GCST90001640	6	31192797	G	A	3669	0.13	0.03	0.00	0.01	21.15
rs144820681	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	1	157319909	C	T	3669	0.61	0.13	0.00	0.01	20.78
rs76901853	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	2	232025880	T	C	3669	0.40	0.09	0.00	0.01	19.68
rs17824379	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	3	5810961	G	A	3669	-1.04	0.23	0.00	0.01	20.56
rs1874323	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	3	65771684	C	T	3669	0.17	0.04	0.00	0.01	22.46
rs146849959	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	4	90761054	A	C	3669	0.43	0.09	0.00	0.01	20.97
rs4701789	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	5	7691703	G	C	3669	-0.15	0.03	0.00	0.01	21.75
rs10484980	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	6	54451626	C	T	3669	-0.99	0.22	0.00	0.01	20.04
rs10282551	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	7	135898321	G	A	3669	0.23	0.05	0.00	0.01	23.39
rs521446	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	9	136618314	A	G	3669	0.11	0.02	0.00	0.01	20.47
rs1649973	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	10	83888949	G	A	3669	-0.18	0.04	0.00	0.01	23.81
rs145179037	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	10	122435643	T	C	3669	-1.17	0.26	0.00	0.01	20.19
rs146347528	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	13	112890557	A	G	3669	0.37	0.08	0.00	0.01	20.01
rs12874404	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	13	108993494	G	A	3669	0.12	0.03	0.00	0.01	20.39
rs4581669	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	15	24585534	A	C	3669	-0.13	0.03	0.00	0.01	24.39
rs138446406	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	15	54830492	C	G	3669	1.14	0.25	0.00	0.01	20.04
rs11870294	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	17	77121593	C	A	3669	-0.13	0.03	0.00	0.01	19.72
rs4796089	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	17	33814758	C	T	3669	0.22	0.04	0.00	0.01	35.33
rs1476462	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	17	2707605	A	G	3669	0.16	0.04	0.00	0.01	20.20

rs77650974	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	18	12394263	A	G	3669	-0.13	0.03	0.00	0.01	24.71
rs3730790	CD3-lymphocyte %leukocyte	ebi-a-GCST90001641	18	51815699	A	G	3669	-0.66	0.15	0.00	0.01	19.90
rs490416	B cell AC	ebi-a-GCST90001642	1	20838219	T	A	3653	0.11	0.02	0.00	0.01	20.19
rs17113368	B cell AC	ebi-a-GCST90001642	1	95786229	T	C	3653	0.19	0.04	0.00	0.01	20.19
rs72941136	B cell AC	ebi-a-GCST90001642	1	82245693	C	G	3653	0.18	0.04	0.00	0.01	20.55
rs6750281	B cell AC	ebi-a-GCST90001642	2	99274418	G	A	3653	0.11	0.02	0.00	0.01	19.97
rs9883798	B cell AC	ebi-a-GCST90001642	3	16473863	A	C	3653	0.11	0.03	0.00	0.01	19.80
rs2679580	B cell AC	ebi-a-GCST90001642	3	8845344	G	A	3653	-0.12	0.02	0.00	0.01	24.61
rs182527768	B cell AC	ebi-a-GCST90001642	4	109048591	A	G	3653	-0.33	0.07	0.00	0.01	25.02
rs1897558	B cell AC	ebi-a-GCST90001642	5	167552605	C	A	3653	-0.13	0.03	0.00	0.01	21.69
rs13173982	B cell AC	ebi-a-GCST90001642	5	149268532	A	G	3653	0.12	0.03	0.00	0.01	19.60
rs10052651	B cell AC	ebi-a-GCST90001642	5	18686084	T	A	3653	-0.12	0.03	0.00	0.01	20.48
rs9460146	B cell AC	ebi-a-GCST90001642	6	170723710	C	T	3653	0.14	0.03	0.00	0.01	20.19
rs117693242	B cell AC	ebi-a-GCST90001642	6	104445996	G	A	3653	-0.45	0.10	0.00	0.01	21.58
rs75270114	B cell AC	ebi-a-GCST90001642	6	147667242	G	T	3653	0.29	0.06	0.00	0.01	20.25
rs7834992	B cell AC	ebi-a-GCST90001642	8	119556485	G	A	3653	0.12	0.03	0.00	0.01	21.48
rs2395904	B cell AC	ebi-a-GCST90001642	8	130617819	G	T	3653	-0.13	0.03	0.00	0.01	21.67
rs73520180	B cell AC	ebi-a-GCST90001642	9	118756021	C	T	3653	0.45	0.08	0.00	0.01	28.10
rs4933299	B cell AC	ebi-a-GCST90001642	10	85456128	T	G	3653	-0.13	0.03	0.00	0.01	19.96
rs142089808	B cell AC	ebi-a-GCST90001642	11	116171120	G	A	3653	-1.05	0.19	0.00	0.01	29.14
rs58114937	B cell AC	ebi-a-GCST90001642	12	67638132	G	A	3653	0.19	0.04	0.00	0.01	26.78
rs1057686	B cell AC	ebi-a-GCST90001642	12	120533696	G	A	3653	-0.17	0.04	0.00	0.01	22.71
rs12865434	B cell AC	ebi-a-GCST90001642	13	108970631	G	A	3653	0.15	0.02	0.00	0.01	40.85
rs11627066	B cell AC	ebi-a-GCST90001642	14	66304049	T	C	3653	-0.11	0.02	0.00	0.01	22.01
rs7500855	B cell AC	ebi-a-GCST90001642	16	87692225	T	C	3653	-0.13	0.02	0.00	0.01	26.68
rs7210666	B cell AC	ebi-a-GCST90001642	17	74980293	C	T	3653	-0.13	0.03	0.00	0.01	19.57
rs1966302	B cell AC	ebi-a-GCST90001642	17	2718946	C	T	3653	-0.12	0.02	0.00	0.01	25.13
rs3894193	B cell AC	ebi-a-GCST90001642	17	38125346	G	C	3653	0.13	0.03	0.00	0.01	27.87
rs35606919	B cell AC	ebi-a-GCST90001642	17	4353359	G	T	3653	0.18	0.04	0.00	0.01	20.52
rs62061834	B cell AC	ebi-a-GCST90001642	17	49836652	C	T	3653	0.26	0.06	0.00	0.01	22.42
rs74390224	B cell AC	ebi-a-GCST90001642	18	65360311	T	A	3653	-0.58	0.13	0.00	0.01	19.80
rs11666499	B cell AC	ebi-a-GCST90001642	19	10372310	G	A	3653	0.19	0.04	0.00	0.01	20.54
rs2033489	B cell AC	ebi-a-GCST90001642	19	56768215	T	C	3653	0.11	0.02	0.00	0.01	19.71
rs5009526	B cell AC	ebi-a-GCST90001642	20	38895000	G	A	3653	-0.15	0.03	0.00	0.01	19.98
rs144825213	B cell AC	ebi-a-GCST90001642	21	15364014	A	G	3653	-1.55	0.35	0.00	0.01	20.17
rs5756641	B cell AC	ebi-a-GCST90001642	22	37746783	A	G	3653	-0.14	0.03	0.00	0.01	20.99
rs183053322	B cell % CD3-	ebi-a-GCST90001643	1	25076059	T	C	3669	0.36	0.07	0.00	0.01	29.56
rs12087279	B cell % CD3-	ebi-a-GCST90001643	1	82243292	T	C	3669	0.18	0.04	0.00	0.01	24.33
rs2679580	B cell % CD3-	ebi-a-GCST90001643	3	8845344	G	A	3669	-0.11	0.02	0.00	0.01	21.02
rs191368650	B cell % CD3-	ebi-a-GCST90001643	4	110029714	T	G	3669	-0.41	0.09	0.00	0.01	21.31
rs190518013	B cell % CD3-	ebi-a-GCST90001643	4	109649839	T	A	3669	1.32	0.27	0.00	0.01	24.23
rs34588768	B cell % CD3-	ebi-a-GCST90001643	4	55012690	T	C	3669	-0.43	0.09	0.00	0.01	22.63
rs77438219	B cell % CD3-	ebi-a-GCST90001643	5	66776987	A	G	3669	1.16	0.24	0.00	0.01	23.80
rs56311672	B cell % CD3-	ebi-a-GCST90001643	5	106196268	T	A	3669	2.32	0.50	0.00	0.01	21.43

rs11954223	B cell % CD3-	ebi-a-GCST90001643	5	67413499	A	G	3669	2.14	0.36	0.00	0.01	34.59
rs117732815	B cell % CD3-	ebi-a-GCST90001643	7	98089427	A	G	3669	-0.20	0.04	0.00	0.01	20.10
rs2213306	B cell % CD3-	ebi-a-GCST90001643	8	28615433	A	G	3669	0.12	0.03	0.00	0.01	20.70
rs142527102	B cell % CD3-	ebi-a-GCST90001643	8	17769401	C	T	3669	0.76	0.16	0.00	0.01	21.78
rs117515961	B cell % CD3-	ebi-a-GCST90001643	9	128278931	C	T	3669	0.31	0.07	0.00	0.01	19.79
rs73520180	B cell % CD3-	ebi-a-GCST90001643	9	118756021	C	T	3669	0.42	0.08	0.00	0.01	25.05
rs1915649	B cell % CD3-	ebi-a-GCST90001643	10	66556168	T	C	3669	1.90	0.37	0.00	0.01	26.34
rs72810613	B cell % CD3-	ebi-a-GCST90001643	10	95494689	G	A	3669	-0.28	0.06	0.00	0.01	21.88
rs17823772	B cell % CD3-	ebi-a-GCST90001643	10	105928767	T	C	3669	0.23	0.04	0.00	0.01	26.55
rs12422149	B cell % CD3-	ebi-a-GCST90001643	11	74883577	A	G	3669	-0.18	0.04	0.00	0.01	22.60
rs75210520	B cell % CD3-	ebi-a-GCST90001643	11	86506048	C	T	3669	0.31	0.07	0.00	0.01	20.27
rs61928632	B cell % CD3-	ebi-a-GCST90001643	12	85235042	C	T	3669	0.31	0.07	0.00	0.01	20.07
rs9520836	B cell % CD3-	ebi-a-GCST90001643	13	108957063	G	A	3669	0.14	0.02	0.00	0.01	33.31
rs78240988	B cell % CD3-	ebi-a-GCST90001643	14	76781310	A	C	3669	-0.63	0.14	0.00	0.01	20.30
rs77651542	B cell % CD3-	ebi-a-GCST90001643	15	50374150	C	T	3669	0.25	0.06	0.00	0.01	19.69
rs7216096	B cell % CD3-	ebi-a-GCST90001643	17	33772954	A	G	3669	-0.16	0.03	0.00	0.01	25.67
rs4239087	B cell % CD3-	ebi-a-GCST90001643	17	63434313	C	T	3669	0.54	0.12	0.00	0.01	20.02
rs9916257	B cell % CD3-	ebi-a-GCST90001643	17	33797371	T	G	3669	0.17	0.02	0.00	0.01	51.00
rs78468114	B cell % CD3-	ebi-a-GCST90001643	18	8581509	T	C	3669	1.90	0.39	0.00	0.01	23.16
rs281407	B cell % CD3-	ebi-a-GCST90001643	19	49233335	A	G	3669	-0.12	0.03	0.00	0.01	22.11
rs73174907	B cell % CD3-	ebi-a-GCST90001643	22	43064030	A	T	3669	0.19	0.04	0.00	0.01	23.92
rs72941136	B cell %lymphocyte	ebi-a-GCST90001644	1	82245693	C	G	3669	0.21	0.04	0.00	0.01	26.62
rs17113367	B cell %lymphocyte	ebi-a-GCST90001644	1	95785786	C	A	3669	0.20	0.04	0.00	0.01	23.18
rs35911859	B cell %lymphocyte	ebi-a-GCST90001644	1	235098109	G	A	3669	0.32	0.07	0.00	0.01	21.11
rs3738088	B cell %lymphocyte	ebi-a-GCST90001644	1	18554670	T	G	3669	0.52	0.11	0.00	0.01	21.87
rs72810052	B cell %lymphocyte	ebi-a-GCST90001644	2	25478461	A	G	3669	0.84	0.18	0.00	0.01	20.95
rs2679580	B cell %lymphocyte	ebi-a-GCST90001644	3	8845344	G	A	3669	-0.12	0.02	0.00	0.01	23.19
rs74535587	B cell %lymphocyte	ebi-a-GCST90001644	3	8296294	A	G	3669	-0.45	0.10	0.00	0.01	19.57
rs13108273	B cell %lymphocyte	ebi-a-GCST90001644	4	25699326	C	T	3669	0.18	0.04	0.00	0.01	19.75
rs112526427	B cell %lymphocyte	ebi-a-GCST90001644	4	151386190	T	G	3669	0.30	0.07	0.00	0.01	19.74
rs34588768	B cell %lymphocyte	ebi-a-GCST90001644	4	55012690	T	C	3669	-0.42	0.09	0.00	0.01	19.78
rs191368650	B cell %lymphocyte	ebi-a-GCST90001644	4	110029714	T	G	3669	-0.43	0.09	0.00	0.01	21.78
rs115698234	B cell %lymphocyte	ebi-a-GCST90001644	5	66793608	G	A	3669	0.54	0.12	0.00	0.01	21.62
rs9368867	B cell %lymphocyte	ebi-a-GCST90001644	6	11760807	A	C	3669	-0.13	0.03	0.00	0.01	24.11
rs150774187	B cell %lymphocyte	ebi-a-GCST90001644	7	100536678	A	G	3669	0.17	0.04	0.00	0.01	22.80
rs1557987	B cell %lymphocyte	ebi-a-GCST90001644	7	26591929	G	A	3669	0.14	0.03	0.00	0.01	19.83
rs2395904	B cell %lymphocyte	ebi-a-GCST90001644	8	130617819	G	T	3669	-0.14	0.03	0.00	0.01	26.08

rs6985401	B cell %lymphocyte	ebi-a-GCST90001644	8	27753061	G	A	3669	-0.44	0.10	0.00	0.01	19.74
rs77233730	B cell %lymphocyte	ebi-a-GCST90001644	8	118635981	T	C	3669	-0.21	0.04	0.00	0.01	22.55
rs73520190	B cell %lymphocyte	ebi-a-GCST90001644	9	118765180	G	T	3669	0.41	0.08	0.00	0.01	24.53
rs1572133	B cell %lymphocyte	ebi-a-GCST90001644	10	85432638	A	G	3669	-0.14	0.03	0.00	0.01	20.42
rs4748742	B cell %lymphocyte	ebi-a-GCST90001644	10	7177305	T	C	3669	0.11	0.02	0.00	0.01	22.14
rs536579180	B cell %lymphocyte	ebi-a-GCST90001644	11	14756839	A	G	3669	0.54	0.11	0.00	0.01	23.80
rs142089808	B cell %lymphocyte	ebi-a-GCST90001644	11	116171120	G	A	3669	-1.04	0.19	0.00	0.01	29.06
rs7483614	B cell %lymphocyte	ebi-a-GCST90001644	11	32729647	C	T	3669	0.15	0.03	0.00	0.01	20.34
rs58114937	B cell %lymphocyte	ebi-a-GCST90001644	12	67638132	G	A	3669	0.17	0.04	0.00	0.01	22.67
rs7990182	B cell %lymphocyte	ebi-a-GCST90001644	13	110384132	G	T	3669	-0.13	0.02	0.00	0.01	27.47
rs12874404	B cell %lymphocyte	ebi-a-GCST90001644	13	108993494	G	A	3669	0.23	0.03	0.00	0.02	74.42
rs1408899	B cell %lymphocyte	ebi-a-GCST90001644	13	108634581	A	G	3669	0.13	0.03	0.00	0.01	20.19
rs9520905	B cell %lymphocyte	ebi-a-GCST90001644	13	109146439	T	G	3669	0.13	0.02	0.00	0.01	25.69
rs11627066	B cell %lymphocyte	ebi-a-GCST90001644	14	66304049	T	C	3669	-0.12	0.02	0.00	0.01	22.76
rs66777340	B cell %lymphocyte	ebi-a-GCST90001644	17	2716327	T	C	3669	-0.15	0.02	0.00	0.01	38.07
rs3894193	B cell %lymphocyte	ebi-a-GCST90001644	17	38125346	G	C	3669	0.13	0.03	0.00	0.01	27.10
rs144426024	B cell %lymphocyte	ebi-a-GCST90001644	18	56897917	T	C	3669	0.52	0.11	0.00	0.01	21.01
rs55658072	B cell %lymphocyte	ebi-a-GCST90001644	19	14873284	G	A	3669	0.11	0.03	0.00	0.01	19.94
rs2223650	B cell %lymphocyte	ebi-a-GCST90001644	20	9831513	T	G	3669	-0.12	0.03	0.00	0.01	21.48
rs5754162	B cell %lymphocyte	ebi-a-GCST90001644	22	32991307	A	T	3669	0.14	0.03	0.00	0.01	28.37
rs183053322	NK AC	ebi-a-GCST90001645	1	25076059	T	C	3653	-0.39	0.07	0.00	0.01	34.86
rs55971447	NK AC	ebi-a-GCST90001645	1	161515326	T	C	3653	-0.13	0.03	0.00	0.01	21.19
rs3789102	NK AC	ebi-a-GCST90001645	2	111724375	T	C	3653	0.11	0.02	0.00	0.01	20.97
rs17824379	NK AC	ebi-a-GCST90001645	3	5810961	G	A	3653	-1.19	0.22	0.00	0.01	28.85
rs7736582	NK AC	ebi-a-GCST90001645	5	40991344	T	C	3653	0.18	0.04	0.00	0.01	20.77
rs74938505	NK AC	ebi-a-GCST90001645	5	89498010	T	C	3653	-0.35	0.07	0.00	0.01	22.26
rs17605177	NK AC	ebi-a-GCST90001645	7	126074598	A	T	3653	0.18	0.04	0.00	0.01	19.94
rs2922076	NK AC	ebi-a-GCST90001645	8	99861962	A	G	3653	0.11	0.03	0.00	0.01	20.29
rs59536859	NK AC	ebi-a-GCST90001645	9	126947962	G	A	3653	-0.17	0.03	0.00	0.01	22.73
rs13287806	NK AC	ebi-a-GCST90001645	9	133252691	A	G	3653	0.14	0.03	0.00	0.01	20.27
rs184712	NK AC	ebi-a-GCST90001645	12	58141602	T	C	3653	-0.19	0.04	0.00	0.01	22.44
rs597808	NK AC	ebi-a-GCST90001645	12	111973358	G	A	3653	-0.12	0.03	0.00	0.01	21.85
rs78664638	NK AC	ebi-a-GCST90001645	13	85391377	C	T	3653	0.62	0.13	0.00	0.01	21.16
rs34341378	NK AC	ebi-a-GCST90001645	13	74994547	T	A	3653	0.16	0.03	0.00	0.01	23.49
rs541558027	NK AC	ebi-a-GCST90001645	14	87892054	C	A	3653	0.76	0.17	0.00	0.01	21.20
rs1257331	NK AC	ebi-a-GCST90001645	14	99784255	T	C	3653	0.12	0.02	0.00	0.01	22.81
rs11637587	NK AC	ebi-a-GCST90001645	15	46249557	T	C	3653	-0.86	0.19	0.00	0.01	19.62
rs935320	NK AC	ebi-a-GCST90001645	15	57644442	T	A	3653	-0.20	0.04	0.00	0.01	21.34
rs7216096	NK AC	ebi-a-GCST90001645	17	33772954	A	G	3653	0.20	0.03	0.00	0.01	38.33
rs9916257	NK AC	ebi-a-GCST90001645	17	33797371	T	G	3653	-0.20	0.02	0.00	0.02	69.87
rs6607353	NK AC	ebi-a-GCST90001645	17	35252013	A	G	3653	-0.12	0.03	0.00	0.01	20.37
rs150434441	NK AC	ebi-a-GCST90001645	19	10409323	G	A	3653	-0.11	0.02	0.00	0.01	20.75

rs12087279	NK %CD3-lymphocyte	ebi-a-GCST90001646	1	82243292	T	C	3669	-0.17	0.04	0.00	0.01	21.03
rs183053322	NK %CD3-lymphocyte	ebi-a-GCST90001646	1	25076059	T	C	3669	-0.42	0.07	0.00	0.01	39.66
rs55971447	NK %CD3-lymphocyte	ebi-a-GCST90001646	1	161515326	T	C	3669	-0.15	0.03	0.00	0.01	27.34
rs190518013	NK %CD3-lymphocyte	ebi-a-GCST90001646	4	109649839	T	A	3669	-1.29	0.27	0.00	0.01	23.20
rs34588768	NK %CD3-lymphocyte	ebi-a-GCST90001646	4	55012690	T	C	3669	0.42	0.09	0.00	0.01	21.40
rs191368650	NK %CD3-lymphocyte	ebi-a-GCST90001646	4	110029714	T	G	3669	0.42	0.09	0.00	0.01	21.43
rs11954223	NK %CD3-lymphocyte	ebi-a-GCST90001646	5	67413499	A	G	3669	-2.09	0.36	0.00	0.01	32.97
rs77438219	NK %CD3-lymphocyte	ebi-a-GCST90001646	5	66776987	A	G	3669	-1.20	0.24	0.00	0.01	25.24
rs35483654	NK %CD3-lymphocyte	ebi-a-GCST90001646	5	133009855	T	C	3669	-0.52	0.11	0.00	0.01	23.56
rs56311672	NK %CD3-lymphocyte	ebi-a-GCST90001646	5	106196268	T	A	3669	-2.32	0.50	0.00	0.01	21.33
rs56289531	NK %CD3-lymphocyte	ebi-a-GCST90001646	7	36221410	T	G	3669	0.24	0.05	0.00	0.01	20.35
rs2213306	NK %CD3-lymphocyte	ebi-a-GCST90001646	8	28615433	A	G	3669	-0.12	0.03	0.00	0.01	20.20
rs142527102	NK %CD3-lymphocyte	ebi-a-GCST90001646	8	17769401	C	T	3669	-0.75	0.16	0.00	0.01	20.94
rs2623730	NK %CD3-lymphocyte	ebi-a-GCST90001646	8	3612222	T	C	3669	-1.02	0.23	0.00	0.01	20.09
rs146445024	NK %CD3-lymphocyte	ebi-a-GCST90001646	9	96368316	T	C	3669	0.50	0.11	0.00	0.01	19.92
rs73520180	NK %CD3-lymphocyte	ebi-a-GCST90001646	9	118756021	C	T	3669	-0.39	0.08	0.00	0.01	22.28
rs1915649	NK %CD3-lymphocyte	ebi-a-GCST90001646	10	66556168	T	C	3669	-1.81	0.37	0.00	0.01	23.70
rs17823772	NK %CD3-lymphocyte	ebi-a-GCST90001646	10	105928767	T	C	3669	-0.22	0.04	0.00	0.01	23.62
rs2433423	NK %CD3-lymphocyte	ebi-a-GCST90001646	11	86428029	C	T	3669	-0.43	0.09	0.00	0.01	23.48
rs12874404	NK %CD3-lymphocyte	ebi-a-GCST90001646	13	108993494	G	A	3669	-0.15	0.03	0.00	0.01	32.03
rs4239087	NK %CD3-lymphocyte	ebi-a-GCST90001646	17	63434313	C	T	3669	-0.59	0.12	0.00	0.01	23.68
rs9916257	NK %CD3-lymphocyte	ebi-a-GCST90001646	17	33797371	T	G	3669	-0.19	0.02	0.00	0.02	64.57
rs7218011	NK %CD3-lymphocyte	ebi-a-GCST90001646	17	33773022	G	A	3669	0.18	0.03	0.00	0.01	31.90
rs111661128	NK %CD3-lymphocyte	ebi-a-GCST90001646	17	76403698	A	G	3669	0.38	0.08	0.00	0.01	22.25
rs78468114	NK %CD3-lymphocyte	ebi-a-GCST90001646	18	8581509	T	C	3669	-1.83	0.40	0.00	0.01	21.37
rs281407	NK %CD3-lymphocyte	ebi-a-GCST90001646	19	49233335	A	G	3669	0.12	0.03	0.00	0.01	21.71
rs73174907	NK %CD3-lymphocyte	ebi-a-GCST90001646	22	43064030	A	T	3669	-0.19	0.04	0.00	0.01	26.18
rs115644251	NK %lymphocyte	ebi-a-GCST90001647	1	97773324	T	C	3669	0.26	0.06	0.00	0.01	20.84
rs183053322	NK %lymphocyte	ebi-a-GCST90001647	1	25076059	T	C	3669	-0.41	0.06	0.00	0.01	40.23
rs144650982	NK %lymphocyte	ebi-a-GCST90001647	1	93553003	T	C	3669	0.55	0.12	0.00	0.01	19.72
rs115345454	NK %lymphocyte	ebi-a-GCST90001647	3	163251716	C	A	3669	0.73	0.16	0.00	0.01	19.75
rs6552764	NK %lymphocyte	ebi-a-GCST90001647	4	185104503	T	A	3669	-0.20	0.04	0.00	0.01	21.31
rs77438219	NK %lymphocyte	ebi-a-GCST90001647	5	66776987	A	G	3669	-1.13	0.24	0.00	0.01	23.09
rs56311672	NK %lymphocyte	ebi-a-GCST90001647	5	106196268	T	A	3669	-2.29	0.49	0.00	0.01	21.82
rs11954223	NK %lymphocyte	ebi-a-GCST90001647	5	67413499	A	G	3669	-1.68	0.36	0.00	0.01	22.03
rs2546701	NK %lymphocyte	ebi-a-GCST90001647	5	168938336	G	A	3669	0.11	0.02	0.00	0.01	19.95
rs10948071	NK %lymphocyte	ebi-a-GCST90001647	6	43280713	T	C	3669	0.11	0.02	0.00	0.01	22.67

rs2269705	NK %lymphocyte	ebi-a-GCST90001647	6	30656847	C	T	3669	0.17	0.04	0.00	0.01	21.42
rs182077215	NK %lymphocyte	ebi-a-GCST90001647	8	132608541	T	C	3669	0.44	0.10	0.00	0.01	20.72
rs10118740	NK %lymphocyte	ebi-a-GCST90001647	9	122199843	A	G	3669	-0.27	0.06	0.00	0.01	21.90
rs149863465	NK %lymphocyte	ebi-a-GCST90001647	9	88631496	A	G	3669	0.33	0.07	0.00	0.01	20.47
rs2433423	NK %lymphocyte	ebi-a-GCST90001647	11	86428029	C	T	3669	-0.43	0.09	0.00	0.01	23.83
rs73027720	NK %lymphocyte	ebi-a-GCST90001647	11	122327282	T	C	3669	-0.99	0.22	0.00	0.01	20.71
rs7998044	NK %lymphocyte	ebi-a-GCST90001647	13	110673614	C	T	3669	0.27	0.06	0.00	0.01	20.35
rs10512469	NK %lymphocyte	ebi-a-GCST90001647	17	33770802	T	C	3669	0.25	0.03	0.00	0.02	63.58
rs9916257	NK %lymphocyte	ebi-a-GCST90001647	17	33797371	T	G	3669	-0.23	0.02	0.00	0.03	101.42
rs187230794	NK %lymphocyte	ebi-a-GCST90001647	17	16149107	C	T	3669	-0.99	0.22	0.00	0.01	20.41
rs113667813	NK %lymphocyte	ebi-a-GCST90001647	17	76674023	A	G	3669	0.25	0.06	0.00	0.01	20.34
rs281414	NK %lymphocyte	ebi-a-GCST90001647	19	10450285	A	G	3669	0.13	0.03	0.00	0.01	20.64
rs62130952	NK %lymphocyte	ebi-a-GCST90001647	19	57182897	A	G	3669	-1.28	0.28	0.00	0.01	21.27
rs281407	NK %lymphocyte	ebi-a-GCST90001647	19	49233335	A	G	3669	0.12	0.02	0.00	0.01	22.47
rs2426800	NK %lymphocyte	ebi-a-GCST90001647	20	58174503	T	C	3669	0.10	0.02	0.00	0.01	19.76
rs3787412	NK %lymphocyte	ebi-a-GCST90001647	20	60481054	A	C	3669	-0.19	0.04	0.00	0.01	22.14
rs57576269	NK %lymphocyte	ebi-a-GCST90001647	21	42516902	A	C	3669	-0.13	0.03	0.00	0.01	20.23
rs73174907	NK %lymphocyte	ebi-a-GCST90001647	22	43064030	A	T	3669	-0.19	0.04	0.00	0.01	24.89
rs71639910	HLA DR+ NK AC	ebi-a-GCST90001648	1	161937774	A	G	3580	-0.30	0.05	0.00	0.01	37.22
rs74341264	HLA DR+ NK AC	ebi-a-GCST90001648	1	161561151	A	G	3580	0.34	0.04	0.00	0.02	80.11
rs71632989	HLA DR+ NK AC	ebi-a-GCST90001648	1	161533055	G	T	3580	-0.70	0.03	0.00	0.16	674.19
rs2880640	HLA DR+ NK AC	ebi-a-GCST90001648	1	162879819	C	T	3580	-0.12	0.03	0.00	0.01	20.49
rs75673714	HLA DR+ NK AC	ebi-a-GCST90001648	2	42135201	C	G	3580	-0.14	0.03	0.00	0.01	21.22
rs6750412	HLA DR+ NK AC	ebi-a-GCST90001648	2	155323352	C	T	3580	-0.14	0.03	0.00	0.01	22.98
rs79676986	HLA DR+ NK AC	ebi-a-GCST90001648	2	102532879	C	A	3580	0.26	0.06	0.00	0.01	20.54
rs370476	HLA DR+ NK AC	ebi-a-GCST90001648	3	5258431	A	G	3580	0.13	0.03	0.00	0.01	19.70
rs2047610	HLA DR+ NK AC	ebi-a-GCST90001648	3	20847169	A	G	3580	-0.16	0.04	0.00	0.01	19.94
rs1862176	HLA DR+ NK AC	ebi-a-GCST90001648	5	139730444	A	G	3580	-0.13	0.03	0.00	0.01	23.47
rs111621170	HLA DR+ NK AC	ebi-a-GCST90001648	5	34861285	A	G	3580	-0.18	0.04	0.00	0.01	20.03
rs35089291	HLA DR+ NK AC	ebi-a-GCST90001648	8	21132144	G	A	3580	-0.23	0.05	0.00	0.01	20.74
rs59613483	HLA DR+ NK AC	ebi-a-GCST90001648	11	46937611	C	T	3580	-0.28	0.06	0.00	0.01	20.45
rs79168765	HLA DR+ NK AC	ebi-a-GCST90001648	13	90033065	A	G	3580	0.30	0.07	0.00	0.01	20.26
rs8025803	HLA DR+ NK AC	ebi-a-GCST90001648	15	80260273	T	A	3580	-0.27	0.03	0.00	0.02	63.64
rs182834114	HLA DR+ NK AC	ebi-a-GCST90001648	16	9558024	G	A	3580	-0.31	0.07	0.00	0.01	21.28
rs4076588	HLA DR+ NK AC	ebi-a-GCST90001648	17	70686441	A	C	3580	0.12	0.03	0.00	0.01	21.73
rs139025334	HLA DR+ NK AC	ebi-a-GCST90001648	20	48944963	A	G	3580	0.22	0.05	0.00	0.01	20.42
rs111288272	HLA DR+ NK AC	ebi-a-GCST90001648	22	46804519	G	A	3580	0.21	0.05	0.00	0.01	20.01

rs865239	HLA DR+ NK %NK	ebi-a-GCST90001649	1	156896164	G	A	3596	-0.14	0.03	0.00	0.01	29.84
rs71632989	HLA DR+ NK %NK	ebi-a-GCST90001649	1	161533055	G	T	3596	-0.68	0.03	0.00	0.15	609.96
rs72685367	HLA DR+ NK %NK	ebi-a-GCST90001649	1	78442686	G	C	3596	0.37	0.08	0.00	0.01	23.31
rs74341264	HLA DR+ NK %NK	ebi-a-GCST90001649	1	161561151	A	G	3596	0.33	0.04	0.00	0.02	74.02
rs4656984	HLA DR+ NK %NK	ebi-a-GCST90001649	1	161078909	C	T	3596	0.14	0.03	0.00	0.01	27.92
rs71424967	HLA DR+ NK %NK	ebi-a-GCST90001649	2	238315335	T	C	3596	0.86	0.18	0.00	0.01	23.24
rs80171191	HLA DR+ NK %NK	ebi-a-GCST90001649	2	69059451	T	C	3596	-0.16	0.03	0.00	0.01	22.23
rs3135080	HLA DR+ NK %NK	ebi-a-GCST90001649	4	2399058	G	A	3596	-0.12	0.03	0.00	0.01	22.04
rs6833916	HLA DR+ NK %NK	ebi-a-GCST90001649	4	24948155	T	G	3596	0.14	0.03	0.00	0.01	21.73
rs142307180	HLA DR+ NK %NK	ebi-a-GCST90001649	4	1488517	T	C	3596	-0.32	0.07	0.00	0.01	20.00
rs1862176	HLA DR+ NK %NK	ebi-a-GCST90001649	5	139730444	A	G	3596	-0.14	0.03	0.00	0.01	25.85
rs61745530	HLA DR+ NK %NK	ebi-a-GCST90001649	6	47976361	T	G	3596	-0.36	0.08	0.00	0.01	20.43
rs592776	HLA DR+ NK %NK	ebi-a-GCST90001649	6	153846268	A	T	3596	-0.64	0.13	0.00	0.01	23.60
rs10260467	HLA DR+ NK %NK	ebi-a-GCST90001649	7	11300995	T	A	3596	0.15	0.03	0.00	0.01	20.27
rs17307458	HLA DR+ NK %NK	ebi-a-GCST90001649	8	60104360	T	C	3596	-0.52	0.11	0.00	0.01	21.70
rs145013190	HLA DR+ NK %NK	ebi-a-GCST90001649	8	98791630	A	T	3596	-0.44	0.09	0.00	0.01	24.69
rs56329333	HLA DR+ NK %NK	ebi-a-GCST90001649	9	118136745	A	C	3596	-1.17	0.26	0.00	0.01	20.41
rs117338457	HLA DR+ NK %NK	ebi-a-GCST90001649	11	69354886	T	G	3596	0.29	0.06	0.00	0.01	22.30
rs17119267	HLA DR+ NK %NK	ebi-a-GCST90001649	14	84382486	A	G	3596	0.28	0.06	0.00	0.01	19.95
rs7180804	HLA DR+ NK %NK	ebi-a-GCST90001649	15	80259074	A	G	3596	-0.25	0.03	0.00	0.02	69.91
rs72770017	HLA DR+ NK %NK	ebi-a-GCST90001649	16	10973612	A	G	3596	-0.14	0.03	0.00	0.01	21.20
rs9916257	HLA DR+ NK %NK	ebi-a-GCST90001649	17	33797371	T	G	3596	0.15	0.03	0.00	0.01	33.78
rs12462814	HLA DR+ NK %NK	ebi-a-GCST90001649	19	29496714	C	T	3596	-0.11	0.03	0.00	0.01	19.88
rs148177889	HLA DR+ NK %NK	ebi-a-GCST90001649	20	709089	T	C	3596	-0.59	0.12	0.00	0.01	22.86
rs72685367	NK %CD3- lymphocyte HLA DR+	ebi-a-GCST90001650	1	78442686	G	C	3596	0.35	0.07	0.00	0.01	21.46
rs2880640	NK %CD3- lymphocyte HLA DR+	ebi-a-GCST90001650	1	162879819	C	T	3596	-0.13	0.03	0.00	0.01	23.09
rs74341264	NK %CD3- lymphocyte HLA DR+	ebi-a-GCST90001650	1	161561151	A	G	3596	0.34	0.04	0.00	0.02	81.66
rs71632979	NK %CD3- lymphocyte HLA DR+	ebi-a-GCST90001650	1	161526397	G	A	3596	-0.71	0.03	0.00	0.16	703.06
rs71639910	NK %CD3- lymphocyte HLA DR+	ebi-a-GCST90001650	1	161937774	A	G	3596	-0.27	0.05	0.00	0.01	30.67
rs79676986	NK %CD3- lymphocyte HLA DR+	ebi-a-GCST90001650	2	102532879	C	A	3596	0.27	0.06	0.00	0.01	21.14
rs71424967	NK %CD3- lymphocyte HLA DR+	ebi-a-GCST90001650	2	238315335	T	C	3596	0.79	0.17	0.00	0.01	20.66
rs4684938	NK %CD3- lymphocyte	ebi-a-GCST90001650	3	1412674	A	G	3596	-0.20	0.04	0.00	0.01	20.51

rs3135080	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	4	2399058	G	A	3596	-0.12	0.03	0.00	0.01	20.94
rs1862176	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	5	139730444	A	G	3596	-0.15	0.03	0.00	0.01	29.31
rs61745530	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	6	47976361	T	G	3596	-0.36	0.08	0.00	0.01	21.30
rs592776	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	6	153846268	A	T	3596	-0.59	0.13	0.00	0.01	20.28
rs10260467	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	7	11300995	T	A	3596	0.14	0.03	0.00	0.01	19.56
rs145013190	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	8	98791630	A	T	3596	-0.40	0.09	0.00	0.01	21.20
rs4582908	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	10	86885802	G	C	3596	-0.11	0.03	0.00	0.01	20.42
rs11595870	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	10	12408809	A	G	3596	0.31	0.07	0.00	0.01	21.41
rs117338457	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	11	69354886	T	G	3596	0.28	0.06	0.00	0.01	20.77
rs78479083	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	12	104596209	C	G	3596	-0.51	0.12	0.00	0.01	19.82
rs144018284	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	13	48165147	T	C	3596	-0.62	0.14	0.00	0.01	20.81
rs436053	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	15	67252716	A	G	3596	-0.12	0.03	0.00	0.01	20.12
rs8025803	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	15	80260273	T	A	3596	-0.27	0.03	0.00	0.02	66.72
rs62028061	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	16	10961519	C	T	3596	-0.12	0.03	0.00	0.01	22.36
rs28816203	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	16	53157625	A	G	3596	0.12	0.03	0.00	0.01	23.08
rs4076588	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	17	70686441	A	C	3596	0.11	0.03	0.00	0.01	19.84
rs150102419	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	17	61353821	A	G	3596	0.64	0.14	0.00	0.01	22.16
rs1609454	HLA DR+ NK %CD3- lymphocyte	ebi-a-GCST90001650	19	9110431	G	A	3596	-0.12	0.03	0.00	0.01	21.08
rs11265198	Granulocyte AC	ebi-a-GCST90001651	1	159420307	A	G	3653	0.40	0.08	0.00	0.01	24.35
rs34599082	Granulocyte AC	ebi-a-GCST90001651	1	159175494	T	C	3653	-0.34	0.07	0.00	0.01	25.49
rs12618511	Granulocyte AC	ebi-a-GCST90001651	2	1874340	C	T	3653	-0.27	0.05	0.00	0.01	25.22
rs6757897	Granulocyte AC	ebi-a-GCST90001651	2	66830010	C	T	3653	0.33	0.07	0.00	0.01	21.51
rs13383581	Granulocyte AC	ebi-a-GCST90001651	2	70824249	G	A	3653	-0.34	0.08	0.00	0.01	19.73
rs1914722	Granulocyte AC	ebi-a-GCST90001651	2	50925528	G	C	3653	-0.11	0.03	0.00	0.01	20.08
rs9851753	Granulocyte AC	ebi-a-GCST90001651	3	143886418	T	C	3653	-0.64	0.14	0.00	0.01	20.58
rs9852120	Granulocyte AC	ebi-a-GCST90001651	3	23767055	T	C	3653	0.12	0.02	0.00	0.01	23.92
rs1563320	Granulocyte AC	ebi-a-GCST90001651	5	97763960	C	T	3653	-0.11	0.02	0.00	0.01	21.02
rs72762395	Granulocyte AC	ebi-a-GCST90001651	5	43904012	T	C	3653	-0.34	0.07	0.00	0.01	20.94

rs7805092	Granulocyte AC	ebi-a-GCST90001651	7	2768935	T	G	3653	-0.11	0.02	0.00	0.01	19.54
rs4074900	Granulocyte AC	ebi-a-GCST90001651	8	144276224	G	T	3653	0.14	0.03	0.00	0.01	21.93
rs1890595	Granulocyte AC	ebi-a-GCST90001651	9	35679591	T	C	3653	0.12	0.03	0.00	0.01	21.23
rs75350000	Granulocyte AC	ebi-a-GCST90001651	10	11312276	A	G	3653	-0.74	0.16	0.00	0.01	20.11
rs481252	Granulocyte AC	ebi-a-GCST90001651	11	134188542	C	T	3653	0.11	0.02	0.00	0.01	20.05
rs671160	Granulocyte AC	ebi-a-GCST90001651	11	117952387	T	C	3653	-0.19	0.04	0.00	0.01	23.14
rs78270456	Granulocyte AC	ebi-a-GCST90001651	11	5229028	A	C	3653	0.18	0.04	0.00	0.01	20.22
rs77799904	Granulocyte AC	ebi-a-GCST90001651	12	3152264	C	T	3653	-0.25	0.06	0.00	0.01	20.66
rs11158220	Granulocyte AC	ebi-a-GCST90001651	14	59282769	A	G	3653	-0.16	0.04	0.00	0.01	20.19
rs12450800	Granulocyte AC	ebi-a-GCST90001651	17	38144116	T	C	3653	-0.12	0.03	0.00	0.01	19.70
rs77650974	Granulocyte AC	ebi-a-GCST90001651	18	12394263	A	G	3653	0.13	0.03	0.00	0.01	22.46
rs17879224	Granulocyte AC	ebi-a-GCST90001651	19	4951885	A	G	3653	-1.78	0.39	0.00	0.01	20.52
rs150954312	Granulocyte AC	ebi-a-GCST90001651	19	50754898	C	G	3653	0.27	0.06	0.00	0.01	21.73
rs35566998	Granulocyte AC	ebi-a-GCST90001651	20	60651297	A	G	3653	-0.13	0.03	0.00	0.01	22.83
rs185512917	Granulocyte AC	ebi-a-GCST90001651	20	48187302	T	C	3653	-0.86	0.18	0.00	0.01	22.05
rs9729039	Granulocyte %leukocyte	ebi-a-GCST90001652	1	226280379	T	C	3669	-0.96	0.21	0.00	0.01	20.05
rs112405229	Granulocyte %leukocyte	ebi-a-GCST90001652	1	240584083	A	G	3669	0.29	0.06	0.00	0.01	21.09
rs6701133	Granulocyte %leukocyte	ebi-a-GCST90001652	1	62836414	C	T	3669	0.12	0.02	0.00	0.01	24.99
rs34599082	Granulocyte %leukocyte	ebi-a-GCST90001652	1	159175494	T	C	3669	-0.32	0.07	0.00	0.01	22.72
rs11805388	Granulocyte %leukocyte	ebi-a-GCST90001652	1	172302386	G	A	3669	0.38	0.09	0.00	0.01	19.79
rs1116294	Granulocyte %leukocyte	ebi-a-GCST90001652	2	49764298	T	C	3669	-0.12	0.03	0.00	0.01	19.77
rs265772	Granulocyte %leukocyte	ebi-a-GCST90001652	3	1371260	G	T	3669	-0.20	0.05	0.00	0.01	19.66
rs893978	Granulocyte %leukocyte	ebi-a-GCST90001652	3	74174855	T	C	3669	-0.38	0.08	0.00	0.01	21.92
rs114188428	Granulocyte %leukocyte	ebi-a-GCST90001652	3	39765597	C	T	3669	1.13	0.25	0.00	0.01	20.13
rs78277075	Granulocyte %leukocyte	ebi-a-GCST90001652	4	183543742	G	A	3669	-0.37	0.08	0.00	0.01	20.89
rs4588497	Granulocyte %leukocyte	ebi-a-GCST90001652	4	44447116	T	C	3669	-0.16	0.04	0.00	0.01	20.49
rs184624056	Granulocyte %leukocyte	ebi-a-GCST90001652	4	259809	G	A	3669	0.54	0.12	0.00	0.01	19.63
rs35640478	Granulocyte %leukocyte	ebi-a-GCST90001652	6	22954240	T	C	3669	-0.18	0.04	0.00	0.01	20.92
rs11998531	Granulocyte %leukocyte	ebi-a-GCST90001652	8	120860297	G	C	3669	0.16	0.03	0.00	0.01	23.78
rs74674596	Granulocyte %leukocyte	ebi-a-GCST90001652	9	137658621	T	C	3669	0.54	0.12	0.00	0.01	19.74
rs79040043	Granulocyte %leukocyte	ebi-a-GCST90001652	10	85710935	A	G	3669	0.43	0.10	0.00	0.01	20.07
rs8177701	Granulocyte %leukocyte	ebi-a-GCST90001652	10	6003312	G	A	3669	-0.20	0.04	0.00	0.01	20.47
rs2434066	Granulocyte %leukocyte	ebi-a-GCST90001652	10	83891503	C	A	3669	0.17	0.04	0.00	0.01	22.63
rs481252	Granulocyte %leukocyte	ebi-a-GCST90001652	11	134188542	C	T	3669	0.12	0.02	0.00	0.01	25.46
rs61415458	Granulocyte %leukocyte	ebi-a-GCST90001652	12	20726031	C	T	3669	0.15	0.03	0.00	0.01	19.91
rs79855296	Granulocyte %leukocyte	ebi-a-GCST90001652	14	100617766	T	C	3669	-0.12	0.03	0.00	0.01	21.59
rs145016200	Granulocyte %leukocyte	ebi-a-GCST90001652	14	101601125	T	C	3669	-0.26	0.06	0.00	0.01	21.23

rs137979325	Granulocyte %leukocyte	ebi-a-GCST90001652	17	36460632	T	C	3669	0.62	0.14	0.00	0.01	19.72
rs7219272	Granulocyte %leukocyte	ebi-a-GCST90001652	17	9142206	A	G	3669	-0.12	0.03	0.00	0.01	21.50
rs77650974	Granulocyte %leukocyte	ebi-a-GCST90001652	18	12394263	A	G	3669	0.15	0.03	0.00	0.01	32.54
rs2837766	Granulocyte %leukocyte	ebi-a-GCST90001652	21	42028282	T	C	3669	-0.12	0.03	0.00	0.01	20.03
rs78686313	CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	1	14588462	T	C	3440	-0.80	0.17	0.00	0.01	21.18
rs17187533	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	1	208712244	A	G	3440	-0.84	0.18	0.00	0.01	21.32
rs6734907	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	2	106914029	T	C	3440	0.12	0.03	0.00	0.01	20.03
rs10174322	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	2	7659940	G	A	3440	-0.15	0.03	0.00	0.01	28.95
rs11128263	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	3	72391950	T	G	3440	-0.12	0.03	0.00	0.01	21.53
rs66989520	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	4	147357834	T	C	3440	0.17	0.04	0.00	0.01	23.02
rs11930576	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	4	169595404	C	T	3440	-0.13	0.03	0.00	0.01	22.83
rs143066848	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	5	83073780	G	A	3440	-0.29	0.06	0.00	0.01	23.26
rs114170505	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	6	32666487	C	T	3440	-0.20	0.04	0.00	0.01	23.28
rs9488834	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	6	97889936	A	G	3440	0.27	0.06	0.00	0.01	20.44
rs74593262	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	6	15826226	T	C	3440	-1.71	0.36	0.00	0.01	23.18
rs79967252	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	7	143153812	A	G	3440	-0.44	0.10	0.00	0.01	19.95
rs56009006	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	7	132484052	T	C	3440	0.25	0.05	0.00	0.01	23.57
rs79012126	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	9	138405739	T	C	3440	0.17	0.04	0.00	0.01	20.20
rs141291061	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	9	71650333	A	T	3440	0.24	0.05	0.00	0.01	20.56
rs4391487	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	9	94905724	C	T	3440	0.19	0.04	0.00	0.01	20.56
rs1875167	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	10	2967899	C	T	3440	-0.15	0.03	0.00	0.01	25.61
rs12770129	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	10	132175707	T	C	3440	-0.28	0.06	0.00	0.01	20.80
rs35409720	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	11	277365	A	G	3440	-0.13	0.03	0.00	0.01	20.13
rs61894112	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	11	99376355	A	C	3440	-0.16	0.04	0.00	0.01	20.84
rs7134223	%DN CD28- DN (CD4-CD8-)	ebi-a-GCST90001653	12	73854918	G	T	3440	0.32	0.07	0.00	0.01	20.28
rs78409217	%DN (CD4-CD8-)	ebi-a-GCST90001653	14	67161374	G	A	3440	-0.25	0.05	0.00	0.01	20.49

rs75187775	CD28- DN (CD4-CD8-) %DN	ebi-a-GCST90001653	14	22497057	T	C	3440	0.24	0.05	0.00	0.01	19.89
rs149302210	CD28- DN (CD4-CD8-) %DN	ebi-a-GCST90001653	14	25870244	G	A	3440	0.45	0.10	0.00	0.01	19.78
rs4796089	CD28- DN (CD4-CD8-) %DN	ebi-a-GCST90001653	17	33814758	C	T	3440	-0.24	0.04	0.00	0.01	43.05
rs9914549	CD28- DN (CD4-CD8-) %DN	ebi-a-GCST90001653	17	80624957	G	A	3440	-0.15	0.03	0.00	0.01	21.25
rs59211785	CD28- DN (CD4-CD8-) %DN	ebi-a-GCST90001653	17	80030971	T	C	3440	-0.20	0.04	0.00	0.01	22.71
rs1675243	CD28- DN (CD4-CD8-) %DN	ebi-a-GCST90001653	18	3668971	G	A	3440	-0.11	0.03	0.00	0.01	20.60
rs138517625	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	1	172681556	G	A	3408	0.78	0.18	0.00	0.01	19.62
rs115364254	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	1	222677137	G	T	3408	0.17	0.04	0.00	0.01	21.11
rs556844566	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	2	224185075	T	A	3408	-0.93	0.21	0.00	0.01	20.00
rs111891110	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	2	75659115	C	T	3408	0.30	0.07	0.00	0.01	20.34
rs6710361	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	2	87047145	A	G	3408	0.19	0.03	0.00	0.01	36.79
rs115953192	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	2	45208257	G	A	3408	-0.28	0.06	0.00	0.01	21.05
rs139755840	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	2	204522552	G	A	3408	0.32	0.07	0.00	0.01	20.65
rs76549873	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	2	75722749	C	T	3408	-0.51	0.11	0.00	0.01	19.81
rs11128263	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	3	72391950	T	G	3408	-0.12	0.03	0.00	0.01	22.09
rs66989520	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	4	147357834	T	C	3408	0.18	0.04	0.00	0.01	23.70
rs1580183	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	5	83043360	G	A	3408	-0.22	0.05	0.00	0.01	22.56
rs4298345	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	6	31240818	A	G	3408	0.35	0.08	0.00	0.01	19.90
rs79251210	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	6	100468602	A	G	3408	0.31	0.07	0.00	0.01	21.05
rs137931178	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	6	32329150	G	A	3408	-0.20	0.04	0.00	0.01	28.29
rs9488834	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	6	97889936	A	G	3408	0.27	0.06	0.00	0.01	20.18
rs74593262	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	6	15826226	T	C	3408	-1.71	0.35	0.00	0.01	23.41
rs10948242	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	6	45553259	A	T	3408	0.12	0.03	0.00	0.01	21.64
rs139249541	CD28- DN (CD4-CD8-) AC	ebi-a-GCST90001654	6	102294761	G	A	3408	0.38	0.07	0.00	0.01	26.66

rs140542258	CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	7	66909295	T	C	3408	0.54	0.12	0.00	0.01	20.29
rs7789422	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	7	132432591	C	A	3408	-0.11	0.03	0.00	0.01	19.67
rs2388191	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	8	103637374	C	T	3408	-0.13	0.03	0.00	0.01	23.98
rs7869045	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	9	124584495	A	G	3408	-0.27	0.06	0.00	0.01	20.42
rs10757255	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	9	21776631	A	G	3408	-0.13	0.03	0.00	0.01	24.15
rs36037322	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	10	96943194	C	T	3408	-0.15	0.03	0.00	0.01	26.14
rs10996820	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	10	67760890	A	T	3408	0.22	0.05	0.00	0.01	19.92
rs61894112	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	11	99376355	A	C	3408	-0.16	0.04	0.00	0.01	19.87
rs10850001	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	12	112553032	A	T	3408	0.12	0.03	0.00	0.01	20.21
rs140444563	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	12	31103286	G	T	3408	0.19	0.04	0.00	0.01	21.18
rs35765554	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	14	51318805	A	G	3408	0.14	0.03	0.00	0.01	19.82
rs11856833	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	15	86807884	C	A	3408	-0.14	0.03	0.00	0.01	20.45
rs140413577	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	17	48437860	A	G	3408	0.30	0.07	0.00	0.01	19.92
rs12453786	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	17	33272507	G	C	3408	-0.15	0.03	0.00	0.01	22.40
rs9896155	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	17	33794697	G	A	3408	0.19	0.03	0.00	0.01	47.77
rs9978065	AC CD28- DN (CD4-CD8-)	ebi-a-GCST90001654	21	15247433	C	T	3408	-0.16	0.03	0.00	0.01	25.13
rs72740660	AC CD28+ DN (CD4-CD8-)	ebi-a-GCST90001655	1	215938244	C	T	3440	0.20	0.04	0.00	0.01	20.25
rs79892959	%T cell CD28+ DN (CD4-CD8-)	ebi-a-GCST90001655	2	119667997	A	G	3440	0.31	0.07	0.00	0.01	21.52
rs3111416	%T cell CD28+ DN (CD4-CD8-)	ebi-a-GCST90001655	2	8452313	A	G	3440	0.11	0.02	0.00	0.01	23.24
rs34546581	%T cell CD28+ DN (CD4-CD8-)	ebi-a-GCST90001655	2	87021659	A	G	3440	0.17	0.03	0.00	0.01	33.21
rs115661735	%T cell CD28+ DN (CD4-CD8-)	ebi-a-GCST90001655	2	65358919	T	C	3440	0.22	0.05	0.00	0.01	20.02
rs9880099	%T cell CD28+ DN (CD4-CD8-)	ebi-a-GCST90001655	3	136255776	G	A	3440	-0.27	0.06	0.00	0.01	21.14
rs1979672	%T cell CD28+ DN (CD4-CD8-)	ebi-a-GCST90001655	3	46274109	G	A	3440	0.11	0.03	0.00	0.01	19.80
rs4077189	%T cell CD28+ DN (CD4-CD8-)	ebi-a-GCST90001655	3	185796785	A	G	3440	-0.24	0.05	0.00	0.01	20.94

rs144380153	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	5	169402564	A	G	3440	1.01	0.23	0.00	0.01	19.60
rs6890802	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	5	12611030	G	A	3440	0.18	0.04	0.00	0.01	22.19
rs112667234	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	5	68594062	C	T	3440	0.19	0.04	0.00	0.01	21.16
rs73503175	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	6	71939663	C	T	3440	0.47	0.10	0.00	0.01	22.10
rs55781756	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	6	32795706	A	G	3440	0.15	0.03	0.00	0.01	24.66
rs190300559	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	6	30718782	G	A	3440	0.24	0.05	0.00	0.01	20.28
rs35662273	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	6	7668809	A	G	3440	0.14	0.03	0.00	0.01	21.32
rs147994116	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	7	110080212	C	T	3440	1.74	0.36	0.00	0.01	23.49
rs111486611	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	7	85756157	T	C	3440	0.25	0.06	0.00	0.01	19.58
rs75581458	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	8	76719148	G	T	3440	-0.20	0.04	0.00	0.01	20.51
rs10987993	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	9	101625377	C	T	3440	0.16	0.04	0.00	0.01	20.11
rs75679242	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	11	44090370	A	C	3440	-0.18	0.04	0.00	0.01	26.13
rs57672161	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	14	101688448	T	C	3440	0.25	0.05	0.00	0.01	25.87
rs532816650	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	15	77852215	G	A	3440	0.91	0.19	0.00	0.01	22.90
rs17774204	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	17	21265508	C	G	3440	0.14	0.03	0.00	0.01	24.69
rs34825674	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	19	56583279	G	A	3440	-0.11	0.03	0.00	0.01	19.58
rs941206	CD28+ DN (CD4-CD8-) %T cell	ebi-a-GCST90001655	20	45261041	C	A	3440	-0.20	0.04	0.00	0.01	21.03
rs17187533	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	1	208712244	A	G	3440	0.84	0.18	0.00	0.01	21.32
rs78686313	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	1	14588462	T	C	3440	0.80	0.17	0.00	0.01	21.18
rs6734907	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	2	106914029	T	C	3440	-0.12	0.03	0.00	0.01	20.03
rs10174322	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	2	7659940	G	A	3440	0.15	0.03	0.00	0.01	28.95
rs11128263	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	3	72391950	T	G	3440	0.12	0.03	0.00	0.01	21.53
rs11930576	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	4	169595404	C	T	3440	0.13	0.03	0.00	0.01	22.83
rs66989520	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	4	147357834	T	C	3440	-0.17	0.04	0.00	0.01	23.02

rs143066848	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	5	83073780	G	A	3440	0.29	0.06	0.00	0.01	23.26
rs114170505	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	6	32666487	C	T	3440	0.20	0.04	0.00	0.01	23.28
rs9488834	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	6	97889936	A	G	3440	-0.27	0.06	0.00	0.01	20.44
rs74593262	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	6	15826226	T	C	3440	1.71	0.36	0.00	0.01	23.18
rs56009006	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	7	132484052	T	C	3440	-0.25	0.05	0.00	0.01	23.57
rs79967252	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	7	143153812	A	G	3440	0.44	0.10	0.00	0.01	19.95
rs4391487	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	9	94905724	C	T	3440	-0.19	0.04	0.00	0.01	20.56
rs141291061	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	9	71650333	A	T	3440	-0.24	0.05	0.00	0.01	20.56
rs79012126	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	9	138405739	T	C	3440	-0.17	0.04	0.00	0.01	20.20
rs1875167	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	10	2967899	C	T	3440	0.15	0.03	0.00	0.01	25.61
rs12770129	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	10	132175707	T	C	3440	0.28	0.06	0.00	0.01	20.80
rs35409720	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	11	277365	A	G	3440	0.13	0.03	0.00	0.01	20.13
rs61894112	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	11	99376355	A	C	3440	0.16	0.04	0.00	0.01	20.84
rs7134223	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	12	73854918	G	T	3440	-0.32	0.07	0.00	0.01	20.28
rs75187775	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	14	22497057	T	C	3440	-0.24	0.05	0.00	0.01	19.89
rs149302210	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	14	25870244	G	A	3440	-0.45	0.10	0.00	0.01	19.78
rs78409217	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	14	67161374	G	A	3440	0.25	0.05	0.00	0.01	20.49
rs59211785	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	17	80030971	T	C	3440	0.20	0.04	0.00	0.01	22.71
rs4796089	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	17	33814758	C	T	3440	0.24	0.04	0.00	0.01	43.05
rs9914549	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	17	80624957	G	A	3440	0.15	0.03	0.00	0.01	21.25
rs1675243	CD28+ DN (CD4-CD8-) %DN	ebi-a-GCST90001656	18	3668971	G	A	3440	0.11	0.03	0.00	0.01	20.60
rs35723887	CD28+ DN (CD4-CD8-) AC	ebi-a-GCST90001657	2	87021043	C	T	3408	0.14	0.03	0.00	0.01	27.55
rs77008070	CD28+ DN (CD4-CD8-) AC	ebi-a-GCST90001657	2	15471323	G	A	3408	0.28	0.06	0.00	0.01	19.78
rs77805826	CD28+ DN (CD4-CD8-) AC	ebi-a-GCST90001657	3	185798025	T	C	3408	-0.17	0.04	0.00	0.01	20.43

rs73829619	CD28+ DN (CD4-CD8-) AC	ebi-a-GCST90001657	4	68686165	G	T	3408	0.81	0.18	0.00	0.01	21.16
rs3757248	CD28+ DN (CD4-CD8-) AC	ebi-a-GCST90001657	6	90657536	T	C	3408	0.11	0.02	0.00	0.01	21.95
rs111474820	CD28+ DN (CD4-CD8-) AC	ebi-a-GCST90001657	9	4488885	G	T	3408	-0.54	0.11	0.00	0.01	22.20
rs11818898	CD28+ DN (CD4-CD8-) AC	ebi-a-GCST90001657	10	87516854	G	C	3408	0.27	0.05	0.00	0.01	27.80
rs116884829	CD28+ DN (CD4-CD8-) AC	ebi-a-GCST90001657	11	77173517	G	A	3408	0.15	0.03	0.00	0.01	20.47
rs7128994	CD28+ DN (CD4-CD8-) AC	ebi-a-GCST90001657	11	71242209	G	A	3408	-0.10	0.02	0.00	0.01	19.81
rs57672161	CD28+ DN (CD4-CD8-) AC	ebi-a-GCST90001657	14	101688448	T	C	3408	0.22	0.05	0.00	0.01	22.24
rs7214041	CD28+ DN (CD4-CD8-) AC	ebi-a-GCST90001657	17	70401476	T	C	3408	0.19	0.04	0.00	0.01	21.40
rs6044409	CD28+ DN (CD4-CD8-) AC	ebi-a-GCST90001657	20	16812087	A	G	3408	0.95	0.18	0.00	0.01	26.43
rs6686124	CD39+ CD4+ %T cell	ebi-a-GCST90001658	1	168745427	G	A	3440	0.17	0.04	0.00	0.01	21.01
rs115665382	CD39+ CD4+ %T cell	ebi-a-GCST90001658	3	116305711	A	T	3440	-0.63	0.13	0.00	0.01	21.58
rs74346764	CD39+ CD4+ %T cell	ebi-a-GCST90001658	3	145230069	A	G	3440	-0.58	0.12	0.00	0.01	22.33
rs114309505	CD39+ CD4+ %T cell	ebi-a-GCST90001658	4	4345603	G	A	3440	0.21	0.05	0.00	0.01	21.98
rs62421103	CD39+ CD4+ %T cell	ebi-a-GCST90001658	6	113160344	T	G	3440	0.22	0.05	0.00	0.01	21.37
rs6569455	CD39+ CD4+ %T cell	ebi-a-GCST90001658	6	126445961	G	A	3440	-0.14	0.03	0.00	0.01	24.33
rs7753111	CD39+ CD4+ %T cell	ebi-a-GCST90001658	6	7730944	G	A	3440	0.12	0.03	0.00	0.01	20.35
rs2907958	CD39+ CD4+ %T cell	ebi-a-GCST90001658	7	156739135	A	G	3440	-0.12	0.02	0.00	0.01	23.09
rs150315125	CD39+ CD4+ %T cell	ebi-a-GCST90001658	8	10090715	T	A	3440	-0.35	0.08	0.00	0.01	21.01
rs34664008	CD39+ CD4+ %T cell	ebi-a-GCST90001658	8	113175429	C	A	3440	-0.16	0.03	0.00	0.01	20.70
rs1999472	CD39+ CD4+ %T cell	ebi-a-GCST90001658	9	16186705	G	A	3440	0.11	0.02	0.00	0.01	20.42
rs145557266	CD39+ CD4+ %T cell	ebi-a-GCST90001658	10	95850055	G	A	3440	0.67	0.09	0.00	0.02	60.94
rs10762791	CD39+ CD4+ %T cell	ebi-a-GCST90001658	10	80308802	G	T	3440	-0.13	0.02	0.00	0.01	27.56
rs150156752	CD39+ CD4+ %T cell	ebi-a-GCST90001658	10	110589119	C	T	3440	-1.77	0.40	0.00	0.01	19.93
rs144769320	CD39+ CD4+ %T cell	ebi-a-GCST90001658	10	99527224	T	C	3440	-0.29	0.06	0.00	0.01	21.52
rs4918960	CD39+ CD4+ %T cell	ebi-a-GCST90001658	10	97472570	A	T	3440	-0.92	0.02	0.00	0.40	2311.02
rs61862821	CD39+ CD4+ %T cell	ebi-a-GCST90001658	10	94513122	A	G	3440	-0.32	0.07	0.00	0.01	19.87
rs12778797	CD39+ CD4+ %T cell	ebi-a-GCST90001658	10	96998688	C	T	3440	0.26	0.03	0.00	0.03	103.75
rs61886297	CD39+ CD4+ %T cell	ebi-a-GCST90001658	10	95830221	A	G	3440	0.48	0.09	0.00	0.01	31.37
rs10882701	CD39+ CD4+ %T cell	ebi-a-GCST90001658	10	97741071	C	A	3440	-0.40	0.02	0.00	0.07	278.41
rs1410600	CD39+ CD4+ %T cell	ebi-a-GCST90001658	10	97070694	T	C	3440	-0.24	0.03	0.00	0.03	92.83
rs11598645	CD39+ CD4+ %T cell	ebi-a-GCST90001658	10	68351521	C	T	3440	-0.61	0.13	0.00	0.01	22.08
rs114844216	CD39+ CD4+ %T cell	ebi-a-GCST90001658	10	98158952	C	T	3440	0.62	0.06	0.00	0.03	116.54

rs12587599	CD39+ CD4+ %T cell	ebi-a-GCST90001658	14	104575130	T	C	3440	-0.19	0.04	0.00	0.01	23.90
rs55992940	CD39+ CD4+ %T cell	ebi-a-GCST90001658	15	59639147	C	T	3440	-0.14	0.03	0.00	0.01	20.84
rs151077900	CD39+ CD4+ %T cell	ebi-a-GCST90001658	16	1037963	C	G	3440	-2.46	0.51	0.00	0.01	23.25
rs118130438	CD39+ CD4+ %T cell	ebi-a-GCST90001658	17	35962041	T	C	3440	0.13	0.03	0.00	0.01	20.72
rs11658050	CD39+ CD4+ %T cell	ebi-a-GCST90001658	17	75220287	T	C	3440	0.14	0.03	0.00	0.01	24.27
rs75420474	CD39+ CD4+ %T cell	ebi-a-GCST90001658	18	39828718	C	T	3440	-2.98	0.64	0.00	0.01	21.95
rs144764562	CD39+ CD4+ %T cell	ebi-a-GCST90001658	19	43539305	A	G	3440	-2.57	0.54	0.00	0.01	22.83
rs2286306	CD39+ CD4+ %T cell	ebi-a-GCST90001658	20	52558849	G	A	3440	0.13	0.03	0.00	0.01	20.54
rs144700141	CD39+ CD4+ %T cell	ebi-a-GCST90001658	20	16016296	A	G	3440	-0.55	0.12	0.00	0.01	20.19
rs116034038	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	1	65028833	G	C	3440	-0.44	0.09	0.00	0.01	23.00
rs78390127	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	2	77501356	C	T	3440	0.47	0.11	0.00	0.01	19.66
rs117667220	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	2	60655811	A	G	3440	0.22	0.05	0.00	0.01	19.84
rs10184974	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	2	5560128	T	C	3440	-0.12	0.03	0.00	0.01	21.17
rs74346764	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	3	145230069	A	G	3440	-0.62	0.12	0.00	0.01	25.90
rs12648210	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	4	89266460	G	A	3440	-0.45	0.10	0.00	0.01	20.11
rs2907958	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	7	156739135	A	G	3440	-0.11	0.02	0.00	0.01	21.29
rs139405606	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	7	53796473	C	T	3440	-0.79	0.17	0.00	0.01	20.24
rs11784945	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	8	135708247	G	C	3440	0.17	0.04	0.00	0.01	19.75
rs34664008	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	8	113175429	C	A	3440	-0.17	0.03	0.00	0.01	24.49
rs147888698	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	10	96576314	T	A	3440	-0.45	0.09	0.00	0.01	23.37
rs10882701	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	10	97741071	C	A	3440	-0.40	0.02	0.00	0.08	282.59
rs114844216	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	10	98158952	C	T	3440	0.66	0.06	0.00	0.04	133.36
rs144769320	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	10	99527224	T	C	3440	-0.29	0.06	0.00	0.01	21.09
rs61873892	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	10	100118038	T	C	3440	-0.35	0.07	0.00	0.01	22.23
rs145557266	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	10	95850055	G	A	3440	0.75	0.09	0.00	0.02	74.62
rs12778797	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	10	96998688	C	T	3440	0.25	0.03	0.00	0.03	96.83
rs10762791	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	10	80308802	G	T	3440	-0.12	0.02	0.00	0.01	24.14
rs61886297	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	10	95830221	A	G	3440	0.46	0.09	0.00	0.01	29.23
rs1410600	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	10	97070694	T	C	3440	-0.25	0.03	0.00	0.03	96.00
rs4918960	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	10	97472570	A	T	3440	-0.93	0.02	0.00	0.41	2380.38
rs74773804	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	11	108602539	A	G	3440	-0.39	0.09	0.00	0.01	20.32
rs12587599	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	14	104575130	T	C	3440	-0.18	0.04	0.00	0.01	21.77
rs184287492	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	15	81451157	A	G	3440	-0.47	0.10	0.00	0.01	20.21
rs2008368	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	17	30347397	C	T	3440	0.17	0.03	0.00	0.01	25.10
rs11658050	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	17	75220287	T	C	3440	0.14	0.03	0.00	0.01	23.22
rs142629161	CD39+ CD4+ %CD4+	ebi-a-GCST90001659	21	29333825	C	A	3440	-2.79	0.59	0.00	0.01	22.65
rs10800381	CD39+ CD4+ AC	ebi-a-GCST90001660	1	168744353	T	C	3408	0.16	0.04	0.00	0.01	19.69

rs191265355	CD39+ CD4+ AC	ebi-a-GCST90001660	2	123442119	C	T	3408	1.10	0.25	0.00	0.01	19.69
rs11718018	CD39+ CD4+ AC	ebi-a-GCST90001660	3	60364770	C	T	3408	-0.12	0.03	0.00	0.01	21.76
rs138807420	CD39+ CD4+ AC	ebi-a-GCST90001660	5	6231929	T	A	3408	1.02	0.20	0.00	0.01	25.08
rs72968495	CD39+ CD4+ AC	ebi-a-GCST90001660	6	119638473	C	T	3408	2.03	0.45	0.00	0.01	20.76
rs62421103	CD39+ CD4+ AC	ebi-a-GCST90001660	6	113160344	T	G	3408	0.23	0.05	0.00	0.01	20.99
rs113087753	CD39+ CD4+ AC	ebi-a-GCST90001660	7	80556308	A	G	3408	0.26	0.06	0.00	0.01	20.45
rs57516532	CD39+ CD4+ AC	ebi-a-GCST90001660	7	1172869	T	C	3408	0.31	0.07	0.00	0.01	20.18
rs139577399	CD39+ CD4+ AC	ebi-a-GCST90001660	7	23203415	C	T	3408	-0.32	0.06	0.00	0.01	25.47
rs78027772	CD39+ CD4+ AC	ebi-a-GCST90001660	7	126248228	A	G	3408	0.22	0.05	0.00	0.01	22.52
rs35163827	CD39+ CD4+ AC	ebi-a-GCST90001660	8	9606332	G	A	3408	-0.32	0.07	0.00	0.01	20.06
rs74791100	CD39+ CD4+ AC	ebi-a-GCST90001660	9	86052403	C	T	3408	0.53	0.12	0.00	0.01	20.78
rs10882701	CD39+ CD4+ AC	ebi-a-GCST90001660	10	97741071	C	A	3408	-0.41	0.02	0.00	0.07	273.35
rs114844216	CD39+ CD4+ AC	ebi-a-GCST90001660	10	98158952	C	T	3408	0.63	0.06	0.00	0.03	109.69
rs4918960	CD39+ CD4+ AC	ebi-a-GCST90001660	10	97472570	A	T	3408	-0.92	0.02	0.00	0.37	2008.06
rs1002938	CD39+ CD4+ AC	ebi-a-GCST90001660	10	99461284	T	A	3408	-0.28	0.05	0.00	0.01	31.52
rs2251521	CD39+ CD4+ AC	ebi-a-GCST90001660	10	109471331	T	C	3408	-0.20	0.04	0.00	0.01	21.67
rs12778797	CD39+ CD4+ AC	ebi-a-GCST90001660	10	96998688	C	T	3408	0.25	0.03	0.00	0.03	90.60
rs11598645	CD39+ CD4+ AC	ebi-a-GCST90001660	10	68351521	C	T	3408	-0.62	0.14	0.00	0.01	20.62
rs112392069	CD39+ CD4+ AC	ebi-a-GCST90001660	10	98925325	T	A	3408	0.27	0.06	0.00	0.01	20.24
rs10882324	CD39+ CD4+ AC	ebi-a-GCST90001660	10	82674931	T	C	3408	-0.12	0.03	0.00	0.01	20.89
rs145557266	CD39+ CD4+ AC	ebi-a-GCST90001660	10	95850055	G	A	3408	0.79	0.09	0.00	0.02	77.12
rs1410600	CD39+ CD4+ AC	ebi-a-GCST90001660	10	97070694	T	C	3408	-0.24	0.03	0.00	0.02	83.24
rs821702	CD39+ CD4+ AC	ebi-a-GCST90001660	10	108095070	G	A	3408	-0.14	0.03	0.00	0.01	22.59
rs140503524	CD39+ CD4+ AC	ebi-a-GCST90001660	11	44646709	T	C	3408	-1.43	0.31	0.00	0.01	21.57
rs4321083	CD39+ CD4+ AC	ebi-a-GCST90001660	13	84031916	A	G	3408	0.16	0.03	0.00	0.01	24.68
rs17091864	CD39+ CD4+ AC	ebi-a-GCST90001660	14	57103379	G	A	3408	0.53	0.12	0.00	0.01	19.57
rs149951966	CD39+ CD4+ AC	ebi-a-GCST90001660	17	41137136	C	T	3408	0.20	0.04	0.00	0.01	20.89
rs8076447	CD39+ CD4+ AC	ebi-a-GCST90001660	17	75229883	A	G	3408	0.14	0.03	0.00	0.01	24.57
rs59143200	CD39+ CD4+ AC	ebi-a-GCST90001660	19	1092511	C	T	3408	-0.12	0.03	0.00	0.01	20.72
rs75436543	CD8dim %T cell CD28-	ebi-a-GCST90001661	1	239777743	T	C	3440	-1.17	0.25	0.00	0.01	22.56
rs12986962	CD8dim %T cell CD28-	ebi-a-GCST90001661	2	111808558	G	A	3440	-0.16	0.03	0.00	0.01	32.13
rs115545560	CD8dim %T cell CD28-	ebi-a-GCST90001661	2	7793905	G	C	3440	0.94	0.21	0.00	0.01	20.91
rs115125396	CD8dim %T cell CD28-	ebi-a-GCST90001661	2	147306619	C	T	3440	0.23	0.05	0.00	0.01	24.10
rs7634877	CD8dim %T cell	ebi-a-GCST90001661	3	44822675	A	G	3440	-0.97	0.22	0.00	0.01	20.02

rs116411882	CD28- CD8dim %T cell	ebi-a-GCST90001661	3	134126390	T	G	3440	-0.26	0.06	0.00	0.01	19.74
rs1561856	CD28- CD8dim %T cell	ebi-a-GCST90001661	3	137321623	T	C	3440	0.13	0.03	0.00	0.01	21.03
rs4869279	CD28- CD8dim %T cell	ebi-a-GCST90001661	5	95628918	A	G	3440	-0.13	0.03	0.00	0.01	24.26
rs113075410	CD28- CD8dim %T cell	ebi-a-GCST90001661	6	101435600	G	A	3440	0.31	0.06	0.00	0.01	29.46
rs9457418	CD28- CD8dim %T cell	ebi-a-GCST90001661	6	159051908	T	C	3440	0.12	0.03	0.00	0.01	21.84
rs115695595	CD28- CD8dim %T cell	ebi-a-GCST90001661	6	45300097	T	A	3440	-0.25	0.05	0.00	0.01	21.53
rs182663933	CD28- CD8dim %T cell	ebi-a-GCST90001661	6	103174948	C	T	3440	0.28	0.06	0.00	0.01	22.14
rs117147408	CD28- CD8dim %T cell	ebi-a-GCST90001661	6	101980039	G	A	3440	0.48	0.08	0.00	0.01	36.76
rs626030	CD28- CD8dim %T cell	ebi-a-GCST90001661	7	51947089	G	T	3440	0.31	0.07	0.00	0.01	22.28
rs11544989	CD28- CD8dim %T cell	ebi-a-GCST90001661	8	145057868	G	A	3440	0.12	0.03	0.00	0.01	20.35
rs12360943	CD28- CD8dim %T cell	ebi-a-GCST90001661	11	81817326	C	G	3440	-0.13	0.03	0.00	0.01	22.77
rs117661587	CD28- CD8dim %T cell	ebi-a-GCST90001661	12	10807555	T	C	3440	0.24	0.05	0.00	0.01	20.51
rs2274015	CD28- CD8dim %T cell	ebi-a-GCST90001661	13	78180771	T	C	3440	0.12	0.03	0.00	0.01	21.14
rs142716558	CD28- CD8dim %T cell	ebi-a-GCST90001661	14	51308539	G	A	3440	0.18	0.04	0.00	0.01	20.77
rs7152367	CD28- CD8dim %T cell	ebi-a-GCST90001661	14	66292007	A	G	3440	0.47	0.10	0.00	0.01	22.43
rs4796089	CD28- CD8dim %T cell	ebi-a-GCST90001661	17	33814758	C	T	3440	-0.22	0.04	0.00	0.01	34.81
rs111748563	CD28- CD8dim %T cell	ebi-a-GCST90001661	19	17901533	G	A	3440	0.26	0.06	0.00	0.01	19.87
rs12185529	CD28- CD8dim %T cell	ebi-a-GCST90001661	19	3059754	A	G	3440	0.40	0.08	0.00	0.01	22.48
rs976051	CD28- CD8dim %T cell	ebi-a-GCST90001661	21	16234888	G	C	3440	0.13	0.03	0.00	0.01	19.91
rs13054887	CD28- CD8dim %T cell	ebi-a-GCST90001661	22	43169818	C	T	3440	-0.12	0.03	0.00	0.01	21.85
rs2009581	CD8dim %CD8dim CD28-	ebi-a-GCST90001662	2	111807677	A	G	3440	-0.16	0.03	0.00	0.01	25.74
rs12470307	CD8dim %CD8dim CD28-	ebi-a-GCST90001662	2	106923501	G	A	3440	0.11	0.03	0.00	0.01	20.17
rs115125396	CD8dim %CD8dim CD28-	ebi-a-GCST90001662	2	147306619	C	T	3440	0.21	0.04	0.00	0.01	22.43
rs7649029	CD8dim %CD8dim	ebi-a-GCST90001662	3	46753355	G	A	3440	0.16	0.04	0.00	0.01	20.25

rs147207959	CD28- CD8dim %CD8dim	ebi-a-GCST90001662	4	182642975	T	C	3440	-1.19	0.25	0.00	0.01	23.64
rs2710824	CD28- CD8dim %CD8dim	ebi-a-GCST90001662	4	169596133	T	C	3440	-0.14	0.03	0.00	0.01	25.81
rs4869279	CD28- CD8dim %CD8dim	ebi-a-GCST90001662	5	95628918	A	G	3440	-0.13	0.03	0.00	0.01	23.65
rs137931178	CD28- CD8dim %CD8dim	ebi-a-GCST90001662	6	32329150	G	A	3440	-0.18	0.04	0.00	0.01	24.06
rs142531546	CD28- CD8dim %CD8dim	ebi-a-GCST90001662	7	37829371	T	C	3440	0.34	0.07	0.00	0.01	22.15
rs140865509	CD28- CD8dim %CD8dim	ebi-a-GCST90001662	9	104945924	C	T	3440	-4.19	0.93	0.00	0.01	20.47
rs2389116	CD28- CD8dim %CD8dim	ebi-a-GCST90001662	12	33034357	T	A	3440	0.16	0.03	0.00	0.01	21.34
rs149704972	CD28- CD8dim %CD8dim	ebi-a-GCST90001662	14	102846088	A	T	3440	0.24	0.05	0.00	0.01	20.10
rs76919728	CD28- CD8dim %CD8dim	ebi-a-GCST90001662	16	30933851	G	T	3440	-1.99	0.44	0.00	0.01	20.16
rs4796089	CD28- CD8dim %CD8dim	ebi-a-GCST90001662	17	33814758	C	T	3440	-0.23	0.04	0.00	0.01	39.19
rs1788822	CD28- CD8dim %CD8dim	ebi-a-GCST90001662	18	21116999	G	C	3440	-4.19	0.93	0.00	0.01	20.47
rs117082312	CD28- CD8dim %CD8dim	ebi-a-GCST90001662	22	31767385	G	A	3440	0.23	0.05	0.00	0.01	19.75
rs75436543	CD28- CD8dim AC	ebi-a-GCST90001663	1	239777743	T	C	3408	-1.11	0.25	0.00	0.01	20.12
rs12986962	CD28- CD8dim AC	ebi-a-GCST90001663	2	111808558	G	A	3408	-0.16	0.03	0.00	0.01	30.46
rs115125396	CD28- CD8dim AC	ebi-a-GCST90001663	2	147306619	C	T	3408	0.21	0.05	0.00	0.01	20.89
rs139090356	CD28- CD8dim AC	ebi-a-GCST90001663	2	7451357	G	A	3408	0.94	0.20	0.00	0.01	21.30
rs79597088	CD28- CD8dim AC	ebi-a-GCST90001663	3	74344603	A	G	3408	0.57	0.13	0.00	0.01	19.79
rs9836603	CD28- CD8dim AC	ebi-a-GCST90001663	3	191611972	T	C	3408	-0.12	0.03	0.00	0.01	20.20
rs7448311	CD28- CD8dim AC	ebi-a-GCST90001663	5	95643248	C	T	3408	-0.13	0.03	0.00	0.01	22.45
rs12204116	CD28- CD8dim AC	ebi-a-GCST90001663	6	91469768	C	T	3408	-0.17	0.04	0.00	0.01	21.41
rs13207893	CD28- CD8dim AC	ebi-a-GCST90001663	6	32586922	C	T	3408	-0.14	0.03	0.00	0.01	21.19
rs139249541	CD28- CD8dim AC	ebi-a-GCST90001663	6	102294761	G	A	3408	0.40	0.08	0.00	0.01	28.77
rs79122093	CD28- CD8dim AC	ebi-a-GCST90001663	6	101593157	G	A	3408	0.39	0.08	0.00	0.01	25.84
rs115695595	CD28- CD8dim AC	ebi-a-GCST90001663	6	45300097	T	A	3408	-0.24	0.05	0.00	0.01	20.75
rs111273508	CD28- CD8dim AC	ebi-a-GCST90001663	6	25330739	A	G	3408	0.54	0.12	0.00	0.01	21.04
rs626030	CD28- CD8dim AC	ebi-a-GCST90001663	7	51947089	G	T	3408	0.30	0.07	0.00	0.01	20.96
rs535307	CD28- CD8dim AC	ebi-a-GCST90001663	7	105345398	G	A	3408	-0.12	0.03	0.00	0.01	22.07
rs76396396	CD28- CD8dim AC	ebi-a-GCST90001663	7	17214739	A	T	3408	0.50	0.11	0.00	0.01	20.42
rs10107063	CD28- CD8dim AC	ebi-a-GCST90001663	8	123562235	C	T	3408	-0.64	0.14	0.00	0.01	21.92
rs35947132	CD28- CD8dim AC	ebi-a-GCST90001663	10	72360387	A	G	3408	0.20	0.04	0.00	0.01	20.87
rs80109323	CD28- CD8dim AC	ebi-a-GCST90001663	10	133227859	T	C	3408	1.69	0.35	0.00	0.01	23.76

rs483239	CD28- CD8dim AC	ebi-a-GCST90001663	10	96989103	T	C	3408	-0.13	0.03	0.00	0.01	19.85
rs7937886	CD28- CD8dim AC	ebi-a-GCST90001663	11	81903744	T	G	3408	-0.13	0.03	0.00	0.01	23.12
rs10772894	CD28- CD8dim AC	ebi-a-GCST90001663	12	16263287	G	A	3408	-0.22	0.05	0.00	0.01	21.57
rs7990259	CD28- CD8dim AC	ebi-a-GCST90001663	13	85954085	G	A	3408	0.17	0.04	0.00	0.01	22.54
rs7152367	CD28- CD8dim AC	ebi-a-GCST90001663	14	66292007	A	G	3408	0.47	0.10	0.00	0.01	22.35
rs58745116	CD28- CD8dim AC	ebi-a-GCST90001663	17	33803592	A	G	3408	0.17	0.03	0.00	0.01	41.96
rs12185529	CD28- CD8dim AC	ebi-a-GCST90001663	19	3059754	A	G	3408	0.40	0.08	0.00	0.01	22.28
rs111748563	CD28- CD8dim AC	ebi-a-GCST90001663	19	17901533	G	A	3408	0.28	0.06	0.00	0.01	22.67
rs142837365	CD28- CD8dim AC	ebi-a-GCST90001663	22	41271935	G	A	3408	-0.86	0.19	0.00	0.01	20.50
rs7530076	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	1	195825276	A	G	3440	-0.41	0.08	0.00	0.01	28.57
rs34645541	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	1	195875605	A	C	3440	0.62	0.12	0.00	0.01	25.79
rs116794175	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	1	194010208	C	T	3440	1.16	0.18	0.00	0.01	41.56
rs541367304	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	1	198283058	A	G	3440	2.52	0.24	0.00	0.03	111.84
rs1341624	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	1	191433917	T	C	3440	0.35	0.08	0.00	0.01	21.05
rs1980606	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	1	160654786	A	G	3440	0.14	0.03	0.00	0.01	19.90
rs11579717	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	1	199999121	A	G	3440	1.30	0.17	0.00	0.02	55.79
rs12712610	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	2	38897249	G	A	3440	0.17	0.03	0.00	0.01	45.01
rs78905646	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	2	189898847	A	G	3440	0.35	0.08	0.00	0.01	21.21
rs7557121	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	2	240520878	T	C	3440	-0.13	0.03	0.00	0.01	21.08
rs4832054	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	2	87058580	A	G	3440	0.17	0.03	0.00	0.01	40.48
rs7583259	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	2	38921934	G	C	3440	0.20	0.02	0.00	0.02	70.01
rs79827501	CD45RA+ CD8dim %T cell CD28+	ebi-a-GCST90001664	2	38431267	T	G	3440	-0.27	0.05	0.00	0.01	35.14
rs468979	CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	3	13489292	C	T	3440	0.13	0.03	0.00	0.01	21.60

rs74577787	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	3	84799491	T	C	3440	3.38	0.62	0.00	0.01	29.30
rs73197004	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	3	108545856	A	G	3440	-0.40	0.09	0.00	0.01	21.33
rs114437347	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	4	86967620	C	G	3440	3.73	0.77	0.00	0.01	23.55
rs17627427	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	4	25959751	T	C	3440	0.17	0.04	0.00	0.01	20.26
rs183337752	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	5	19034933	A	G	3440	1.02	0.22	0.00	0.01	22.02
rs17480640	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	5	119666172	C	T	3440	0.11	0.02	0.00	0.01	21.26
rs113098887	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	6	84554072	A	C	3440	3.72	0.82	0.00	0.01	20.66
rs2252937	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	6	31461613	C	T	3440	-0.16	0.03	0.00	0.01	22.52
rs78470849	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	6	31382675	T	C	3440	0.18	0.03	0.00	0.01	27.76
rs9461666	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	6	31207763	G	T	3440	0.24	0.05	0.00	0.01	25.03
rs112637846	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	6	149114553	A	C	3440	3.37	0.62	0.00	0.01	29.14
rs117174937	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	8	17606838	G	T	3440	3.04	0.63	0.00	0.01	23.61
rs117626397	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	10	131423918	G	A	3440	2.74	0.54	0.00	0.01	26.07
rs4964285	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	12	109318834	T	C	3440	0.11	0.02	0.00	0.01	20.20
rs12424807	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	12	14397702	C	T	3440	0.19	0.04	0.00	0.01	21.23
rs141049772	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	14	52982783	C	T	3440	2.22	0.50	0.00	0.01	19.70
rs11848822	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	14	102531420	C	T	3440	0.23	0.05	0.00	0.01	19.99
rs538856056	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	15	36549557	C	T	3440	1.68	0.37	0.00	0.01	20.15

rs3861195	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	15	32997150	A	G	3440	0.14	0.03	0.00	0.01	21.55
rs925236	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	15	99661608	T	C	3440	0.12	0.03	0.00	0.01	21.46
rs1948650	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	15	36040048	G	A	3440	-0.13	0.03	0.00	0.01	23.30
rs149948027	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	16	89718638	T	C	3440	3.34	0.74	0.00	0.01	20.57
rs117988108	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	17	71781635	T	C	3440	0.68	0.15	0.00	0.01	20.46
rs75024282	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	19	30042758	A	G	3440	0.29	0.06	0.00	0.01	25.03
rs145827119	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	20	57132122	T	C	3440	5.11	1.12	0.00	0.01	20.85
rs140816141	CD28+ CD45RA+ CD8dim %T cell	ebi-a-GCST90001664	22	28323098	A	G	3440	2.58	0.52	0.00	0.01	24.58
rs116794175	CD28+ CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	1	194010208	C	T	3440	1.19	0.19	0.00	0.01	38.54
rs34645541	CD28+ CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	1	195875605	A	C	3440	0.69	0.13	0.00	0.01	28.15
rs11579717	CD28+ CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	1	199999121	A	G	3440	1.31	0.19	0.00	0.01	49.45
rs541367304	CD28+ CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	1	198283058	A	G	3440	2.56	0.25	0.00	0.03	100.97
rs72771954	CD28+ CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	1	247539505	T	C	3440	0.16	0.03	0.00	0.01	22.71
rs17401833	CD28+ CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	1	14788274	C	T	3440	-0.11	0.03	0.00	0.01	19.82
rs2367376	CD28+ CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	2	87009742	C	T	3440	0.17	0.03	0.00	0.01	35.46
rs7583259	CD28+ CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	2	38921934	G	C	3440	0.17	0.02	0.00	0.01	49.29
rs116478736	CD28+ CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	2	18033652	G	C	3440	0.59	0.13	0.00	0.01	20.90
rs12712610	CD28+ CD45RA+ CD8dim %CD8dim	ebi-a-GCST90001665	2	38897249	G	A	3440	0.16	0.03	0.00	0.01	34.90

rs13001936	CD28+ CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	2	240573745	T	C	3440	-0.13	0.03	0.00	0.01	20.66
rs79827501	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	2	38431267	T	G	3440	-0.22	0.05	0.00	0.01	21.05
rs78181865	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	3	84481659	A	G	3440	3.01	0.67	0.00	0.01	20.26
rs76313555	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	3	59914042	T	C	3440	0.62	0.13	0.00	0.01	21.49
rs116760504	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	3	47546791	A	C	3440	0.24	0.05	0.00	0.01	22.64
rs73184461	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	3	189014593	A	T	3440	0.84	0.16	0.00	0.01	25.96
rs555202	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	3	174486633	A	G	3440	-0.18	0.04	0.00	0.01	23.40
rs114437347	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	4	86967620	C	G	3440	3.79	0.83	0.00	0.01	20.97
rs34767257	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	6	30932606	A	G	3440	0.17	0.03	0.00	0.01	24.20
rs113888828	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	6	149157641	T	C	3440	3.37	0.74	0.00	0.01	20.71
rs9274730	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	6	32637817	A	G	3440	-0.18	0.04	0.00	0.01	23.51
rs12378196	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	9	14963519	A	G	3440	-0.11	0.03	0.00	0.01	19.66
rs145682498	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	10	54508949	A	T	3440	-0.24	0.05	0.00	0.01	21.69
rs67486389	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	12	19926432	T	A	3440	0.33	0.07	0.00	0.01	22.25
rs4984382	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	15	94882509	T	C	3440	0.12	0.02	0.00	0.01	24.86
rs74021626	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	15	66417100	G	A	3440	-0.14	0.03	0.00	0.01	22.18
rs34854932	CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	16	83875573	G	A	3440	-0.33	0.07	0.00	0.01	20.80
rs8127300	CD45RA+ CD8dim %CD8dim	ebi-a-GCST90001665	21	43529642	C	A	3440	-0.16	0.03	0.00	0.01	21.72

rs6001084	CD28+ CD45RA+ CD8dim %CD8dim CD28+	ebi-a-GCST90001665	22	38681644	T	C	3440	0.16	0.04	0.00	0.01	21.07
rs2185480	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	1	176186935	T	A	3408	0.85	0.17	0.00	0.01	24.50
rs541367304	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	1	198283058	A	G	3408	2.14	0.23	0.00	0.03	88.05
rs1341624	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	1	191433917	T	C	3408	0.33	0.07	0.00	0.01	21.26
rs7530076	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	1	195825276	A	G	3408	-0.39	0.07	0.00	0.01	28.37
rs11579717	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	1	199999121	A	G	3408	1.18	0.17	0.00	0.01	50.04
rs138298107	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	1	213203523	T	C	3408	0.94	0.20	0.00	0.01	21.72
rs116794175	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	1	194010208	C	T	3408	1.02	0.17	0.00	0.01	35.21
rs10875036	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	1	97288628	C	T	3408	-0.12	0.03	0.00	0.01	22.05
rs78905646	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	2	189898847	A	G	3408	0.38	0.07	0.00	0.01	26.85
rs139618773	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	2	45403427	A	G	3408	1.43	0.31	0.00	0.01	21.81
rs12712610	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	2	38897249	G	A	3408	0.16	0.02	0.00	0.01	44.58
rs7557121	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	2	240520878	T	C	3408	-0.13	0.03	0.00	0.01	25.31
rs61038907	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	2	87061070	A	C	3408	0.14	0.03	0.00	0.01	31.03
rs79827501	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	2	38431267	T	G	3408	-0.23	0.04	0.00	0.01	27.68
rs35884179	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	2	26163168	A	G	3408	-0.35	0.07	0.00	0.01	24.31
rs7583259	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	2	38921934	G	C	3408	0.18	0.02	0.00	0.02	65.38
rs115376296	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	2	230763199	C	T	3408	0.96	0.21	0.00	0.01	20.77
rs74577787	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	3	84799491	T	C	3408	3.34	0.60	0.00	0.01	31.13
rs56112048	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	3	137006597	A	C	3408	-0.12	0.02	0.00	0.01	23.86
rs76313555	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	3	59914042	T	C	3408	0.59	0.12	0.00	0.01	24.40
rs468979	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	3	13489292	C	T	3408	0.12	0.03	0.00	0.01	21.32
rs146985291	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	3	170169608	G	A	3408	6.55	1.43	0.00	0.01	20.84
rs114437347	CD45RA+ CD8dim AC	ebi-a-GCST90001666	4	86967620	C	G	3408	3.50	0.74	0.00	0.01	22.39

rs35471013	CD28+ CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	4	37794059	T	C	3408	-0.24	0.05	0.00	0.01	21.67
rs138960714	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	4	123422719	C	A	3408	2.08	0.45	0.00	0.01	21.25
rs574807	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	6	145543700	A	G	3408	-0.10	0.02	0.00	0.01	20.70
rs112637846	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	6	149114553	A	C	3408	3.33	0.60	0.00	0.01	31.00
rs113098887	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	6	84554072	A	C	3408	3.63	0.79	0.00	0.01	21.15
rs117403703	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	6	93203850	C	T	3408	3.55	0.79	0.00	0.01	20.46
rs184082746	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	7	92791863	C	T	3408	3.83	0.82	0.00	0.01	21.91
rs80172536	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	7	110737584	C	G	3408	0.23	0.05	0.00	0.01	19.77
rs182236332	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	7	124954943	G	A	3408	4.62	1.03	0.00	0.01	20.07
rs13243221	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	7	80880540	G	T	3408	3.64	0.78	0.00	0.01	21.49
rs192475369	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	9	33552507	T	A	3408	5.69	1.28	0.00	0.01	19.82
rs7096922	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	10	119371841	G	A	3408	1.25	0.27	0.00	0.01	21.13
rs80194890	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	10	91332621	G	T	3408	4.58	1.03	0.00	0.01	19.63
rs117513254	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	12	126913667	G	C	3408	1.37	0.29	0.00	0.01	21.89
rs141049772	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	14	52982783	C	T	3408	2.13	0.48	0.00	0.01	19.60
rs1948650	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	15	36040048	G	A	3408	-0.12	0.03	0.00	0.01	21.13
rs72763382	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	15	97953052	G	A	3408	-0.44	0.10	0.00	0.01	19.93
rs12907798	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	15	36349479	T	C	3408	-0.14	0.03	0.00	0.01	21.43
rs149948027	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	16	89718638	T	C	3408	3.19	0.70	0.00	0.01	20.58
rs117733745	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	16	15158014	A	T	3408	4.23	0.93	0.00	0.01	20.56
rs144591335	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	16	59010741	G	A	3408	3.93	0.89	0.00	0.01	19.59
rs1005513	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	17	49196918	C	T	3408	0.12	0.03	0.00	0.01	22.29
rs10451363	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	18	9939517	C	T	3408	1.74	0.39	0.00	0.01	19.88
rs77935824	CD45RA+ CD8dim AC	ebi-a-GCST90001666	18	68968361	G	A	3408	3.78	0.85	0.00	0.01	19.87

rs145827119	CD28+ CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	20	57132122	T	C	3408	5.04	1.07	0.00	0.01	22.27
rs62229786	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	20	50098150	A	G	3408	-0.30	0.07	0.00	0.01	20.71
rs73193728	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	21	32665618	C	T	3408	0.21	0.05	0.00	0.01	19.73
rs140816141	CD45RA+ CD8dim AC CD28+	ebi-a-GCST90001666	22	28323098	A	G	3408	2.22	0.50	0.00	0.01	19.64
rs116759767	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	1	189981116	A	G	3440	-0.99	0.17	0.00	0.01	32.24
rs11579717	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	1	199999121	A	G	3440	-1.20	0.18	0.00	0.01	45.96
rs17130468	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	1	68567192	A	G	3440	0.85	0.19	0.00	0.01	20.80
rs147612560	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	1	201600103	A	G	3440	4.12	0.86	0.00	0.01	23.18
rs541367304	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	1	198283058	A	G	3440	-2.27	0.24	0.00	0.02	87.12
rs17216040	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	2	129145907	A	G	3440	0.50	0.11	0.00	0.01	19.82
rs1400032	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	2	86923183	T	C	3440	-0.12	0.03	0.00	0.01	20.47
rs34973688	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	2	133470672	A	C	3440	-0.16	0.03	0.00	0.01	21.92
rs1975288	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	2	45109063	G	A	3440	0.12	0.03	0.00	0.01	19.80
rs138232290	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	4	40701822	A	G	3440	-2.76	0.61	0.00	0.01	20.58
rs115370355	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	4	92620279	T	G	3440	1.36	0.29	0.00	0.01	22.54
rs62358725	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	5	51967646	G	A	3440	0.14	0.03	0.00	0.01	26.88
rs74463547	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	5	25574181	A	C	3440	0.16	0.04	0.00	0.01	19.86
rs114968045	CD45RA- CD8dim %T cell CD28+	ebi-a-GCST90001667	6	32666960	C	T	3440	0.15	0.03	0.00	0.01	21.72
rs10456250	CD45RA- CD8dim %T cell	ebi-a-GCST90001667	6	22061048	C	T	3440	-0.11	0.02	0.00	0.01	21.83

rs2177324	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	8	123605760	A	G	3440	-0.50	0.11	0.00	0.01	20.87
rs73184766	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	8	1968214	G	A	3440	-0.27	0.06	0.00	0.01	22.84
rs12235775	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	9	23394831	C	T	3440	0.13	0.03	0.00	0.01	25.88
rs76359108	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	10	68754597	A	G	3440	-2.96	0.63	0.00	0.01	21.70
rs185416365	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	13	42211264	T	C	3440	1.18	0.26	0.00	0.01	20.41
rs10134215	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	14	34455424	T	C	3440	-0.13	0.03	0.00	0.01	19.99
rs138678985	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	14	37895643	A	G	3440	0.29	0.06	0.00	0.01	20.43
rs12914989	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	15	26221496	T	C	3440	0.12	0.02	0.00	0.01	26.04
rs117455482	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	15	90520252	A	G	3440	3.82	0.86	0.00	0.01	19.70
rs9912771	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	17	14307085	T	C	3440	0.20	0.04	0.00	0.01	20.80
rs61744818	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	17	74163759	A	G	3440	0.31	0.07	0.00	0.01	22.16
rs72848176	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	17	65576640	G	A	3440	-0.51	0.10	0.00	0.01	27.13
rs139641355	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	19	52441118	A	G	3440	-0.88	0.20	0.00	0.01	19.63
rs687264	CD28+ CD45RA- CD8dim %T cell	ebi-a-GCST90001667	22	20172901	C	T	3440	-0.28	0.06	0.00	0.01	23.00
rs541367304	CD28+ CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	1	198283058	A	G	3440	-2.25	0.26	0.00	0.02	77.46
rs138915779	CD28+ CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	1	190079170	A	C	3440	-1.15	0.23	0.00	0.01	25.47
rs11579717	CD28+ CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	1	199999121	A	G	3440	-1.22	0.19	0.00	0.01	42.92
rs72694845	CD28+ CD45RA- CD8dim %CD8dim	ebi-a-GCST90001668	1	151909812	C	A	3440	-2.22	0.48	0.00	0.01	21.03

rs78170509	CD28+ CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	1	97340174	C	G	3440	0.16	0.03	0.00	0.01	21.85
rs55711612	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	2	111845422	G	A	3440	0.16	0.03	0.00	0.01	25.89
rs78336738	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	2	54934160	T	C	3440	-0.62	0.13	0.00	0.01	21.88
rs111561108	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	2	107926407	A	G	3440	0.48	0.11	0.00	0.01	20.38
rs7649029	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	3	46753355	G	A	3440	-0.18	0.04	0.00	0.01	25.91
rs2710824	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	4	169596133	T	C	3440	0.12	0.03	0.00	0.01	21.08
rs147207959	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	4	182642975	T	C	3440	1.09	0.25	0.00	0.01	19.76
rs7679241	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	4	26288550	A	G	3440	-0.11	0.02	0.00	0.01	20.72
rs10517119	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	4	44859711	G	A	3440	-0.12	0.03	0.00	0.01	19.70
rs1997323	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	5	87220656	A	G	3440	0.95	0.21	0.00	0.01	20.38
rs137931178	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	6	32329150	G	A	3440	0.17	0.04	0.00	0.01	21.65
rs142531546	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	7	37829371	T	C	3440	-0.33	0.07	0.00	0.01	20.96
rs78310542	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	8	103052789	A	C	3440	-2.68	0.58	0.00	0.01	21.62
rs2177324	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	8	123605760	A	G	3440	-0.56	0.11	0.00	0.01	23.98
rs118141156	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	10	82705665	G	C	3440	0.25	0.06	0.00	0.01	20.19
rs117626397	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	10	131423918	G	A	3440	-2.61	0.57	0.00	0.01	21.07
rs72774994	CD45RA- CD8dim %CD8dim CD28+	ebi-a-GCST90001668	10	2957054	T	C	3440	-0.14	0.03	0.00	0.01	19.58
rs12576570	CD45RA- CD8dim %CD8dim	ebi-a-GCST90001668	11	8243002	A	G	3440	-0.21	0.05	0.00	0.01	20.40

rs2085746	CD28+ CD45RA- CD8dim	ebi-a-GCST90001668	11	61924407	T	C	3440	-0.22	0.04	0.00	0.01	23.23
rs7316570	%CD8dim CD28+ CD45RA- CD8dim	ebi-a-GCST90001668	12	33069361	G	C	3440	-0.15	0.03	0.00	0.01	21.65
rs12231396	%CD8dim CD28+ CD45RA- CD8dim	ebi-a-GCST90001668	12	100112638	G	A	3440	0.12	0.03	0.00	0.01	19.60
rs149704972	%CD8dim CD28+ CD45RA- CD8dim	ebi-a-GCST90001668	14	102846088	A	T	3440	-0.24	0.05	0.00	0.01	20.17
rs71386709	%CD8dim CD28+ CD45RA- CD8dim	ebi-a-GCST90001668	16	12613868	A	T	3440	-0.24	0.05	0.00	0.01	22.16
rs76919728	%CD8dim CD28+ CD45RA- CD8dim	ebi-a-GCST90001668	16	30933851	G	T	3440	2.14	0.44	0.00	0.01	23.42
rs4796089	%CD8dim CD28+ CD45RA- CD8dim	ebi-a-GCST90001668	17	33814758	C	T	3440	0.20	0.04	0.00	0.01	29.52
rs56206359	%CD8dim CD28+ CD45RA- CD8dim	ebi-a-GCST90001668	19	35329974	G	A	3440	-0.12	0.03	0.00	0.01	20.33
rs72631887	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	1	835092	G	T	3408	-3.64	0.82	0.00	0.01	19.62
rs147612560	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	1	201600103	A	G	3408	4.29	0.81	0.00	0.01	27.71
rs138915779	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	1	190079170	A	C	3408	-1.23	0.21	0.00	0.01	34.90
rs541367304	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	1	198283058	A	G	3408	-2.32	0.23	0.00	0.03	100.72
rs34645541	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	1	195875605	A	C	3408	-0.53	0.12	0.00	0.01	20.45
rs4129441	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	1	241904201	C	T	3408	-0.12	0.03	0.00	0.01	21.08
rs11579717	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	1	199999121	A	G	3408	-1.13	0.17	0.00	0.01	44.29
rs111432170	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	1	175728032	A	G	3408	-1.98	0.43	0.00	0.01	20.78
rs28527279	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	2	86948835	A	G	3408	-0.12	0.03	0.00	0.01	21.09
rs61269136	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	3	61511035	T	C	3408	0.26	0.06	0.00	0.01	20.49
rs2670003	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	3	9087967	C	T	3408	-0.13	0.03	0.00	0.01	22.10
rs35035328	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	3	46276078	C	T	3408	-0.25	0.06	0.00	0.01	20.26
rs74732038	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	4	174826726	C	T	3408	-3.37	0.75	0.00	0.01	20.37
rs138232290	CD45RA- CD8dim AC	ebi-a-GCST90001669	4	40701822	A	G	3408	-2.74	0.58	0.00	0.01	22.45

rs1450949	CD28+ CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	5	51919136	A	G	3408	0.11	0.03	0.00	0.01	20.26
rs35222020	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	6	149101822	G	A	3408	0.32	0.07	0.00	0.01	20.82
rs13231184	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	7	28364598	G	C	3408	-0.41	0.09	0.00	0.01	20.79
rs11770198	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	7	142351498	G	A	3408	-3.83	0.85	0.00	0.01	20.37
rs78971171	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	7	86261382	G	A	3408	-4.14	0.93	0.00	0.01	19.78
rs116499679	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	8	28528105	T	C	3408	0.24	0.05	0.00	0.01	20.19
rs62488624	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	8	36903125	T	C	3408	-4.69	1.05	0.00	0.01	20.08
rs138728019	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	8	6788445	T	C	3408	-0.43	0.10	0.00	0.01	20.14
rs12235775	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	9	23394831	C	T	3408	0.13	0.03	0.00	0.01	24.46
rs117626397	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	10	131423918	G	A	3408	-2.36	0.52	0.00	0.01	20.69
rs116884829	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	11	77173517	G	A	3408	0.18	0.03	0.00	0.01	27.67
rs77547518	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	11	9143785	T	C	3408	-5.26	1.14	0.00	0.01	21.27
rs143559470	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	11	115711814	A	G	3408	-5.05	1.11	0.00	0.01	20.72
rs181777922	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	12	1631566	T	C	3408	-1.19	0.24	0.00	0.01	24.19
rs78228882	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	13	107306559	T	G	3408	-3.74	0.76	0.00	0.01	23.93
rs138678985	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	14	37895643	A	G	3408	0.29	0.06	0.00	0.01	21.93
rs34487669	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	15	26227349	T	A	3408	0.10	0.02	0.00	0.01	20.56
rs76098298	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	17	54788402	T	C	3408	-1.91	0.42	0.00	0.01	20.22
rs2585739	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	17	74135619	A	G	3408	0.30	0.06	0.00	0.01	21.44
rs565801	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	19	7837186	G	T	3408	-0.11	0.02	0.00	0.01	21.83
rs117586381	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	19	18683695	A	G	3408	-2.04	0.45	0.00	0.01	21.00
rs687264	CD45RA- CD8dim AC CD28+	ebi-a-GCST90001669	22	20172901	C	T	3408	-0.26	0.06	0.00	0.01	21.86
rs139127	CD45RA- CD8dim AC CD39+	ebi-a-GCST90001669	22	44578288	T	G	3408	0.53	0.12	0.00	0.01	20.15
rs7677831	CD8br %T CD39+	ebi-a-GCST90001670	4	82648490	G	A	3440	0.22	0.04	0.00	0.01	27.38
rs58895686	CD8br %T	ebi-a-GCST90001670	5	43984994	A	G	3440	-0.14	0.03	0.00	0.01	20.71

rs202075317	CD39+ CD8br %T	ebi-a-GCST90001670	6	68997428	C	G	3440	-0.90	0.19	0.00	0.01	22.31
rs1861381	CD39+ CD8br %T	ebi-a-GCST90001670	7	97100379	G	A	3440	0.12	0.03	0.00	0.01	20.76
rs78311694	CD39+ CD8br %T	ebi-a-GCST90001670	7	69867672	C	T	3440	0.17	0.04	0.00	0.01	20.47
rs34664008	CD39+ CD8br %T	ebi-a-GCST90001670	8	113175429	C	A	3440	-0.17	0.04	0.00	0.01	21.46
rs16909016	CD39+ CD8br %T	ebi-a-GCST90001670	9	96068328	T	C	3440	-0.33	0.07	0.00	0.01	19.97
rs140079267	CD39+ CD8br %T	ebi-a-GCST90001670	10	93272233	G	T	3440	-0.44	0.09	0.00	0.01	25.31
rs11818051	CD39+ CD8br %T	ebi-a-GCST90001670	10	97972294	T	C	3440	0.68	0.07	0.00	0.02	83.69
rs117648214	CD39+ CD8br %T	ebi-a-GCST90001670	10	98816434	T	C	3440	1.27	0.23	0.00	0.01	31.50
rs12778618	CD39+ CD8br %T	ebi-a-GCST90001670	10	95633120	C	T	3440	0.83	0.06	0.00	0.05	187.63
rs72812685	CD39+ CD8br %T	ebi-a-GCST90001670	10	95845989	A	G	3440	0.65	0.06	0.00	0.03	120.88
rs12778837	CD39+ CD8br %T	ebi-a-GCST90001670	10	96998744	C	T	3440	0.22	0.03	0.00	0.02	65.20
rs11812465	CD39+ CD8br %T	ebi-a-GCST90001670	10	91738825	C	T	3440	-0.14	0.03	0.00	0.01	25.37
rs111534725	CD39+ CD8br %T	ebi-a-GCST90001670	10	98139264	T	G	3440	0.73	0.06	0.00	0.04	127.43
rs111899271	CD39+ CD8br %T	ebi-a-GCST90001670	10	70317419	G	T	3440	0.17	0.04	0.00	0.01	22.47
rs17111341	CD39+ CD8br %T	ebi-a-GCST90001670	10	97881031	C	T	3440	0.62	0.05	0.00	0.04	144.89
rs4918960	CD39+ CD8br %T	ebi-a-GCST90001670	10	97472570	A	T	3440	-0.92	0.02	0.00	0.37	2016.54
rs2631687	CD39+ CD8br %T	ebi-a-GCST90001670	10	93057020	A	C	3440	0.24	0.05	0.00	0.01	22.97
rs184287492	CD39+ CD8br %T	ebi-a-GCST90001670	15	81451157	A	G	3440	-0.50	0.11	0.00	0.01	21.14
rs7182699	CD39+ CD8br %T	ebi-a-GCST90001670	15	94355818	G	T	3440	0.11	0.03	0.00	0.01	20.28
rs241207	CD39+ CD8br	ebi-a-GCST90001671	1	4634084	G	T	3440	0.16	0.04	0.00	0.01	20.76
rs7677831	CD39+ CD8br	ebi-a-GCST90001671	4	82648490	G	A	3440	0.21	0.04	0.00	0.01	24.91
rs73814898	CD39+ CD8br	ebi-a-GCST90001671	4	53758992	T	C	3440	-1.40	0.31	0.00	0.01	20.56
rs58895686	CD39+ CD8br	ebi-a-GCST90001671	5	43984994	A	G	3440	-0.13	0.03	0.00	0.01	19.86
rs142712866	CD39+ CD8br	ebi-a-GCST90001671	8	124323593	A	G	3440	1.89	0.43	0.00	0.01	19.57
rs34664008	CD39+ CD8br	ebi-a-GCST90001671	8	113175429	C	A	3440	-0.16	0.04	0.00	0.01	20.18
rs140079267	CD39+ CD8br	ebi-a-GCST90001671	10	93272233	G	T	3440	-0.40	0.09	0.00	0.01	20.84
rs2631687	CD39+ CD8br	ebi-a-GCST90001671	10	93057020	A	C	3440	0.23	0.05	0.00	0.01	21.25
rs72812685	CD39+ CD8br	ebi-a-GCST90001671	10	95845989	A	G	3440	0.62	0.06	0.00	0.03	112.21
rs72826245	CD39+ CD8br	ebi-a-GCST90001671	10	99903526	T	C	3440	0.45	0.09	0.00	0.01	23.15
rs4918960	CD39+ CD8br	ebi-a-GCST90001671	10	97472570	A	T	3440	-0.90	0.02	0.00	0.36	1929.66
rs12778618	CD39+ CD8br	ebi-a-GCST90001671	10	95633120	C	T	3440	0.82	0.06	0.00	0.05	179.81
rs2901833	CD39+ CD8br	ebi-a-GCST90001671	10	96998591	A	G	3440	0.22	0.03	0.00	0.02	68.57
rs111534725	CD39+ CD8br	ebi-a-GCST90001671	10	98139264	T	G	3440	0.77	0.06	0.00	0.04	140.77
rs146426185	CD39+ CD8br	ebi-a-GCST90001671	10	99452494	C	A	3440	-0.30	0.05	0.00	0.01	32.02
rs17111341	CD39+ CD8br	ebi-a-GCST90001671	10	97881031	C	T	3440	0.64	0.05	0.00	0.04	152.42
rs11818051	CD39+ CD8br	ebi-a-GCST90001671	10	97972294	T	C	3440	0.70	0.07	0.00	0.03	88.77
rs111899271	CD39+ CD8br	ebi-a-GCST90001671	10	70317419	G	T	3440	0.17	0.04	0.00	0.01	22.00

rs1995763	CD39+ CD8br	ebi-a-GCST90001671	11	134726590	A	G	3440	-0.12	0.03	0.00	0.01	20.81
rs76225630	CD39+ CD8br	ebi-a-GCST90001671	13	34074087	T	C	3440	0.85	0.18	0.00	0.01	22.04
rs1332595	CD39+ CD8br	ebi-a-GCST90001671	13	77106508	G	T	3440	0.17	0.04	0.00	0.01	19.81
rs9899828	CD39+ CD8br	ebi-a-GCST90001671	17	71595627	G	T	3440	0.20	0.05	0.00	0.01	19.84
rs62156361	CD39+ CD8br AC	ebi-a-GCST90001672	2	99679099	A	G	3408	0.74	0.17	0.00	0.01	20.03
rs11718018	CD39+ CD8br AC	ebi-a-GCST90001672	3	60364770	C	T	3408	-0.12	0.03	0.00	0.01	19.80
rs113398680	CD39+ CD8br AC	ebi-a-GCST90001672	3	145339577	A	G	3408	1.06	0.22	0.00	0.01	22.80
rs7677831	CD39+ CD8br AC	ebi-a-GCST90001672	4	82648490	G	A	3408	0.22	0.04	0.00	0.01	26.25
rs149697028	CD39+ CD8br AC	ebi-a-GCST90001672	4	42155788	G	C	3408	1.01	0.23	0.00	0.01	19.74
rs1861381	CD39+ CD8br AC	ebi-a-GCST90001672	7	97100379	G	A	3408	0.12	0.03	0.00	0.01	20.75
rs34664008	CD39+ CD8br AC	ebi-a-GCST90001672	8	113175429	C	A	3408	-0.16	0.04	0.00	0.01	19.71
rs750587	CD39+ CD8br AC	ebi-a-GCST90001672	9	362917	G	A	3408	-0.16	0.03	0.00	0.01	22.57
rs12778797	CD39+ CD8br AC	ebi-a-GCST90001672	10	96998688	C	T	3408	0.21	0.03	0.00	0.02	61.05
rs72812685	CD39+ CD8br AC	ebi-a-GCST90001672	10	95845989	A	G	3408	0.68	0.06	0.00	0.04	129.79
rs35664	CD39+ CD8br AC	ebi-a-GCST90001672	10	80490882	T	G	3408	-0.19	0.04	0.00	0.01	22.91
rs111534725	CD39+ CD8br AC	ebi-a-GCST90001672	10	98139264	T	G	3408	0.73	0.07	0.00	0.03	122.29
rs72826245	CD39+ CD8br AC	ebi-a-GCST90001672	10	99903526	T	C	3408	0.48	0.09	0.00	0.01	26.01
rs4918960	CD39+ CD8br AC	ebi-a-GCST90001672	10	97472570	A	T	3408	-0.91	0.02	0.00	0.36	1910.80
rs2631687	CD39+ CD8br AC	ebi-a-GCST90001672	10	93057020	A	C	3408	0.25	0.05	0.00	0.01	25.10
rs140079267	CD39+ CD8br AC	ebi-a-GCST90001672	10	93272233	G	T	3408	-0.42	0.09	0.00	0.01	22.15
rs12778618	CD39+ CD8br AC	ebi-a-GCST90001672	10	95633120	C	T	3408	0.85	0.06	0.00	0.05	190.43
rs11818051	CD39+ CD8br AC	ebi-a-GCST90001672	10	97972294	T	C	3408	0.72	0.08	0.00	0.03	90.84
rs17111341	CD39+ CD8br AC	ebi-a-GCST90001672	10	97881031	C	T	3408	0.64	0.05	0.00	0.04	148.90
rs146426185	CD39+ CD8br AC	ebi-a-GCST90001672	10	99452494	C	A	3408	-0.29	0.05	0.00	0.01	29.75
rs111899271	CD39+ CD8br AC	ebi-a-GCST90001672	10	70317419	G	T	3408	0.18	0.04	0.00	0.01	24.39
rs11257350	CD39+ CD8br AC	ebi-a-GCST90001672	10	11874754	T	C	3408	0.18	0.04	0.00	0.01	20.39
rs146940094	CD39+ CD8br AC	ebi-a-GCST90001672	15	94946993	T	G	3408	2.07	0.45	0.00	0.01	21.23
rs17509944	CD39+ CD8br AC	ebi-a-GCST90001672	15	50717609	T	G	3408	0.32	0.07	0.00	0.01	20.07
rs149574697	CD39+ CD8br AC	ebi-a-GCST90001672	18	67477449	T	C	3408	0.46	0.09	0.00	0.01	23.84
rs58434301	CD28- CD127- CD25++ CD8br %T	ebi-a-GCST90001673	1	233952844	G	C	3162	0.47	0.10	0.00	0.01	20.68
rs142394211	CD28- CD127- CD25++ CD8br %T	ebi-a-GCST90001673	1	20454583	T	A	3162	-0.22	0.05	0.00	0.01	21.99
rs35089045	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	1	57910243	C	T	3162	0.30	0.06	0.00	0.01	21.88

rs146970469	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	2	30292698	A	G	3162	-0.26	0.06	0.00	0.01	21.08
rs62166861	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	2	122691344	A	G	3162	0.30	0.06	0.00	0.01	23.11
rs9823305	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	3	169748799	A	T	3162	0.13	0.03	0.00	0.01	23.02
rs186154	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	3	60305117	G	A	3162	0.12	0.03	0.00	0.01	19.63
rs115642223	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	4	141162325	C	T	3162	1.51	0.33	0.00	0.01	21.45
rs6864137	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	5	49624091	A	C	3162	-0.15	0.03	0.00	0.01	19.63
rs9269118	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	6	32443641	A	G	3162	0.14	0.03	0.00	0.01	23.89
rs111856210	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	7	7026180	A	T	3162	-0.21	0.04	0.00	0.01	28.48
rs56098200	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	8	62998411	A	G	3162	-0.14	0.03	0.00	0.01	20.35
rs74139363	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	10	71528846	C	T	3162	-0.72	0.15	0.00	0.01	22.67
rs7963204	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	12	52559164	A	G	3162	0.19	0.04	0.00	0.01	20.48
rs990962	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	14	22567561	T	C	3162	0.15	0.03	0.00	0.01	22.17
rs1871360	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	15	95276540	A	T	3162	-0.12	0.03	0.00	0.01	21.12
rs79000044	CD28- CD127- CD25++ CD8br %T cell	ebi-a-GCST90001673	17	67264572	T	A	3162	0.40	0.09	0.00	0.01	20.26

rs12450916	CD28- CD127- CD25++ CD8br %T ^{cell}	ebi-a-GCST90001673	17	74615933	T	C	3162	0.12	0.03	0.00	0.01	22.07
rs10411958	CD28- CD127- CD25++ CD8br %T ^{cell}	ebi-a-GCST90001673	19	13113641	C	T	3162	0.11	0.03	0.00	0.01	19.96
rs6085043	CD28- CD127- CD25++ CD8br %T ^{cell}	ebi-a-GCST90001673	20	5222441	G	T	3162	0.25	0.05	0.00	0.01	26.19
rs1015011	CD28- CD127- CD25++ CD8br %T ^{cell}	ebi-a-GCST90001673	22	24893021	G	C	3162	0.16	0.03	0.00	0.01	22.52
rs35089045	CD28- CD127- CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001674	1	57910243	C	T	3162	0.29	0.06	0.00	0.01	20.56
rs79410072	CD28- CD127- CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001674	2	66204309	G	C	3162	-0.20	0.04	0.00	0.01	20.47
rs13068352	CD28- CD127- CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001674	3	172724426	T	A	3162	0.23	0.05	0.00	0.01	23.61
rs4317130	CD28- CD127- CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001674	3	173079422	A	G	3162	0.28	0.06	0.00	0.01	19.78
rs921157	CD28- CD127- CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001674	3	63178517	G	A	3162	-0.19	0.04	0.00	0.01	19.84
rs115642223	CD28- CD127- CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001674	4	141162325	C	T	3162	1.53	0.33	0.00	0.01	21.63
rs114824462	CD28- CD127- CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001674	5	166507188	A	T	3162	0.76	0.16	0.00	0.01	22.47
rs75836793	CD28- CD127- CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001674	5	73501148	A	G	3162	0.20	0.04	0.00	0.01	22.41
rs111856210	CD28- CD127- CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001674	7	7026180	A	T	3162	-0.20	0.04	0.00	0.01	25.20
rs1711693	CD28- CD127- CD25++ CD8br %CD8br	ebi-a-GCST90001674	8	62932228	G	A	3162	-0.14	0.03	0.00	0.01	19.77

	CD28- CD127- CD25++											
rs10998956	CD8br %CD8hr CD28-	ebi-a-GCST90001674	10	71525881	G	C	3162	-0.70	0.15	0.00	0.01	22.17
	CD127- CD25++											
rs75532811	CD8br %CD8hr CD28-	ebi-a-GCST90001674	12	18964607	A	G	3162	1.07	0.22	0.00	0.01	23.90
	CD127- CD25++											
rs7963204	CD8br %CD8hr CD28-	ebi-a-GCST90001674	12	52559164	A	G	3162	0.19	0.04	0.00	0.01	19.80
	CD127- CD25++											
rs149389411	CD8br %CD8hr CD28-	ebi-a-GCST90001674	15	36411730	C	A	3162	0.15	0.03	0.00	0.01	21.60
	CD127- CD25++											
rs12599120	CD8br %CD8hr CD28-	ebi-a-GCST90001674	16	25477950	C	T	3162	0.12	0.03	0.00	0.01	20.96
	CD127- CD25++											
rs2120691	CD8br %CD8hr CD28-	ebi-a-GCST90001674	16	86753615	G	A	3162	0.14	0.03	0.00	0.01	21.11
	CD127- CD25++											
rs6085043	CD8br %CD8hr CD28-	ebi-a-GCST90001674	20	5222441	G	T	3162	0.24	0.05	0.00	0.01	24.58
	CD127- CD25++											
rs6004167	CD8br %CD8hr CD28-	ebi-a-GCST90001674	22	24892018	G	A	3162	0.15	0.03	0.00	0.01	22.45
	CD127- CD25++											
rs12038742	CD8hr AC CD28-	ebi-a-GCST90001675	1	188622706	G	A	3130	0.18	0.04	0.00	0.01	20.58
	CD127- CD25++											
rs35089045	CD8hr AC CD28-	ebi-a-GCST90001675	1	57910243	C	T	3130	0.30	0.06	0.00	0.01	23.35
	CD127- CD25++											
rs3879969	CD8br AC CD28-	ebi-a-GCST90001675	1	120551817	T	A	3130	0.34	0.07	0.00	0.01	22.29
	CD127- CD25++											
rs62166861	CD8br AC CD28-	ebi-a-GCST90001675	2	122691344	A	G	3130	0.30	0.06	0.00	0.01	22.21
	CD127- CD25++											
rs72929459	CD8hr AC CD28-	ebi-a-GCST90001675	2	200181613	T	C	3130	3.11	0.68	0.00	0.01	20.85
	CD127- CD25++											
rs115134707	CD8hr AC CD28-	ebi-a-GCST90001675	3	60344346	C	T	3130	-0.63	0.14	0.00	0.01	20.89
	CD127- CD25++											
rs1839051	CD8hr AC CD28-	ebi-a-GCST90001675	3	76705353	C	A	3130	-0.13	0.03	0.00	0.01	19.81
	CD127- CD25++											
rs13068352	CD8br AC	ebi-a-GCST90001675	3	172724426	T	A	3130	0.21	0.05	0.00	0.01	19.90

rs138505212	CD28- CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	4	161872855	A	G	3130	0.17	0.04	0.00	0.01	20.08
rs115642223	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	4	141162325	C	T	3130	1.44	0.32	0.00	0.01	19.68
rs6881158	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	5	20984750	T	C	3130	0.12	0.03	0.00	0.01	21.30
rs17203563	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	6	32446459	A	G	3130	0.18	0.03	0.00	0.01	30.04
rs10952014	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	7	7026245	G	C	3130	-0.16	0.03	0.00	0.01	23.34
rs77397960	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	8	62998415	C	T	3130	-0.15	0.03	0.00	0.01	21.30
rs76210385	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	9	4728523	C	T	3130	-0.13	0.03	0.00	0.01	19.90
rs4459318	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	11	119541778	T	C	3130	0.11	0.03	0.00	0.01	19.56
rs7963204	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	12	52559164	A	G	3130	0.19	0.04	0.00	0.01	20.64
rs57153567	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	13	24865664	A	G	3130	-0.14	0.03	0.00	0.01	20.25
rs1871360	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	15	95276540	A	T	3130	-0.12	0.03	0.00	0.01	21.01
rs66790175	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	16	86074353	G	T	3130	0.41	0.08	0.00	0.01	25.01
rs12450916	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	17	74615933	T	C	3130	0.12	0.03	0.00	0.01	23.87
rs79000044	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	17	67264572	T	A	3130	0.40	0.09	0.00	0.01	20.16
rs62063923	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	17	29871886	G	C	3130	0.25	0.05	0.00	0.01	24.21
rs9319779	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	18	67151077	T	C	3130	-0.13	0.03	0.00	0.01	21.51
rs10413329	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	19	13114434	G	A	3130	0.12	0.03	0.00	0.01	20.31
rs117591947	CD127- CD25++ CD8br AC	ebi-a-GCST90001675	20	18052894	A	G	3130	0.23	0.05	0.00	0.01	19.67

rs6085043	CD28- CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	20	5222441	G	T	3130	0.25	0.05	0.00	0.01	26.15
rs75632179	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	20	33611208	G	T	3130	-0.21	0.05	0.00	0.01	20.44
rs79172657	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	21	41072897	T	C	3130	0.38	0.08	0.00	0.01	20.89
rs6004167	CD127- CD25++ CD8br AC CD28-	ebi-a-GCST90001675	22	24892018	G	A	3130	0.15	0.03	0.00	0.01	20.78
rs3010090	CD25++ CD8br %T cell CD28-	ebi-a-GCST90001676	1	202164837	T	C	3162	0.12	0.02	0.00	0.01	22.84
rs6682100	CD25++ CD8br %T cell CD28-	ebi-a-GCST90001676	1	159130400	C	T	3162	0.44	0.10	0.00	0.01	20.46
rs2377708	CD25++ CD8br %T cell CD28-	ebi-a-GCST90001676	1	217982930	C	A	3162	0.12	0.02	0.00	0.01	22.65
rs58227542	CD25++ CD8br %T cell CD28-	ebi-a-GCST90001676	2	218638794	A	T	3162	0.19	0.04	0.00	0.01	25.13
rs62166861	CD25++ CD8br %T cell CD28-	ebi-a-GCST90001676	2	122691344	A	G	3162	0.30	0.06	0.00	0.01	25.57
rs115583593	CD25++ CD8br %T cell CD28-	ebi-a-GCST90001676	2	180234098	T	C	3162	-0.64	0.14	0.00	0.01	20.16
rs6549955	CD25++ CD8br %T cell CD28-	ebi-a-GCST90001676	3	29825146	T	G	3162	0.11	0.02	0.00	0.01	20.13
rs9839296	CD25++ CD8br %T cell CD28-	ebi-a-GCST90001676	3	169747938	G	A	3162	0.12	0.02	0.00	0.01	24.70
rs3010090	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	1	202164837	T	C	3162	0.12	0.02	0.00	0.01	23.24
rs532011071	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	1	18829486	G	A	3162	-0.40	0.08	0.00	0.01	23.68
rs12756299	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	1	7758760	C	T	3162	-0.11	0.02	0.00	0.01	20.05
rs58227542	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	2	218638794	A	T	3162	0.17	0.04	0.00	0.01	19.81
rs9839296	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	3	169747938	G	A	3162	0.12	0.02	0.00	0.01	23.63
rs79297644	CD25++ CD8br %CD8br	ebi-a-GCST90001677	4	189525284	T	C	3162	-0.38	0.08	0.00	0.01	19.91

rs27905	CD28- CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	5	50162788	A	G	3162	-0.11	0.03	0.00	0.01	19.61
rs115466519	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	5	96883867	T	A	3162	-0.53	0.11	0.00	0.01	21.36
rs9380237	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	6	31264392	A	G	3162	0.13	0.03	0.00	0.01	23.02
rs542482176	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	6	63661784	A	G	3162	0.49	0.10	0.00	0.01	24.04
rs9269182	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	6	32447857	C	T	3162	-0.16	0.03	0.00	0.01	25.46
rs220702	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	6	46867717	T	C	3162	0.19	0.04	0.00	0.01	23.53
rs2353082	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	7	72913168	C	G	3162	0.11	0.02	0.00	0.01	20.57
rs2283017	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	7	99574758	G	A	3162	0.11	0.02	0.00	0.01	20.74
rs75532811	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	12	18964607	A	G	3162	0.92	0.20	0.00	0.01	20.07
rs61623247	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	15	67237900	G	C	3162	-0.17	0.04	0.00	0.01	22.35
rs145868945	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	16	54688102	T	C	3162	-0.88	0.19	0.00	0.01	21.50
rs149335969	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	17	1604250	C	T	3162	-0.14	0.03	0.00	0.01	19.72
rs72865317	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	17	69346419	A	G	3162	0.24	0.05	0.00	0.01	21.64
rs57752884	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	17	62472	A	G	3162	-0.43	0.08	0.00	0.01	25.93
rs3919557	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	18	53419914	T	C	3162	0.11	0.03	0.00	0.01	20.87
rs61383018	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	18	66588419	T	G	3162	0.17	0.04	0.00	0.01	20.12
rs2109199	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	18	66051556	C	G	3162	0.13	0.03	0.00	0.01	22.04
rs10404710	CD25++ CD8br %CD8br	ebi-a-GCST90001677	19	8751986	T	C	3162	-0.11	0.02	0.00	0.01	20.81

rs3848525	CD28- CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	19	58836339	T	C	3162	0.37	0.08	0.00	0.01	21.29
rs75692821	CD25++ CD8br %CD8br CD28-	ebi-a-GCST90001677	21	19732234	A	T	3162	-0.52	0.11	0.00	0.01	20.95
rs2377708	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	1	217982930	C	A	3130	0.12	0.02	0.00	0.01	22.63
rs116011991	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	1	181205200	C	A	3130	1.22	0.26	0.00	0.01	22.54
rs79660525	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	2	66305842	G	A	3130	0.74	0.15	0.00	0.01	23.53
rs114664351	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	2	148331978	C	T	3130	-0.28	0.06	0.00	0.01	19.80
rs72929459	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	2	200181613	T	C	3130	2.87	0.63	0.00	0.01	20.49
rs62166861	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	2	122691344	A	G	3130	0.29	0.06	0.00	0.01	24.25
rs58227542	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	2	218638794	A	T	3130	0.17	0.04	0.00	0.01	19.67
rs78643468	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	3	62204684	A	G	3130	-0.66	0.15	0.00	0.01	19.75
rs115134707	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	3	60344346	C	T	3130	-0.64	0.13	0.00	0.01	24.94
rs1839051	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	3	76705353	C	A	3130	-0.13	0.03	0.00	0.01	23.07
rs75596593	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	4	161897744	G	C	3130	0.17	0.04	0.00	0.01	23.05
rs220702	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	6	46867717	T	C	3130	0.17	0.04	0.00	0.01	19.82
rs9269109	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	6	32443266	C	T	3130	0.16	0.03	0.00	0.01	32.93
rs1634734	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	6	31307885	A	G	3130	-0.12	0.03	0.00	0.01	20.97
rs78414417	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	7	137053814	A	G	3130	-0.32	0.07	0.00	0.01	20.80
rs142133440	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	9	128841396	T	C	3130	-0.79	0.17	0.00	0.01	22.28
rs74969013	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	10	112991635	C	G	3130	-0.30	0.07	0.00	0.01	19.95
rs12430530	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	13	24865057	G	A	3130	-0.14	0.03	0.00	0.01	20.62
rs45446506	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	14	67938855	C	G	3130	-0.19	0.04	0.00	0.01	19.68
rs66790175	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	16	86074353	G	T	3130	0.36	0.08	0.00	0.01	21.82
rs62063923	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	17	29871886	G	C	3130	0.25	0.05	0.00	0.01	27.49
rs3848525	CD25++ CD8br AC	ebi-a-GCST90001678	19	58836339	T	C	3130	0.35	0.08	0.00	0.01	19.85

rs10413329	CD28- CD25++ CD8br AC CD28-	ebi-a-GCST90001678	19	13114434	G	A	3130	0.12	0.02	0.00	0.01	23.55
rs7262847	CD25++ CD8br AC CD28-	ebi-a-GCST90001678	20	40528509	G	C	3130	-0.18	0.04	0.00	0.01	20.02
rs79172657	CD25++ CD8br AC CD25++	ebi-a-GCST90001678	21	41072897	T	C	3130	0.36	0.08	0.00	0.01	20.97
rs61768382	CD8br %T cell CD25++	ebi-a-GCST90001679	1	53873140	A	G	3162	0.58	0.13	0.00	0.01	20.21
rs10789181	CD8br %T cell CD25++	ebi-a-GCST90001679	1	65816567	G	A	3162	0.13	0.03	0.00	0.01	21.53
rs78667279	CD8br %T cell CD25++	ebi-a-GCST90001679	2	54957709	A	G	3162	-0.74	0.13	0.00	0.01	32.39
rs60503607	CD8br %T cell CD25++	ebi-a-GCST90001679	2	53610249	G	C	3162	-0.19	0.04	0.00	0.01	19.93
rs56262900	CD8br %T cell CD25++	ebi-a-GCST90001679	2	23897725	A	G	3162	-0.21	0.05	0.00	0.01	19.87
rs139199585	CD8br %T cell CD25++	ebi-a-GCST90001679	3	189800760	G	C	3162	-0.25	0.05	0.00	0.01	21.21
rs2875404	CD8br %T cell CD25++	ebi-a-GCST90001679	3	76674553	T	C	3162	-0.13	0.03	0.00	0.01	21.53
rs111237279	CD8br %T cell CD25++	ebi-a-GCST90001679	4	184874118	G	A	3162	-0.14	0.03	0.00	0.01	21.37
rs115540740	CD8br %T cell CD25++	ebi-a-GCST90001679	5	2863938	A	G	3162	0.41	0.09	0.00	0.01	22.83
rs111066413	CD8br %T cell CD25++	ebi-a-GCST90001679	8	142715815	A	G	3162	1.04	0.21	0.00	0.01	24.53
rs61839660	CD8br %T cell CD25++	ebi-a-GCST90001679	10	6094697	T	C	3162	0.32	0.06	0.00	0.01	30.60
rs4565815	CD8br %T cell CD25++	ebi-a-GCST90001679	10	94519697	T	G	3162	0.17	0.04	0.00	0.01	19.71
rs76836923	CD8br %T cell CD25++	ebi-a-GCST90001679	13	68739557	C	T	3162	0.56	0.12	0.00	0.01	22.96
rs35186946	CD8br %T cell CD25++	ebi-a-GCST90001679	15	37811809	C	T	3162	-0.12	0.03	0.00	0.01	19.67
rs12930684	CD8br %T cell CD25++	ebi-a-GCST90001679	16	7317447	C	G	3162	-0.18	0.04	0.00	0.01	20.83
rs35800283	CD8br %T cell CD25++	ebi-a-GCST90001679	18	62294527	G	A	3162	-1.43	0.32	0.00	0.01	19.91
rs9304487	CD8br %T cell CD25++	ebi-a-GCST90001679	18	23581998	G	A	3162	0.61	0.12	0.00	0.01	24.80
rs73158142	CD8br %T cell CD25++	ebi-a-GCST90001679	22	37308470	T	C	3162	0.36	0.08	0.00	0.01	21.70
rs10789181	CD8br %CD8br CD25++	ebi-a-GCST90001680	1	65816567	G	A	3162	0.13	0.03	0.00	0.01	23.05
rs72915529	CD8br %CD8br CD25++	ebi-a-GCST90001680	2	54970478	A	G	3162	-0.74	0.13	0.00	0.01	35.36
rs11935691	CD8br %CD8br	ebi-a-GCST90001680	4	166715039	T	C	3162	-0.30	0.06	0.00	0.01	22.30

rs114170505	CD25++ CD8br %CD8br CD25++	ebi-a-GCST90001680	6	32666487	C	T	3162	0.19	0.04	0.00	0.01	20.32
rs143728584	CD8br %CD8br CD25++	ebi-a-GCST90001680	6	63027335	T	A	3162	0.33	0.07	0.00	0.01	20.04
rs117858455	CD8br %CD8br CD25++	ebi-a-GCST90001680	7	70457913	T	C	3162	0.30	0.06	0.00	0.01	24.53
rs2511723	CD8br %CD8br CD25++	ebi-a-GCST90001680	8	103689301	A	G	3162	0.45	0.10	0.00	0.01	20.56
rs34291145	CD8br %CD8br CD25++	ebi-a-GCST90001680	8	112918556	A	G	3162	-0.38	0.07	0.00	0.01	26.12
rs7871096	CD8br %CD8br CD25++	ebi-a-GCST90001680	9	9463556	T	C	3162	-0.15	0.03	0.00	0.01	20.56
rs2891140	CD8br %CD8br CD25++	ebi-a-GCST90001680	9	20150132	A	G	3162	-0.20	0.04	0.00	0.01	20.85
rs7899856	CD8br %CD8br CD25++	ebi-a-GCST90001680	10	76992690	G	A	3162	0.17	0.04	0.00	0.01	19.79
rs61839660	CD8br %CD8br CD25++	ebi-a-GCST90001680	10	6094697	T	C	3162	0.29	0.06	0.00	0.01	26.28
rs60120845	CD8br %CD8br CD25++	ebi-a-GCST90001680	10	56952514	C	T	3162	0.13	0.03	0.00	0.01	23.19
rs12319878	CD8br %CD8br CD25++	ebi-a-GCST90001680	12	132289989	T	C	3162	0.12	0.03	0.00	0.01	20.25
rs34505526	CD8br %CD8br CD25++	ebi-a-GCST90001680	13	21956272	C	T	3162	-0.32	0.07	0.00	0.01	20.70
rs76404623	CD8br %CD8br CD25++	ebi-a-GCST90001680	14	66336556	T	C	3162	1.24	0.27	0.00	0.01	20.47
rs1840899	CD8br %CD8br CD25++	ebi-a-GCST90001680	15	37803811	A	C	3162	-0.13	0.03	0.00	0.01	26.19
rs1713484	CD8br %CD8br CD25++	ebi-a-GCST90001680	16	12745851	G	A	3162	-0.12	0.03	0.00	0.01	21.06
rs117023413	CD8br %CD8br CD25++	ebi-a-GCST90001680	16	77750381	C	G	3162	0.39	0.09	0.00	0.01	20.26
rs12930684	CD8br %CD8br CD25++	ebi-a-GCST90001680	16	7317447	C	G	3162	-0.19	0.04	0.00	0.01	24.11
rs9304487	CD8br %CD8br CD25++	ebi-a-GCST90001680	18	23581998	G	A	3162	0.60	0.12	0.00	0.01	24.15
rs62085785	CD8br %CD8br CD25++	ebi-a-GCST90001680	18	2446762	T	C	3162	0.12	0.03	0.00	0.01	20.92
rs57406526	CD8br %CD8br CD25++	ebi-a-GCST90001680	20	12603931	T	A	3162	0.56	0.12	0.00	0.01	21.27
rs285429	CD8br AC CD25++	ebi-a-GCST90001681	1	165421240	G	C	3130	-0.16	0.04	0.00	0.01	19.93
rs12090749	CD8br AC CD25++	ebi-a-GCST90001681	1	204152575	T	A	3130	-0.28	0.06	0.00	0.01	22.01
rs72915262	CD8br AC CD25++	ebi-a-GCST90001681	2	199736794	T	C	3130	0.37	0.08	0.00	0.01	21.54
rs186153147	CD8br AC CD25++	ebi-a-GCST90001681	2	233285448	C	G	3130	1.32	0.29	0.00	0.01	21.33
rs147417158	CD8br AC CD25++	ebi-a-GCST90001681	2	28165568	G	T	3130	-0.51	0.11	0.00	0.01	22.61
rs78667279	CD8br AC CD25++	ebi-a-GCST90001681	2	54957709	A	G	3130	-0.75	0.13	0.00	0.01	32.44
rs139199585	CD8br AC	ebi-a-GCST90001681	3	189800760	G	C	3130	-0.25	0.05	0.00	0.01	21.57

rs2875404	CD25++ CD8br AC	ebi-a-GCST90001681	3	76674553	T	C	3130	-0.15	0.03	0.00	0.01	30.72
rs79068129	CD25++ CD8br AC	ebi-a-GCST90001681	4	40455868	T	A	3130	-0.48	0.09	0.00	0.01	29.03
rs115540740	CD25++ CD8br AC	ebi-a-GCST90001681	5	2863938	A	G	3130	0.42	0.09	0.00	0.01	22.71
rs2381937	CD25++ CD8br AC	ebi-a-GCST90001681	5	174189338	G	A	3130	-0.12	0.03	0.00	0.01	20.58
rs3112458	CD25++ CD8br AC	ebi-a-GCST90001681	5	170912245	G	C	3130	0.30	0.06	0.00	0.01	23.48
rs67795607	CD25++ CD8br AC	ebi-a-GCST90001681	6	148558828	G	C	3130	0.24	0.05	0.00	0.01	21.20
rs113792557	CD25++ CD8br AC	ebi-a-GCST90001681	7	63496409	C	T	3130	0.21	0.04	0.00	0.01	24.82
rs111066413	CD25++ CD8br AC	ebi-a-GCST90001681	8	142715815	A	G	3130	1.07	0.21	0.00	0.01	25.05
rs12722558	CD25++ CD8br AC	ebi-a-GCST90001681	10	6070276	T	A	3130	0.27	0.05	0.00	0.01	24.75
rs145966061	CD25++ CD8br AC	ebi-a-GCST90001681	10	110696905	A	G	3130	0.32	0.07	0.00	0.01	23.17
rs79217088	CD25++ CD8br AC	ebi-a-GCST90001681	10	56038091	A	C	3130	-0.19	0.04	0.00	0.01	24.60
rs9523198	CD25++ CD8br AC	ebi-a-GCST90001681	13	91588376	C	A	3130	-0.13	0.03	0.00	0.01	19.76
rs76836923	CD25++ CD8br AC	ebi-a-GCST90001681	13	68739557	C	T	3130	0.53	0.12	0.00	0.01	20.88
rs12873951	CD25++ CD8br AC	ebi-a-GCST90001681	13	86136478	A	G	3130	0.16	0.04	0.00	0.01	19.63
rs61975285	CD25++ CD8br AC	ebi-a-GCST90001681	14	82650928	G	A	3130	-0.24	0.05	0.00	0.01	20.89
rs77859155	CD25++ CD8br AC	ebi-a-GCST90001681	14	66658886	G	A	3130	0.25	0.05	0.00	0.01	22.73
rs117603761	CD25++ CD8br AC	ebi-a-GCST90001681	16	77741894	C	G	3130	0.44	0.09	0.00	0.01	23.71
rs117391590	CD25++ CD8br AC	ebi-a-GCST90001681	17	42759948	A	G	3130	-0.30	0.07	0.00	0.01	20.32
rs6502728	CD25++ CD8br AC	ebi-a-GCST90001681	17	3394299	A	C	3130	-0.17	0.04	0.00	0.01	21.04
rs1403755	CD25++ CD8br AC	ebi-a-GCST90001681	18	30263492	T	C	3130	0.27	0.05	0.00	0.01	33.25
rs67641209	CD25++ CD8br AC	ebi-a-GCST90001681	18	1728457	T	C	3130	-0.12	0.03	0.00	0.01	22.78
rs268887	CD25++ CD8br AC	ebi-a-GCST90001681	19	51460482	G	A	3130	-0.12	0.03	0.00	0.01	19.96
rs6004851	CD25++ CD8br AC	ebi-a-GCST90001681	22	26346108	G	A	3130	-0.15	0.03	0.00	0.01	21.75
rs10171072	CD8br %T cell CD127-	ebi-a-GCST90001682	2	113756563	A	G	3403	0.15	0.03	0.00	0.01	22.92
rs147338725	CD8br %T cell CD127-	ebi-a-GCST90001682	3	52230641	A	G	3403	0.25	0.05	0.00	0.01	20.54
rs13187738	CD8br %T cell CD127-	ebi-a-GCST90001682	5	82289904	G	A	3403	-0.19	0.04	0.00	0.01	23.24
rs77729615	CD8br %T cell CD127-	ebi-a-GCST90001682	6	129871947	T	C	3403	0.68	0.15	0.00	0.01	20.95
rs144005685	CD8br %T cell CD127-	ebi-a-GCST90001682	6	147443476	C	T	3403	-0.35	0.08	0.00	0.01	20.84
rs915895	CD8br %T cell CD127-	ebi-a-GCST90001682	6	32190217	C	T	3403	0.18	0.03	0.00	0.01	28.13
rs6904669	CD8br %T cell CD127-	ebi-a-GCST90001682	6	31192796	G	A	3403	-0.16	0.03	0.00	0.01	28.63
rs143747981	CD8br %T cell CD127-	ebi-a-GCST90001682	7	52171917	G	A	3403	-0.41	0.09	0.00	0.01	19.65
rs117509659	CD8br %T cell	ebi-a-GCST90001682	7	29475802	C	T	3403	0.84	0.18	0.00	0.01	20.53

rs144285452	CD127- CD8br %T cell	ebi-a-GCST90001682	8	8977165	G	C	3403	-0.24	0.05	0.00	0.01	20.65
rs1031000	CD127- CD8br %T cell	ebi-a-GCST90001682	13	104945684	T	C	3403	0.13	0.03	0.00	0.01	20.45
rs176187	CD127- CD8br %T cell	ebi-a-GCST90001682	16	77078642	A	G	3403	0.19	0.04	0.00	0.01	19.69
rs17792777	CD127- CD8br %T cell	ebi-a-GCST90001682	17	74656860	T	C	3403	0.13	0.03	0.00	0.01	24.59
rs4920093	CD127- CD8br %T cell	ebi-a-GCST90001682	21	43304155	G	A	3403	0.26	0.06	0.00	0.01	19.73
rs143237141	CD127- CD8br %T cell	ebi-a-GCST90001682	22	45176439	A	G	3403	0.30	0.07	0.00	0.01	20.40
rs147839296	CD127- CD8br %CD8br	ebi-a-GCST90001683	1	97114345	T	C	3403	-0.20	0.04	0.00	0.01	22.65
rs114065521	CD127- CD8br %CD8br	ebi-a-GCST90001683	1	178434882	G	A	3403	-0.57	0.13	0.00	0.01	20.11
rs114672498	CD127- CD8br %CD8br	ebi-a-GCST90001683	1	4591565	G	C	3403	1.19	0.26	0.00	0.01	21.56
rs13016937	CD127- CD8br %CD8br	ebi-a-GCST90001683	2	237036590	G	A	3403	0.13	0.03	0.00	0.01	19.99
rs10178517	CD127- CD8br %CD8br	ebi-a-GCST90001683	2	110049342	C	T	3403	-0.15	0.03	0.00	0.01	19.86
rs12504845	CD127- CD8br %CD8br	ebi-a-GCST90001683	4	134361180	A	C	3403	-0.35	0.08	0.00	0.01	19.90
rs669537	CD127- CD8br %CD8br	ebi-a-GCST90001683	5	134593542	A	G	3403	-0.13	0.02	0.00	0.01	28.02
rs2636362	CD127- CD8br %CD8br	ebi-a-GCST90001683	6	168395245	G	T	3403	0.14	0.03	0.00	0.01	27.83
rs6462248	CD127- CD8br %CD8br	ebi-a-GCST90001683	7	31160869	A	G	3403	-0.18	0.04	0.00	0.01	19.81
rs139584477	CD127- CD8br %CD8br	ebi-a-GCST90001683	8	57056704	A	G	3403	0.92	0.20	0.00	0.01	21.52
rs6485566	CD127- CD8br %CD8br	ebi-a-GCST90001683	11	44737646	A	G	3403	0.14	0.03	0.00	0.01	26.51
rs8063013	CD127- CD8br %CD8br	ebi-a-GCST90001683	16	72356899	C	T	3403	0.17	0.04	0.00	0.01	21.20
rs12450916	CD127- CD8br %CD8br	ebi-a-GCST90001683	17	74615933	T	C	3403	0.11	0.02	0.00	0.01	19.85
rs16943541	CD127- CD8br %CD8br	ebi-a-GCST90001683	18	376543	C	G	3403	-1.18	0.26	0.00	0.01	20.45
rs12130486	CD127- CD8br AC	ebi-a-GCST90001684	1	81455274	C	T	3371	0.37	0.08	0.00	0.01	20.36
rs7533594	CD127- CD8br AC	ebi-a-GCST90001684	1	205558402	G	T	3371	-0.15	0.03	0.00	0.01	20.26
rs305404	CD127- CD8br AC	ebi-a-GCST90001684	1	88236589	C	A	3371	0.12	0.03	0.00	0.01	20.27
rs17204781	CD127- CD8br AC	ebi-a-GCST90001684	3	151747048	T	C	3371	-0.27	0.06	0.00	0.01	20.08
rs661093	CD127- CD8br AC	ebi-a-GCST90001684	5	3971674	C	G	3371	-0.13	0.03	0.00	0.01	20.90
rs6915999	CD127- CD8br AC	ebi-a-GCST90001684	6	31377851	A	G	3371	-0.15	0.03	0.00	0.01	24.64
rs6908236	CD127- CD8br AC	ebi-a-GCST90001684	6	33628922	C	A	3371	-0.13	0.03	0.00	0.01	21.43

rs3130685	CD127- CD8br AC	ebi-a-GCST90001684	6	31206206	T	C	3371	0.19	0.03	0.00	0.01	37.69
rs77729615	CD127- CD8br AC	ebi-a-GCST90001684	6	129871947	T	C	3371	0.70	0.15	0.00	0.01	20.71
rs72849269	CD127- CD8br AC	ebi-a-GCST90001684	6	32468939	A	G	3371	0.23	0.04	0.00	0.01	29.80
rs199651	CD127- CD8br AC	ebi-a-GCST90001684	7	23366691	T	A	3371	0.12	0.03	0.00	0.01	21.06
rs72721355	CD127- CD8br AC	ebi-a-GCST90001684	8	140355393	A	G	3371	-0.53	0.12	0.00	0.01	20.00
rs1183901	CD127- CD8br AC	ebi-a-GCST90001684	10	90231718	C	T	3371	-0.12	0.03	0.00	0.01	20.48
rs11060493	CD127- CD8br AC	ebi-a-GCST90001684	12	130160924	C	A	3371	0.20	0.04	0.00	0.01	22.80
rs34970500	CD127- CD8br AC	ebi-a-GCST90001684	13	110075194	T	C	3371	-0.28	0.06	0.00	0.01	19.78
rs35238206	CD127- CD8br AC	ebi-a-GCST90001684	17	75698346	G	A	3371	0.13	0.03	0.00	0.01	20.36
rs2837838	CD127- CD8br AC	ebi-a-GCST90001684	21	42191862	G	A	3371	0.22	0.05	0.00	0.01	20.73
rs2267983	CD127- CD8br AC	ebi-a-GCST90001684	22	50698157	A	C	3371	-0.14	0.03	0.00	0.01	27.26
rs60998309	CD28- CD8br %T cell	ebi-a-GCST90001685	3	24959272	A	C	3440	-0.26	0.06	0.00	0.01	20.95
rs7728865	CD28- CD8br %T cell	ebi-a-GCST90001685	5	59819941	A	G	3440	-0.20	0.04	0.00	0.01	24.13
rs9269109	CD28- CD8br %T cell	ebi-a-GCST90001685	6	32443266	C	T	3440	0.16	0.03	0.00	0.01	28.65
rs7756993	CD28- CD8br %T cell	ebi-a-GCST90001685	6	31382133	C	T	3440	-0.15	0.03	0.00	0.01	26.73
rs149359490	CD28- CD8br %T cell	ebi-a-GCST90001685	6	42968121	A	G	3440	-0.28	0.06	0.00	0.01	22.26
rs144285452	CD28- CD8br %T cell	ebi-a-GCST90001685	8	8977165	G	C	3440	-0.24	0.05	0.00	0.01	22.17
rs7989683	CD28- CD8br %T cell	ebi-a-GCST90001685	13	96304050	T	C	3440	-0.22	0.05	0.00	0.01	19.62
rs17757383	CD28- CD8br %T cell	ebi-a-GCST90001685	14	96102338	C	T	3440	-0.26	0.06	0.00	0.01	19.90
rs74829844	CD28- CD8br %T cell	ebi-a-GCST90001685	16	49700293	G	A	3440	0.26	0.06	0.00	0.01	20.41
rs76108828	CD28- CD8br %T cell	ebi-a-GCST90001685	17	19407306	T	A	3440	-0.70	0.16	0.00	0.01	19.73
rs4796089	CD28- CD8br %T cell	ebi-a-GCST90001685	17	33814758	C	T	3440	-0.19	0.04	0.00	0.01	26.97
rs12940345	CD28- CD8br %T cell	ebi-a-GCST90001685	17	74612462	T	C	3440	0.12	0.02	0.00	0.01	23.05
rs8108431	CD28- CD8br %T cell	ebi-a-GCST90001685	19	9996687	C	T	3440	-0.13	0.03	0.00	0.01	20.26
rs148460149	CD28- CD8br %T cell	ebi-a-GCST90001685	20	50115542	A	G	3440	-0.30	0.07	0.00	0.01	19.88
rs56216385	CD28- CD8br %T cell	ebi-a-GCST90001685	21	16129270	G	A	3440	0.13	0.03	0.00	0.01	25.04
rs6009141	CD28- CD8br %T cell	ebi-a-GCST90001685	22	49445896	A	G	3440	-0.16	0.04	0.00	0.01	19.85
rs193125329	CD28- CD8br %CD8br	ebi-a-GCST90001686	3	172046675	C	T	3440	-0.37	0.08	0.00	0.01	22.74
rs6781800	CD28- CD8br %CD8br	ebi-a-GCST90001686	3	187595182	A	G	3440	0.13	0.03	0.00	0.01	19.67
rs669537	CD28- CD8br %CD8br	ebi-a-GCST90001686	5	134593542	A	G	3440	-0.11	0.02	0.00	0.01	21.78
rs2197002	CD28- CD8br %CD8br	ebi-a-GCST90001686	5	78136988	A	C	3440	0.13	0.03	0.00	0.01	22.71
rs7728865	CD28- CD8br %CD8br	ebi-a-GCST90001686	5	59819941	A	G	3440	-0.22	0.04	0.00	0.01	33.01
rs149359490	CD28- CD8br %CD8br	ebi-a-GCST90001686	6	42968121	A	G	3440	-0.25	0.06	0.00	0.01	20.15
rs6904670	CD28- CD8br %CD8br	ebi-a-GCST90001686	6	31192797	G	A	3440	-0.15	0.03	0.00	0.01	30.62
rs57658648	CD28- CD8br %CD8br	ebi-a-GCST90001686	6	32520731	C	G	3440	-0.26	0.06	0.00	0.01	22.07
rs2275854	CD28- CD8br %CD8br	ebi-a-GCST90001686	6	29976838	G	A	3440	0.14	0.03	0.00	0.01	26.78
rs7775227	CD28- CD8br %CD8br	ebi-a-GCST90001686	6	31382147	C	G	3440	-0.13	0.03	0.00	0.01	25.65

rs11544989	CD28- CD8br %CD8br	ebi-a-GCST90001686	8	145057868	G	A	3440	0.11	0.02	0.00	0.01	21.37
rs62490686	CD28- CD8br %CD8br	ebi-a-GCST90001686	8	37669867	G	T	3440	-0.13	0.03	0.00	0.01	19.91
rs185397210	CD28- CD8br %CD8br	ebi-a-GCST90001686	9	12807800	T	C	3440	-0.63	0.14	0.00	0.01	20.49
rs34752208	CD28- CD8br %CD8br	ebi-a-GCST90001686	9	137165566	A	G	3440	-0.11	0.02	0.00	0.01	21.28
rs62530389	CD28- CD8br %CD8br	ebi-a-GCST90001686	9	1143504	G	A	3440	0.13	0.03	0.00	0.01	20.17
rs78240333	CD28- CD8br %CD8br	ebi-a-GCST90001686	11	122733658	C	G	3440	0.43	0.10	0.00	0.01	19.84
rs142216336	CD28- CD8br %CD8br	ebi-a-GCST90001686	12	59178989	T	C	3440	0.34	0.07	0.00	0.01	24.60
rs57679712	CD28- CD8br %CD8br	ebi-a-GCST90001686	12	14117043	C	A	3440	-0.16	0.04	0.00	0.01	20.09
rs7989683	CD28- CD8br %CD8br	ebi-a-GCST90001686	13	96304050	T	C	3440	-0.22	0.05	0.00	0.01	22.40
rs139331134	CD28- CD8br %CD8br	ebi-a-GCST90001686	14	20442676	A	T	3440	0.21	0.05	0.00	0.01	19.61
rs117279064	CD28- CD8br %CD8br	ebi-a-GCST90001686	16	14352543	A	G	3440	-0.48	0.10	0.00	0.01	21.27
rs12450916	CD28- CD8br %CD8br	ebi-a-GCST90001686	17	74615933	T	C	3440	0.11	0.02	0.00	0.01	22.56
rs4796089	CD28- CD8br %CD8br	ebi-a-GCST90001686	17	33814758	C	T	3440	-0.20	0.03	0.00	0.01	36.93
rs1978254	CD28- CD8br %CD8br	ebi-a-GCST90001686	19	57281224	A	G	3440	0.21	0.05	0.00	0.01	20.21
rs148460149	CD28- CD8br %CD8br	ebi-a-GCST90001686	20	50115542	A	G	3440	-0.32	0.06	0.00	0.01	26.38
rs56216385	CD28- CD8br %CD8br	ebi-a-GCST90001686	21	16129270	G	A	3440	0.12	0.02	0.00	0.01	25.47
rs7533594	CD28- CD8br AC	ebi-a-GCST90001687	1	205558402	G	T	3408	-0.14	0.03	0.00	0.01	20.51
rs62280061	CD28- CD8br AC	ebi-a-GCST90001687	3	187544579	A	G	3408	0.16	0.03	0.00	0.01	20.85
rs60998309	CD28- CD8br AC	ebi-a-GCST90001687	3	24959272	A	C	3408	-0.27	0.06	0.00	0.01	22.97
rs1451433	CD28- CD8br AC	ebi-a-GCST90001687	4	179934673	C	G	3408	-0.12	0.03	0.00	0.01	21.97
rs36058358	CD28- CD8br AC	ebi-a-GCST90001687	6	32636282	A	G	3408	-0.22	0.04	0.00	0.01	33.78
rs77729615	CD28- CD8br AC	ebi-a-GCST90001687	6	129871947	T	C	3408	0.70	0.15	0.00	0.01	21.47
rs3130685	CD28- CD8br AC	ebi-a-GCST90001687	6	31206206	T	C	3408	0.19	0.03	0.00	0.01	40.18
rs1266079	CD28- CD8br AC	ebi-a-GCST90001687	6	31504774	G	A	3408	-0.16	0.03	0.00	0.01	27.35
rs113098117	CD28- CD8br AC	ebi-a-GCST90001687	7	54014110	G	A	3408	-0.69	0.15	0.00	0.01	22.27
rs118079184	CD28- CD8br AC	ebi-a-GCST90001687	8	9002188	A	C	3408	-0.24	0.05	0.00	0.01	21.44
rs7989683	CD28- CD8br AC	ebi-a-GCST90001687	13	96304050	T	C	3408	-0.25	0.05	0.00	0.01	22.25
rs12940345	CD28- CD8br AC	ebi-a-GCST90001687	17	74612462	T	C	3408	0.12	0.03	0.00	0.01	23.06
rs4796089	CD28- CD8br AC	ebi-a-GCST90001687	17	33814758	C	T	3408	-0.21	0.04	0.00	0.01	31.72
rs148460149	CD28- CD8br AC	ebi-a-GCST90001687	20	50115542	A	G	3408	-0.32	0.07	0.00	0.01	20.12
rs56216385	CD28- CD8br AC	ebi-a-GCST90001687	21	16129270	G	A	3408	0.14	0.03	0.00	0.01	27.30
rs427055	CD28- CD8br AC	ebi-a-GCST90001687	21	15326213	C	T	3408	-0.21	0.04	0.00	0.01	22.22
rs2267983	CD28- CD8br AC	ebi-a-GCST90001687	22	50698157	A	C	3408	-0.12	0.03	0.00	0.01	21.47
rs113116201	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	1	198830942	C	T	3440	0.64	0.12	0.00	0.01	26.83
rs78743764	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	1	3301962	A	C	3440	2.17	0.46	0.00	0.01	22.40

rs145208064	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	1	187976146	T	C	3440	1.82	0.40	0.00	0.01	20.34
rs12755474	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	1	216352525	G	A	3440	6.64	1.20	0.00	0.01	30.68
rs141357353	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	1	58442574	A	G	3440	1.94	0.41	0.00	0.01	22.98
rs144593458	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	1	159355851	T	C	3440	3.12	0.70	0.00	0.01	20.14
rs142530179	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	1	62672889	G	A	3440	3.78	0.67	0.00	0.01	32.02
rs149023182	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	1	232754676	G	A	3440	4.52	0.79	0.00	0.01	32.74
rs77458346	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	1	247120912	G	A	3440	1.61	0.33	0.00	0.01	23.87
rs74926697	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	2	653215	A	G	3440	2.17	0.48	0.00	0.01	20.83
rs7567302	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	2	237035915	G	C	3440	-0.09	0.02	0.00	0.01	23.01
rs111275136	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	2	52593468	A	G	3440	2.14	0.47	0.00	0.01	20.41
rs79112776	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	2	56230278	T	C	3440	1.68	0.36	0.00	0.01	21.61
rs113046419	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	2	66598636	C	T	3440	2.58	0.53	0.00	0.01	23.48
rs140064908	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	2	141593935	T	C	3440	5.45	1.05	0.00	0.01	27.02
rs7583259	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	2	38921934	G	C	3440	0.10	0.02	0.00	0.01	34.94
rs10183338	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	2	111610816	T	G	3440	0.11	0.02	0.00	0.01	25.46
rs72968960	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	2	128497022	G	A	3440	0.64	0.13	0.00	0.01	24.93
rs146985291	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	3	170169608	G	A	3440	6.49	1.13	0.00	0.01	33.23
rs116131582	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	3	177291240	C	T	3440	-0.78	0.16	0.00	0.01	22.66

rs144547268	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	3	79405328	C	T	3440	1.67	0.38	0.00	0.01	19.82
rs114795342	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	3	24791112	T	A	3440	1.41	0.30	0.00	0.01	22.06
rs74577787	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	3	84799491	T	C	3440	2.35	0.47	0.00	0.01	25.08
rs13115676	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	4	139253983	A	G	3440	-0.18	0.04	0.00	0.01	21.41
rs76604940	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	4	31397782	C	A	3440	3.87	0.68	0.00	0.01	32.07
rs6833962	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	4	103558731	T	C	3440	-0.12	0.02	0.00	0.01	24.80
rs11735841	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	4	25612506	A	G	3440	0.45	0.10	0.00	0.01	21.47
rs115218435	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	4	67836131	G	T	3440	4.27	0.75	0.00	0.01	32.06
rs137858581	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	5	173002007	C	T	3440	3.97	0.73	0.00	0.01	30.02
rs117403703	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	6	93203850	C	T	3440	3.35	0.62	0.00	0.01	29.60
rs116562707	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	6	31360602	G	A	3440	0.40	0.07	0.00	0.01	34.80
rs2075682	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	6	29691097	T	A	3440	0.12	0.02	0.00	0.01	26.67
rs141878021	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	6	319617	T	C	3440	3.02	0.63	0.00	0.01	23.31
rs117475733	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	6	148775706	T	C	3440	1.82	0.30	0.00	0.01	37.22
rs73404248	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	6	31410352	A	G	3440	-0.15	0.03	0.00	0.01	23.17
rs144788631	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	6	145827461	T	C	3440	3.53	0.65	0.00	0.01	29.46
rs112637846	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	6	149114553	A	C	3440	2.35	0.47	0.00	0.01	25.00
rs141596789	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	7	28687227	C	G	3440	1.57	0.29	0.00	0.01	28.75

rs184082746	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	7	92791863	C	T	3440	4.03	0.64	0.00	0.01	39.54
rs184134422	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	7	109990427	T	C	3440	2.47	0.52	0.00	0.01	22.32
rs182236332	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	7	124954943	G	A	3440	4.85	0.81	0.00	0.01	35.83
rs62477133	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	7	118626871	G	C	3440	2.16	0.47	0.00	0.01	21.33
rs112571466	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	7	111704231	G	A	3440	3.79	0.68	0.00	0.01	31.24
rs13243221	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	7	80880540	G	T	3440	2.99	0.62	0.00	0.01	23.41
rs111503027	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	8	59820131	A	G	3440	3.14	0.64	0.00	0.01	24.15
rs8180936	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	8	61151574	T	C	3440	0.09	0.02	0.00	0.01	21.30
rs143498795	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	8	140342260	A	C	3440	3.72	0.67	0.00	0.01	30.76
rs112779860	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	8	127602530	A	G	3440	2.49	0.53	0.00	0.01	22.32
rs118127261	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	8	39979373	A	G	3440	3.61	0.68	0.00	0.01	28.55
rs142967914	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	9	12800264	C	G	3440	3.79	0.67	0.00	0.01	32.28
rs192475369	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	9	33552507	T	A	3440	5.70	1.00	0.00	0.01	32.39
rs76325389	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	9	122676137	G	A	3440	4.88	0.86	0.00	0.01	32.15
rs73648165	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	9	36889554	G	C	3440	2.12	0.47	0.00	0.01	20.07
rs113447229	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	9	105346840	C	T	3440	4.77	0.85	0.00	0.01	31.71
rs12555210	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	9	33428882	G	A	3440	0.15	0.03	0.00	0.01	22.33
rs80194890	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	10	91332621	G	T	3440	4.68	0.81	0.00	0.01	33.27

rs35890579	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	10	129690837	T	G	3440	0.65	0.14	0.00	0.01	20.67
rs74723190	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	10	96183831	C	A	3440	6.24	1.21	0.00	0.01	26.58
rs12258605	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	10	125342204	A	T	3440	0.13	0.03	0.00	0.01	20.32
rs189801254	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	10	68336237	A	C	3440	4.11	0.73	0.00	0.01	32.07
rs141341926	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	11	119643891	T	G	3440	4.42	0.85	0.00	0.01	27.17
rs138653244	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	11	47745696	C	G	3440	2.29	0.46	0.00	0.01	24.47
rs111346930	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	11	91003050	T	C	3440	-0.17	0.04	0.00	0.01	19.59
rs56125740	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	11	134093512	G	A	3440	2.39	0.48	0.00	0.01	25.14
rs117927481	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	12	49315200	A	G	3440	3.78	0.67	0.00	0.01	32.02
rs112258643	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	12	55672838	T	C	3440	3.44	0.60	0.00	0.01	32.55
rs77780671	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	12	129183573	C	T	3440	0.47	0.11	0.00	0.01	19.59
rs9592479	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	13	67157607	C	G	3440	4.76	0.84	0.00	0.01	32.00
rs58471414	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	14	28349764	G	T	3440	3.83	0.68	0.00	0.01	32.03
rs139463423	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	14	31143832	T	C	3440	1.61	0.36	0.00	0.01	20.52
rs117494082	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	14	56862154	A	G	3440	3.89	0.69	0.00	0.01	31.70
rs77670766	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	15	94589979	A	G	3440	4.66	0.88	0.00	0.01	27.79
rs17685199	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	15	36405909	C	A	3440	-0.11	0.02	0.00	0.01	26.47
rs28460753	CD28+ CD45RA+ CD8br %T cell	ebi-a-GCST90001688	15	62991760	A	G	3440	0.60	0.12	0.00	0.01	25.51

rs138736730	CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	15	87138558	G	T	3440	2.59	0.53	0.00	0.01	24.18
rs112731098	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	16	50350935	A	G	3440	1.69	0.36	0.00	0.01	22.41
rs179609	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	16	13818107	T	G	3440	0.09	0.02	0.00	0.01	21.91
rs111283043	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	16	79205197	C	A	3440	4.46	0.79	0.00	0.01	31.72
rs144591335	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	16	59010741	G	A	3440	3.95	0.70	0.00	0.01	32.06
rs149948027	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	16	89718638	T	C	3440	2.89	0.55	0.00	0.01	27.25
rs147066619	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	16	65488378	T	A	3440	5.20	1.13	0.00	0.01	21.09
rs117795441	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	17	54735696	A	G	3440	2.12	0.45	0.00	0.01	21.61
rs8067835	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	17	31363767	G	A	3440	0.10	0.02	0.00	0.01	23.90
rs11652705	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	17	41761741	G	A	3440	-0.12	0.02	0.00	0.01	25.18
rs77935824	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	18	68968361	G	A	3440	3.76	0.66	0.00	0.01	31.92
rs56095154	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	18	50159833	C	G	3440	0.31	0.07	0.00	0.01	20.39
rs60455861	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	19	53953072	G	T	3440	0.09	0.02	0.00	0.01	21.43
rs142208889	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	19	51829114	T	C	3440	3.81	0.66	0.00	0.01	33.25
rs145827119	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	20	57132122	T	C	3440	4.89	0.84	0.00	0.01	34.02
rs149926070	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	21	41143748	A	G	3440	3.53	0.64	0.00	0.01	30.76
rs116954000	cell CD28+ CD45RA+ CD8br %T	ebi-a-GCST90001688	22	40298491	A	T	3440	0.78	0.15	0.00	0.01	28.42
rs17583875	cell CD28+ CD45RA+ CD8br %CD8br	ebi-a-GCST90001689	1	197924770	A	G	3440	1.00	0.17	0.00	0.01	33.21

rs60220946	CD28+ CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	1	193505625	T	C	3440	0.29	0.07	0.00	0.01	20.07
rs2629824	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	1	114687316	G	A	3440	-0.13	0.02	0.00	0.01	27.64
rs2802930	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	1	235096612	T	C	3440	0.41	0.09	0.00	0.01	20.67
rs76668354	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	2	103587624	G	C	3440	0.52	0.10	0.00	0.01	26.03
rs1064086	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	2	237034061	A	G	3440	-0.10	0.02	0.00	0.01	26.91
rs146741472	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	2	120215812	A	G	3440	3.54	0.75	0.00	0.01	22.09
rs11896593	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	2	38925155	C	G	3440	0.10	0.02	0.00	0.01	26.70
rs76313555	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	3	59914042	T	C	3440	0.46	0.10	0.00	0.01	20.52
rs146985291	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	3	170169608	G	A	3440	5.54	1.22	0.00	0.01	20.47
rs10025910	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	4	25610903	T	C	3440	0.51	0.10	0.00	0.01	23.65
rs149655274	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	4	154029285	T	C	3440	1.50	0.31	0.00	0.01	24.00
rs79638560	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	4	183402200	A	C	3440	-1.50	0.33	0.00	0.01	21.00
rs72723766	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	4	152131193	C	T	3440	-2.31	0.51	0.00	0.01	20.65
rs117475733	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	6	148775706	T	C	3440	1.49	0.32	0.00	0.01	21.13
rs114559146	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	6	31395062	C	G	3440	0.11	0.02	0.00	0.01	21.59
rs9260902	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	6	29947740	C	T	3440	-0.12	0.02	0.00	0.01	25.09
rs117403703	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	6	93203850	C	T	3440	3.04	0.67	0.00	0.01	20.62
rs9792050	CD45RA+ CD8br %CD8br	ebi-a-GCST90001689	7	31164655	T	G	3440	-0.15	0.03	0.00	0.01	22.94

rs10242630	CD28+ CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	7	146469943	A	G	3440	0.20	0.04	0.00	0.01	23.18
rs182236332	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	7	124954943	G	A	3440	4.27	0.88	0.00	0.01	23.59
rs184082746	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	7	92791863	C	T	3440	3.53	0.70	0.00	0.01	25.59
rs73061672	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	7	8326430	A	T	3440	0.19	0.04	0.00	0.01	22.92
rs141596789	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	7	28687227	C	G	3440	1.42	0.32	0.00	0.01	19.74
rs34752208	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	9	137165566	A	G	3440	0.10	0.02	0.00	0.01	25.03
rs7033084	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	9	16904641	T	C	3440	0.08	0.02	0.00	0.01	19.66
rs62572596	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	9	114588604	T	C	3440	0.36	0.08	0.00	0.01	20.61
rs76014368	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	12	123513519	T	C	3440	1.54	0.34	0.00	0.01	19.83
rs10840675	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	12	17367587	T	C	3440	0.11	0.03	0.00	0.01	20.03
rs112258643	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	12	55672838	T	C	3440	3.27	0.65	0.00	0.01	25.02
rs9577271	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	13	114096507	G	A	3440	0.11	0.02	0.00	0.01	20.71
rs28576084	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	14	82062494	G	T	3440	0.10	0.02	0.00	0.01	19.97
rs1879612	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	15	99398708	C	T	3440	0.09	0.02	0.00	0.01	23.10
rs28460753	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	15	62991760	A	G	3440	0.61	0.13	0.00	0.01	21.81
rs143788880	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	17	57361218	A	G	3440	0.49	0.11	0.00	0.01	20.42
rs139580802	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	17	76213606	T	C	3440	1.19	0.27	0.00	0.01	19.58
rs5011724	CD45RA+ CD8br %CD8br	ebi-a-GCST90001689	17	41759061	C	T	3440	-0.10	0.02	0.00	0.01	22.44

rs1978254	CD28+ CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	19	57281224	A	G	3440	-0.17	0.04	0.00	0.01	19.62
rs145827119	CD45RA+ CD8br %CD8br CD28+	ebi-a-GCST90001689	20	57132122	T	C	3440	4.13	0.91	0.00	0.01	20.53
rs2629830	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	1	114684259	G	C	3408	-0.11	0.02	0.00	0.01	20.02
rs142530179	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	1	62672889	G	A	3408	3.00	0.67	0.00	0.01	19.82
rs149023182	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	1	232754676	G	A	3408	3.55	0.79	0.00	0.01	19.95
rs4849134	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	2	111615015	G	A	3408	0.09	0.02	0.00	0.01	24.22
rs73926977	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	2	38260823	G	A	3408	-0.18	0.04	0.00	0.01	20.19
rs78908164	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	2	127884901	T	G	3408	0.19	0.04	0.00	0.01	22.88
rs10178070	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	2	18727639	C	T	3408	-0.12	0.03	0.00	0.01	19.92
rs11896593	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	2	38925155	C	G	3408	0.11	0.02	0.00	0.01	32.68
rs62189428	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	2	237016087	T	C	3408	-0.08	0.02	0.00	0.01	21.28
rs111275136	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	2	52593468	A	G	3408	3.01	0.67	0.00	0.01	19.93
rs79777035	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	3	25717920	C	T	3408	0.76	0.16	0.00	0.01	22.45
rs62248512	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	3	26549717	A	G	3408	0.12	0.03	0.00	0.01	22.07
rs146985291	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	3	170169608	G	A	3408	5.31	1.13	0.00	0.01	21.97
rs142617762	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	4	609857	A	T	3408	-0.44	0.09	0.00	0.01	22.30
rs11735841	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	4	25612506	A	G	3408	0.48	0.10	0.00	0.01	24.36
rs115574093	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	4	67743517	C	T	3408	3.56	0.80	0.00	0.01	19.87
rs73127385	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	4	31396800	G	A	3408	3.05	0.68	0.00	0.01	19.88
rs7707297	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	5	83559348	G	C	3408	0.09	0.02	0.00	0.01	22.41
rs148593283	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	5	42120894	A	G	3408	-0.22	0.05	0.00	0.01	19.92
rs2853995	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	6	31333019	C	T	3408	-0.16	0.03	0.00	0.01	26.45
rs1974459	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	6	32452142	G	C	3408	-0.12	0.03	0.00	0.01	20.74
rs117403703	CD45RA+ CD8br AC	ebi-a-GCST90001690	6	93203850	C	T	3408	2.77	0.62	0.00	0.01	19.90

rs3131627	CD28+ CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	6	31415065	G	A	3408	0.13	0.02	0.00	0.01	35.92
rs117475733	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	6	148775706	T	C	3408	1.37	0.30	0.00	0.01	20.92
rs72826622	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	6	20193704	T	C	3408	-0.13	0.03	0.00	0.01	20.64
rs184082746	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	7	92791863	C	T	3408	3.30	0.64	0.00	0.01	26.27
rs182236332	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	7	124954943	G	A	3408	3.91	0.81	0.00	0.01	23.01
rs74968616	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	7	44125650	T	C	3408	0.31	0.07	0.00	0.01	20.22
rs113447229	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	9	105346840	C	T	3408	3.77	0.85	0.00	0.01	19.63
rs76325389	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	9	122676137	G	A	3408	3.85	0.87	0.00	0.01	19.83
rs142967914	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	9	12800264	C	G	3408	3.00	0.67	0.00	0.01	19.97
rs2987632	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	9	138307613	C	G	3408	0.16	0.04	0.00	0.01	21.54
rs192475369	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	9	33552507	T	A	3408	4.57	1.01	0.00	0.01	20.51
rs189801254	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	10	68336237	A	C	3408	3.26	0.73	0.00	0.01	19.88
rs80194890	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	10	91332621	G	T	3408	3.70	0.82	0.00	0.01	20.58
rs12575977	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	11	126507219	T	C	3408	0.12	0.03	0.00	0.01	21.76
rs55645768	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	11	79284506	C	T	3408	0.14	0.03	0.00	0.01	21.50
rs79293430	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	12	71950863	G	A	3408	0.58	0.13	0.00	0.01	20.37
rs117927481	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	12	49315200	A	G	3408	3.00	0.67	0.00	0.01	19.85
rs75723492	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	13	84241776	A	G	3408	1.99	0.44	0.00	0.01	20.55
rs9592479	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	13	67157607	C	G	3408	3.78	0.85	0.00	0.01	19.86
rs113911480	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	14	29113167	G	T	3408	0.23	0.05	0.00	0.01	21.05
rs58471414	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	14	28349764	G	T	3408	3.04	0.68	0.00	0.01	19.85
rs12901644	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	15	36456429	T	C	3408	-0.17	0.03	0.00	0.01	30.38
rs144591335	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	16	59010741	G	A	3408	3.14	0.70	0.00	0.01	20.08
rs75985606	CD45RA+ CD8br AC	ebi-a-GCST90001690	16	56102938	T	C	3408	-0.17	0.04	0.00	0.01	20.20

rs111283043	CD28+ CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	16	79205197	C	A	3408	3.54	0.80	0.00	0.01	19.75
rs6503467	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	17	41767457	G	C	3408	-0.09	0.02	0.00	0.01	23.47
rs2860255	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	18	27836611	A	G	3408	0.08	0.02	0.00	0.01	20.23
rs79934486	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	18	69051316	C	T	3408	2.99	0.67	0.00	0.01	19.74
rs302838	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	19	56414856	C	T	3408	-0.08	0.02	0.00	0.01	21.87
rs60455861	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	19	53953072	G	T	3408	0.09	0.02	0.00	0.01	24.02
rs142208889	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	19	51829114	T	C	3408	3.04	0.67	0.00	0.01	20.91
rs145827119	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	20	57132122	T	C	3408	3.75	0.84	0.00	0.01	19.70
rs62229789	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	20	50100758	T	C	3408	-0.25	0.05	0.00	0.01	23.12
rs149926070	CD45RA+ CD8br AC CD28+	ebi-a-GCST90001690	21	41143748	A	G	3408	2.84	0.64	0.00	0.01	19.57
rs147071297	CD45RA- CD8br %T cell CD28+	ebi-a-GCST90001691	1	191648600	A	G	3440	-0.91	0.20	0.00	0.01	20.14
rs7530076	CD45RA- CD8br %T cell CD28+	ebi-a-GCST90001691	1	195825276	A	G	3440	0.39	0.08	0.00	0.01	21.63
rs116794175	CD45RA- CD8br %T cell CD28+	ebi-a-GCST90001691	1	194010208	C	T	3440	-1.07	0.20	0.00	0.01	29.86
rs17583875	CD45RA- CD8br %T cell CD28+	ebi-a-GCST90001691	1	197924770	A	G	3440	-2.15	0.23	0.00	0.03	88.58
rs3117751	CD45RA- CD8br %T cell CD28+	ebi-a-GCST90001691	1	177745454	G	A	3440	0.12	0.03	0.00	0.01	20.89
rs34645541	CD45RA- CD8br %T cell CD28+	ebi-a-GCST90001691	1	195875605	A	C	3440	-0.59	0.13	0.00	0.01	19.66
rs60220946	CD45RA- CD8br %T cell CD28+	ebi-a-GCST90001691	1	193505625	T	C	3440	-0.52	0.09	0.00	0.01	35.32
rs76557351	CD45RA- CD8br %T cell CD28+	ebi-a-GCST90001691	2	46479929	C	G	3440	-0.24	0.05	0.00	0.01	26.37
rs147285635	CD45RA- CD8br %T cell CD28+	ebi-a-GCST90001691	3	84498712	A	G	3440	-3.00	0.68	0.00	0.01	19.67
rs71621309	CD45RA- CD8br %T cell CD28+	ebi-a-GCST90001691	3	66439115	C	T	3440	0.60	0.13	0.00	0.01	21.75
rs1450147	CD45RA- CD8br %T cell	ebi-a-GCST90001691	4	183111829	T	C	3440	-0.13	0.03	0.00	0.01	21.11

rs114547596	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	4	97974344	G	A	3440	-3.35	0.71	0.00	0.01	22.43
rs16996915	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	4	78710538	A	C	3440	-0.14	0.03	0.00	0.01	23.29
rs17318450	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	5	35482314	G	A	3440	0.11	0.02	0.00	0.01	20.29
rs34933238	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	5	23346191	G	A	3440	0.37	0.07	0.00	0.01	29.73
rs4425613	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	6	130374792	A	C	3440	-0.13	0.03	0.00	0.01	24.55
rs113888828	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	6	149157641	T	C	3440	-3.36	0.75	0.00	0.01	20.29
rs9378248	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	6	31326289	A	G	3440	0.16	0.03	0.00	0.01	26.12
rs59052071	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	6	32586307	T	C	3440	0.19	0.04	0.00	0.01	24.06
rs1722056	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	7	109795429	T	C	3440	0.16	0.03	0.00	0.01	23.90
rs144061457	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	9	108909972	A	T	3440	1.45	0.32	0.00	0.01	20.13
rs7069505	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	10	956400	T	C	3440	-0.12	0.03	0.00	0.01	19.79
rs74331648	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	11	91720965	A	C	3440	-0.32	0.07	0.00	0.01	21.49
rs180683226	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	12	47277365	A	G	3440	-0.31	0.07	0.00	0.01	21.68
rs145394193	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	18	2967168	T	A	3440	0.37	0.08	0.00	0.01	20.47
rs1284408	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	18	13548430	G	T	3440	0.11	0.03	0.00	0.01	20.09
rs9608041	CD28+ CD45RA- CD8br %T cell	ebi-a-GCST90001691	22	20851424	T	C	3440	0.25	0.05	0.00	0.01	24.61
rs146620586	CD28+ CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	1	198524264	T	G	3440	-2.60	0.28	0.00	0.02	83.98
rs60220946	CD28+ CD45RA- CD8br %CD8br	ebi-a-GCST90001692	1	193505625	T	C	3440	-0.43	0.09	0.00	0.01	24.60

rs11579717	CD28+ CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	1	199999121	A	G	3440	-1.25	0.19	0.00	0.01	44.11
rs138915779	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	1	190079170	A	C	3440	-1.14	0.23	0.00	0.01	24.40
rs76557351	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	2	46479929	C	G	3440	-0.21	0.05	0.00	0.01	20.08
rs144716339	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	3	131340841	T	C	3440	-0.24	0.05	0.00	0.01	21.11
rs147285635	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	3	84498712	A	G	3440	-3.12	0.67	0.00	0.01	21.43
rs114547596	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	4	97974344	G	A	3440	-3.30	0.70	0.00	0.01	21.98
rs6812204	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	4	181208931	C	T	3440	-0.12	0.03	0.00	0.01	20.79
rs138969403	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	4	88757559	T	A	3440	-0.26	0.05	0.00	0.01	21.89
rs12498745	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	4	99216768	A	G	3440	-2.10	0.47	0.00	0.01	19.58
rs4368632	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	4	78946913	C	G	3440	0.14	0.03	0.00	0.01	31.15
rs28800474	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	4	116872471	C	T	3440	-0.13	0.03	0.00	0.01	21.45
rs17230697	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	4	55480792	T	C	3440	-0.13	0.03	0.00	0.01	20.28
rs9327711	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	5	134576018	C	G	3440	0.13	0.03	0.00	0.01	23.34
rs62359129	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	5	39623055	T	A	3440	0.15	0.03	0.00	0.01	20.93
rs1051488	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	6	31322911	T	C	3440	0.24	0.03	0.00	0.01	51.45
rs9271513	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	6	32589523	G	C	3440	-0.23	0.03	0.00	0.01	45.82
rs111328168	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	6	149103548	G	A	3440	-3.34	0.72	0.00	0.01	21.67
rs12663276	CD45RA- CD8br %CD8br	ebi-a-GCST90001692	6	29906010	G	A	3440	-0.30	0.06	0.00	0.01	25.62

rs77336134	CD28+ CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	7	22504488	C	T	3440	0.26	0.06	0.00	0.01	20.31
rs3896278	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	7	134137705	T	C	3440	0.12	0.03	0.00	0.01	20.88
rs7863844	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	9	38410242	G	T	3440	-0.14	0.03	0.00	0.01	20.30
rs7948625	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	11	43997280	A	G	3440	0.14	0.03	0.00	0.01	20.13
rs1558728	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	12	97559603	A	T	3440	0.12	0.03	0.00	0.01	22.07
rs12317609	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	12	23030395	G	A	3440	-0.42	0.09	0.00	0.01	23.36
rs79222153	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	12	43252206	C	T	3440	0.22	0.05	0.00	0.01	20.22
rs2892496	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	13	30488990	G	A	3440	-0.12	0.03	0.00	0.01	20.12
rs11629948	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	15	65376824	A	T	3440	-0.17	0.04	0.00	0.01	20.57
rs8051285	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	16	7862725	C	T	3440	-0.23	0.05	0.00	0.01	19.82
rs1150437	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	20	59223621	T	C	3440	-0.33	0.07	0.00	0.01	20.36
rs79865452	CD45RA- CD8br %CD8br CD28+	ebi-a-GCST90001692	22	50795620	G	A	3440	1.27	0.28	0.00	0.01	20.51
rs12124698	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	1	246883687	T	A	3408	-0.78	0.17	0.00	0.01	21.98
rs11579717	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	1	199999121	A	G	3408	-1.25	0.19	0.00	0.01	43.24
rs6693121	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	1	101744633	A	C	3408	-0.12	0.03	0.00	0.01	20.86
rs138915779	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	1	190079170	A	C	3408	-1.18	0.23	0.00	0.01	25.35
rs541367304	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	1	198283058	A	G	3408	-2.39	0.26	0.00	0.02	83.95
rs60220946	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	1	193505625	T	C	3408	-0.46	0.09	0.00	0.01	27.76
rs186153147	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	2	233285448	C	G	3408	1.27	0.29	0.00	0.01	19.70
rs2670003	CD45RA- CD8br AC	ebi-a-GCST90001693	3	9087967	C	T	3408	-0.14	0.03	0.00	0.01	20.75

rs114547596	CD28+ CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	4	97974344	G	A	3408	-3.61	0.71	0.00	0.01	25.69
rs76560336	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	4	33455497	T	C	3408	-0.74	0.16	0.00	0.01	21.09
rs35858834	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	5	23325233	T	A	3408	0.25	0.05	0.00	0.01	26.89
rs145673143	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	5	180271484	C	G	3408	0.57	0.12	0.00	0.01	20.63
rs7808299	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	7	83422079	G	A	3408	-0.23	0.05	0.00	0.01	20.53
rs1722056	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	7	109795429	T	C	3408	0.15	0.03	0.00	0.01	20.71
rs1322060	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	9	117697660	G	C	3408	-0.12	0.03	0.00	0.01	19.88
rs7863863	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	9	3374943	A	G	3408	-0.18	0.04	0.00	0.01	23.97
rs12778529	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	10	774793	T	C	3408	-0.12	0.03	0.00	0.01	20.68
rs11595826	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	10	111696639	C	T	3408	0.19	0.04	0.00	0.01	21.87
rs117198249	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	10	28939784	T	C	3408	0.49	0.10	0.00	0.01	22.32
rs2488271	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	10	90228162	A	G	3408	-0.12	0.03	0.00	0.01	21.53
rs116884829	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	11	77173517	G	A	3408	0.18	0.04	0.00	0.01	22.67
rs67077312	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	13	86215727	T	C	3408	0.15	0.03	0.00	0.01	19.72
rs4644866	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	16	25867450	G	C	3408	0.15	0.03	0.00	0.01	20.11
rs9924010	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	16	7398995	A	G	3408	-0.23	0.05	0.00	0.01	26.36
rs2160305	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	16	54006217	A	G	3408	-0.20	0.04	0.00	0.01	24.78
rs117391590	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	17	42759948	A	G	3408	-0.28	0.06	0.00	0.01	19.57
rs34317887	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	18	74998706	G	A	3408	0.25	0.05	0.00	0.01	27.03
rs7241473	CD45RA- CD8br AC CD28+	ebi-a-GCST90001693	18	13547966	T	C	3408	-0.12	0.03	0.00	0.01	22.15
rs188418491	CD45RA- CD8br AC CD28- DN	ebi-a-GCST90001693	19	777304	G	A	3408	-2.19	0.48	0.00	0.01	20.59
rs3821224	(CD4-CD8-) %T cell CD28- DN	ebi-a-GCST90001694	2	61404905	G	C	3440	0.13	0.03	0.00	0.01	20.29
rs115953192	(CD4-CD8-) %T cell CD28- DN	ebi-a-GCST90001694	2	45208257	G	A	3440	-0.28	0.06	0.00	0.01	20.84
rs6755452	(CD4-CD8-) %T cell	ebi-a-GCST90001694	2	87035076	G	T	3440	0.22	0.03	0.00	0.01	43.43

rs76549873	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	2	75722749	C	T	3440	-0.54	0.12	0.00	0.01	21.41
rs75941798	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	3	118074543	C	T	3440	-0.87	0.19	0.00	0.01	21.47
rs144346829	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	4	96715064	A	G	3440	0.30	0.07	0.00	0.01	20.02
rs66989520	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	4	147357834	T	C	3440	0.18	0.04	0.00	0.01	22.65
rs1580183	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	5	83043360	G	A	3440	-0.22	0.05	0.00	0.01	21.87
rs139249541	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	6	102294761	G	A	3440	0.43	0.08	0.00	0.01	32.22
rs79086781	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	6	100526652	T	C	3440	0.34	0.07	0.00	0.01	24.99
rs74593262	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	6	15826226	T	C	3440	-1.71	0.36	0.00	0.01	22.46
rs9488834	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	6	97889936	A	G	3440	0.27	0.06	0.00	0.01	19.88
rs6907169	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	6	100905226	G	C	3440	0.23	0.05	0.00	0.01	24.57
rs2511751	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	8	103602649	T	C	3440	-0.12	0.03	0.00	0.01	22.38
rs958219	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	9	21784225	C	T	3440	-0.13	0.03	0.00	0.01	23.09
rs73560923	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	9	138405168	A	G	3440	0.18	0.04	0.00	0.01	20.42
rs1875168	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	10	2967977	G	A	3440	-0.14	0.03	0.00	0.01	22.09
rs36037322	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	10	96943194	C	T	3440	-0.14	0.03	0.00	0.01	21.35
rs117477265	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	10	115625047	T	C	3440	0.31	0.07	0.00	0.01	20.07
rs78936881	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	11	16325844	T	C	3440	-0.21	0.05	0.00	0.01	21.11
rs140444563	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	12	31103286	G	T	3440	0.19	0.04	0.00	0.01	19.78
rs142716558	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	14	51308539	G	A	3440	0.18	0.04	0.00	0.01	20.84
rs8077688	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	17	33280360	T	A	3440	0.15	0.03	0.00	0.01	21.02
rs140247402	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	17	1235562	T	C	3440	-0.26	0.06	0.00	0.01	20.04
rs9896155	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	17	33794697	G	A	3440	0.17	0.03	0.00	0.01	38.71
rs8113259	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	19	21693075	C	T	3440	-0.24	0.05	0.00	0.01	20.62
rs9978065	CD28- DN (CD4-CD8-) %T cell	ebi-a-GCST90001694	21	15247433	C	T	3440	-0.15	0.03	0.00	0.01	21.00

rs76732756	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	221000197	A	G	3408	187.00	33.11	0.00	0.01	31.88
rs78656354	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	166905650	A	G	3408	263.30	37.24	0.00	0.01	49.96
rs76595423	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	102745011	G	T	3408	147.30	23.48	0.00	0.01	39.33
rs182784388	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	18635367	T	G	3408	328.70	56.20	0.00	0.01	34.19
rs111978771	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	21025910	C	T	3408	123.80	19.64	0.00	0.01	39.71
rs76119911	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	247712613	G	A	3408	166.50	30.94	0.00	0.01	28.94
rs148620542	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	178035728	T	A	3408	358.60	51.64	0.00	0.01	48.19
rs78134440	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	215060336	C	A	3408	160.10	33.79	0.00	0.01	22.44
rs142707561	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	42381260	A	G	3408	84.40	18.01	0.00	0.01	21.95
rs140963286	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	24640467	T	C	3408	760.90	100.50	0.00	0.02	57.29
rs74827547	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	54853809	G	T	3408	128.60	28.74	0.00	0.01	20.01
rs140677128	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	229822729	T	C	3408	180.60	39.33	0.00	0.01	21.07
rs144571871	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	65133062	G	A	3408	725.90	100.60	0.00	0.02	52.04
rs61772921	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	80897562	C	T	3408	644.10	106.00	0.00	0.01	36.90
rs145224093	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	116035874	G	A	3408	174.60	39.25	0.00	0.01	19.78
rs117708200	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	121273212	G	A	3408	284.30	52.50	0.00	0.01	29.31
rs74637079	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	74493410	T	C	3408	210.90	46.90	0.00	0.01	20.21
rs149981836	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	110677725	G	A	3408	58.10	12.79	0.00	0.01	20.62
rs55881385	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	34724192	T	G	3408	721.20	91.57	0.00	0.02	61.99
rs139889394	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	41963906	C	T	3408	378.00	77.39	0.00	0.01	23.84
rs115486816	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	56588047	A	G	3408	127.90	26.15	0.00	0.01	23.91
rs113759128	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	28458334	T	C	3408	75.56	16.06	0.00	0.01	22.12
rs12062472	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	17431300	T	C	3408	172.50	37.71	0.00	0.01	20.91
rs114507999	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	21892266	A	G	3408	176.70	29.35	0.00	0.01	36.22

rs150650566	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	83046200	C	A	3408	530.80	58.46	0.00	0.02	82.39
rs150416566	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	108257502	T	C	3408	38.01	8.03	0.00	0.01	22.41
rs138010330	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	161526187	T	C	3408	111.00	19.70	0.00	0.01	31.73
rs138480948	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	64420637	C	A	3408	259.10	57.74	0.00	0.01	20.12
rs141289216	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	14539144	T	A	3408	88.02	18.79	0.00	0.01	21.93
rs138829583	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	79094990	A	G	3408	463.80	58.31	0.00	0.02	63.23
rs149124296	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	213124992	C	G	3408	307.60	55.58	0.00	0.01	30.61
rs75097808	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	154796811	G	T	3408	114.90	22.64	0.00	0.01	25.74
rs149737122	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	96560455	T	G	3408	342.50	71.90	0.00	0.01	22.68
rs139859886	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	98055569	G	C	3408	167.90	37.24	0.00	0.01	20.32
rs183203096	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	103246274	C	G	3408	344.00	76.55	0.00	0.01	20.18
rs79656514	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	1	235943573	A	G	3408	80.28	17.31	0.00	0.01	21.50
rs72815709	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	80415786	C	T	3408	185.10	26.88	0.00	0.01	47.39
rs150146567	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	12784208	A	T	3408	148.40	29.95	0.00	0.01	24.54
rs72929459	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	200181613	T	C	3408	485.70	72.98	0.00	0.01	44.27
rs80139012	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	6119988	A	G	3408	40.96	8.48	0.00	0.01	23.31
rs138799468	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	9441279	T	C	3408	791.90	98.43	0.00	0.02	64.69
rs112839187	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	238422350	A	G	3408	444.10	76.59	0.00	0.01	33.60
rs115954619	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	174896997	A	G	3408	213.00	36.73	0.00	0.01	33.61
rs114763811	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	191319109	A	C	3408	979.60	163.90	0.00	0.01	35.70
rs79932972	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	142744587	A	C	3408	187.50	39.04	0.00	0.01	23.05
rs144711723	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	145836600	T	C	3408	429.00	74.81	0.00	0.01	32.87
rs185697137	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	147044386	C	T	3408	183.60	36.98	0.00	0.01	24.64
rs74932477	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	229222112	A	G	3408	405.60	61.74	0.00	0.01	43.13

rs151288286	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	106552757	A	T	3408	521.20	71.33	0.00	0.02	53.36
rs58905133	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	38887964	G	A	3408	20.08	2.81	0.00	0.01	50.89
rs147427289	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	40489896	A	G	3408	270.70	56.22	0.00	0.01	23.17
rs148026776	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	155487782	A	C	3408	174.20	36.66	0.00	0.01	22.57
rs11899522	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	54396879	T	C	3408	35.09	6.87	0.00	0.01	26.07
rs138962348	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	146534594	C	T	3408	259.10	45.06	0.00	0.01	33.04
rs17008005	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	29596767	C	G	3408	24.07	5.37	0.00	0.01	20.08
rs147205787	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	144815972	T	C	3408	164.60	36.88	0.00	0.01	19.91
rs75828981	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	144233823	A	G	3408	283.00	46.74	0.00	0.01	36.64
rs77721642	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	154028459	G	A	3408	147.80	30.44	0.00	0.01	23.56
rs137978465	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	228411157	A	G	3408	641.10	67.08	0.00	0.03	91.29
rs112785730	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	127831527	A	G	3408	115.70	24.44	0.00	0.01	22.40
rs192932211	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	10422752	G	A	3408	227.10	47.11	0.00	0.01	23.22
rs12464465	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	176542288	A	G	3408	189.70	34.49	0.00	0.01	30.23
rs77843545	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	237100311	T	C	3408	102.40	21.60	0.00	0.01	22.46
rs72996438	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	2	211172214	C	T	3408	306.90	59.30	0.00	0.01	26.77
rs184901419	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	99971319	A	C	3408	282.40	62.95	0.00	0.01	20.11
rs115445664	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	126486072	G	A	3408	349.40	70.62	0.00	0.01	24.46
rs79397670	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	3816462	T	C	3408	70.05	15.71	0.00	0.01	19.87
rs148242949	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	59179373	T	C	3408	116.50	21.81	0.00	0.01	28.52
rs116779558	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	77069014	G	T	3408	248.40	47.12	0.00	0.01	27.77
rs140517857	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	70804684	A	G	3408	179.10	36.43	0.00	0.01	24.16
rs141023610	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	15790899	A	G	3408	556.40	84.21	0.00	0.01	43.63
rs79489889	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	39505173	A	G	3408	239.70	42.01	0.00	0.01	32.54

rs77577578	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	192050467	A	C	3408	208.00	41.21	0.00	0.01	25.46
rs11716645	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	29402908	G	A	3408	159.70	26.69	0.00	0.01	35.78
rs112545773	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	141081402	A	G	3408	278.70	62.95	0.00	0.01	19.59
rs142115354	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	42897614	T	C	3408	60.86	13.51	0.00	0.01	20.28
rs148658406	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	153311399	T	C	3408	751.40	100.10	0.00	0.02	56.31
rs115945428	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	110093567	A	G	3408	61.26	13.84	0.00	0.01	19.58
rs139772031	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	10035985	G	T	3408	550.90	98.17	0.00	0.01	31.47
rs35268412	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	141999791	C	T	3408	184.50	38.41	0.00	0.01	23.06
rs16864501	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	152385976	A	G	3408	760.50	100.60	0.00	0.02	57.11
rs115879183	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	194347376	G	A	3408	281.90	45.23	0.00	0.01	38.82
rs114057146	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	190504703	T	A	3408	203.60	37.91	0.00	0.01	28.83
rs79665127	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	190758619	C	T	3408	155.80	32.54	0.00	0.01	22.91
rs149994650	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	18550864	A	C	3408	473.40	81.22	0.00	0.01	33.95
rs545794900	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	3	3710729	C	T	3408	137.70	22.45	0.00	0.01	37.60
rs140311178	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	8174723	T	C	3408	142.30	22.50	0.00	0.01	39.98
rs143044126	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	31116547	A	G	3408	98.05	21.43	0.00	0.01	20.92
rs148799115	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	45244488	C	A	3408	55.39	9.96	0.00	0.01	30.92
rs55830085	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	106862213	T	C	3408	548.70	98.80	0.00	0.01	30.82
rs77152285	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	93935039	G	A	3408	285.10	50.77	0.00	0.01	31.52
rs183097749	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	171324708	G	A	3408	284.60	56.25	0.00	0.01	25.58
rs192021609	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	157192771	A	G	3408	186.70	36.52	0.00	0.01	26.12
rs1522563	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	171653752	T	C	3408	173.40	37.29	0.00	0.01	21.61
rs183382760	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	116470715	C	A	3408	#####	130.00	0.00	0.02	59.73
rs115928015	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	156055689	C	G	3408	318.10	62.32	0.00	0.01	26.04

rs114619811	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	71875684	G	A	3408	240.10	50.93	0.00	0.01	22.21
rs117905416	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	48119663	G	C	3408	272.30	60.50	0.00	0.01	20.25
rs192553272	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	114347303	T	C	3408	293.30	48.87	0.00	0.01	36.00
rs35046933	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	57059988	G	A	3408	112.10	23.78	0.00	0.01	22.21
rs72673255	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	126220318	A	G	3408	202.60	39.65	0.00	0.01	26.09
rs62409210	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	25412773	A	G	3408	610.40	106.60	0.00	0.01	32.77
rs116807650	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	112605741	T	C	3408	276.60	51.66	0.00	0.01	28.65
rs76506268	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	187981624	G	A	3408	154.50	22.53	0.00	0.01	47.00
rs114109475	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	47216939	A	G	3408	76.96	15.41	0.00	0.01	24.93
rs139748481	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	13226947	A	G	3408	72.32	16.06	0.00	0.01	20.27
rs79870119	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	64142694	A	G	3408	397.60	71.92	0.00	0.01	30.54
rs112028149	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	60775910	T	C	3408	105.20	21.94	0.00	0.01	22.98
rs142857708	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	133864790	C	T	3408	269.90	57.94	0.00	0.01	21.69
rs111981818	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	2899648	G	A	3408	133.90	24.58	0.00	0.01	29.66
rs59951086	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	187679105	C	A	3408	347.80	56.20	0.00	0.01	38.28
rs138615640	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	46871059	G	A	3408	67.16	14.87	0.00	0.01	20.39
rs28622225	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	4	166260369	A	G	3408	202.20	40.35	0.00	0.01	25.10
rs77953154	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	179723042	T	C	3408	55.15	11.93	0.00	0.01	21.36
rs80036087	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	3678994	T	C	3408	70.99	14.44	0.00	0.01	24.15
rs114935210	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	134766276	G	A	3408	161.00	35.65	0.00	0.01	20.38
rs114216104	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	140131486	T	C	3408	591.00	96.85	0.00	0.01	37.22
rs115546994	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	159062854	T	A	3408	383.20	58.71	0.00	0.01	42.58
rs138324315	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	39721163	A	G	3408	138.50	30.03	0.00	0.01	21.26
rs116581718	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	29413612	C	T	3408	384.30	58.05	0.00	0.01	43.80

rs111731860	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	175121768	T	C	3408	36.01	7.84	0.00	0.01	21.09
rs78604443	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	179476195	A	C	3408	46.66	9.78	0.00	0.01	22.77
rs62369101	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	97959184	A	G	3408	251.60	42.22	0.00	0.01	35.49
rs12656604	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	72679056	A	C	3408	101.80	19.19	0.00	0.01	28.12
rs145266404	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	172300229	C	G	3408	240.00	48.24	0.00	0.01	24.74
rs1604388	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	81759022	T	C	3408	191.20	40.62	0.00	0.01	22.14
rs147014864	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	22132055	T	G	3408	164.90	31.90	0.00	0.01	26.71
rs114128029	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	79070021	T	C	3408	116.90	26.12	0.00	0.01	20.02
rs62383308	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	165460085	A	G	3408	38.64	8.70	0.00	0.01	19.73
rs76343453	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	5	81353920	C	T	3408	224.80	32.07	0.00	0.01	49.11
rs2071556	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	32904601	T	G	3408	-14.59	2.82	0.00	0.01	26.77
rs78939697	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	67374008	C	A	3408	74.28	11.52	0.00	0.01	41.55
rs114801643	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	66316172	A	C	3408	436.00	75.02	0.00	0.01	33.76
rs77777749	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	118275279	G	A	3408	102.90	21.60	0.00	0.01	22.68
rs141926147	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	146863903	C	A	3408	50.22	10.87	0.00	0.01	21.33
rs187115825	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	382181	A	G	3408	389.50	63.70	0.00	0.01	37.37
rs149782409	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	14931262	T	C	3408	314.90	66.75	0.00	0.01	22.24
rs139613266	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	101930392	G	C	3408	242.60	49.52	0.00	0.01	23.99
rs144920942	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	104569120	T	C	3408	151.30	32.96	0.00	0.01	21.06
rs145336406	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	78745175	T	C	3408	148.20	25.16	0.00	0.01	34.68
rs17212021	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	32637474	C	T	3408	-22.92	4.09	0.00	0.01	31.32
rs149957527	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	52375282	A	G	3408	913.10	98.95	0.00	0.02	85.10
rs130071	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	31116210	A	G	3408	22.81	3.56	0.00	0.01	40.96
rs147385696	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	143880059	G	C	3408	326.50	55.73	0.00	0.01	34.30

rs55779481	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	119136518	T	C	3408	111.70	25.03	0.00	0.01	19.90
rs145174666	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	6745192	A	G	3408	52.78	11.43	0.00	0.01	21.31
rs74651043	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	24233134	T	A	3408	419.10	73.98	0.00	0.01	32.07
rs115485721	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	65783601	A	T	3408	69.53	11.54	0.00	0.01	36.28
rs145613913	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	70855865	A	G	3408	281.90	47.31	0.00	0.01	35.48
rs58860560	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	79460848	A	C	3408	404.20	71.96	0.00	0.01	31.53
rs541695620	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	69157587	G	A	3408	29.71	5.91	0.00	0.01	25.24
rs34961721	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	83087501	T	A	3408	268.70	51.04	0.00	0.01	27.70
rs71567655	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	162968515	A	G	3408	211.90	42.67	0.00	0.01	24.65
rs115379408	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	18617129	A	G	3408	450.60	77.86	0.00	0.01	33.47
rs112857714	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	6	148462118	T	C	3408	286.90	45.35	0.00	0.01	40.00
rs143986791	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	62268900	A	G	3408	30.71	6.86	0.00	0.01	20.05
rs142522853	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	1084031	T	C	3408	595.10	71.50	0.00	0.02	69.23
rs185778924	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	148905542	A	G	3408	332.40	56.32	0.00	0.01	34.81
rs145137280	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	147207957	G	A	3408	154.30	30.79	0.00	0.01	25.10
rs140112233	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	115835641	C	G	3408	887.70	146.00	0.00	0.01	36.95
rs138358136	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	194075	T	A	3408	726.80	82.02	0.00	0.02	78.48
rs117469911	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	79791344	A	C	3408	132.80	20.58	0.00	0.01	41.62
rs143845801	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	84434549	C	G	3408	271.20	48.48	0.00	0.01	31.28
rs117845490	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	113248370	C	T	3408	152.10	30.10	0.00	0.01	25.52
rs151261173	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	70763152	A	G	3408	177.30	36.41	0.00	0.01	23.70
rs34592474	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	57279055	C	T	3408	256.70	45.57	0.00	0.01	31.71
rs79647440	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	142438302	T	C	3408	521.40	86.78	0.00	0.01	36.08
rs181551194	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	73339258	T	A	3408	109.80	24.29	0.00	0.01	20.42

rs77307127	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	151528768	T	C	3408	141.30	29.80	0.00	0.01	22.47
rs77164608	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	21673701	A	G	3408	379.60	61.08	0.00	0.01	38.60
rs141112932	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	7	30866360	G	A	3408	198.90	42.02	0.00	0.01	22.39
rs117271894	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	112881674	A	G	3408	192.80	34.06	0.00	0.01	32.02
rs59236867	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	42077996	C	T	3408	178.90	27.52	0.00	0.01	42.23
rs7011687	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	141472683	G	A	3408	93.75	20.68	0.00	0.01	20.54
rs116960471	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	1549975	T	G	3408	447.90	85.71	0.00	0.01	27.29
rs77654966	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	27058930	A	G	3408	26.01	5.86	0.00	0.01	19.70
rs141515499	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	57100983	T	C	3408	197.40	39.30	0.00	0.01	25.21
rs192253149	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	6255718	C	T	3408	48.75	10.58	0.00	0.01	21.22
rs62513410	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	142607179	A	G	3408	75.05	12.99	0.00	0.01	33.36
rs143825022	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	28561116	T	C	3408	251.20	41.16	0.00	0.01	37.22
rs3133836	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	104363338	C	T	3408	24.38	4.99	0.00	0.01	23.82
rs62488802	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	7162695	T	C	3408	591.60	84.77	0.00	0.01	48.68
rs111456999	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	3156062	A	G	3408	56.51	12.39	0.00	0.01	20.79
rs116959045	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	53929771	G	T	3408	172.70	28.26	0.00	0.01	37.32
rs72728362	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	127054086	C	T	3408	375.70	59.27	0.00	0.01	40.16
rs6586916	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	20371089	C	A	3408	#####	20.76	0.00	0.01	24.08
rs118082680	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	21084293	C	T	3408	217.00	42.86	0.00	0.01	25.62
rs535005711	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	8	144233069	A	G	3408	557.60	102.00	0.00	0.01	29.87
rs118024980	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	9	9009338	C	T	3408	50.48	10.85	0.00	0.01	21.63
rs10759064	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	9	9405003	G	A	3408	-13.20	2.60	0.00	0.01	25.84
rs62582217	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	9	134320210	T	C	3408	49.04	9.73	0.00	0.01	25.40
rs34609592	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	9	136915695	A	G	3408	420.00	71.13	0.00	0.01	34.84

rs72743927	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	9	98810796	G	A	3408	154.60	30.45	0.00	0.01	25.76
rs78849864	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	9	134242324	T	C	3408	96.80	19.78	0.00	0.01	23.94
rs75067089	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	9	14983311	T	C	3408	144.20	27.81	0.00	0.01	26.87
rs117196114	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	9	83853182	A	G	3408	201.50	32.14	0.00	0.01	39.28
rs75225279	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	9	25938569	T	G	3408	504.20	95.57	0.00	0.01	27.82
rs113447030	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	9	124865332	A	G	3408	68.16	15.23	0.00	0.01	20.02
rs151120803	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	9	96711406	A	G	3408	402.20	60.78	0.00	0.01	43.76
rs79407975	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	28109090	A	C	3408	389.20	70.79	0.00	0.01	30.21
rs144431284	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	30823850	T	C	3408	204.70	45.46	0.00	0.01	20.26
rs117006645	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	108143796	G	A	3408	308.20	58.42	0.00	0.01	27.82
rs145744161	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	108259029	T	C	3408	32.56	6.52	0.00	0.01	24.95
rs61864030	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	133431823	C	T	3408	284.30	51.52	0.00	0.01	30.43
rs117739788	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	56884368	T	C	3408	268.90	60.64	0.00	0.01	19.65
rs189683893	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	89153882	A	C	3408	138.50	21.65	0.00	0.01	40.90
rs75067680	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	133817829	A	G	3408	160.10	33.15	0.00	0.01	23.31
rs72773345	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	8494842	G	A	3408	302.90	63.85	0.00	0.01	22.49
rs117437702	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	110752679	G	A	3408	46.12	9.80	0.00	0.01	22.14
rs148889514	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	111548575	A	G	3408	118.50	25.62	0.00	0.01	21.38
rs146914701	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	109409332	A	C	3408	61.08	11.67	0.00	0.01	27.38
rs45507192	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	21304171	A	G	3408	416.60	74.65	0.00	0.01	31.13
rs150841550	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	11478633	A	G	3408	244.10	49.16	0.00	0.01	24.64
rs139513469	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	66332109	A	G	3408	295.50	63.49	0.00	0.01	21.65
rs143930177	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	10	70543706	A	G	3408	80.00	15.92	0.00	0.01	25.24
rs150427323	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	118189351	A	G	3408	352.40	49.32	0.00	0.01	51.02

rs528814030	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	117015217	T	C	3408	134.40	26.88	0.00	0.01	24.99
rs117431224	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	44356396	G	A	3408	385.70	68.87	0.00	0.01	31.35
rs11232730	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	81281823	A	C	3408	40.36	7.77	0.00	0.01	26.94
rs117413806	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	16290338	C	T	3408	364.80	66.04	0.00	0.01	30.50
rs12279408	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	84269972	T	C	3408	259.30	51.36	0.00	0.01	25.47
rs186889529	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	59109032	A	T	3408	96.27	21.36	0.00	0.01	20.30
rs141057204	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	130013797	G	A	3408	284.30	60.84	0.00	0.01	21.82
rs117277690	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	33322159	G	A	3408	356.80	65.76	0.00	0.01	29.42
rs111417549	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	36584481	T	C	3408	303.30	53.88	0.00	0.01	31.67
rs141656121	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	91872187	T	A	3408	754.30	103.60	0.00	0.02	52.98
rs185854402	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	116624918	C	T	3408	157.90	34.66	0.00	0.01	20.74
rs77315801	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	132912552	C	G	3408	180.10	33.30	0.00	0.01	29.23
rs17676161	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	11	65259911	C	G	3408	216.70	36.18	0.00	0.01	35.85
rs34499829	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	734001	A	G	3408	308.00	49.26	0.00	0.01	39.07
rs75005340	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	38141078	A	C	3408	189.60	35.71	0.00	0.01	28.17
rs61908026	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	2808166	C	G	3408	370.00	67.38	0.00	0.01	30.14
rs139243374	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	21581956	A	G	3408	221.60	42.71	0.00	0.01	26.90
rs17212998	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	13243168	G	A	3408	101.40	18.30	0.00	0.01	30.68
rs536210128	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	101687266	T	A	3408	133.60	28.54	0.00	0.01	21.90
rs17712916	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	64607264	A	G	3408	122.40	25.83	0.00	0.01	22.44
rs78788969	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	85026832	G	T	3408	17.90	3.43	0.00	0.01	27.25
rs117975109	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	52408142	T	G	3408	308.90	61.24	0.00	0.01	25.43
rs142611712	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	54827947	G	A	3408	165.10	36.13	0.00	0.01	20.87
rs139457426	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	47679643	T	C	3408	71.36	10.98	0.00	0.01	42.21

rs117785622	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	132283582	T	G	3408	232.50	42.11	0.00	0.01	30.47
rs142911819	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	114081812	A	G	3408	320.20	56.32	0.00	0.01	32.30
rs143230107	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	26115369	G	A	3408	115.30	24.76	0.00	0.01	21.67
rs75893788	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	84857033	A	T	3408	341.30	71.93	0.00	0.01	22.50
rs61939536	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	128643151	G	A	3408	379.50	72.60	0.00	0.01	27.31
rs74603821	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	101714936	C	A	3408	591.30	99.63	0.00	0.01	35.20
rs78420941	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	50294296	A	G	3408	165.40	35.54	0.00	0.01	21.65
rs74902462	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	59066617	T	C	3408	123.20	21.68	0.00	0.01	32.27
rs35078472	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	12	127715831	C	A	3408	215.50	46.23	0.00	0.01	21.72
rs113819655	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	13	100586942	T	C	3408	442.70	63.56	0.00	0.01	48.48
rs80142250	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	13	110903174	T	C	3408	128.80	22.13	0.00	0.01	33.85
rs117048727	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	13	44264686	T	C	3408	368.80	66.09	0.00	0.01	31.12
rs142470414	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	13	73498369	T	C	3408	259.60	43.23	0.00	0.01	36.04
rs35779961	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	13	102262527	A	G	3408	229.90	46.65	0.00	0.01	24.27
rs149043871	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	13	102446635	A	G	3408	230.80	48.41	0.00	0.01	22.72
rs80012883	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	13	94341740	T	G	3408	368.80	66.09	0.00	0.01	31.12
rs147398419	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	13	23525796	T	G	3408	51.71	10.96	0.00	0.01	22.25
rs190474871	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	13	25506269	T	C	3408	169.00	36.86	0.00	0.01	21.01
rs145022527	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	13	37118716	T	G	3408	162.10	34.10	0.00	0.01	22.58
rs141018536	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	13	90525482	T	C	3408	30.30	6.82	0.00	0.01	19.74
rs74444952	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	13	36209759	G	C	3408	141.40	31.72	0.00	0.01	19.86
rs75686073	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	68253542	A	G	3408	98.24	21.32	0.00	0.01	21.22
rs12882035	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	43977463	C	T	3408	267.00	58.64	0.00	0.01	20.72
rs111953852	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	84194540	G	A	3408	137.60	24.38	0.00	0.01	31.84

rs190267289	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	29011762	C	G	3408	240.20	52.12	0.00	0.01	21.23
rs140590797	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	62568446	G	A	3408	240.00	52.59	0.00	0.01	20.81
rs77243672	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	76846837	G	T	3408	109.00	15.71	0.00	0.01	48.11
rs116848911	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	79042294	A	G	3408	110.00	22.52	0.00	0.01	23.84
rs61988500	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	86640070	C	T	3408	296.20	50.18	0.00	0.01	34.82
rs150383571	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	43151367	C	T	3408	61.29	11.20	0.00	0.01	29.93
rs117475878	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	32709998	T	C	3408	159.20	29.91	0.00	0.01	28.31
rs116928874	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	22957038	G	C	3408	28.39	6.33	0.00	0.01	20.14
rs554483844	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	88292196	T	C	3408	227.30	47.01	0.00	0.01	23.36
rs17180391	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	72797255	C	G	3408	243.90	47.03	0.00	0.01	26.88
rs11160382	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	14	97572261	T	C	3408	18.54	3.85	0.00	0.01	23.24
rs76881655	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	15	26109688	A	C	3408	92.71	20.44	0.00	0.01	20.56
rs75884646	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	15	95776793	A	G	3408	186.40	27.77	0.00	0.01	45.03
rs79716258	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	15	55067476	C	G	3408	94.76	18.90	0.00	0.01	25.12
rs79888820	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	15	96888705	C	T	3408	514.70	82.05	0.00	0.01	39.33
rs186595909	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	15	78554710	A	G	3408	402.20	71.90	0.00	0.01	31.27
rs146940094	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	15	94946993	T	G	3408	285.30	47.21	0.00	0.01	36.50
rs145483124	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	15	85650544	A	G	3408	267.40	57.73	0.00	0.01	21.44
rs146986354	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	15	29116366	T	C	3408	216.50	40.13	0.00	0.01	29.09
rs112568609	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	15	27818525	T	C	3408	87.63	15.24	0.00	0.01	33.04
rs72739876	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	15	49106401	T	G	3408	465.50	88.90	0.00	0.01	27.40
rs62021713	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	15	50365389	T	C	3408	#####	176.60	0.00	0.01	36.35
rs75477291	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	73579327	A	G	3408	121.80	24.04	0.00	0.01	25.65
rs140134394	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	17341866	C	T	3408	151.80	24.76	0.00	0.01	37.57

rs62033204	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	17388418	A	T	3408	195.70	35.46	0.00	0.01	30.44
rs140605634	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	68607748	T	C	3408	161.70	26.59	0.00	0.01	36.96
rs147802671	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	32022251	T	G	3408	564.50	94.08	0.00	0.01	35.98
rs151052734	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	51075587	A	G	3408	116.20	21.55	0.00	0.01	29.06
rs151237482	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	78214566	C	A	3408	416.30	43.68	0.00	0.03	90.78
rs150856260	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	26527473	T	C	3408	337.20	53.66	0.00	0.01	39.47
rs8056824	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	61800469	C	T	3408	#####	33.85	0.00	0.01	27.60
rs188394601	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	70343845	G	T	3408	654.70	114.10	0.00	0.01	32.90
rs117362948	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	50169595	A	G	3408	262.20	58.71	0.00	0.01	19.93
rs117500319	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	3108127	A	G	3408	230.60	48.53	0.00	0.01	22.57
rs117262195	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	5991815	T	C	3408	270.50	39.98	0.00	0.01	45.75
rs116941636	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	79757046	A	G	3408	210.20	30.10	0.00	0.01	48.74
rs145957749	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	80690635	A	C	3408	116.20	25.75	0.00	0.01	20.35
rs149716976	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	75062625	G	A	3408	118.80	16.87	0.00	0.01	49.56
rs117863142	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	79245986	A	G	3408	117.30	22.14	0.00	0.01	28.05
rs2615702	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	81462243	T	C	3408	#####	42.74	0.00	0.02	86.45
rs192302673	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	16	85685140	T	C	3408	317.40	43.13	0.00	0.02	54.13
rs146127940	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	17	29929827	A	G	3408	145.90	28.52	0.00	0.01	26.16
rs146164275	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	17	76005958	G	A	3408	262.30	44.92	0.00	0.01	34.08
rs140871773	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	17	13877125	G	A	3408	201.60	42.28	0.00	0.01	22.72
rs116876186	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	17	16446446	C	T	3408	647.90	98.90	0.00	0.01	42.89
rs72847598	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	17	71902183	C	T	3408	319.50	53.02	0.00	0.01	36.29
rs1007033	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	17	31695774	T	C	3408	37.39	6.87	0.00	0.01	29.62
rs148362510	AC CD28- CD8br ebi-a-GCST90001695	18	3267975	C	G	3408	363.20	60.02	0.00	0.01	36.60

rs76383831	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	18	74630095	G	A	3408	294.50	59.00	0.00	0.01	24.90
rs151145927	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	18	38375388	A	G	3408	613.80	90.65	0.00	0.01	45.82
rs530410832	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	18	44380586	C	T	3408	136.90	30.24	0.00	0.01	20.48
rs148225159	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	18	56129994	T	C	3408	113.00	23.60	0.00	0.01	22.91
rs578157000	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	18	6304023	C	A	3408	111.40	24.93	0.00	0.01	19.96
rs147706586	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	18	3555698	T	C	3408	81.67	18.28	0.00	0.01	19.95
rs75346347	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	18	7862061	T	C	3408	88.88	15.94	0.00	0.01	31.07
rs139436159	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	18	60608014	G	A	3408	265.70	50.39	0.00	0.01	27.79
rs7238907	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	18	71686718	C	T	3408	257.30	47.25	0.00	0.01	29.64
rs149532201	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	18	26456104	A	G	3408	180.00	33.61	0.00	0.01	28.67
rs75420474	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	18	39828718	C	T	3408	538.90	73.99	0.00	0.02	53.02
rs71354045	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	19	57840862	C	T	3408	135.10	26.31	0.00	0.01	26.35
rs117428784	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	19	43422957	A	C	3408	472.20	70.20	0.00	0.01	45.22
rs116865617	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	19	14535355	C	A	3408	120.10	25.31	0.00	0.01	22.50
rs112362737	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	19	24522507	G	T	3408	278.50	40.80	0.00	0.01	46.57
rs62531041	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	19	48379346	T	C	3408	351.90	58.23	0.00	0.01	36.50
rs191604848	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	19	17591476	T	C	3408	371.30	81.55	0.00	0.01	20.72
rs6027989	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	20	59618023	T	C	3408	11.73	2.65	0.00	0.01	19.64
rs41276984	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	20	37580670	G	C	3408	285.30	39.59	0.00	0.02	51.90
rs77937827	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	20	20799344	C	T	3408	358.80	56.41	0.00	0.01	40.43
rs137942933	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	20	33104122	T	G	3408	304.00	55.65	0.00	0.01	29.82
rs148291061	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	20	3135837	G	C	3408	98.82	20.87	0.00	0.01	22.41
rs56067013	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	20	46616280	T	A	3408	#####	50.73	0.00	0.01	33.70
rs75427771	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	20	59382138	A	C	3408	150.90	27.91	0.00	0.01	29.21

rs117036387	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	20	3521072	G	A	3408	84.27	15.32	0.00	0.01	30.24
rs192717771	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	21	28699078	C	G	3408	166.20	37.14	0.00	0.01	20.01
rs117514047	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	21	26316207	C	A	3408	462.30	82.97	0.00	0.01	31.03
rs140280232	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	21	46387655	T	C	3408	174.40	34.67	0.00	0.01	25.29
rs113432575	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	21	30128360	T	C	3408	345.80	57.03	0.00	0.01	36.74
rs142419740	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	21	47472186	T	C	3408	557.70	103.00	0.00	0.01	29.30
rs78680127	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	21	41099181	A	G	3408	82.00	17.26	0.00	0.01	22.56
rs5997061	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	22	26677514	A	T	3408	52.60	11.15	0.00	0.01	22.24
rs144599349	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	22	45887357	T	C	3408	87.78	18.78	0.00	0.01	21.83
rs143237141	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	22	45176439	A	G	3408	32.04	7.10	0.00	0.01	20.37
rs147132955	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	22	24296877	T	C	3408	573.20	128.40	0.00	0.01	19.92
rs191357081	CD45RA- CD28- CD8br ebi-a-GCST90001695 AC	22	41021471	G	A	3408	263.20	53.88	0.00	0.01	23.85
rs138758802	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br	1	91894308	T	C	3425	16.73	3.78	0.00	0.01	19.58
rs55881385	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br	1	34724192	T	G	3425	55.35	10.46	0.00	0.01	27.98
rs138754438	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br	1	6329089	T	C	3425	14.12	3.16	0.00	0.01	19.93
rs17388638	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br	1	209805394	A	G	3425	20.89	4.34	0.00	0.01	23.19
rs77145525	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br	2	194765458	T	G	3425	17.93	3.81	0.00	0.01	22.18
rs17556536	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br	2	40269291	T	A	3425	3.02	0.65	0.00	0.01	21.46
rs112774387	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br	2	100757118	G	A	3425	20.96	3.95	0.00	0.01	28.15
rs114135956	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br	2	8930530	C	T	3425	53.93	8.72	0.00	0.01	38.22
rs72815709	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br	2	80415786	C	T	3425	18.44	3.07	0.00	0.01	35.99
rs450175	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br	2	38400812	C	A	3425	-1.70	0.31	0.00	0.01	30.77
rs58905133	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br	2	38887964	G	A	3425	3.54	0.32	0.00	0.03	123.69
rs150146567	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br	2	12784208	A	T	3425	15.46	3.42	0.00	0.01	20.40

rs66707192	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	3	186382065	A	G	3425	1.89	0.41	0.00	0.01	20.89
rs113679275	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	3	115470787	C	A	3425	7.29	1.62	0.00	0.01	20.18
rs72978357	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	3	133630044	A	G	3425	19.06	3.98	0.00	0.01	22.91
rs142507918	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	4	188764989	A	G	3425	11.97	2.46	0.00	0.01	23.59
rs116077033	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	5	114060904	T	C	3425	37.63	8.28	0.00	0.01	20.63
rs77953154	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	5	179723042	T	C	3425	6.38	1.36	0.00	0.01	21.90
rs114216104	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	5	140131486	T	C	3425	56.58	11.01	0.00	0.01	26.39
rs76343453	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	5	81353920	C	T	3425	18.50	3.68	0.00	0.01	25.20
rs151336928	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	5	23996586	C	T	3425	7.63	1.66	0.00	0.01	21.08
rs6941748	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	6	45557327	T	C	3425	1.52	0.32	0.00	0.01	22.57
rs145613913	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	6	70855865	A	G	3425	26.75	5.48	0.00	0.01	23.78
rs130071	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	6	31116210	A	G	3425	2.55	0.41	0.00	0.01	37.97
rs17212021	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	6	32637474	C	T	3425	-2.72	0.47	0.00	0.01	32.93
rs1736913	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	6	29704400	C	T	3425	2.10	0.37	0.00	0.01	32.53
rs9468632	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	6	29775939	T	C	3425	-2.74	0.59	0.00	0.01	21.57
rs149600977	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	6	9242018	G	A	3425	19.53	4.15	0.00	0.01	22.16
rs3133835	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	8	104363126	A	G	3425	2.72	0.58	0.00	0.01	21.71
rs149487182	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	8	131518018	T	C	3425	36.99	7.32	0.00	0.01	25.54
rs62488802	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	8	7162695	T	C	3425	47.63	9.62	0.00	0.01	24.50
rs10970967	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	9	3250025	G	T	3425	1.53	0.32	0.00	0.01	23.38
rs12791920	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	11	910259	G	A	3425	-1.51	0.31	0.00	0.01	24.40
rs538264691	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	12	97040021	C	A	3425	38.41	8.18	0.00	0.01	22.05
rs61188057	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	12	59068194	G	C	3425	5.75	1.26	0.00	0.01	20.87
rs142399295	CD28- CD8br ebi-a-GCST90001696 %CD8br	12	38143987	T	A	3425	18.12	4.09	0.00	0.01	19.63

rs66657257	CD45RA- CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	13	93732550	G	T	3425	2.14	0.47	0.00	0.01	20.58
rs742867	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	14	68217724	T	C	3425	14.88	2.69	0.00	0.01	30.54
rs140385926	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	15	69903187	G	A	3425	28.75	5.21	0.00	0.01	30.48
rs149716976	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	16	75062625	G	A	3425	8.66	1.94	0.00	0.01	20.00
rs151237482	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	16	78214566	C	A	3425	26.26	5.05	0.00	0.01	27.05
rs190312656	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	16	81625215	A	G	3425	26.32	4.63	0.00	0.01	32.31
rs150856260	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	16	26527473	T	C	3425	28.31	6.13	0.00	0.01	21.33
rs62033204	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	16	17388418	A	T	3425	19.65	4.05	0.00	0.01	23.54
rs77946649	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	17	67795226	A	G	3425	27.72	5.94	0.00	0.01	21.79
rs148265436	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	17	71407818	T	C	3425	5.12	1.02	0.00	0.01	25.04
rs75420474	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	18	39828718	C	T	3425	44.86	8.44	0.00	0.01	28.22
rs75573571	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	18	72932358	A	T	3425	10.34	2.31	0.00	0.01	20.08
rs55896100	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	19	17509059	T	C	3425	7.80	1.68	0.00	0.01	21.66
rs117252706	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	19	3310194	G	C	3425	4.98	1.08	0.00	0.01	21.39
rs117428784	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	19	43422957	A	C	3425	36.89	8.02	0.00	0.01	21.13
rs77920451	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	20	55040109	G	A	3425	5.13	1.11	0.00	0.01	21.36
rs75427771	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	20	59382138	A	C	3425	14.23	3.20	0.00	0.01	19.80
rs6001335	CD28- CD8br ebi-a-GCST90001696 %CD8br CD45RA-	22	39345966	C	G	3425	-1.81	0.38	0.00	0.01	23.16
rs150650566	CD28- CD8br ebi-a-GCST90001697 %T cell CD45RA-	1	83046200	C	A	3425	13.74	2.74	0.00	0.01	25.22
rs144571871	CD28- CD8br ebi-a-GCST90001697 %T cell CD45RA-	1	65133062	G	A	3425	22.03	4.70	0.00	0.01	21.99
rs142707561	CD28- CD8br ebi-a-GCST90001697 %T cell CD45RA-	1	42381260	A	G	3425	4.38	0.84	0.00	0.01	26.91
rs138754438	CD28- CD8br ebi-a-GCST90001697 %T cell CD45RA-	1	6329089	T	C	3425	6.42	1.29	0.00	0.01	24.72
rs113971555	CD28- CD8br ebi-a-GCST90001697 %T cell CD45RA-	1	2776366	T	C	3425	16.80	3.72	0.00	0.01	20.44
rs55881385	CD28- CD8br ebi-a-GCST90001697 %T cell	1	34724192	T	G	3425	25.81	4.27	0.00	0.01	36.51

rs140434581	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	1	18070672	A	G	3425	4.65	0.97	0.00	0.01	22.86
rs55971473	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	1	117061778	T	C	3425	11.36	1.88	0.00	0.01	36.53
rs138758802	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	1	91894308	T	C	3425	7.80	1.54	0.00	0.01	25.53
rs61772921	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	1	80897562	C	T	3425	31.35	4.91	0.00	0.01	40.74
rs139859886	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	1	98055569	G	C	3425	8.25	1.74	0.00	0.01	22.56
rs115427760	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	1	3815578	T	C	3425	6.03	1.33	0.00	0.01	20.39
rs149124296	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	1	213124992	C	G	3425	13.39	2.61	0.00	0.01	26.22
rs111978771	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	1	21025910	C	T	3425	4.74	0.92	0.00	0.01	26.64
rs142702764	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	1	158276239	T	A	3425	30.28	5.61	0.00	0.01	29.12
rs114691245	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	1	77137266	T	C	3425	11.07	2.33	0.00	0.01	22.62
rs77103383	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	1	81910383	A	G	3425	14.77	3.33	0.00	0.01	19.66
rs114763811	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	191319109	A	C	3425	47.98	7.59	0.00	0.01	39.94
rs17508302	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	3878640	T	C	3425	5.70	1.27	0.00	0.01	20.29
rs58905133	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	38887964	G	A	3425	1.15	0.13	0.00	0.02	77.41
rs28362959	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	75060287	A	G	3425	9.16	2.05	0.00	0.01	19.89
rs115954619	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	174896997	A	G	3425	9.76	1.74	0.00	0.01	31.50
rs79190516	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	151197759	G	T	3425	10.56	1.87	0.00	0.01	32.04
rs12464465	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	176542288	A	G	3425	7.12	1.61	0.00	0.01	19.62
rs137978465	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	228411157	A	G	3425	16.19	3.14	0.00	0.01	26.62
rs74932477	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	229222112	A	G	3425	13.87	2.88	0.00	0.01	23.13
rs79415906	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	194776474	C	A	3425	7.62	1.55	0.00	0.01	24.03
rs11890933	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	177348686	G	A	3425	5.45	1.22	0.00	0.01	20.09
rs144434471	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	153006087	T	C	3425	18.09	3.47	0.00	0.01	27.10
rs151232118	%T cell CD28- CD8br ebi-a-GCST90001697	2	242141013	G	A	3425	11.97	2.53	0.00	0.01	22.41

rs114135956	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	8930530	C	T	3425	32.00	3.54	0.00	0.02	81.62
rs190272290	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	9944052	A	G	3425	24.63	3.67	0.00	0.01	44.94
rs17024974	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	40275338	A	G	3425	1.58	0.34	0.00	0.01	21.57
rs112774387	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	100757118	G	A	3425	7.79	1.62	0.00	0.01	23.25
rs72815709	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	80415786	C	T	3425	6.75	1.26	0.00	0.01	28.82
rs150146567	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	12784208	A	T	3425	8.79	1.39	0.00	0.01	39.74
rs146323263	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	87376401	T	C	3425	6.56	1.38	0.00	0.01	22.56
rs115749134	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	199992008	T	C	3425	6.62	1.47	0.00	0.01	20.16
rs72995054	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	2	239863536	T	C	3425	8.58	1.83	0.00	0.01	21.90
rs149604038	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	3	185463545	G	C	3425	8.46	1.61	0.00	0.01	27.48
rs139772031	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	3	10035985	G	T	3425	21.84	4.52	0.00	0.01	23.37
rs149994650	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	3	18550864	A	C	3425	22.84	3.77	0.00	0.01	36.76
rs116802453	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	4	159714312	G	A	3425	13.13	2.83	0.00	0.01	21.56
rs111981818	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	4	2899648	G	A	3425	6.00	1.15	0.00	0.01	27.22
rs62409210	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	4	25412773	A	G	3425	29.68	4.94	0.00	0.01	36.13
rs183382760	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	4	116470715	C	A	3425	30.79	6.14	0.00	0.01	25.16
rs142507918	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	4	188764989	A	G	3425	4.70	1.01	0.00	0.01	21.74
rs115618542	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	4	70805245	C	T	3425	8.79	1.95	0.00	0.01	20.30
rs115336001	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	4	86157011	A	G	3425	10.52	2.32	0.00	0.01	20.55
rs76506268	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	4	187981624	G	A	3425	6.35	1.05	0.00	0.01	36.66
rs28722483	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	4	171668297	T	C	3425	7.39	1.45	0.00	0.01	26.08
rs114128029	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	79070021	T	C	3425	6.29	1.22	0.00	0.01	26.68
rs75196616	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	116600218	C	T	3425	13.52	2.71	0.00	0.01	24.89
rs12656604	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	72679056	A	C	3425	5.39	0.90	0.00	0.01	36.20

rs115353080	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	82672572	G	C	3425	3.61	0.77	0.00	0.01	22.11
rs115724263	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	139389602	T	G	3425	33.78	6.59	0.00	0.01	26.26
rs115546994	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	159062854	T	A	3425	15.77	2.72	0.00	0.01	33.50
rs76015360	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	28822020	A	G	3425	13.87	2.72	0.00	0.01	26.01
rs151336928	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	23996586	C	T	3425	3.01	0.68	0.00	0.01	19.68
rs6868378	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	179876723	T	C	3425	-3.98	0.78	0.00	0.01	26.30
rs187898623	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	88105461	G	T	3425	4.89	1.05	0.00	0.01	21.54
rs62369101	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	97959184	A	G	3425	9.28	1.98	0.00	0.01	21.97
rs114216104	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	140131486	T	C	3425	30.16	4.49	0.00	0.01	45.17
rs76343453	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	81353920	C	T	3425	10.98	1.50	0.00	0.02	53.62
rs143022760	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	5	110729776	T	C	3425	3.58	0.80	0.00	0.01	20.17
rs563562215	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	6	73393170	C	T	3425	9.73	1.86	0.00	0.01	27.39
rs190399027	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	6	26077482	A	G	3425	13.93	2.88	0.00	0.01	23.35
rs1894743	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	6	31326794	T	A	3425	-0.76	0.16	0.00	0.01	21.57
rs114170505	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	6	32666487	C	T	3425	-1.08	0.20	0.00	0.01	27.98
rs10499012	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	6	97767591	A	G	3425	2.86	0.64	0.00	0.01	20.08
rs7752387	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	6	52903887	A	G	3425	2.05	0.46	0.00	0.01	19.81
rs130071	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	6	31116210	A	G	3425	1.09	0.17	0.00	0.01	41.47
rs145613913	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	6	70855865	A	G	3425	11.66	2.24	0.00	0.01	27.08
rs187115825	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	6	382181	A	G	3425	15.07	2.98	0.00	0.01	25.63
rs116227354	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	6	30102241	G	C	3425	-1.02	0.23	0.00	0.01	19.89
rs76938777	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	7	31473901	A	G	3425	18.92	3.32	0.00	0.01	32.38
rs142647916	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	7	39125654	C	T	3425	16.20	3.14	0.00	0.01	26.69
rs185778924	%T cell CD28- CD8br ebi-a-GCST90001697	7	148905542	A	G	3425	12.24	2.63	0.00	0.01	21.61

rs142522853	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	7	1084031	T	C	3425	17.94	3.35	0.00	0.01	28.66
rs140112233	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	7	115835641	C	G	3425	43.28	6.76	0.00	0.01	40.95
rs138339769	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	7	146509534	T	A	3425	0.89	0.20	0.00	0.01	20.03
rs11561957	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	7	135470972	A	G	3425	10.19	2.09	0.00	0.01	23.67
rs62439313	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	7	20898984	A	G	3425	2.26	0.46	0.00	0.01	24.04
rs2977034	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	8	88503714	T	C	3425	9.25	1.62	0.00	0.01	32.81
rs62488802	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	8	7162695	T	C	3425	29.98	3.91	0.00	0.02	58.73
rs147794754	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	8	130397472	T	C	3425	10.43	2.11	0.00	0.01	24.47
rs149487182	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	8	131518018	T	C	3425	20.95	2.98	0.00	0.01	49.43
rs3133836	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	8	104363338	C	T	3425	1.21	0.23	0.00	0.01	26.79
rs181997131	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	8	81285696	A	T	3425	6.92	1.41	0.00	0.01	24.04
rs117354956	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	8	61304968	T	C	3425	12.60	2.43	0.00	0.01	26.89
rs143825022	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	8	28561116	T	C	3425	9.63	1.92	0.00	0.01	25.11
rs10987410	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	9	129448120	C	T	3425	0.99	0.21	0.00	0.01	23.19
rs111710268	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	9	93695603	A	G	3425	6.68	1.48	0.00	0.01	20.27
rs139422413	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	9	9765228	T	C	3425	4.34	0.93	0.00	0.01	21.58
rs116985924	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	9	2716911	A	C	3425	2.25	0.49	0.00	0.01	20.74
rs146914701	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	10	109409332	A	C	3425	2.78	0.54	0.00	0.01	26.26
rs72773345	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	10	8494842	G	A	3425	15.43	2.99	0.00	0.01	26.70
rs35281771	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	10	71334832	T	C	3425	3.11	0.70	0.00	0.01	19.93
rs182940298	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	10	37524966	T	G	3425	2.80	0.60	0.00	0.01	21.57
rs142980650	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	10	109010961	T	A	3425	5.28	1.03	0.00	0.01	26.45
rs139513469	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	10	66332109	A	G	3425	15.24	2.95	0.00	0.01	26.73
rs117006645	%T cell CD28- CD8br ebi-a-GCST90001697	10	108143796	G	A	3425	16.44	2.72	0.00	0.01	36.54

rs145744161	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	10	108259029	T	C	3425	1.42	0.30	0.00	0.01	21.60
rs143930177	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	10	70543706	A	G	3425	4.44	0.74	0.00	0.01	35.58
rs148384064	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	10	71016160	T	C	3425	3.80	0.81	0.00	0.01	22.20
rs144159369	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	11	126353889	C	G	3425	14.72	2.72	0.00	0.01	29.33
rs141057204	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	11	130013797	G	A	3425	13.88	2.85	0.00	0.01	23.79
rs141656121	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	11	91872187	T	A	3425	22.92	4.83	0.00	0.01	22.49
rs78722454	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	11	60213203	T	A	3425	15.12	2.83	0.00	0.01	28.63
rs12789925	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	11	11865406	T	C	3425	1.13	0.24	0.00	0.01	21.46
rs146319541	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	11	16659699	A	G	3425	10.25	2.17	0.00	0.01	22.40
rs146027781	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	11	54986405	C	T	3425	20.33	3.69	0.00	0.01	30.42
rs75845707	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	11	112719342	C	T	3425	3.20	0.69	0.00	0.01	21.67
rs11233425	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	11	82732689	A	G	3425	23.77	3.62	0.00	0.01	43.09
rs17676161	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	11	65259911	C	G	3425	8.46	1.68	0.00	0.01	25.22
rs139018186	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	11	10046307	T	A	3425	2.93	0.61	0.00	0.01	22.85
rs139457426	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	12	47679643	T	C	3425	2.41	0.51	0.00	0.01	22.01
rs186876963	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	12	34609393	A	G	3425	16.76	3.64	0.00	0.01	21.21
rs61908026	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	12	2808166	C	G	3425	19.12	3.16	0.00	0.01	36.61
rs142368429	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	12	121240098	C	T	3425	15.01	3.39	0.00	0.01	19.58
rs72648003	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	12	110018408	A	G	3425	6.45	1.39	0.00	0.01	21.60
rs117975109	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	12	52408142	T	G	3425	15.84	2.87	0.00	0.01	30.46
rs74902462	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	12	59066617	T	C	3425	4.69	1.02	0.00	0.01	21.33
rs78788969	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	12	85026832	G	T	3425	0.74	0.16	0.00	0.01	21.68
rs75446793	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	12	99748029	C	T	3425	25.30	4.67	0.00	0.01	29.35
rs538264691	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	12	97040021	C	A	3425	20.46	3.33	0.00	0.01	37.66

rs2058467	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	12	5924445	C	T	3425	-10.71	2.24	0.00	0.01	22.85
rs111388649	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	12	28246470	A	G	3425	26.26	4.68	0.00	0.01	31.41
rs66657257	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	13	93732550	G	T	3425	0.86	0.19	0.00	0.01	20.07
rs113819655	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	13	100586942	T	C	3425	14.98	3.00	0.00	0.01	24.87
rs113972785	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	13	85399806	A	T	3425	8.63	1.67	0.00	0.01	26.57
rs75405648	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	13	108798780	T	C	3425	11.33	2.44	0.00	0.01	21.50
rs118053428	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	13	49828243	G	A	3425	9.58	2.16	0.00	0.01	19.68
rs117551202	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	14	45526169	A	G	3425	18.44	3.29	0.00	0.01	31.36
rs35673401	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	14	72914708	T	C	3425	16.93	3.30	0.00	0.01	26.34
rs742867	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	14	68217724	T	C	3425	7.05	1.10	0.00	0.01	41.18
rs117895563	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	14	92658912	T	G	3425	2.79	0.63	0.00	0.01	19.90
rs117475878	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	14	32709998	T	C	3425	6.28	1.40	0.00	0.01	20.13
rs76136072	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	14	22608720	C	T	3425	1.11	0.25	0.00	0.01	20.12
rs140590797	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	14	62568446	G	A	3425	11.92	2.46	0.00	0.01	23.41
rs62010321	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	15	69137961	C	G	3425	9.45	1.90	0.00	0.01	24.62
rs112568609	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	15	27818525	T	C	3425	3.32	0.71	0.00	0.01	21.64
rs147264423	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	15	78644995	G	A	3425	19.07	3.32	0.00	0.01	33.01
rs62021713	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	15	50365389	T	C	3425	52.08	8.18	0.00	0.01	40.53
rs72739876	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	15	49106401	T	G	3425	22.24	4.12	0.00	0.01	29.12
rs74707627	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	15	86484743	C	T	3425	20.97	3.31	0.00	0.01	40.23
rs150285115	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	15	67108460	A	G	3425	14.23	2.74	0.00	0.01	26.94
rs118106010	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	15	88790835	C	T	3425	12.27	2.63	0.00	0.01	21.75
rs77604796	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	15	55083216	G	C	3425	4.23	0.86	0.00	0.01	24.21
rs149716976	%T cell CD28- CD8br ebi-a-GCST90001697	16	75062625	G	A	3425	4.58	0.79	0.00	0.01	33.55

rs151052734	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	16	51075587	A	G	3425	4.86	1.01	0.00	0.01	23.16
rs34375694	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	16	19193363	G	A	3425	18.30	3.19	0.00	0.01	32.93
rs151077900	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	16	1037963	C	G	3425	15.42	2.68	0.00	0.01	33.21
rs117262195	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	16	5991815	T	C	3425	8.95	1.87	0.00	0.01	22.79
rs113573055	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	16	15724919	A	G	3425	1.89	0.40	0.00	0.01	22.86
rs117134167	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	16	25778935	T	C	3425	13.59	2.63	0.00	0.01	26.75
rs192302673	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	16	85685140	T	C	3425	12.63	2.02	0.00	0.01	39.15
rs112018017	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	16	1532257	C	T	3425	8.96	2.00	0.00	0.01	20.10
rs79429801	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	16	61063115	G	C	3425	12.74	2.69	0.00	0.01	22.37
rs118189345	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	16	78415731	A	G	3425	4.36	0.96	0.00	0.01	20.76
rs12597262	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	16	86442575	G	C	3425	29.78	4.67	0.00	0.01	40.68
rs11079080	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	17	51509601	A	C	3425	-0.55	0.12	0.00	0.01	19.75
rs148760558	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	17	72284938	G	A	3425	6.05	1.15	0.00	0.01	27.59
rs116876186	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	17	16446446	C	T	3425	22.19	4.61	0.00	0.01	23.18
rs2354767	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	17	72076433	T	C	3425	2.36	0.53	0.00	0.01	20.06
rs77946649	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	17	67795226	A	G	3425	12.78	2.42	0.00	0.01	27.80
rs71362776	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	18	75601988	T	C	3425	27.16	5.16	0.00	0.01	27.66
rs75573571	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	18	72932358	A	T	3425	4.29	0.94	0.00	0.01	20.73
rs75346347	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	18	7862061	T	C	3425	3.58	0.75	0.00	0.01	22.78
rs149532201	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	18	26456104	A	G	3425	7.23	1.58	0.00	0.01	21.00
rs75420474	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	18	39828718	C	T	3425	28.44	3.43	0.00	0.02	68.75
rs151145927	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	18	38375388	A	G	3425	19.35	4.23	0.00	0.01	20.93
rs75093468	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	19	46851328	A	G	3425	7.14	1.61	0.00	0.01	19.61
rs117428784	%T cell CD28- CD8br ebi-a-GCST90001697	19	43422957	A	C	3425	24.71	3.26	0.00	0.02	57.38

rs191604848	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	19	17591476	T	C	3425	18.46	3.79	0.00	0.01	23.77
rs71363366	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	19	54261549	G	C	3425	5.10	1.10	0.00	0.01	21.69
rs117586879	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	20	17201328	G	T	3425	32.49	6.40	0.00	0.01	25.75
rs146663516	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	20	35238641	T	C	3425	7.39	1.48	0.00	0.01	24.98
rs77920451	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	20	55040109	G	A	3425	2.22	0.45	0.00	0.01	23.87
rs75427771	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	20	59382138	A	C	3425	5.81	1.31	0.00	0.01	19.76
rs79429254	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	21	16733570	T	A	3425	5.85	1.30	0.00	0.01	20.29
rs76797120	CD45RA- CD28- CD8br ebi-a-GCST90001697 %T cell	22	45793576	C	T	3425	3.94	0.85	0.00	0.01	21.36
rs149015425	CD45RA+ CD28- CD8br ebi-a-GCST90001697 %T cell	22	50545634	T	G	3425	4.19	0.89	0.00	0.01	22.26
rs60470888	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	164353833	C	T	3408	111.10	23.73	0.00	0.01	21.91
rs188687630	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	7176852	A	C	3408	90.60	19.08	0.00	0.01	22.53
rs527693920	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	17217922	A	G	3408	210.40	38.51	0.00	0.01	29.83
rs114672498	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	4591565	G	C	3408	267.80	37.95	0.00	0.01	49.77
rs145583539	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	66490103	C	T	3408	465.80	51.16	0.00	0.02	82.85
rs41299575	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	113653257	C	G	3408	617.10	61.82	0.00	0.03	99.59
rs144942838	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	111842326	T	C	3408	210.70	35.78	0.00	0.01	34.66
rs12118378	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	68007080	G	A	3408	144.80	30.72	0.00	0.01	22.20
rs147591823	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	47595103	G	A	3408	301.00	43.50	0.00	0.01	47.85
rs567145695	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	246645088	T	G	3408	312.50	44.32	0.00	0.01	49.69
rs114021246	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	46898789	C	G	3408	585.10	59.78	0.00	0.03	95.74
rs61784602	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	46796909	C	T	3408	360.90	45.09	0.00	0.02	64.03
rs76444609	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	249084997	A	G	3408	#####	127.10	0.00	0.13	518.86
rs75312915	AC CD45RA+ CD28- CD8br ebi-a-GCST90001698	1	2272160	T	C	3408	180.50	34.62	0.00	0.01	27.17
rs11576563	AC CD28- CD8br ebi-a-GCST90001698	1	6118693	T	C	3408	794.20	70.00	0.00	0.04	128.65

rs75255396	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	35892939	C	T	3408	104.80	18.61	0.00	0.01	31.69
rs184269765	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	36511989	T	C	3408	68.03	14.85	0.00	0.01	20.97
rs140963286	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	24640467	T	C	3408	#####	128.30	0.00	0.07	260.91
rs114791501	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	81668305	T	C	3408	139.30	25.24	0.00	0.01	30.44
rs115175419	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	100459655	A	G	3408	342.30	48.30	0.00	0.01	50.20
rs79183860	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	21708196	A	G	3408	713.20	134.10	0.00	0.01	28.27
rs114230155	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	102796337	A	G	3408	324.40	37.63	0.00	0.02	74.27
rs138905087	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	87136899	G	C	3408	90.64	18.38	0.00	0.01	24.30
rs149050426	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	160679804	C	G	3408	648.70	61.14	0.00	0.03	112.51
rs78085370	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	186023973	A	G	3408	317.10	49.08	0.00	0.01	41.72
rs116446467	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	187795006	G	C	3408	621.60	61.60	0.00	0.03	101.77
rs11572436	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	217191870	C	T	3408	158.30	32.60	0.00	0.01	23.57
rs151086171	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	223544915	A	G	3408	731.40	69.14	0.00	0.03	111.84
rs12130486	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	81455274	C	T	3408	76.42	11.29	0.00	0.01	45.79
rs76636736	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	99542806	A	C	3408	106.80	19.44	0.00	0.01	30.16
rs595254	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	12228810	C	G	3408	701.20	76.62	0.00	0.02	83.70
rs78656354	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	166905650	A	G	3408	287.00	50.66	0.00	0.01	32.08
rs72736883	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	218388725	G	A	3408	96.72	20.51	0.00	0.01	22.23
rs111347604	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	85641879	T	A	3408	86.06	17.26	0.00	0.01	24.85
rs114181559	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	234239162	T	C	3408	153.30	28.67	0.00	0.01	28.57
rs554542958	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	234912820	A	G	3408	#####	106.90	0.00	0.04	137.97
rs114507999	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	21892266	A	G	3408	234.60	39.65	0.00	0.01	34.99
rs1508603	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	48031833	T	C	3408	96.48	21.61	0.00	0.01	19.92
rs550385698	AC CD28- CD8br ebi-a-GCST90001698	1	83698544	T	C	3408	90.15	17.28	0.00	0.01	27.20

rs138296471	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	96963270	A	G	3408	69.27	13.49	0.00	0.01	26.35
rs34772471	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	112269677	T	C	3408	270.70	41.43	0.00	0.01	42.67
rs573830319	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	38393439	A	G	3408	51.21	10.50	0.00	0.01	23.77
rs373989598	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	206572177	C	G	3408	734.30	67.86	0.00	0.03	117.02
rs12750174	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	184765000	A	G	3408	166.60	29.17	0.00	0.01	32.60
rs148484526	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	204459946	A	G	3408	262.10	38.78	0.00	0.01	45.65
rs116510159	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	195636177	C	A	3408	297.00	38.79	0.00	0.02	58.59
rs75641434	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	181280885	T	C	3408	605.20	62.86	0.00	0.03	92.64
rs532754584	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	243352763	T	C	3408	118.60	22.12	0.00	0.01	28.73
rs139423647	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	236238830	A	G	3408	381.70	53.18	0.00	0.01	51.49
rs141644068	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	220781210	A	G	3408	636.70	65.61	0.00	0.03	94.12
rs186329934	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	7815185	G	A	3408	77.42	16.15	0.00	0.01	22.97
rs12080172	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	53470377	G	C	3408	36.06	7.29	0.00	0.01	24.44
rs143940797	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	52644883	A	G	3408	43.94	7.99	0.00	0.01	30.25
rs77538429	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	110742985	G	A	3408	264.00	40.50	0.00	0.01	42.47
rs138822361	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	5236853	A	G	3408	200.70	32.70	0.00	0.01	37.65
rs113698814	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	207678128	G	A	3408	189.80	29.08	0.00	0.01	42.57
rs76736944	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	1	180881632	C	T	3408	134.60	22.06	0.00	0.01	37.21
rs142604048	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	87503702	C	A	3408	216.50	35.34	0.00	0.01	37.51
rs184492468	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	73477886	A	G	3408	188.10	41.28	0.00	0.01	20.75
rs138152896	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	40546780	G	A	3408	244.00	36.89	0.00	0.01	43.72
rs146217030	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	41343706	C	T	3408	143.90	26.11	0.00	0.01	30.36
rs77983529	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	51721852	T	A	3408	128.90	27.43	0.00	0.01	22.07
rs141089930	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	178028543	C	T	3408	139.90	28.75	0.00	0.01	23.66

rs3821186	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	172953167	G	C	3408	271.60	45.23	0.00	0.01	36.04
rs111409203	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	19743796	G	C	3408	156.40	29.26	0.00	0.01	28.55
rs148947489	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	10326418	T	C	3408	257.40	36.09	0.00	0.01	50.84
rs79027575	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	146371302	C	T	3408	331.80	38.87	0.00	0.02	72.82
rs180716798	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	150956800	C	A	3408	282.90	37.84	0.00	0.02	55.86
rs141812086	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	204682687	G	A	3408	138.40	29.65	0.00	0.01	21.78
rs112785730	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	127831527	A	G	3408	206.80	32.42	0.00	0.01	40.66
rs192583129	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	129405810	G	C	3408	505.90	59.97	0.00	0.02	71.12
rs183895386	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	22576943	T	C	3408	230.60	33.78	0.00	0.01	46.57
rs149983528	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	61772377	C	T	3408	#####	184.80	0.00	0.01	29.62
rs190665193	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	106438361	G	A	3408	#####	93.65	0.00	0.08	284.83
rs35948774	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	118664032	A	G	3408	158.90	28.76	0.00	0.01	30.51
rs377446032	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	97762985	G	T	3408	419.80	54.08	0.00	0.02	60.22
rs7597139	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	107560107	A	G	3408	-87.22	15.38	0.00	0.01	32.14
rs115640110	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	181840	T	G	3408	127.20	27.45	0.00	0.01	21.46
rs1508064	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	72979172	T	C	3408	163.30	20.92	0.00	0.02	60.90
rs192562105	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	53036426	A	G	3408	133.60	27.52	0.00	0.01	23.55
rs140702253	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	194544900	G	T	3408	165.90	34.19	0.00	0.01	23.53
rs72931475	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	159316835	G	A	3408	#####	98.17	0.00	0.03	104.33
rs79038988	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	210192689	C	T	3408	221.70	49.64	0.00	0.01	19.93
rs79391745	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	83381537	A	T	3408	62.04	11.45	0.00	0.01	29.34
rs570386304	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	233831336	T	C	3408	194.00	37.12	0.00	0.01	27.30
rs77317999	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	52025038	A	T	3408	175.70	32.77	0.00	0.01	28.73
rs116034906	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	118737657	T	C	3408	737.20	135.80	0.00	0.01	29.45

rs188021268	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	67789879	T	A	3408	749.70	84.69	0.00	0.02	78.32
rs567695407	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	107911125	T	G	3408	181.60	22.52	0.00	0.02	64.99
rs72836484	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	84999809	G	A	3408	132.30	29.04	0.00	0.01	20.74
rs188292706	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	162960872	T	C	3408	413.30	62.46	0.00	0.01	43.76
rs75561723	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	199542954	T	C	3408	353.00	46.68	0.00	0.02	57.15
rs13010105	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	42107980	G	A	3408	98.72	17.57	0.00	0.01	31.55
rs548679517	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	17719245	C	A	3408	366.00	46.88	0.00	0.02	60.92
rs139404430	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	7430709	T	C	3408	141.40	26.91	0.00	0.01	27.59
rs12616335	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	159969605	T	C	3408	330.20	60.13	0.00	0.01	30.14
rs140929582	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	169297185	T	C	3408	210.60	33.76	0.00	0.01	38.89
rs113513225	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	192441892	A	G	3408	100.50	20.04	0.00	0.01	25.14
rs62175716	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	152777402	C	T	3408	67.88	13.44	0.00	0.01	25.49
rs76568972	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	1592272	T	C	3408	203.00	35.70	0.00	0.01	32.31
rs138567976	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	8152821	A	G	3408	155.10	28.13	0.00	0.01	30.38
rs113206087	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	21048037	T	G	3408	80.23	16.20	0.00	0.01	24.51
rs74620549	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	36162712	T	A	3408	363.60	48.88	0.00	0.02	55.30
rs76316808	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	123361495	T	A	3408	56.57	11.97	0.00	0.01	22.32
rs116039349	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	132603936	T	G	3408	173.70	33.85	0.00	0.01	26.32
rs184350274	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	228724105	C	T	3408	207.30	38.94	0.00	0.01	28.32
rs149131245	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	234725994	C	G	3408	332.20	53.59	0.00	0.01	38.40
rs78530932	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	81191156	A	T	3408	76.74	12.02	0.00	0.01	40.74
rs138367877	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	64757961	T	C	3408	55.61	12.37	0.00	0.01	20.20
rs74499833	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	77077801	T	C	3408	117.20	21.64	0.00	0.01	29.31
rs11885897	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	225204126	A	G	3408	124.00	27.54	0.00	0.01	20.26

rs116086373	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	223278095	A	G	3408	132.50	28.42	0.00	0.01	21.72
rs74932477	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	229222112	A	G	3408	658.40	82.54	0.00	0.02	63.59
rs113883934	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	104720870	C	A	3408	157.80	30.21	0.00	0.01	27.27
rs4853078	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	75148081	G	T	3408	353.70	39.81	0.00	0.02	78.89
rs77678807	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	208755904	C	G	3408	320.50	56.26	0.00	0.01	32.43
rs115517310	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	170436614	C	T	3408	177.50	30.90	0.00	0.01	32.98
rs140173523	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	195788562	A	C	3408	199.40	34.68	0.00	0.01	33.04
rs72996438	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	211172214	C	T	3408	568.90	78.84	0.00	0.02	52.04
rs72908728	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	174516215	C	T	3408	100.70	21.16	0.00	0.01	22.63
rs115945729	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	199934892	A	G	3408	896.20	97.49	0.00	0.02	84.46
rs75903460	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	162758257	C	T	3408	103.40	22.87	0.00	0.01	20.43
rs144528321	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	156270948	T	C	3408	73.79	16.23	0.00	0.01	20.66
rs149876155	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	24167677	C	T	3408	562.40	67.24	0.00	0.02	69.92
rs140778797	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	130811172	T	G	3408	461.60	100.60	0.00	0.01	21.04
rs115027982	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	120693004	C	G	3408	135.80	27.93	0.00	0.01	23.63
rs7426047	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	107184424	T	C	3408	166.40	27.44	0.00	0.01	36.75
rs112137766	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	41540149	C	T	3408	292.30	40.49	0.00	0.02	52.08
rs77156603	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	104590904	A	C	3408	278.80	42.64	0.00	0.01	42.73
rs151250363	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	240644273	T	C	3408	320.10	47.71	0.00	0.01	44.99
rs35811413	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	2	90262802	A	G	3408	125.60	28.14	0.00	0.01	19.91
rs147774047	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	23633832	C	G	3408	160.00	29.14	0.00	0.01	30.13
rs7613821	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	105611213	G	A	3408	#####	48.86	0.00	0.01	34.65
rs62272737	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	152065838	T	A	3408	225.40	39.21	0.00	0.01	33.03
rs16864501	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	152385976	A	G	3408	#####	128.50	0.00	0.07	260.10

rs75660425	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	129232254	A	G	3408	632.90	75.09	0.00	0.02	71.00
rs189065333	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	170926536	G	A	3408	225.90	42.94	0.00	0.01	27.66
rs112057764	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	176439376	A	C	3408	48.23	9.70	0.00	0.01	24.73
rs146756366	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	76660068	T	C	3408	313.50	41.76	0.00	0.02	56.32
rs184789822	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	180444592	C	T	3408	139.10	30.10	0.00	0.01	21.34
rs115660429	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	195531004	A	C	3408	207.90	36.33	0.00	0.01	32.73
rs116719160	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	130201546	T	G	3408	420.00	62.49	0.00	0.01	45.15
rs11921864	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	140104765	T	C	3408	35.49	7.68	0.00	0.01	21.34
rs79418578	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	141886501	A	C	3408	961.30	93.43	0.00	0.03	105.80
rs78741146	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	182409985	C	T	3408	212.50	36.29	0.00	0.01	34.27
rs138401052	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	166256176	A	G	3408	139.50	25.13	0.00	0.01	30.80
rs75551427	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	168644376	G	A	3408	358.80	54.73	0.00	0.01	42.95
rs115052567	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	169651872	A	G	3408	179.70	36.10	0.00	0.01	24.76
rs148658406	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	153311399	T	C	3408	#####	127.90	0.00	0.07	256.00
rs75968195	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	157462992	C	G	3408	89.63	19.49	0.00	0.01	21.14
rs116521668	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	43905713	A	T	3408	80.23	17.28	0.00	0.01	21.54
rs139791317	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	146662353	T	G	3408	140.00	31.59	0.00	0.01	19.63
rs116349768	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	84476620	G	A	3408	169.70	32.81	0.00	0.01	26.74
rs140527299	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	63604132	A	T	3408	142.60	31.72	0.00	0.01	20.20
rs115821332	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	115341107	G	A	3408	759.40	70.06	0.00	0.03	117.42
rs185034429	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	90216749	A	C	3408	548.10	67.17	0.00	0.02	66.54
rs55787444	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	185766414	T	C	3408	212.60	36.32	0.00	0.01	34.24
rs78193714	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	186195530	A	T	3408	246.70	37.50	0.00	0.01	43.25
rs111777292	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	192716368	T	C	3408	126.70	26.42	0.00	0.01	22.98

rs62247421	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	64390467	A	G	3408	255.10	29.73	0.00	0.02	73.58
rs115212782	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	74527776	T	C	3408	274.80	40.08	0.00	0.01	46.98
rs77521823	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	130074113	T	A	3408	221.00	34.90	0.00	0.01	40.08
rs116589647	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	122070556	T	G	3408	212.90	34.36	0.00	0.01	38.37
rs75816947	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	3753451	A	G	3408	184.30	40.11	0.00	0.01	21.10
rs111902471	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	14459099	G	A	3408	237.60	38.71	0.00	0.01	37.65
rs115040341	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	64543612	T	C	3408	160.10	23.53	0.00	0.01	46.27
rs17878699	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	3132754	A	G	3408	235.60	38.25	0.00	0.01	37.92
rs111745963	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	67860216	C	T	3408	196.50	29.94	0.00	0.01	43.05
rs115879183	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	194347376	G	A	3408	571.90	61.21	0.00	0.02	87.24
rs138871895	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	162179186	C	T	3408	570.90	70.25	0.00	0.02	66.00
rs78313301	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	11075184	T	C	3408	225.90	40.82	0.00	0.01	30.61
rs187990734	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	144835290	G	A	3408	428.30	59.76	0.00	0.01	51.34
rs184977394	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	81799701	C	T	3408	156.30	23.78	0.00	0.01	43.18
rs146900894	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	94221769	A	G	3408	115.60	25.99	0.00	0.01	19.77
rs185587352	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	117384981	A	G	3408	887.30	70.63	0.00	0.04	157.73
rs150027262	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	72800530	G	C	3408	169.80	31.47	0.00	0.01	29.10
rs115135290	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	3	105859785	A	G	3408	623.60	88.02	0.00	0.01	50.16
rs142609156	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	11158267	T	C	3408	41.07	8.01	0.00	0.01	26.26
rs13104493	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	32690871	G	A	3408	84.59	13.57	0.00	0.01	38.84
rs17476188	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	165111111	T	C	3408	101.30	20.12	0.00	0.01	25.33
rs116399750	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	176754667	A	G	3408	889.90	73.93	0.00	0.04	144.81
rs77814979	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	131041099	C	A	3408	338.90	40.47	0.00	0.02	70.08
rs72660861	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	85158464	A	G	3408	166.20	33.27	0.00	0.01	24.94

rs183356919	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	9678634	C	T	3408	261.10	52.46	0.00	0.01	24.76
rs7663813	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	57611830	A	G	3408	155.70	28.74	0.00	0.01	29.33
rs116536232	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	67329531	G	A	3408	118.70	22.96	0.00	0.01	26.71
rs139819048	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	67760555	C	T	3408	143.30	26.23	0.00	0.01	29.83
rs114619811	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	71875684	G	A	3408	725.80	66.51	0.00	0.03	119.02
rs113555953	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	97898706	A	C	3408	76.89	15.60	0.00	0.01	24.28
rs80331575	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	109566866	T	C	3408	168.60	26.99	0.00	0.01	39.00
rs187204486	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	116900766	A	G	3408	165.20	33.03	0.00	0.01	25.00
rs138943622	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	114293931	A	G	3408	257.50	44.78	0.00	0.01	33.05
rs191331192	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	160795044	T	C	3408	106.60	21.82	0.00	0.01	23.85
rs147026949	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	100588891	T	C	3408	181.20	33.13	0.00	0.01	29.90
rs114559319	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	85213802	A	T	3408	720.80	85.31	0.00	0.02	71.35
rs79395509	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	176348299	T	C	3408	#####	97.29	0.00	0.07	264.92
rs79888370	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	180201786	T	G	3408	47.59	8.69	0.00	0.01	29.97
rs114421150	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	16986930	A	C	3408	915.90	94.17	0.00	0.03	94.54
rs138954494	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	32184694	C	T	3408	836.10	73.46	0.00	0.04	129.47
rs74718830	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	35542069	G	A	3408	510.50	107.20	0.00	0.01	22.66
rs75993384	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	55305871	C	T	3408	537.00	109.70	0.00	0.01	23.95
rs62321187	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	120605817	T	C	3408	#####	129.60	0.00	0.05	183.69
rs182176493	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	83484083	T	C	3408	184.80	39.46	0.00	0.01	21.92
rs76679968	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	129754843	T	C	3408	634.90	80.90	0.00	0.02	61.55
rs140367496	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	131786765	C	T	3408	460.10	50.43	0.00	0.02	83.19
rs115307086	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	131409763	C	T	3408	158.90	30.26	0.00	0.01	27.56
rs115677012	AC CD28- CD8br ebi-a-GCST90001698	4	167555345	T	C	3408	315.70	41.99	0.00	0.02	56.49

rs77689186	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	176614955	A	C	3408	326.10	38.46	0.00	0.02	71.85
rs12499962	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	99029457	G	A	3408	#####	72.17	0.00	0.07	244.58
rs146374482	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	85578601	A	G	3408	#####	84.75	0.00	0.05	188.85
rs149844272	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	87144762	A	G	3408	240.60	38.16	0.00	0.01	39.73
rs114685875	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	138349095	A	G	3408	662.40	82.11	0.00	0.02	65.04
rs77434296	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	22140311	A	G	3408	438.90	52.07	0.00	0.02	71.01
rs191607214	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	123414413	A	C	3408	580.30	60.69	0.00	0.03	91.37
rs28622225	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	166260369	A	G	3408	312.30	54.42	0.00	0.01	32.91
rs12501785	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	180565400	A	G	3408	620.50	43.09	0.00	0.06	207.24
rs76763980	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	151589256	C	T	3408	259.20	48.24	0.00	0.01	28.85
rs116498781	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	183314518	A	G	3408	268.30	44.19	0.00	0.01	36.84
rs148590919	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	187560601	A	G	3408	262.70	44.60	0.00	0.01	34.67
rs72723889	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	146773005	C	T	3408	381.20	58.11	0.00	0.01	43.01
rs76825401	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	84334746	T	C	3408	156.90	34.64	0.00	0.01	20.50
rs77146551	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	108096534	G	A	3408	475.90	53.26	0.00	0.02	79.79
rs541823325	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	49518806	T	C	3408	114.00	19.49	0.00	0.01	34.19
rs55975566	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	4	3836469	T	C	3408	98.13	20.57	0.00	0.01	22.74
rs537461274	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	119939807	A	T	3408	164.50	33.86	0.00	0.01	23.59
rs79725470	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	94705605	C	T	3408	#####	84.15	0.00	0.05	176.09
rs148816938	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	71107850	G	A	3408	438.90	64.07	0.00	0.01	46.90
rs58243030	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	180495180	G	A	3408	160.90	28.33	0.00	0.01	32.24
rs528672922	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	79202265	T	C	3408	51.61	9.93	0.00	0.01	27.00
rs78676406	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	118494935	T	C	3408	102.20	22.59	0.00	0.01	20.46
rs146314225	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	141469416	C	A	3408	225.40	40.79	0.00	0.01	30.52

rs3822406	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	180054853	T	A	3408	154.40	21.25	0.00	0.02	52.76
rs113960013	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	178662302	G	T	3408	46.84	9.53	0.00	0.01	24.12
rs112357188	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	16118218	A	G	3408	119.60	24.42	0.00	0.01	23.97
rs149898247	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	129034231	G	A	3408	193.90	36.98	0.00	0.01	27.48
rs142922198	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	145713781	C	A	3408	127.10	21.37	0.00	0.01	35.35
rs13360609	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	180502672	A	T	3408	93.82	16.39	0.00	0.01	32.75
rs189369117	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	142967016	T	C	3408	358.20	46.47	0.00	0.02	59.38
rs17642570	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	148699825	C	T	3408	150.20	18.37	0.00	0.02	66.81
rs79194156	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	145551085	A	G	3408	78.03	16.23	0.00	0.01	23.10
rs144613377	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	81311763	C	T	3408	159.50	18.29	0.00	0.02	76.00
rs180927720	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	11287269	G	A	3408	320.10	60.03	0.00	0.01	28.42
rs185483934	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	16704585	A	C	3408	112.60	23.01	0.00	0.01	23.93
rs192556004	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	135639453	A	G	3408	189.60	29.36	0.00	0.01	41.68
rs189412340	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	75564943	T	C	3408	988.10	79.27	0.00	0.04	155.28
rs138800755	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	77962505	C	T	3408	99.32	19.64	0.00	0.01	25.56
rs113884990	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	96997109	T	A	3408	93.66	19.78	0.00	0.01	22.41
rs139800400	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	134343662	A	G	3408	200.60	42.25	0.00	0.01	22.53
rs116581718	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	29413612	C	T	3408	#####	78.94	0.00	0.05	162.31
rs114871166	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	24165437	G	T	3408	239.10	39.88	0.00	0.01	35.92
rs114425563	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	176911575	T	C	3408	172.30	28.61	0.00	0.01	36.25
rs148939501	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	12480500	G	A	3408	266.70	46.83	0.00	0.01	32.41
rs76726998	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	93889241	A	G	3408	127.50	26.48	0.00	0.01	23.17
rs62337106	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	1957403	G	T	3408	235.60	37.00	0.00	0.01	40.52
rs144585837	AC CD28- CD8br ebi-a-GCST90001698	5	120363630	G	A	3408	81.64	17.53	0.00	0.01	21.68

rs8177454	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	150408639	C	G	3408	268.30	44.14	0.00	0.01	36.93
rs146135726	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	154015729	T	C	3408	235.30	42.70	0.00	0.01	30.35
rs148291161	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	168556910	G	A	3408	299.70	64.16	0.00	0.01	21.81
rs77587134	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	3635021	A	G	3408	308.90	44.43	0.00	0.01	48.31
rs75760272	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	10850589	A	G	3408	348.10	45.47	0.00	0.02	58.57
rs115755474	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	168914162	T	C	3408	771.60	91.49	0.00	0.02	71.09
rs62406757	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	180423556	C	G	3408	79.55	15.69	0.00	0.01	25.69
rs114245333	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	112619226	C	G	3408	84.68	17.28	0.00	0.01	24.00
rs112973846	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	5	128365521	G	A	3408	386.60	51.06	0.00	0.02	57.29
rs150287087	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	125051261	C	G	3408	487.30	54.77	0.00	0.02	79.11
rs141389929	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	142716026	T	C	3408	111.90	22.59	0.00	0.01	24.52
rs60537788	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	897475	G	A	3408	62.07	12.95	0.00	0.01	22.96
rs62388146	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	7624482	C	T	3408	73.14	16.19	0.00	0.01	20.40
rs149801155	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	162457335	G	A	3408	203.90	36.54	0.00	0.01	31.12
rs138327786	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	1730982	A	G	3408	#####	88.96	0.00	0.06	208.53
rs117822024	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	86346609	C	T	3408	141.00	20.20	0.00	0.01	48.69
rs149136965	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	30958409	C	G	3408	203.10	36.33	0.00	0.01	31.23
rs73412501	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	39011539	T	A	3408	85.58	16.08	0.00	0.01	28.31
rs9479093	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	151992984	G	A	3408	193.70	32.62	0.00	0.01	35.24
rs140087548	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	168136303	T	C	3408	176.30	27.54	0.00	0.01	40.96
rs73780868	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	152137377	C	T	3408	218.40	33.18	0.00	0.01	43.30
rs116431337	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	66416572	C	T	3408	159.20	28.32	0.00	0.01	31.58
rs6916896	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	5734886	T	C	3408	466.10	53.08	0.00	0.02	77.06
rs180745907	AC CD28- CD8br ebi-a-GCST90001698	6	20965785	C	A	3408	301.90	44.92	0.00	0.01	45.14

rs145336406	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	78745175	T	C	3408	186.10	33.82	0.00	0.01	30.26
rs79594290	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	32066320	T	C	3408	80.73	17.70	0.00	0.01	20.79
rs78275221	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	90900544	A	G	3408	101.40	17.52	0.00	0.01	33.48
rs62424171	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	118769058	A	G	3408	263.00	43.72	0.00	0.01	36.17
rs114599999	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	52376254	A	T	3408	126.00	27.82	0.00	0.01	20.50
rs2496150	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	13374132	G	A	3408	#####	50.03	0.00	0.02	60.17
rs117185099	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	119514715	T	C	3408	208.30	32.03	0.00	0.01	42.27
rs10155782	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	37156467	C	T	3408	87.03	16.56	0.00	0.01	27.60
rs75424381	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	11805124	T	A	3408	121.10	19.05	0.00	0.01	40.39
rs111867376	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	159962229	A	G	3408	206.90	34.55	0.00	0.01	35.84
rs149208831	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	10017676	C	A	3408	#####	93.44	0.00	0.07	239.01
rs145604620	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	11491250	G	A	3408	#####	108.90	0.00	0.09	335.07
rs75510626	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	64401131	C	T	3408	239.60	36.44	0.00	0.01	43.21
rs62397109	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	53785189	C	T	3408	171.20	33.14	0.00	0.01	26.67
rs79681496	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	46004728	G	A	3408	116.40	24.23	0.00	0.01	23.06
rs140414198	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	151971790	A	G	3408	54.47	12.15	0.00	0.01	20.09
rs149828559	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	84898123	T	C	3408	339.60	33.81	0.00	0.03	100.83
rs117248086	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	119632972	T	C	3408	378.10	57.27	0.00	0.01	43.56
rs75146109	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	138346038	A	C	3408	38.50	7.60	0.00	0.01	25.63
rs79518488	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	28389143	C	T	3408	857.20	107.00	0.00	0.02	64.14
rs35756014	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	106606287	T	C	3408	297.50	55.33	0.00	0.01	28.89
rs12332976	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	40616989	A	G	3408	169.60	23.32	0.00	0.02	52.86
rs12192395	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	70784408	G	A	3408	82.52	17.15	0.00	0.01	23.14
rs144234028	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	53258504	G	A	3408	48.29	10.67	0.00	0.01	20.47

rs192397067	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	81984275	T	C	3408	436.50	60.77	0.00	0.01	51.56
rs9386578	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	107128051	A	G	3408	31.02	6.78	0.00	0.01	20.90
rs112880431	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	130091902	A	G	3408	312.70	46.04	0.00	0.01	46.10
rs142978760	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	6047112	A	G	3408	80.70	15.86	0.00	0.01	25.88
rs189131343	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	167014418	T	C	3408	175.40	31.44	0.00	0.01	31.11
rs9471016	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	6	39196392	T	C	3408	85.79	14.27	0.00	0.01	36.12
rs80018878	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	46985321	T	C	3408	774.80	85.45	0.00	0.02	82.17
rs143845801	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	84434549	C	G	3408	767.70	64.23	0.00	0.04	142.78
rs137997289	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	115706613	C	T	3408	219.90	33.80	0.00	0.01	42.30
rs149355173	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	91861162	G	A	3408	119.80	24.82	0.00	0.01	23.28
rs74405982	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	103435268	T	A	3408	145.30	29.57	0.00	0.01	24.13
rs75300104	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	143729951	C	T	3408	164.90	33.88	0.00	0.01	23.68
rs191669640	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	154881197	T	C	3408	118.70	25.35	0.00	0.01	21.91
rs77465871	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	47504039	G	A	3408	413.60	45.50	0.00	0.02	82.58
rs115550848	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	157555802	A	G	3408	107.80	23.39	0.00	0.01	21.23
rs17501774	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	81422404	G	A	3408	76.16	14.08	0.00	0.01	29.24
rs117944233	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	137569181	T	C	3408	131.30	29.09	0.00	0.01	20.36
rs146204142	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	112317649	A	C	3408	131.30	26.82	0.00	0.01	23.95
rs142537480	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	52813883	C	T	3408	92.68	20.57	0.00	0.01	20.29
rs35730839	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	109248384	T	C	3408	475.00	55.24	0.00	0.02	73.90
rs80305889	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	34681601	G	T	3408	404.70	62.22	0.00	0.01	42.28
rs117433099	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	6934892	A	G	3408	264.90	39.21	0.00	0.01	45.62
rs147681963	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	37590076	T	C	3408	114.20	18.22	0.00	0.01	39.26
rs10276305	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	7885705	A	G	3408	85.37	17.66	0.00	0.01	23.35

rs77646481	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	113821794	C	T	3408	50.52	10.46	0.00	0.01	23.31
rs180795781	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	46290614	A	G	3408	272.30	56.05	0.00	0.01	23.59
rs142302016	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	54517004	A	G	3408	139.50	30.32	0.00	0.01	21.16
rs554574739	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	101754392	C	T	3408	228.20	34.47	0.00	0.01	43.80
rs117469911	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	79791344	A	C	3408	272.50	27.65	0.00	0.03	97.07
rs73116391	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	46417626	G	T	3408	204.60	27.04	0.00	0.02	57.22
rs118044214	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	147886758	A	G	3408	137.50	26.75	0.00	0.01	26.41
rs115221944	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	56724250	G	T	3408	192.20	28.52	0.00	0.01	45.39
rs545493508	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	78599311	T	A	3408	243.90	46.83	0.00	0.01	27.11
rs74842782	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	131413341	G	T	3408	184.90	31.03	0.00	0.01	35.49
rs78470553	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	158334355	A	G	3408	132.50	17.32	0.00	0.02	58.49
rs184401135	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	83368658	T	C	3408	181.10	30.90	0.00	0.01	34.33
rs146975368	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	5907599	A	G	3408	118.50	26.43	0.00	0.01	20.09
rs145057921	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	6231210	T	G	3408	155.00	33.08	0.00	0.01	21.94
rs186251573	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	13558580	C	A	3408	750.90	68.52	0.00	0.03	120.03
rs138449036	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	29025284	T	C	3408	419.30	64.95	0.00	0.01	41.65
rs79647440	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	142438302	T	C	3408	#####	113.70	0.00	0.05	191.53
rs559989071	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	141814031	G	A	3408	51.30	10.14	0.00	0.01	25.58
rs35706199	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	131191874	T	C	3408	336.70	53.43	0.00	0.01	39.69
rs118124593	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	134350922	A	G	3408	146.70	28.68	0.00	0.01	26.15
rs150400236	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	136855654	T	C	3408	299.60	41.15	0.00	0.02	52.98
rs28914837	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	7759826	T	A	3408	35.50	7.26	0.00	0.01	23.90
rs117079032	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	69510130	C	T	3408	163.20	23.63	0.00	0.01	47.67
rs185754925	AC CD28- CD8br ebi-a-GCST90001698	7	62917010	G	A	3408	300.60	36.78	0.00	0.02	66.76

rs144872818	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	49894195	T	G	3408	82.59	18.51	0.00	0.01	19.90
rs111399817	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	146550168	T	G	3408	303.00	43.46	0.00	0.01	48.58
rs113677798	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	78657809	G	A	3408	85.98	16.13	0.00	0.01	28.40
rs149168806	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	78834873	T	C	3408	76.79	16.56	0.00	0.01	21.49
rs73206236	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	113679246	A	G	3408	130.70	17.31	0.00	0.02	56.98
rs116921833	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	7	153895185	T	C	3408	126.20	21.64	0.00	0.01	33.99
rs142111513	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	23682802	C	G	3408	168.80	25.40	0.00	0.01	44.14
rs8178689	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	42060072	G	A	3408	301.10	42.76	0.00	0.01	49.56
rs117339150	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	52563134	A	G	3408	167.30	35.13	0.00	0.01	22.67
rs77370289	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	57917248	C	T	3408	404.40	62.01	0.00	0.01	42.51
rs186888992	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	81419619	A	G	3408	108.20	24.02	0.00	0.01	20.28
rs34039708	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	12500832	A	C	3408	395.70	44.12	0.00	0.02	80.39
rs72727978	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	134999971	G	A	3408	162.50	32.77	0.00	0.01	24.58
rs113122796	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	142876352	G	C	3408	403.50	51.12	0.00	0.02	62.27
rs181660070	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	117040660	T	C	3408	137.00	20.15	0.00	0.01	46.20
rs117389556	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	61340602	G	A	3408	142.70	29.75	0.00	0.01	22.99
rs117609491	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	106840842	A	G	3408	118.70	22.05	0.00	0.01	28.96
rs117741105	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	112234506	A	G	3408	260.90	40.57	0.00	0.01	41.33
rs117127715	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	31315428	A	G	3408	180.40	30.92	0.00	0.01	34.02
rs117626443	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	69864162	G	C	3408	196.00	35.52	0.00	0.01	30.43
rs555447585	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	138817238	G	A	3408	81.84	15.59	0.00	0.01	27.54
rs79851411	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	13716390	A	G	3408	#####	132.80	0.00	0.05	188.95
rs35376347	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	99217391	C	T	3408	118.90	25.60	0.00	0.01	21.56
rs1368539	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	16526793	A	T	3408	#####	25.24	0.00	0.01	28.00

rs75361870	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	9202609	A	G	3408	269.80	44.42	0.00	0.01	36.87
rs79580432	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	4778180	C	G	3408	112.80	23.94	0.00	0.01	22.19
rs34000508	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	25574426	T	C	3408	164.30	21.61	0.00	0.02	57.77
rs140129399	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	1322274	G	T	3408	281.10	52.95	0.00	0.01	28.17
rs139584477	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	57056704	A	G	3408	172.50	29.41	0.00	0.01	34.38
rs117685161	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	99344753	G	A	3408	153.60	30.11	0.00	0.01	26.01
rs150058365	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	89800477	C	T	3408	56.44	12.75	0.00	0.01	19.58
rs147959386	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	124197307	A	G	3408	123.50	20.00	0.00	0.01	38.11
rs13249758	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	128271231	G	A	3408	85.91	17.34	0.00	0.01	24.53
rs117123362	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	129915383	C	G	3408	229.30	39.06	0.00	0.01	34.44
rs149627909	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	28381797	T	C	3408	991.00	183.20	0.00	0.01	29.24
rs117440863	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	98513319	C	T	3408	375.10	62.70	0.00	0.01	35.77
rs62513341	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	116858342	A	C	3408	100.50	20.65	0.00	0.01	23.67
rs117983267	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	124174485	A	C	3408	111.00	19.94	0.00	0.01	30.97
rs79218577	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	143859934	C	G	3408	828.90	70.61	0.00	0.04	137.73
rs183280627	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	30627573	A	G	3408	253.30	38.53	0.00	0.01	43.19
rs117808048	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	73079210	A	G	3408	206.40	37.47	0.00	0.01	30.32
rs144258173	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	2859400	G	A	3408	369.20	61.96	0.00	0.01	35.49
rs74416723	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	6769704	A	G	3408	59.92	12.97	0.00	0.01	21.33
rs144582155	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	41997183	A	C	3408	169.60	32.72	0.00	0.01	26.85
rs77009235	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	4499026	T	C	3408	116.60	21.02	0.00	0.01	30.75
rs117219726	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	33264182	A	G	3408	328.60	60.54	0.00	0.01	29.44
rs76230052	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	131835695	C	T	3408	185.60	37.99	0.00	0.01	23.85
rs118076041	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	144562245	A	G	3408	248.50	37.09	0.00	0.01	44.86

rs117448261	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	8	82400020	C	T	3408	196.10	35.66	0.00	0.01	30.22
rs45440296	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	133917168	A	G	3408	138.00	26.37	0.00	0.01	27.37
rs151035277	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	25887570	A	T	3408	310.00	42.47	0.00	0.02	53.25
rs374964617	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	504491	C	A	3408	196.40	28.32	0.00	0.01	48.07
rs144206851	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	77966779	T	G	3408	494.70	55.70	0.00	0.02	78.83
rs145563511	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	106801353	G	A	3408	185.90	33.18	0.00	0.01	31.37
rs140899856	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	111194567	G	T	3408	50.94	10.79	0.00	0.01	22.28
rs77733172	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	140235501	T	C	3408	188.40	31.51	0.00	0.01	35.73
rs76543451	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	122201008	A	G	3408	130.90	20.78	0.00	0.01	39.66
rs148380088	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	28759554	T	C	3408	149.30	26.38	0.00	0.01	32.01
rs148602493	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	23576735	C	T	3408	161.30	34.68	0.00	0.01	21.62
rs74336249	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	135625608	T	C	3408	125.60	19.43	0.00	0.01	41.76
rs148835086	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	10278984	T	C	3408	751.90	78.49	0.00	0.03	91.71
rs76017116	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	107332377	A	T	3408	219.60	33.39	0.00	0.01	43.23
rs79727415	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	121837015	A	C	3408	116.10	22.12	0.00	0.01	27.53
rs559632285	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	45362596	A	C	3408	96.61	15.83	0.00	0.01	37.22
rs117702997	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	83435830	G	A	3408	215.20	39.24	0.00	0.01	30.06
rs150336475	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	111627658	A	T	3408	45.29	9.88	0.00	0.01	21.00
rs10965305	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	22268719	G	C	3408	142.70	28.63	0.00	0.01	24.83
rs34609592	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	136915695	A	G	3408	#####	92.78	0.00	0.03	117.97
rs111373539	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	107628892	A	T	3408	52.34	10.84	0.00	0.01	23.30
rs148629497	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	10593877	G	A	3408	112.90	22.17	0.00	0.01	25.92
rs62567746	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	38796687	A	G	3408	175.90	37.30	0.00	0.01	22.23
rs72704856	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	10774031	G	A	3408	424.90	49.05	0.00	0.02	75.00

rs118062750	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	29889453	T	A	3408	224.10	32.00	0.00	0.01	49.01
rs7850783	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	100968226	G	A	3408	143.30	20.28	0.00	0.01	49.90
rs149649979	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	10889621	T	C	3408	708.10	63.75	0.00	0.03	123.30
rs75489053	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	22449820	G	A	3408	69.01	14.71	0.00	0.01	22.00
rs12378893	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	79057643	A	G	3408	245.40	36.99	0.00	0.01	43.99
rs562356749	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	67316488	C	T	3408	117.90	25.73	0.00	0.01	20.98
rs188376248	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	102390885	T	C	3408	159.60	26.70	0.00	0.01	35.71
rs10122523	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	99511751	A	G	3408	359.10	49.20	0.00	0.02	53.24
rs72768736	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	137149408	A	G	3408	520.00	59.93	0.00	0.02	75.24
rs139145617	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	138652160	T	C	3408	177.50	35.46	0.00	0.01	25.04
rs13293817	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	9	138791163	A	G	3408	114.60	24.58	0.00	0.01	21.72
rs140322068	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	1765793	A	G	3408	204.40	36.08	0.00	0.01	32.08
rs72810820	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	92600913	T	C	3408	584.70	76.44	0.00	0.02	58.47
rs10159645	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	106333320	A	C	3408	31.12	6.79	0.00	0.01	21.00
rs145835734	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	66659421	G	T	3408	479.20	79.88	0.00	0.01	35.97
rs78622624	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	33359425	C	T	3408	97.68	15.15	0.00	0.01	41.55
rs139781702	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	38359540	G	A	3408	103.80	22.24	0.00	0.01	21.77
rs2816832	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	52735936	T	C	3408	192.40	28.49	0.00	0.01	45.58
rs138948609	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	132596864	A	G	3408	59.98	10.31	0.00	0.01	33.83
rs2384564	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	36442592	G	A	3408	156.10	22.14	0.00	0.01	49.68
rs191325818	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	120573449	C	A	3408	177.10	31.66	0.00	0.01	31.27
rs143395500	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	69536834	T	C	3408	#####	203.70	0.00	0.01	36.56
rs184899141	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	82437388	A	G	3408	221.20	40.33	0.00	0.01	30.06
rs77390603	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	4688192	A	C	3408	336.90	45.79	0.00	0.02	54.10

rs145743664	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	16995517	C	T	3408	124.10	19.47	0.00	0.01	40.60
rs112517700	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	91013835	A	G	3408	95.85	16.51	0.00	0.01	33.68
rs143772909	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	101494118	T	C	3408	328.10	52.32	0.00	0.01	39.30
rs117003718	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	124406240	A	G	3408	194.30	29.94	0.00	0.01	42.09
rs149860203	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	31026572	T	C	3408	453.60	47.70	0.00	0.03	90.38
rs10824158	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	53915868	T	G	3408	407.50	40.68	0.00	0.03	100.29
rs78793273	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	55118190	C	G	3408	91.26	19.62	0.00	0.01	21.62
rs117098395	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	107595273	A	T	3408	174.70	34.15	0.00	0.01	26.15
rs145021762	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	22411454	A	G	3408	77.03	13.23	0.00	0.01	33.88
rs139445618	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	24055451	T	C	3408	62.93	13.44	0.00	0.01	21.91
rs148109962	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	17396637	G	A	3408	35.31	7.90	0.00	0.01	19.98
rs147968748	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	54704473	G	A	3408	183.90	22.31	0.00	0.02	67.91
rs11202534	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	89500755	T	G	3408	387.40	65.92	0.00	0.01	34.52
rs74157741	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	121973769	T	C	3408	454.90	54.04	0.00	0.02	70.82
rs72780729	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	17605945	T	A	3408	206.00	24.92	0.00	0.02	68.29
rs11596188	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	1734511	G	C	3408	526.20	54.32	0.00	0.03	93.78
rs118084393	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	6554827	C	T	3408	144.20	29.23	0.00	0.01	24.32
rs74322543	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	85916001	G	A	3408	658.40	82.87	0.00	0.02	63.09
rs575794055	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	119966169	G	A	3408	383.10	39.46	0.00	0.03	94.20
rs74853222	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	133380798	A	G	3408	236.20	50.20	0.00	0.01	22.13
rs147563624	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	10	5377215	T	C	3408	549.60	57.08	0.00	0.03	92.66
rs76385522	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	10620991	T	C	3408	335.00	44.28	0.00	0.02	57.20
rs78922116	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	25534610	T	C	3408	263.60	31.58	0.00	0.02	69.63
rs78524989	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	94284134	G	T	3408	183.00	33.09	0.00	0.01	30.57

rs7102247	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	133304292	C	T	3408	163.20	34.11	0.00	0.01	22.88
rs78085398	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	33121166	A	G	3408	105.30	18.42	0.00	0.01	32.66
rs145665517	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	75103559	A	G	3408	112.60	24.86	0.00	0.01	20.50
rs192346792	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	74172698	A	C	3408	134.70	26.48	0.00	0.01	25.86
rs186370342	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	92081132	T	A	3408	152.40	26.87	0.00	0.01	32.15
rs1106305	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	12065087	T	C	3408	95.49	13.66	0.00	0.01	48.84
rs113653707	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	43996684	C	A	3408	93.82	20.75	0.00	0.01	20.43
rs117270364	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	60694375	C	A	3408	186.00	31.20	0.00	0.01	35.52
rs142869493	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	87291175	T	C	3408	394.50	51.12	0.00	0.02	59.52
rs61759531	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	130773279	G	C	3408	67.61	14.06	0.00	0.01	23.11
rs117467460	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	99466406	T	A	3408	103.30	23.04	0.00	0.01	20.09
rs75157411	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	95180478	A	G	3408	212.80	37.83	0.00	0.01	31.62
rs117284243	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	122918979	T	A	3408	#####	131.70	0.00	0.05	183.18
rs78881177	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	127881478	C	A	3408	297.00	43.55	0.00	0.01	46.48
rs138259561	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	76470121	A	G	3408	187.00	31.68	0.00	0.01	34.82
rs7130130	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	59336329	A	G	3408	342.10	46.48	0.00	0.02	54.14
rs146252263	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	2477438	T	C	3408	100.00	19.92	0.00	0.01	25.19
rs118014538	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	3830358	A	G	3408	248.60	28.49	0.00	0.02	76.10
rs74540476	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	29902098	A	G	3408	90.23	16.28	0.00	0.01	30.70
rs77695406	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	70599488	A	T	3408	269.80	41.40	0.00	0.01	42.45
rs79741386	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	109660227	A	G	3408	141.40	20.64	0.00	0.01	46.91
rs75093728	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	123053955	C	G	3408	153.20	28.56	0.00	0.01	28.76
rs189796120	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	109281106	T	C	3408	122.60	18.08	0.00	0.01	45.95
rs117420444	AC CD28- CD8br ebi-a-GCST90001698	11	31631366	A	T	3408	344.40	54.89	0.00	0.01	39.34

rs12279408	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	84269972	T	C	3408	699.10	69.55	0.00	0.03	100.98
rs76552842	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	83433494	A	G	3408	#####	123.40	0.00	0.12	485.93
rs201928503	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	43037421	A	T	3408	106.40	17.40	0.00	0.01	37.37
rs117573224	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	1149087	A	G	3408	188.00	33.74	0.00	0.01	31.03
rs35733103	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	3114190	T	C	3408	146.60	31.15	0.00	0.01	22.14
rs116916598	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	121746998	G	A	3408	834.40	80.31	0.00	0.03	107.88
rs77485746	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	11	129187484	A	C	3408	287.40	43.92	0.00	0.01	42.80
rs11060236	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	129773605	G	A	3408	216.90	30.85	0.00	0.01	49.40
rs77577050	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	116077199	T	G	3408	322.00	41.59	0.00	0.02	59.91
rs146822590	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	130060949	T	A	3408	642.90	54.50	0.00	0.04	139.07
rs144682449	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	53402638	A	G	3408	144.10	25.27	0.00	0.01	32.50
rs58817739	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	46009960	G	A	3408	398.30	60.20	0.00	0.01	43.75
rs117785622	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	132283582	T	G	3408	573.00	57.77	0.00	0.03	98.32
rs11112760	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	106241673	T	C	3408	82.00	13.96	0.00	0.01	34.48
rs137943198	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	10963475	A	C	3408	515.70	55.97	0.00	0.02	84.85
rs73115326	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	60257747	A	T	3408	69.54	13.18	0.00	0.01	27.82
rs77364757	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	88300742	A	G	3408	157.20	30.63	0.00	0.01	26.32
rs149037944	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	103661467	T	G	3408	150.10	32.81	0.00	0.01	20.92
rs143604762	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	131000132	C	T	3408	76.34	16.34	0.00	0.01	21.81
rs139075636	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	102082782	G	A	3408	516.80	57.96	0.00	0.02	79.46
rs139898536	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	109036912	T	A	3408	161.30	28.25	0.00	0.01	32.58
rs75013096	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	44084962	C	G	3408	206.70	42.62	0.00	0.01	23.51
rs10505739	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	10043518	C	A	3408	985.50	78.14	0.00	0.04	158.97
rs188790487	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	43386402	A	G	3408	120.80	22.15	0.00	0.01	29.73

rs188074116	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	19311236	A	G	3408	#####	109.50	0.00	0.03	120.03
rs117004916	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	114748976	C	T	3408	109.90	22.89	0.00	0.01	23.04
rs112529428	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	129340399	T	C	3408	345.50	42.75	0.00	0.02	65.28
rs141976683	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	71790032	C	T	3408	154.90	31.41	0.00	0.01	24.31
rs17042703	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	77392215	C	T	3408	103.10	20.58	0.00	0.01	25.08
rs71466029	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	82065434	T	C	3408	397.00	48.27	0.00	0.02	67.60
rs78773852	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	71181930	C	T	3408	303.60	45.76	0.00	0.01	43.99
rs184910025	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	117089403	A	G	3408	271.10	40.30	0.00	0.01	45.23
rs112121527	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	119037578	C	T	3408	249.40	42.57	0.00	0.01	34.30
rs147107195	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	48190275	T	C	3408	851.20	92.57	0.00	0.02	84.50
rs35275693	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	88561479	G	A	3408	542.50	54.89	0.00	0.03	97.62
rs117613430	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	93540934	A	G	3408	250.30	45.06	0.00	0.01	30.84
rs142686680	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	29095512	C	T	3408	440.20	64.38	0.00	0.01	46.72
rs117293367	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	52437438	T	C	3408	437.70	69.06	0.00	0.01	40.15
rs149313844	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	4800867	G	A	3408	76.86	17.27	0.00	0.01	19.80
rs1381033	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	15618105	A	T	3408	#####	30.35	0.00	0.01	20.30
rs140053174	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	71043237	A	G	3408	122.00	24.22	0.00	0.01	25.36
rs112004249	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	82550260	A	T	3408	162.60	33.14	0.00	0.01	24.06
rs146661200	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	100494123	T	C	3408	152.80	23.81	0.00	0.01	41.16
rs143435133	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	129545747	A	G	3408	279.20	36.97	0.00	0.02	57.00
rs75391939	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	12	133446245	T	C	3408	416.60	51.47	0.00	0.02	65.47
rs140524161	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	37301576	G	T	3408	757.50	140.60	0.00	0.01	29.01
rs75550713	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	112088993	T	C	3408	207.00	33.71	0.00	0.01	37.68
rs3848018	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	99034552	G	A	3408	257.00	38.10	0.00	0.01	45.47

rs117075995	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	19869255	G	C	3408	252.90	28.72	0.00	0.02	77.50
rs76911919	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	112714493	C	T	3408	80.46	16.92	0.00	0.01	22.60
rs80133207	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	113264513	C	G	3408	391.90	46.66	0.00	0.02	70.50
rs8002354	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	109769788	G	A	3408	272.70	56.24	0.00	0.01	23.50
rs145720280	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	43404037	C	T	3408	202.40	32.76	0.00	0.01	38.15
rs111648746	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	28485345	A	G	3408	308.60	43.15	0.00	0.01	51.12
rs77214871	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	84005540	T	A	3408	633.00	123.70	0.00	0.01	26.17
rs75592465	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	105831838	T	G	3408	559.90	69.63	0.00	0.02	64.62
rs80128954	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	76775102	T	C	3408	297.20	44.49	0.00	0.01	44.60
rs188618717	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	114441229	A	G	3408	353.50	42.26	0.00	0.02	69.93
rs150476409	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	113289664	A	G	3408	432.30	52.29	0.00	0.02	68.31
rs7985427	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	47807626	C	T	3408	-92.72	19.13	0.00	0.01	23.48
rs9584374	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	97185631	C	T	3408	79.02	15.57	0.00	0.01	25.74
rs186400376	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	31805158	A	T	3408	386.50	52.34	0.00	0.02	54.50
rs113007178	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	40914557	A	T	3408	289.80	41.55	0.00	0.01	48.62
rs112111433	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	85569939	A	T	3408	82.56	16.61	0.00	0.01	24.69
rs76256154	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	95650711	A	G	3408	178.60	37.81	0.00	0.01	22.30
rs7139515	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	96254406	T	C	3408	77.93	15.84	0.00	0.01	24.19
rs117177255	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	77081029	T	C	3408	255.10	33.32	0.00	0.02	58.58
rs147848662	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	112802184	T	A	3408	67.87	14.62	0.00	0.01	21.54
rs149582701	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	13	62438680	G	A	3408	147.00	32.50	0.00	0.01	20.45
rs117304580	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	72774395	A	C	3408	126.40	28.31	0.00	0.01	19.92
rs1381623	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	84609045	C	G	3408	#####	55.18	0.00	0.01	27.55
rs74565504	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	89207147	T	G	3408	442.90	54.79	0.00	0.02	65.31

rs113699161	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	58571589	A	G	3408	337.10	43.36	0.00	0.02	60.41
rs141481912	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	97924775	C	T	3408	117.20	23.63	0.00	0.01	24.59
rs80334718	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	33998519	G	A	3408	391.10	49.95	0.00	0.02	61.27
rs141309221	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	95018285	A	C	3408	73.87	15.30	0.00	0.01	23.30
rs150889386	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	100822892	C	T	3408	829.80	104.00	0.00	0.02	63.62
rs144275943	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	34065832	G	T	3408	730.00	96.39	0.00	0.02	57.32
rs71419987	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	34919717	A	G	3408	584.10	69.32	0.00	0.02	70.96
rs61755651	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	72431599	T	C	3408	211.50	36.04	0.00	0.01	34.42
rs142461733	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	22723226	A	T	3408	116.70	25.64	0.00	0.01	20.70
rs111730307	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	49236170	T	G	3408	167.30	36.46	0.00	0.01	21.04
rs10400782	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	35130401	C	A	3408	280.30	39.64	0.00	0.01	49.97
rs77191330	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	79365684	C	T	3408	216.50	46.11	0.00	0.01	22.03
rs149134258	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	93148478	T	C	3408	97.05	20.80	0.00	0.01	21.76
rs76545164	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	36027615	A	G	3408	140.60	30.13	0.00	0.01	21.76
rs146937045	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	46740502	G	T	3408	399.50	53.53	0.00	0.02	55.67
rs187775632	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	76210029	G	A	3408	176.80	33.12	0.00	0.01	28.48
rs192467351	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	76826605	G	C	3408	308.30	54.70	0.00	0.01	31.75
rs116853391	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	104409277	C	T	3408	192.40	36.48	0.00	0.01	27.80
rs72694381	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	24859553	T	A	3408	156.40	31.93	0.00	0.01	23.98
rs72672939	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	45753508	T	C	3408	91.47	19.33	0.00	0.01	22.38
rs150055480	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	55295865	A	G	3408	262.40	37.13	0.00	0.01	49.91
rs184184520	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	45055780	T	G	3408	306.10	48.59	0.00	0.01	39.66
rs10484068	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	99653123	T	C	3408	118.50	17.59	0.00	0.01	45.36
rs138183141	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	101668310	C	A	3408	171.90	33.06	0.00	0.01	27.02

rs117862145	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	33586273	T	A	3408	260.80	39.75	0.00	0.01	43.02
rs183436787	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	14	41636680	T	C	3408	606.70	63.67	0.00	0.03	90.75
rs80331554	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	59013643	G	A	3408	862.80	179.70	0.00	0.01	23.04
rs146982369	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	25983333	G	C	3408	57.45	12.21	0.00	0.01	22.13
rs188087675	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	29114742	A	G	3408	246.00	36.11	0.00	0.01	46.38
rs2441781	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	52321843	C	T	3408	46.42	10.44	0.00	0.01	19.76
rs181228225	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	84950824	A	G	3408	628.30	64.46	0.00	0.03	94.95
rs112310272	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	26944526	A	T	3408	64.13	13.45	0.00	0.01	22.72
rs117801457	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	29421113	T	C	3408	224.80	31.22	0.00	0.01	51.82
rs72750943	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	63828258	C	T	3408	117.60	23.53	0.00	0.01	24.96
rs117294527	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	100764857	G	C	3408	155.40	31.61	0.00	0.01	24.15
rs117397768	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	68230533	A	G	3408	59.95	12.74	0.00	0.01	22.13
rs62009323	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	96961294	G	A	3408	159.70	36.03	0.00	0.01	19.63
rs186824722	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	24505612	G	T	3408	52.21	10.34	0.00	0.01	25.48
rs149438077	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	30234373	G	A	3408	159.70	28.30	0.00	0.01	31.83
rs12442442	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	40127028	A	G	3408	144.40	28.08	0.00	0.01	26.43
rs56041702	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	50008133	C	G	3408	203.70	31.66	0.00	0.01	41.37
rs149908314	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	54344919	T	C	3408	416.30	45.67	0.00	0.02	83.04
rs190589573	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	79305514	T	C	3408	115.80	22.95	0.00	0.01	25.44
rs138020305	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	95184966	T	C	3408	64.03	12.28	0.00	0.01	27.17
rs75669615	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	39668760	A	G	3408	185.00	29.82	0.00	0.01	38.47
rs11633592	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	25418271	G	A	3408	#####	28.37	0.00	0.01	20.15
rs117211386	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	51649599	A	G	3408	447.60	54.04	0.00	0.02	68.56
rs147590366	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	63216446	T	G	3408	151.80	28.99	0.00	0.01	27.40

rs116922386	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	15	68647510	A	C	3408	64.64	14.42	0.00	0.01	20.08
rs76066405	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	78454375	G	A	3408	48.61	9.00	0.00	0.01	29.14
rs79548047	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	11614838	C	T	3408	163.60	28.37	0.00	0.01	33.23
rs117555426	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	13128176	C	A	3408	414.60	53.64	0.00	0.02	59.71
rs572954905	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	31402773	G	C	3408	366.10	48.63	0.00	0.02	56.64
rs142015595	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	83755289	A	T	3408	60.71	13.32	0.00	0.01	20.76
rs78888262	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	88701572	A	C	3408	434.20	63.13	0.00	0.01	47.28
rs117291729	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	11975137	T	A	3408	132.90	28.79	0.00	0.01	21.30
rs150007303	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	23350716	C	T	3408	192.10	35.20	0.00	0.01	29.77
rs138937927	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	51095561	T	C	3408	842.40	89.95	0.00	0.03	87.66
rs147054310	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	85194229	A	G	3408	51.41	11.58	0.00	0.01	19.70
rs12934979	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	87379050	T	C	3408	228.70	45.62	0.00	0.01	25.12
rs151246819	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	23373955	A	G	3408	331.70	44.70	0.00	0.02	55.03
rs34265859	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	25931790	C	G	3408	116.20	18.00	0.00	0.01	41.65
rs117898578	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	50471284	G	C	3408	221.00	37.13	0.00	0.01	35.41
rs118065847	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	54673316	A	G	3408	180.40	34.80	0.00	0.01	26.86
rs143946135	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	69023689	G	A	3408	161.60	24.83	0.00	0.01	42.33
rs142076427	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	5628078	A	G	3408	181.90	32.71	0.00	0.01	30.91
rs77145028	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	54932285	C	T	3408	202.20	44.66	0.00	0.01	20.49
rs139120487	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	755030	A	C	3408	143.00	29.16	0.00	0.01	24.03
rs142151887	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	1071217	A	C	3408	274.80	38.79	0.00	0.01	50.16
rs138562176	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	16	4207228	A	G	3408	47.62	9.03	0.00	0.01	27.77
rs187924827	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	6329247	T	C	3408	115.80	22.98	0.00	0.01	25.38
rs147069965	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	36231492	T	G	3408	184.00	34.62	0.00	0.01	28.23

rs117046665	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	41774967	C	A	3408	144.70	32.17	0.00	0.01	20.22
rs55856613	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	79094162	A	G	3408	330.60	59.91	0.00	0.01	30.43
rs150053624	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	80299376	T	C	3408	496.10	55.44	0.00	0.02	80.03
rs56375820	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	9999183	T	C	3408	97.09	21.28	0.00	0.01	20.80
rs118019384	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	27826991	C	T	3408	56.72	11.40	0.00	0.01	24.74
rs143393137	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	30967385	T	C	3408	189.10	33.53	0.00	0.01	31.79
rs144104650	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	5023557	A	G	3408	591.40	73.04	0.00	0.02	65.52
rs78100215	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	8298873	A	G	3408	352.00	44.95	0.00	0.02	61.29
rs117922931	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	30028367	G	A	3408	785.20	70.89	0.00	0.03	122.61
rs79757812	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	65896989	A	G	3408	99.34	16.98	0.00	0.01	34.21
rs139736375	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	67625638	T	C	3408	443.10	51.97	0.00	0.02	72.65
rs184152921	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	79175857	T	C	3408	135.50	30.29	0.00	0.01	20.00
rs113411752	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	35489333	G	A	3408	146.50	27.72	0.00	0.01	27.91
rs34539402	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	39959627	A	G	3408	211.70	33.34	0.00	0.01	40.30
rs17882143	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	41836082	T	C	3408	121.90	21.11	0.00	0.01	33.33
rs74465961	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	15099614	T	C	3408	104.70	20.88	0.00	0.01	25.13
rs55658055	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	17705424	G	A	3408	128.70	26.90	0.00	0.01	22.88
rs113199364	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	75157900	T	C	3408	299.90	60.10	0.00	0.01	24.89
rs117830252	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	11465523	A	G	3408	165.20	30.55	0.00	0.01	29.22
rs117979973	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	76931475	T	C	3408	101.90	22.39	0.00	0.01	20.70
rs568349042	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	80344923	A	G	3408	447.60	52.44	0.00	0.02	72.81
rs77725246	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	55639212	T	C	3408	268.40	41.66	0.00	0.01	41.48
rs143393656	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	63493154	C	G	3408	142.10	31.50	0.00	0.01	20.34
rs192484154	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	17	47652035	A	G	3408	140.80	29.43	0.00	0.01	22.88

rs150156077	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	4348487	G	A	3408	103.60	21.07	0.00	0.01	24.16
rs150635355	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	38662297	A	T	3408	93.79	15.05	0.00	0.01	38.81
rs150994087	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	56708792	T	C	3408	316.00	49.25	0.00	0.01	41.14
rs62098570	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	60238886	T	G	3408	131.00	26.01	0.00	0.01	25.35
rs150905742	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	70586990	A	G	3408	311.00	47.64	0.00	0.01	42.59
rs117745825	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	3305228	C	T	3408	854.90	74.11	0.00	0.04	132.99
rs11661882	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	70504468	A	G	3408	#####	40.25	0.00	0.01	33.66
rs7235263	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	74408679	G	T	3408	64.30	12.79	0.00	0.01	25.26
rs80063983	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	75193391	A	G	3408	35.60	7.78	0.00	0.01	20.92
rs112278099	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	5319739	T	C	3408	82.54	15.29	0.00	0.01	29.12
rs145978106	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	7839215	A	C	3408	207.00	22.80	0.00	0.02	82.38
rs147015694	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	2896235	A	G	3408	99.23	21.38	0.00	0.01	21.53
rs116990016	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	28163696	A	G	3408	196.90	39.12	0.00	0.01	25.32
rs78606202	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	46581667	T	C	3408	122.10	24.31	0.00	0.01	25.21
rs536434085	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	63832285	T	C	3408	286.80	38.31	0.00	0.02	56.01
rs73966235	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	65092573	T	A	3408	362.80	46.21	0.00	0.02	61.60
rs76808079	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	22735939	C	A	3408	364.40	54.53	0.00	0.01	44.63
rs75438005	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	26017285	A	G	3408	939.10	130.10	0.00	0.02	52.07
rs17665147	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	19383778	A	G	3408	234.00	44.62	0.00	0.01	27.49
rs116940971	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	38279589	T	C	3408	469.10	52.88	0.00	0.02	78.65
rs147136626	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	18	73901698	T	A	3408	160.70	28.09	0.00	0.01	32.71
rs114857658	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	21585596	G	A	3408	139.40	30.72	0.00	0.01	20.58
rs118089863	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	24477916	T	C	3408	516.50	52.39	0.00	0.03	97.14
rs146989801	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	45630360	G	C	3408	187.40	33.91	0.00	0.01	30.52

rs200198801	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	46387941	A	G	3408	319.60	44.35	0.00	0.02	51.90
rs112604811	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	46587710	T	C	3408	#####	81.57	0.00	0.04	154.74
rs143517669	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	868083	T	C	3408	131.30	26.91	0.00	0.01	23.79
rs137963524	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	8899157	C	A	3408	148.20	32.28	0.00	0.01	21.07
rs77955766	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	17307102	G	T	3408	217.60	37.05	0.00	0.01	34.47
rs147370318	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	31892272	G	C	3408	97.34	19.04	0.00	0.01	26.12
rs143824026	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	33797284	T	G	3408	110.10	20.78	0.00	0.01	28.06
rs11879282	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	48790968	A	G	3408	227.50	49.60	0.00	0.01	21.03
rs140800343	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	50001170	T	C	3408	69.90	12.06	0.00	0.01	33.57
rs57121931	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	55017690	C	T	3408	214.70	38.13	0.00	0.01	31.69
rs143871291	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	1191667	G	A	3408	111.80	18.01	0.00	0.01	38.51
rs146101423	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	6753000	A	C	3408	417.20	62.38	0.00	0.01	44.70
rs146650864	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	22454852	A	G	3408	338.40	41.59	0.00	0.02	66.16
rs7254864	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	9246656	A	G	3408	643.80	80.36	0.00	0.02	64.15
rs76648333	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	33873371	T	C	3408	184.30	35.38	0.00	0.01	27.12
rs78703636	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	33953595	C	T	3408	#####	134.10	0.00	0.02	62.09
rs59745713	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	34075835	A	G	3408	149.10	21.18	0.00	0.01	49.53
rs145410896	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	34111992	G	C	3408	202.50	24.61	0.00	0.02	67.67
rs73034498	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	44937435	T	C	3408	250.00	43.75	0.00	0.01	32.63
rs147572731	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	19	49416171	T	C	3408	826.80	69.68	0.00	0.04	140.71
rs180972485	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	24457030	A	G	3408	489.90	50.73	0.00	0.03	93.20
rs137942933	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	33104122	T	G	3408	#####	72.99	0.00	0.05	187.59
rs76312917	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	38969262	A	G	3408	158.60	29.18	0.00	0.01	29.52
rs6094100	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	43755180	C	T	3408	105.40	20.01	0.00	0.01	27.73

rs138246394	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	54228961	A	G	3408	262.10	43.79	0.00	0.01	35.80
rs13039776	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	62915126	G	A	3408	165.50	32.04	0.00	0.01	26.67
rs41276984	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	37580670	G	C	3408	609.30	53.09	0.00	0.04	131.64
rs73102494	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	41197100	A	G	3408	315.00	62.47	0.00	0.01	25.41
rs148727285	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	48156477	G	A	3408	46.19	10.19	0.00	0.01	20.53
rs149483829	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	49499194	G	A	3408	128.90	25.73	0.00	0.01	25.08
rs11538695	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	50004560	A	G	3408	221.50	34.40	0.00	0.01	41.44
rs76720524	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	1832785	T	C	3408	160.30	31.58	0.00	0.01	25.75
rs145250558	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	15245578	C	G	3408	378.70	48.86	0.00	0.02	60.04
rs73091371	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	4420029	A	C	3408	148.10	30.20	0.00	0.01	24.03
rs17791728	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	17556587	C	T	3408	751.80	64.60	0.00	0.04	135.36
rs184911123	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	18880832	A	T	3408	267.20	40.47	0.00	0.01	43.57
rs75600477	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	40197928	G	T	3408	559.60	56.91	0.00	0.03	96.63
rs566794699	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	25333520	A	T	3408	97.10	21.94	0.00	0.01	19.58
rs145263449	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	12493170	A	G	3408	169.20	33.84	0.00	0.01	24.99
rs459056	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	15614140	G	T	3408	197.30	29.42	0.00	0.01	44.95
rs113369914	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	21420694	T	C	3408	214.80	37.50	0.00	0.01	32.79
rs118180479	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	37027035	C	T	3408	534.90	55.24	0.00	0.03	93.71
rs148513824	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	20	61268143	T	C	3408	282.10	43.40	0.00	0.01	42.23
rs118009051	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	21	17079538	G	C	3408	46.78	10.27	0.00	0.01	20.74
rs117922572	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	21	27289871	T	C	3408	172.10	31.46	0.00	0.01	29.91
rs75483199	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	21	32526668	A	T	3408	81.08	15.08	0.00	0.01	28.89
rs111541596	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	21	15989102	C	T	3408	171.60	32.80	0.00	0.01	27.35
rs6517382	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	21	38156170	C	T	3408	#####	57.56	0.00	0.03	90.72

rs79655468	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	21	42790901	T	G	3408	37.95	8.38	0.00	0.01	20.50
rs7278151	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	21	29724671	T	G	3408	167.80	35.69	0.00	0.01	22.09
rs111714479	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	21	35532237	A	T	3408	199.00	34.88	0.00	0.01	32.53
rs7510888	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	26185033	T	C	3408	-78.38	17.32	0.00	0.01	20.47
rs77841631	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	44942066	A	G	3408	49.89	10.56	0.00	0.01	22.31
rs73878713	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	23055148	T	C	3408	88.59	18.82	0.00	0.01	22.14
rs117562840	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	42680877	A	G	3408	122.40	24.80	0.00	0.01	24.34
rs146461857	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	23709958	A	G	3408	355.70	52.34	0.00	0.01	46.16
rs189798499	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	24402964	G	C	3408	121.10	23.01	0.00	0.01	27.68
rs117885295	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	27731404	A	C	3408	139.40	26.93	0.00	0.01	26.78
rs11703161	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	40335424	A	G	3408	89.25	19.59	0.00	0.01	20.74
rs79330384	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	44472281	A	G	3408	197.30	38.35	0.00	0.01	26.45
rs13055531	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	32562454	G	C	3408	55.83	12.40	0.00	0.01	20.26
rs117840149	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	36506460	A	C	3408	246.80	37.81	0.00	0.01	42.58
rs132751	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	36610967	T	C	3408	417.30	51.40	0.00	0.02	65.87
rs4821845	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	39354391	T	C	3408	#####	84.50	0.00	0.02	60.95
rs142505312	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	50155532	C	T	3408	173.50	32.21	0.00	0.01	29.00
rs139939351	CD45RA+ CD28- CD8br ebi-a-GCST90001698 AC	22	50360292	G	T	3408	95.58	21.26	0.00	0.01	20.20
rs146620586	CD45RA+ CD28- CD8br ebi-a-GCST90001699 %CD8br	1	198524264	T	G	3425	18.78	4.01	0.00	0.01	21.89
rs74055305	CD45RA+ CD28- CD8br ebi-a-GCST90001699 %CD8br	1	4985225	T	C	3425	-2.99	0.66	0.00	0.01	20.39
rs76444609	CD45RA+ CD28- CD8br ebi-a-GCST90001699 %CD8br	1	249084997	A	G	3425	60.43	13.57	0.00	0.01	19.82
rs184701860	CD45RA+ CD28- CD8br ebi-a-GCST90001699 %CD8br	2	146317203	G	A	3425	18.22	3.79	0.00	0.01	23.13
rs4853078	CD45RA+ CD28- CD8br ebi-a-GCST90001699 %CD8br	2	75148081	G	T	3425	17.66	3.92	0.00	0.01	20.33
rs10176830	CD45RA+ CD28- CD8br ebi-a-GCST90001699 %CD8br	2	83631928	C	G	3425	49.13	10.45	0.00	0.01	22.09

rs7605634	CD45RA+ CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	2	133321163	C	T	3425	1.72	0.38	0.00	0.01	20.06
rs7559619	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	2	38892207	G	A	3425	-2.75	0.37	0.00	0.02	54.42
rs148524572	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	3	185618728	C	T	3425	11.65	2.42	0.00	0.01	23.22
rs139329941	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	3	166969119	T	C	3425	11.48	2.47	0.00	0.01	21.66
rs79638560	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	4	183402200	A	C	3425	27.80	6.05	0.00	0.01	21.11
rs199797711	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	4	120352238	C	T	3425	37.99	6.49	0.00	0.01	34.28
rs13133130	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	4	67792751	G	A	3425	1.65	0.35	0.00	0.01	22.38
rs147841321	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	4	130934266	T	C	3425	17.82	3.90	0.00	0.01	20.85
rs189420173	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	4	4128043	G	T	3425	5.78	1.27	0.00	0.01	20.58
rs4648125	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	4	103535765	A	G	3425	36.64	6.77	0.00	0.01	29.26
rs80181351	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	5	1155401	T	C	3425	16.82	3.74	0.00	0.01	20.17
rs375356899	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	6	165166578	G	A	3425	9.77	1.87	0.00	0.01	27.20
rs56306620	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	6	108456796	C	T	3425	3.71	0.82	0.00	0.01	20.60
rs73719023	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	6	6986777	C	G	3425	6.92	1.38	0.00	0.01	25.34
rs62461164	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	7	77674010	C	G	3425	3.53	0.80	0.00	0.01	19.67
rs117858699	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	7	128071585	T	C	3425	7.14	1.49	0.00	0.01	23.07
rs7819099	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	8	144992862	G	A	3425	1.61	0.35	0.00	0.01	21.22
rs1747869	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	9	139041212	C	G	3425	1.73	0.38	0.00	0.01	20.34
rs144378515	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	10	60542770	G	C	3425	9.88	2.11	0.00	0.01	21.85
rs142420464	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	10	12757694	T	C	3425	21.72	4.38	0.00	0.01	24.58
rs147119730	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	10	15607755	T	A	3425	9.83	2.21	0.00	0.01	19.83
rs117284243	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	11	122918979	T	A	3425	64.01	13.70	0.00	0.01	21.82
rs76552842	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	11	83433494	A	G	3425	59.50	13.10	0.00	0.01	20.62
rs17175340	CD28- CD8br ebi-a-GCST90001699 %CD8br	12	23151353	T	C	3425	2.22	0.49	0.00	0.01	20.67

rs7989683	CD45RA+ CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	13	96304050	T	C	3425	-3.33	0.73	0.00	0.01	21.03
rs74828441	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	15	30132737	C	A	3425	10.36	2.03	0.00	0.01	26.03
rs7186214	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	16	79282813	C	T	3425	2.95	0.62	0.00	0.01	22.52
rs150885241	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	17	49002799	A	G	3425	42.58	9.27	0.00	0.01	21.11
rs4796089	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	17	33814758	C	T	3425	-2.61	0.52	0.00	0.01	25.49
rs45609839	CD28- CD8br ebi-a-GCST90001699 %CD8br CD45RA+	18	22006601	T	G	3425	5.92	1.32	0.00	0.01	20.00
rs114021246	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	46898789	C	G	3425	13.26	2.59	0.00	0.01	26.12
rs202047604	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	223109887	C	A	3425	15.60	3.16	0.00	0.01	24.30
rs149050426	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	160679804	C	G	3425	12.68	2.65	0.00	0.01	22.93
rs147600774	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	115926543	T	A	3425	2.41	0.53	0.00	0.01	20.27
rs2152857	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	81185936	G	A	3425	4.94	0.99	0.00	0.01	25.07
rs11580627	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	207801545	C	T	3425	15.69	3.03	0.00	0.01	26.83
rs11576563	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	6118693	T	C	3425	13.78	2.99	0.00	0.01	21.26
rs12068756	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	233943028	C	T	3425	2.26	0.47	0.00	0.01	22.79
rs72723467	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	175366612	A	G	3425	27.24	5.33	0.00	0.01	26.07
rs76444609	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	249084997	A	G	3425	51.58	5.75	0.00	0.02	80.39
rs114230155	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	102796337	A	G	3425	9.27	1.59	0.00	0.01	34.15
rs77676367	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	27963297	C	T	3425	13.71	2.96	0.00	0.01	21.41
rs61746209	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	238644579	C	G	3425	2.00	0.39	0.00	0.01	26.10
rs114672498	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	4591565	G	C	3425	7.85	1.62	0.00	0.01	23.51
rs141656769	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	58381604	T	G	3425	14.34	2.90	0.00	0.01	24.50
rs140963286	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	1	24640467	T	C	3425	33.40	5.74	0.00	0.01	33.89
rs79027575	CD28- CD8br ebi-a-GCST90001700 %T cell CD45RA+	2	146371302	C	T	3425	9.04	1.65	0.00	0.01	29.90
rs72931475	CD28- CD8br ebi-a-GCST90001700 %T cell	2	159316835	G	A	3425	31.04	4.31	0.00	0.01	51.84

rs114581990	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	2	235962017	G	A	3425	8.87	1.56	0.00	0.01	32.17
rs146627868	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	2	81365670	A	G	3425	2.82	0.62	0.00	0.01	20.97
rs4670265	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	2	38932777	G	T	3425	0.77	0.15	0.00	0.01	26.30
rs10176830	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	2	83631928	C	G	3425	29.23	4.45	0.00	0.01	43.08
rs148947489	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	2	10326418	T	C	3425	8.30	1.53	0.00	0.01	29.31
rs115943331	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	2	240239970	A	G	3425	39.60	8.92	0.00	0.01	19.72
rs190665193	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	2	106438361	G	A	3425	35.37	4.06	0.00	0.02	75.93
rs2192500	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	2	59373057	G	A	3425	5.31	1.18	0.00	0.01	20.07
rs4853078	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	2	75148081	G	T	3425	9.27	1.68	0.00	0.01	30.42
rs16864501	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	152385976	A	G	3425	33.31	5.74	0.00	0.01	33.61
rs73218592	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	109447837	T	C	3425	10.01	2.23	0.00	0.01	20.19
rs185587352	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	117384981	A	G	3425	18.17	3.07	0.00	0.01	34.96
rs76128446	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	192001379	G	A	3425	0.91	0.20	0.00	0.01	19.73
rs17878699	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	3132754	A	G	3425	8.18	1.62	0.00	0.01	25.46
rs73105597	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	73306180	G	C	3425	8.77	1.91	0.00	0.01	21.16
rs115879183	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	194347376	G	A	3425	12.99	2.58	0.00	0.01	25.37
rs148658406	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	153311399	T	C	3425	32.81	5.72	0.00	0.01	32.93
rs139329941	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	166969119	T	C	3425	5.19	1.06	0.00	0.01	23.87
rs111747460	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	74016318	A	G	3425	26.82	4.30	0.00	0.01	38.95
rs114219959	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	106957827	T	G	3425	14.57	3.28	0.00	0.01	19.77
rs73173143	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	177136644	C	T	3425	1.87	0.42	0.00	0.01	19.95
rs114827401	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	3	31287377	T	A	3425	10.71	2.13	0.00	0.01	25.22
rs147841321	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	130934266	T	C	3425	8.69	1.67	0.00	0.01	27.06
rs116399750	%T cell CD28- CD8br ebi-a-GCST90001700	4	176754667	A	G	3425	17.96	3.21	0.00	0.01	31.38

rs79395509	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	176348299	T	C	3425	26.23	4.19	0.00	0.01	39.15
rs189420173	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	4128043	G	T	3425	2.94	0.55	0.00	0.01	28.93
rs114421150	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	16986930	A	C	3425	25.00	4.08	0.00	0.01	37.52
rs193135177	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	177338168	A	G	3425	14.59	2.87	0.00	0.01	25.76
rs77689186	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	176614955	A	C	3425	7.95	1.65	0.00	0.01	23.09
rs114559319	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	85213802	A	T	3425	18.49	3.73	0.00	0.01	24.55
rs12499962	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	99029457	G	A	3425	25.15	3.14	0.00	0.02	64.07
rs114685875	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	138349095	A	G	3425	17.06	3.51	0.00	0.01	23.62
rs149021870	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	135635954	G	A	3425	3.70	0.77	0.00	0.01	23.24
rs75993384	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	55305871	C	T	3425	38.22	4.74	0.00	0.02	65.06
rs114430346	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	102760648	A	G	3425	20.36	4.31	0.00	0.01	22.30
rs191607214	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	123414413	A	C	3425	12.67	2.61	0.00	0.01	23.59
rs114619811	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	71875684	G	A	3425	15.63	2.90	0.00	0.01	29.13
rs146374482	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	85578601	A	G	3425	19.45	3.68	0.00	0.01	27.95
rs78088167	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	130098084	G	A	3425	19.81	3.22	0.00	0.01	37.73
rs146047936	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	97392739	C	A	3425	7.86	1.73	0.00	0.01	20.61
rs62321187	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	120605817	T	C	3425	49.00	5.70	0.00	0.02	73.78
rs12501785	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	4	180565400	A	G	3425	10.80	1.88	0.00	0.01	32.95
rs80181351	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	5	1155401	T	C	3425	7.33	1.62	0.00	0.01	20.58
rs148291161	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	5	168556910	G	A	3425	14.11	2.74	0.00	0.01	26.43
rs140976870	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	5	120420356	T	C	3425	3.27	0.71	0.00	0.01	21.04
rs116581718	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	5	29413612	C	T	3425	22.40	3.30	0.00	0.01	46.02
rs112254351	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	5	169422728	A	G	3425	19.55	3.79	0.00	0.01	26.62
rs75146333	%T cell CD28- CD8br ebi-a-GCST90001700	5	65455207	C	G	3425	37.39	7.09	0.00	0.01	27.79

rs79725470	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	5	94705605	C	T	3425	19.78	3.68	0.00	0.01	28.81
rs146171997	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	5	52147101	G	A	3425	35.54	7.42	0.00	0.01	22.95
rs17642570	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	5	148699825	C	T	3425	3.65	0.79	0.00	0.01	21.56
rs180927720	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	5	11287269	G	A	3425	11.34	2.53	0.00	0.01	20.16
rs144613377	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	5	81311763	C	T	3425	3.83	0.76	0.00	0.01	25.33
rs189412340	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	5	75564943	T	C	3425	16.05	3.46	0.00	0.01	21.54
rs115715247	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	5	68399621	T	C	3425	27.58	5.69	0.00	0.01	23.52
rs73400437	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	6	24904561	T	C	3425	15.37	3.32	0.00	0.01	21.47
rs150287087	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	6	125051261	C	G	3425	11.37	2.33	0.00	0.01	23.84
rs117708929	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	6	124879601	C	T	3425	3.15	0.64	0.00	0.01	24.11
rs151244510	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	6	74134014	A	G	3425	10.23	2.22	0.00	0.01	21.22
rs76602542	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	6	82300125	T	C	3425	9.61	2.14	0.00	0.01	20.08
rs145604620	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	6	11491250	G	A	3425	34.45	4.83	0.00	0.01	50.80
rs375356899	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	6	165166578	G	A	3425	4.52	0.80	0.00	0.01	31.58
rs79518488	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	6	28389143	C	T	3425	24.55	4.47	0.00	0.01	30.09
rs73719023	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	6	6986777	C	G	3425	3.22	0.59	0.00	0.01	29.73
rs149208831	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	6	10017676	C	A	3425	25.69	4.10	0.00	0.01	39.33
rs115541238	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	6	44289942	A	G	3425	9.46	2.13	0.00	0.01	19.76
rs138327786	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	6	1730982	A	G	3425	21.50	3.89	0.00	0.01	30.59
rs79647440	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	142438302	T	C	3425	37.38	4.92	0.00	0.02	57.64
rs184379743	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	83499414	T	C	3425	4.56	0.91	0.00	0.01	25.17
rs77465871	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	47504039	G	A	3425	13.03	1.94	0.00	0.01	45.08
rs186251573	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	13558580	C	A	3425	14.06	2.97	0.00	0.01	22.34
rs34947488	%T cell CD28- CD8br ebi-a-GCST90001700	7	125751	C	G	3425	1.02	0.22	0.00	0.01	22.03

rs149394991	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	30944767	A	C	3425	15.07	2.98	0.00	0.01	25.61
rs71528265	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	67397567	C	G	3425	4.33	0.91	0.00	0.01	22.55
rs117469911	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	79791344	A	C	3425	6.23	1.16	0.00	0.01	29.06
rs111065494	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	48369369	T	A	3425	4.13	0.84	0.00	0.01	24.04
rs10274897	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	45344881	G	T	3425	19.66	4.10	0.00	0.01	22.98
rs185754925	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	62917010	G	A	3425	8.53	1.56	0.00	0.01	29.86
rs190764862	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	41114935	T	C	3425	19.50	4.40	0.00	0.01	19.63
rs150400236	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	136855654	T	C	3425	8.21	1.75	0.00	0.01	22.07
rs78470553	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	158334355	A	G	3425	3.91	0.73	0.00	0.01	28.47
rs143845801	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	84434549	C	G	3425	18.54	2.75	0.00	0.01	45.33
rs62491100	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	112589900	T	C	3425	5.69	1.17	0.00	0.01	23.58
rs117692894	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	39587008	T	G	3425	33.95	5.80	0.00	0.01	34.20
rs116979366	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	31134950	A	T	3425	5.89	1.20	0.00	0.01	23.94
rs117296998	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	7	33902745	T	C	3425	10.50	2.21	0.00	0.01	22.54
rs117478414	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	8	56081028	T	C	3425	32.87	5.80	0.00	0.01	32.14
rs17524895	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	8	11660136	T	C	3425	4.48	0.96	0.00	0.01	21.69
rs117867588	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	8	15699657	A	G	3425	36.56	6.27	0.00	0.01	33.96
rs7823439	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	8	16615390	C	T	3425	5.55	1.18	0.00	0.01	22.18
rs72719812	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	8	136875749	G	A	3425	13.01	2.45	0.00	0.01	28.18
rs6982554	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	8	4172183	C	G	3425	3.63	0.81	0.00	0.01	20.07
rs79218577	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	8	143859934	C	G	3425	15.30	3.06	0.00	0.01	25.00
rs117808048	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	8	73079210	A	G	3425	6.97	1.56	0.00	0.01	20.02
rs34039708	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	8	12500832	A	C	3425	12.51	1.85	0.00	0.01	45.70
rs79851411	%T cell CD28- CD8br ebi-a-GCST90001700	8	13716390	A	G	3425	35.15	5.79	0.00	0.01	36.80

rs138901088	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	9	2517641	A	C	3425	12.28	2.65	0.00	0.01	21.44
rs142884906	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	9	130626387	A	G	3425	13.50	2.96	0.00	0.01	20.76
rs559632285	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	9	45362596	A	C	3425	3.05	0.66	0.00	0.01	21.07
rs9408992	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	9	102347204	G	C	3425	5.70	1.27	0.00	0.01	20.16
rs111972324	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	9	38278118	A	C	3425	9.94	2.21	0.00	0.01	20.25
rs374964617	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	9	504491	C	A	3425	6.49	1.20	0.00	0.01	29.45
rs7044904	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	9	16069316	G	A	3425	-14.67	3.17	0.00	0.01	21.43
rs575794055	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	10	119966169	G	A	3425	9.08	1.69	0.00	0.01	28.76
rs11202534	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	10	89500755	T	G	3425	13.13	2.79	0.00	0.01	22.10
rs74157741	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	10	121973769	T	C	3425	10.21	2.30	0.00	0.01	19.73
rs143395500	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	10	69536834	T	C	3425	51.17	8.85	0.00	0.01	33.45
rs78069205	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	10	9668124	G	A	3425	46.68	7.97	0.00	0.01	34.31
rs143129647	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	10	125841271	T	C	3425	15.69	3.44	0.00	0.01	20.75
rs11200733	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	10	85685084	A	G	3425	5.66	1.17	0.00	0.01	23.62
rs75772839	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	10	31530534	T	C	3425	14.87	2.79	0.00	0.01	28.35
rs10824158	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	10	53915868	T	G	3425	9.77	1.73	0.00	0.01	32.05
rs4919341	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	10	101282501	T	A	3425	1.03	0.20	0.00	0.01	25.83
rs147968748	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	10	54704473	G	A	3425	4.52	0.95	0.00	0.01	22.66
rs78922116	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	11	25534610	T	C	3425	6.97	1.35	0.00	0.01	26.51
rs61759531	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	11	130773279	G	C	3425	2.63	0.59	0.00	0.01	19.91
rs12279408	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	11	84269972	T	C	3425	16.00	2.92	0.00	0.01	30.01
rs116916598	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	11	121746998	G	A	3425	19.07	3.41	0.00	0.01	31.31
rs10769706	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	11	6693054	A	T	3425	-0.91	0.21	0.00	0.01	19.62
rs189796120	%T cell CD28- CD8br ebi-a-GCST90001700	11	109281106	T	C	3425	4.47	0.76	0.00	0.01	34.30

rs117284243	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	11	122918979	T	A	3425	49.65	5.80	0.00	0.02	73.36
rs117173207	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	11	24544063	A	G	3425	18.77	3.34	0.00	0.01	31.53
rs1106305	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	11	12065087	T	C	3425	2.68	0.58	0.00	0.01	21.41
rs76552842	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	11	83433494	A	G	3425	49.64	5.56	0.00	0.02	79.75
rs147107195	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	12	48190275	T	C	3425	23.90	4.05	0.00	0.01	34.82
rs77113660	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	12	83249816	G	A	3425	52.91	5.64	0.00	0.03	87.96
rs117785622	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	12	132283582	T	G	3425	13.02	2.40	0.00	0.01	29.54
rs188074116	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	12	19311236	A	G	3425	22.71	4.72	0.00	0.01	23.11
rs73129374	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	12	77297125	A	G	3425	5.97	1.27	0.00	0.01	22.16
rs10505739	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	12	10043518	C	A	3425	18.81	3.39	0.00	0.01	30.72
rs139898536	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	12	109036912	T	A	3425	5.21	1.18	0.00	0.01	19.58
rs138410422	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	12	93329083	A	G	3425	28.99	5.95	0.00	0.01	23.69
rs146822590	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	12	130060949	T	A	3425	14.19	2.38	0.00	0.01	35.56
rs76337573	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	12	79703102	G	A	3425	5.37	1.03	0.00	0.01	27.28
rs59615051	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	13	114557883	C	T	3425	3.36	0.67	0.00	0.01	24.72
rs113007178	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	13	40914557	A	T	3425	7.79	1.75	0.00	0.01	19.81
rs77214871	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	13	84005540	T	A	3425	46.69	5.34	0.00	0.02	76.29
rs190658660	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	13	93311613	A	T	3425	6.82	1.50	0.00	0.01	20.54
rs76942041	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	13	24658539	A	G	3425	6.78	1.37	0.00	0.01	24.36
rs10492710	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	13	98908125	A	G	3425	5.64	1.21	0.00	0.01	21.86
rs141850210	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	14	54222912	A	G	3425	9.16	1.75	0.00	0.01	27.45
rs138547687	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	14	29258015	A	G	3425	11.19	2.45	0.00	0.01	20.81
rs183436787	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	14	41636680	T	C	3425	13.75	2.78	0.00	0.01	24.47
rs144275943	%T cell CD28- CD8br ebi-a-GCST90001700	14	34065832	G	T	3425	19.21	4.18	0.00	0.01	21.08

rs35068665	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	14	101798387	G	T	3425	53.41	5.65	0.00	0.03	89.31
rs72758450	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	15	69811049	C	T	3425	33.05	5.64	0.00	0.01	34.27
rs74828441	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	15	30132737	C	A	3425	3.98	0.87	0.00	0.01	20.79
rs1879612	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	15	99398708	C	T	3425	-0.67	0.15	0.00	0.01	20.87
rs80331554	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	15	59013643	G	A	3425	44.60	7.70	0.00	0.01	33.50
rs149908314	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	15	54344919	T	C	3425	8.63	1.92	0.00	0.01	20.23
rs8040007	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	15	101775026	C	G	3425	0.71	0.16	0.00	0.01	19.57
rs188087675	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	15	29114742	A	G	3425	7.21	1.52	0.00	0.01	22.62
rs147093663	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	15	81422902	T	G	3425	42.63	7.41	0.00	0.01	33.05
rs117038196	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	15	60603443	A	G	3425	11.96	2.67	0.00	0.01	20.13
rs141044525	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	16	1824187	T	C	3425	7.81	1.53	0.00	0.01	26.16
rs12596264	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	16	1058881	A	G	3425	7.35	1.53	0.00	0.01	22.95
rs77467380	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	16	78662086	T	C	3425	34.38	5.85	0.00	0.01	34.52
rs138937927	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	16	51095561	T	C	3425	23.94	3.91	0.00	0.01	37.54
rs4796089	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	17	33814758	C	T	3425	-1.05	0.22	0.00	0.01	22.09
rs138697156	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	17	29972138	G	A	3425	12.79	2.87	0.00	0.01	19.82
rs180697858	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	17	1649801	G	A	3425	9.44	2.03	0.00	0.01	21.58
rs138765259	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	17	47337653	G	T	3425	15.44	2.92	0.00	0.01	27.92
rs12450105	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	17	54427514	C	T	3425	6.58	1.42	0.00	0.01	21.31
rs138281296	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	17	22048470	A	C	3425	20.95	4.07	0.00	0.01	26.45
rs144104650	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	17	5023557	A	G	3425	15.28	3.08	0.00	0.01	24.60
rs112048022	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	17	20694000	G	T	3425	9.20	2.04	0.00	0.01	20.35
rs150885241	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	17	49002799	A	G	3425	31.10	3.92	0.00	0.02	62.78
rs142866937	%T cell CD28- CD8br ebi-a-GCST90001700	17	51002048	C	A	3425	4.27	0.95	0.00	0.01	20.17

rs150156077	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	18	4348487	G	A	3425	4.05	0.89	0.00	0.01	20.68
rs184040186	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	18	1699838	A	T	3425	10.18	2.08	0.00	0.01	23.92
rs113598754	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	18	9944924	G	A	3425	11.30	2.46	0.00	0.01	21.14
rs75438005	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	18	26017285	A	G	3425	38.95	5.70	0.00	0.01	46.75
rs116915023	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	18	62442252	T	C	3425	10.65	1.78	0.00	0.01	35.70
rs138766897	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	18	7853372	T	A	3425	4.99	0.98	0.00	0.01	25.88
rs79290306	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	19	2363095	A	G	3425	6.88	1.36	0.00	0.01	25.69
rs146650864	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	19	22454852	A	G	3425	9.12	1.76	0.00	0.01	26.94
rs59745713	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	19	34075835	A	G	3425	3.98	0.90	0.00	0.01	19.64
rs147572731	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	19	49416171	T	C	3425	14.48	3.00	0.00	0.01	23.27
rs191923221	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	19	18858754	A	G	3425	4.99	0.88	0.00	0.01	32.04
rs200198801	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	19	46387941	A	G	3425	8.76	1.86	0.00	0.01	22.23
rs118089863	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	19	24477916	T	C	3425	12.62	2.24	0.00	0.01	31.64
rs145410896	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	19	34111992	G	C	3425	5.40	1.05	0.00	0.01	26.59
rs449647	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	19	45408564	T	A	3425	0.85	0.18	0.00	0.01	22.27
rs61578886	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	20	898372	T	C	3425	28.15	6.05	0.00	0.01	21.67
rs147207602	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	20	41693849	A	G	3425	25.50	5.73	0.00	0.01	19.77
rs137942933	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	20	33104122	T	G	3425	23.37	3.15	0.00	0.02	54.87
rs17791728	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	20	17556587	C	T	3425	15.79	2.81	0.00	0.01	31.53
rs118180479	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	20	37027035	C	T	3425	11.65	2.36	0.00	0.01	24.44
rs75600477	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	20	40197928	G	T	3425	13.07	2.44	0.00	0.01	28.65
rs180972485	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	20	24457030	A	G	3425	12.36	2.21	0.00	0.01	31.40
rs41276984	CD45RA+ CD28- CD8br ebi-a-GCST90001700 %T cell	20	37580670	G	C	3425	15.14	2.25	0.00	0.01	45.09
rs7276763	%T cell CD28- CD8br ebi-a-GCST90001700	21	35824714	A	G	3425	2.65	0.54	0.00	0.01	24.01

rs62218442	CD45RA+ CD28- CD8br %T cell CD45RA+	ebi-a-GCST90001700	22	23072586	A	T	3425	15.67	2.86	0.00	0.01	29.96
rs132751	CD28- CD8br %T cell CD45RA+	ebi-a-GCST90001700	22	36610967	T	C	3425	11.84	2.18	0.00	0.01	29.53
rs8142081	CD28- CD8br %T cell	ebi-a-GCST90001700	22	25196811	A	G	3425	1.37	0.30	0.00	0.01	21.49
rs4664360	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	2	161569376	G	A	3592	-0.13	0.03	0.00	0.01	20.34
rs12630507	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	3	141650463	A	G	3592	-0.70	0.15	0.00	0.01	22.60
rs35744279	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	3	190520073	T	A	3592	0.28	0.05	0.00	0.01	26.57
rs72664998	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	8	69444614	G	A	3592	0.74	0.16	0.00	0.01	20.71
rs12311737	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	12	131958370	G	C	3592	0.15	0.03	0.00	0.01	21.67
rs1628296	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	12	123309183	T	C	3592	-0.33	0.07	0.00	0.01	19.69
rs4406935	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	13	106357764	A	C	3592	0.18	0.04	0.00	0.01	21.01
rs1780947	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	14	20326938	T	C	3592	0.33	0.07	0.00	0.01	22.25
rs111901500	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	14	48900270	T	C	3592	0.17	0.04	0.00	0.01	20.50
rs78083064	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	16	11821999	T	A	3592	1.95	0.44	0.00	0.01	20.05
rs117920411	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	16	16968389	A	C	3592	0.54	0.12	0.00	0.01	20.46
rs117783732	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	16	78797349	G	T	3592	-0.69	0.13	0.00	0.01	26.10
rs139785721	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	17	27211620	A	G	3592	0.52	0.12	0.00	0.01	20.02
rs117457546	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	19	8466710	T	C	3592	-0.36	0.08	0.00	0.01	19.73
rs191405504	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	22	41305796	T	A	3592	-0.27	0.06	0.00	0.01	22.87
rs73163382	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	22	42251917	C	G	3592	-0.25	0.05	0.00	0.01	21.08
rs185749756	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	22	39920299	G	A	3592	-0.64	0.13	0.00	0.01	22.76
rs73165129	BAFF-R on CD20- CD38-	ebi-a-GCST90001701	22	42315371	T	C	3592	-0.52	0.04	0.00	0.04	164.68
rs4657041	CD24+ CD27+ BAFF-R on	ebi-a-GCST90001702	1	161478859	C	T	3657	-0.14	0.03	0.00	0.01	28.10
rs6680891	CD24+ CD27+ BAFF-R on	ebi-a-GCST90001702	1	164083691	T	A	3657	0.14	0.03	0.00	0.01	20.74
rs2925323	CD24+ CD27+ BAFF-R on	ebi-a-GCST90001702	3	101658926	T	C	3657	-0.13	0.03	0.00	0.01	20.82
rs116470335	CD24+ CD27+ BAFF-R on	ebi-a-GCST90001702	4	24492147	A	G	3657	1.56	0.33	0.00	0.01	22.43
rs56020760	CD24+ CD27+ BAFF-R on	ebi-a-GCST90001702	10	72391681	T	C	3657	-0.24	0.05	0.00	0.01	20.99
rs116897208	CD24+ CD27+ BAFF-R on	ebi-a-GCST90001702	10	15100608	C	T	3657	-1.24	0.27	0.00	0.01	20.61
rs143106266	CD24+ CD27+ BAFF-R on	ebi-a-GCST90001702	13	29908421	A	C	3657	-1.20	0.25	0.00	0.01	23.55
rs1885397	CD24+ CD27+ BAFF-R on	ebi-a-GCST90001702	14	55233098	C	A	3657	-0.15	0.03	0.00	0.01	21.06
rs185794015	CD24+ CD27+	ebi-a-GCST90001702	22	44440180	C	T	3657	-0.40	0.08	0.00	0.01	26.36

rs117086217	BAFF-R on CD24+	ebi-a-GCST90001702	22	39876838	G	A	3657	-0.50	0.07	0.00	0.01	55.59
rs9614288	CD27+ BAFF-R on CD24+	ebi-a-GCST90001702	22	44297686	T	A	3657	-0.32	0.03	0.00	0.03	121.08
rs73165129	CD27+ BAFF-R on CD24+	ebi-a-GCST90001702	22	42315371	T	C	3657	-1.49	0.03	0.00	0.35	1937.43
rs5758649	CD27+ BAFF-R on CD24+	ebi-a-GCST90001702	22	42605548	T	C	3657	-0.61	0.04	0.00	0.05	188.33
rs146069723	CD27+ BAFF-R on CD24+	ebi-a-GCST90001702	22	43339331	T	C	3657	-0.57	0.05	0.00	0.04	144.55
rs187315152	CD27+ BAFF-R on CD24+	ebi-a-GCST90001702	22	41305795	T	A	3657	-0.51	0.06	0.00	0.02	77.10
rs528009599	CD27+ BAFF-R on CD24+	ebi-a-GCST90001702	22	40568020	A	G	3657	-1.08	0.12	0.00	0.02	76.61
rs13058590	CD27+ BAFF-R on CD24+	ebi-a-GCST90001702	22	39641412	T	C	3657	-0.37	0.06	0.00	0.01	39.77
rs149228586	CD27+ BAFF-R on CD24+	ebi-a-GCST90001702	22	41608058	T	C	3657	0.39	0.08	0.00	0.01	23.98
rs2142827	CD27+ BAFF-R on CD24+	ebi-a-GCST90001702	22	42874781	A	G	3657	-0.34	0.04	0.00	0.02	90.00
rs143944768	CD27+ BAFF-R on CD24+	ebi-a-GCST90001702	22	44378670	T	C	3657	-0.35	0.06	0.00	0.01	34.77
rs72658947	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	1	30372026	C	G	3657	-0.40	0.09	0.00	0.01	20.12
rs4657041	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	1	161478859	C	T	3657	-0.14	0.03	0.00	0.01	26.58
rs6680891	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	1	164083691	T	A	3657	0.14	0.03	0.00	0.01	20.24
rs74594247	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	1	147057319	A	G	3657	0.76	0.17	0.00	0.01	19.82
rs114318843	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	2	164755835	C	T	3657	-0.50	0.11	0.00	0.01	19.85
rs116470335	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	4	24492147	A	G	3657	1.54	0.33	0.00	0.01	21.98
rs56020760	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	10	72391681	T	C	3657	-0.24	0.05	0.00	0.01	21.74
rs143106266	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	13	29908421	A	C	3657	-1.16	0.25	0.00	0.01	21.80
rs1885397	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	14	55233098	C	A	3657	-0.14	0.03	0.00	0.01	20.08
rs75056525	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	22	43349884	A	G	3657	-0.56	0.05	0.00	0.04	137.48
rs2142827	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	22	42874781	A	G	3657	-0.33	0.04	0.00	0.02	82.76
rs189503542	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	22	44698304	A	T	3657	-0.63	0.11	0.00	0.01	33.72
rs117086217	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	22	39876838	G	A	3657	-0.51	0.07	0.00	0.02	57.39
rs5758649	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	22	42605548	T	C	3657	-0.59	0.04	0.00	0.05	173.15
rs73165129	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	22	42315371	T	C	3657	-1.49	0.03	0.00	0.34	1913.98
rs149228586	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	22	41608058	T	C	3657	0.38	0.08	0.00	0.01	23.31
rs5996232	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	22	43159810	T	C	3657	0.13	0.03	0.00	0.01	24.87
rs528009599	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	22	40568020	A	G	3657	-1.06	0.12	0.00	0.02	73.67
rs9614288	IgD+ CD24+ BAFF-R on CD24+	ebi-a-GCST90001703	22	44297686	T	A	3657	-0.31	0.03	0.00	0.03	112.97
rs1801274	IgD+ CD24-	ebi-a-GCST90001704	1	161479745	G	A	3657	-0.18	0.03	0.00	0.01	44.97

rs6680891	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	1	164083691	T	A	3657	0.14	0.03	0.00	0.01	21.16
rs149153670	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	2	142280835	C	T	3657	-0.53	0.12	0.00	0.01	19.82
rs2925323	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	3	101658926	T	C	3657	-0.13	0.03	0.00	0.01	22.08
rs116470335	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	4	24492147	A	G	3657	1.51	0.33	0.00	0.01	21.06
rs2939924	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	10	132491701	T	C	3657	0.12	0.03	0.00	0.01	19.59
rs4880914	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	10	1746219	G	A	3657	-0.14	0.03	0.00	0.01	19.83
rs1563991	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	11	37670518	T	G	3657	0.15	0.03	0.00	0.01	22.05
rs143106266	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	13	29908421	A	C	3657	-1.18	0.25	0.00	0.01	22.93
rs35754161	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	15	51655048	T	G	3657	-0.12	0.03	0.00	0.01	20.68
rs145868946	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	17	26045225	C	T	3657	-1.37	0.31	0.00	0.01	19.94
rs148563640	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	17	48145906	T	C	3657	0.40	0.09	0.00	0.01	21.96
rs76146864	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	22	40246055	T	C	3657	-0.73	0.08	0.00	0.02	87.97
rs5757678	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	22	39843409	T	C	3657	0.22	0.03	0.00	0.02	71.52
rs149806587	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	22	40774205	G	A	3657	-0.54	0.06	0.00	0.02	88.21
rs149398740	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	22	23924845	T	C	3657	-1.12	0.24	0.00	0.01	21.78
rs1894588	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	22	40629980	T	C	3657	-0.53	0.05	0.00	0.03	108.75
rs1081003	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	22	42525756	A	G	3657	-0.50	0.04	0.00	0.03	123.25
rs117705111	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	22	41957510	A	G	3657	-0.76	0.07	0.00	0.04	137.72
rs117430146	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	22	41998660	C	G	3657	0.32	0.06	0.00	0.01	32.25
rs5759079	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	22	43393437	A	G	3657	-0.43	0.04	0.00	0.04	142.25
rs73165129	BAFF-R on IgD+ CD24-	ebi-a-GCST90001704	22	42315371	T	C	3657	-1.51	0.03	0.00	0.36	2014.94
rs6680891	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	1	164083691	T	A	3645	0.14	0.03	0.00	0.01	20.84
rs1801274	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	1	161479745	G	A	3645	-0.13	0.03	0.00	0.01	24.21
rs2925323	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	3	101658926	T	C	3645	-0.13	0.03	0.00	0.01	20.84
rs116470335	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	4	24492147	A	G	3645	1.59	0.33	0.00	0.01	23.54
rs448333	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	6	97236851	C	T	3645	-0.15	0.03	0.00	0.01	20.24
rs190757416	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	6	45358923	G	A	3645	0.64	0.14	0.00	0.01	19.69
rs2519807	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	9	136826108	C	T	3645	-0.13	0.03	0.00	0.01	20.85
rs137911637	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	10	25305421	G	A	3645	0.33	0.07	0.00	0.01	20.53
rs56020760	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	10	72391681	T	C	3645	-0.23	0.05	0.00	0.01	19.73
rs2939924	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	10	132491701	T	C	3645	0.13	0.03	0.00	0.01	22.60
rs1563991	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	11	37670518	T	G	3645	0.14	0.03	0.00	0.01	20.12
rs143106266	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	13	29908421	A	C	3645	-1.16	0.25	0.00	0.01	22.30
rs2110699	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	14	89904438	A	G	3645	0.18	0.04	0.00	0.01	20.60
rs1894588	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	22	40629980	T	C	3645	-0.51	0.05	0.00	0.03	100.65
rs149806587	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	22	40774205	G	A	3645	-0.54	0.06	0.00	0.02	87.20
rs117430146	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	22	41998660	C	G	3645	0.31	0.06	0.00	0.01	32.00

rs76146864	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	22	40246055	T	C	3645	-0.69	0.08	0.00	0.02	79.63
rs117705111	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	22	41957510	A	G	3645	-0.74	0.07	0.00	0.03	128.17
rs1081003	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	22	42525756	A	G	3645	-0.54	0.04	0.00	0.04	146.31
rs5757678	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	22	39843409	T	C	3645	0.21	0.03	0.00	0.02	66.20
rs5759079	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	22	43393437	A	G	3645	-0.45	0.04	0.00	0.04	155.52
rs73165129	BAFF-R on IgD+ CD38-	ebi-a-GCST90001705	22	42315371	T	C	3645	-1.50	0.03	0.00	0.35	1960.22
rs2570487	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	2	104459443	A	T	1837	-0.64	0.14	0.00	0.01	20.18
rs59598877	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	2	196505282	G	T	1837	0.23	0.05	0.00	0.01	20.08
rs6804241	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	3	61516583	G	A	1837	-0.23	0.05	0.00	0.01	19.96
rs9815713	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	3	153568131	G	A	1837	0.24	0.05	0.00	0.01	21.44
rs10155189	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	4	38927396	C	T	1837	0.17	0.04	0.00	0.01	20.78
rs55846026	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	4	130179421	C	T	1837	0.32	0.07	0.00	0.01	19.97
rs57736830	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	5	168402085	G	C	1837	-0.23	0.05	0.00	0.01	24.84
rs1368364	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	5	146926845	G	C	1837	-0.15	0.03	0.00	0.01	20.21
rs17596501	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	5	1557372	A	G	1837	0.16	0.04	0.00	0.01	20.91
rs73451452	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	7	137804100	A	T	1837	0.46	0.09	0.00	0.01	24.39
rs115650989	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	8	145510474	A	G	1837	-0.48	0.10	0.00	0.01	22.73
rs75589560	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	8	129239338	G	C	1837	0.39	0.08	0.00	0.01	21.06
rs150624416	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	10	57677034	A	G	1837	0.45	0.10	0.00	0.01	20.00
rs11599977	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	11	38419307	A	G	1837	0.20	0.04	0.00	0.01	22.87
rs79451942	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	11	109330334	T	G	1837	-0.58	0.12	0.00	0.01	22.15
rs139758246	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	16	1227020	C	T	1837	-0.65	0.14	0.00	0.01	20.87
rs9896701	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	17	68048182	G	A	1837	0.16	0.04	0.00	0.01	19.79
rs7504122	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	18	10226551	T	C	1837	-0.18	0.04	0.00	0.01	20.04
rs35291683	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	21	42576275	A	G	1837	0.30	0.06	0.00	0.02	29.18
rs147730115	BAFF-R on IgD+ CD38-	ebi-a-GCST90001706	21	26858465	A	C	1837	1.12	0.24	0.00	0.01	21.00

rs6002543	BAFF-R on IgD+ CD38- naive	ebi-a-GCST90001706	22	42320547	G	C	1837	-1.52	0.05	0.00	0.37	1058.23
rs1894588	BAFF-R on IgD+ CD38- naive	ebi-a-GCST90001706	22	40629980	T	C	1837	-0.61	0.07	0.00	0.04	75.00
rs76146864	BAFF-R on IgD+ CD38- naive	ebi-a-GCST90001706	22	40246055	T	C	1837	-0.75	0.11	0.00	0.02	45.79
rs149806587	BAFF-R on IgD+ CD38- naive	ebi-a-GCST90001706	22	40774205	G	A	1837	-0.50	0.08	0.00	0.02	39.97
rs117705111	BAFF-R on IgD+ CD38- naive	ebi-a-GCST90001706	22	41957510	A	G	1837	-0.71	0.09	0.00	0.03	60.39
rs5757678	BAFF-R on IgD+ CD38- naive	ebi-a-GCST90001706	22	39843409	T	C	1837	0.23	0.04	0.00	0.02	40.19
rs117430146	BAFF-R on IgD+ CD38- naive	ebi-a-GCST90001706	22	41998660	C	G	1837	0.36	0.08	0.00	0.01	19.62
rs1081003	BAFF-R on IgD+ CD38- naive	ebi-a-GCST90001706	22	42525756	A	G	1837	-0.52	0.06	0.00	0.04	75.21
rs2018340	BAFF-R on IgD+ CD38- naive	ebi-a-GCST90001706	22	43390319	A	G	1837	-0.47	0.05	0.00	0.05	89.81
rs4689407	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	4	6341740	G	T	1837	-0.17	0.04	0.00	0.01	19.92
rs57736830	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	5	168402085	G	C	1837	-0.24	0.05	0.00	0.01	26.48
rs73451452	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	7	137804100	A	T	1837	0.42	0.09	0.00	0.01	20.00
rs115650989	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	8	145510474	A	G	1837	-0.50	0.10	0.00	0.01	25.52
rs79451942	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	11	109330334	T	G	1837	-0.59	0.12	0.00	0.01	22.63
rs80241990	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	11	3250248	C	A	1837	-0.37	0.08	0.00	0.01	20.78
rs11599977	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	11	38419307	A	G	1837	0.22	0.04	0.00	0.01	27.57
rs117397694	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	12	5565515	A	C	1837	-0.61	0.13	0.00	0.01	23.59
rs113973452	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	14	100402055	A	G	1837	-1.37	0.31	0.00	0.01	19.75
rs7504122	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	18	10226551	T	C	1837	-0.19	0.04	0.00	0.01	22.25
rs35291683	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	21	42576275	A	G	1837	0.26	0.06	0.00	0.01	21.75
rs147730115	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	21	26858465	A	C	1837	1.11	0.24	0.00	0.01	20.37
rs139290596	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	22	44349795	G	A	1837	-0.46	0.08	0.00	0.02	33.49
rs5758649	BAFF-R on IgD+ CD38- unsw mem	ebi-a-GCST90001707	22	42605548	T	C	1837	-0.62	0.06	0.00	0.06	108.34
rs113530150	unsw mem IgD+ CD38-	ebi-a-GCST90001707	22	40567196	T	C	1837	-0.40	0.06	0.00	0.02	38.07

rs146069723	BAFF-R on IgD+ CD38- unsw mem BAFF-R on	ebi-a-GCST90001707	22	43339331	T	C	1837	-0.56	0.06	0.00	0.04	75.76
rs150612106	IgD+ CD38- unsw mem BAFF-R on	ebi-a-GCST90001707	22	40175781	A	G	1837	-0.70	0.11	0.00	0.02	39.36
rs73165129	IgD+ CD38- unsw mem BAFF-R on	ebi-a-GCST90001707	22	42315371	T	C	1837	-1.50	0.05	0.00	0.35	992.86
rs11090614	IgD+ CD38- unsw mem BAFF-R on	ebi-a-GCST90001707	22	44300847	G	A	1837	-0.30	0.04	0.00	0.03	61.18
rs187315152	IgD+ CD38- unsw mem BAFF-R on	ebi-a-GCST90001707	22	41305795	T	A	1837	-0.52	0.08	0.00	0.02	39.60
rs117826659	IgD+ CD38- unsw mem BAFF-R on	ebi-a-GCST90001707	22	39919408	A	G	1837	-0.98	0.21	0.00	0.01	22.75
rs74594247	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	1	147057319	A	G	3656	0.78	0.17	0.00	0.01	20.93
rs4657041	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	1	161478859	C	T	3656	-0.15	0.03	0.00	0.01	31.71
rs72658947	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	1	30372026	C	G	3656	-0.43	0.09	0.00	0.01	22.52
rs114318843	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	2	164755835	C	T	3656	-0.52	0.11	0.00	0.01	21.66
rs141130967	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	3	101706582	G	T	3656	-0.32	0.07	0.00	0.01	24.78
rs116023377	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	4	18858102	C	G	3656	-0.70	0.16	0.00	0.01	19.99
rs35631270	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	4	80524348	G	A	3656	-0.15	0.03	0.00	0.01	20.57
rs34006338	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	7	45957318	A	G	3656	-0.89	0.20	0.00	0.01	20.26
rs11761810	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	7	152779596	A	C	3656	0.11	0.03	0.00	0.01	19.78
rs10273088	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	7	13005993	G	A	3656	-0.21	0.05	0.00	0.01	19.64
rs116897208	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	10	15100608	C	T	3656	-1.26	0.27	0.00	0.01	21.42
rs72805400	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	10	77064133	C	G	3656	0.22	0.05	0.00	0.01	20.15
rs1563991	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	11	37670518	T	G	3656	0.14	0.03	0.00	0.01	19.57
rs143106266	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	13	29908421	A	C	3656	-1.14	0.25	0.00	0.01	20.92
rs72686437	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	14	22596030	A	G	3656	0.20	0.04	0.00	0.01	23.49
rs16957279	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	15	33954227	G	A	3656	0.12	0.03	0.00	0.01	21.15
rs148563640	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	17	48145906	T	C	3656	0.44	0.09	0.00	0.01	26.82
rs117499379	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	18	4343023	C	T	3656	0.24	0.05	0.00	0.01	23.03
rs5757678	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	22	39843409	T	C	3656	0.22	0.03	0.00	0.02	74.75
rs5759079	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	22	43393437	A	G	3656	-0.43	0.04	0.00	0.04	140.91
rs117430146	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	22	41998660	C	G	3656	0.34	0.06	0.00	0.01	37.15
rs73165129	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	22	42315371	T	C	3656	-1.44	0.03	0.00	0.32	1745.82
rs1894588	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	22	40629980	T	C	3656	-0.51	0.05	0.00	0.03	100.85
rs149806587	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	22	40774205	G	A	3656	-0.48	0.06	0.00	0.02	70.23
rs76146864	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	22	40246055	T	C	3656	-0.70	0.08	0.00	0.02	80.82
rs117705111	IgD+ CD38br BAFF-R on	ebi-a-GCST90001708	22	41957510	A	G	3656	-0.74	0.07	0.00	0.03	127.97
rs1081003	IgD+ CD38br	ebi-a-GCST90001708	22	42525756	A	G	3656	-0.49	0.04	0.00	0.03	120.32

rs6680891	BAFF-R on IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	1	164083691	T	A	3657	0.14	0.03	0.00	0.01	19.71
rs1801274	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	1	161479745	G	A	3657	-0.18	0.03	0.00	0.01	42.90
rs72658947	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	1	30372026	C	G	3657	-0.43	0.09	0.00	0.01	22.54
rs9434824	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	1	7137637	G	A	3657	0.13	0.03	0.00	0.01	19.79
rs2925323	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	3	101658926	T	C	3657	-0.13	0.03	0.00	0.01	22.02
rs148695055	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	4	137058391	A	G	3657	1.89	0.42	0.00	0.01	20.15
rs116470335	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	4	24492147	A	G	3657	1.51	0.33	0.00	0.01	21.18
rs73737980	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	6	33025017	C	T	3657	0.54	0.12	0.00	0.01	20.07
rs12535011	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	7	33667945	C	T	3657	0.79	0.18	0.00	0.01	19.93
rs1563991	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	11	37670518	T	G	3657	0.15	0.03	0.00	0.01	23.10
rs144136349	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	13	34499243	T	C	3657	2.59	0.57	0.00	0.01	20.67
rs143106266	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	13	29908421	A	C	3657	-1.23	0.25	0.00	0.01	24.70
rs35754161	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	15	51655048	T	G	3657	-0.11	0.03	0.00	0.01	19.89
rs148563640	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	17	48145906	T	C	3657	0.40	0.09	0.00	0.01	21.41
rs6079871	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	20	15504410	T	C	3657	-0.24	0.05	0.00	0.01	22.35
rs149398740	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	22	23924845	T	C	3657	-1.08	0.24	0.00	0.01	20.25
rs117430146	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	22	41998660	C	G	3657	0.33	0.06	0.00	0.01	34.91
rs1894588	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	22	40629980	T	C	3657	-0.53	0.05	0.00	0.03	108.09
rs76146864	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	22	40246055	T	C	3657	-0.71	0.08	0.00	0.02	84.56
rs149806587	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	22	40774205	G	A	3657	-0.52	0.06	0.00	0.02	82.78
rs5759079	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	22	43393437	A	G	3657	-0.44	0.04	0.00	0.04	146.17
rs5757678	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	22	39843409	T	C	3657	0.22	0.03	0.00	0.02	71.01
rs117705111	IgD+ CD38dim BAFF-R on	ebi-a-GCST90001709	22	41957510	A	G	3657	-0.75	0.07	0.00	0.04	132.87
rs73165129	IgD+ CD38dim	ebi-a-GCST90001709	22	42315371	T	C	3657	-1.52	0.03	0.00	0.36	2037.04

rs1081003	BAFF-R on IgD+ CD38dim	ebi-a-GCST90001709	22	42525756	A	G	3657	-0.50	0.04	0.00	0.03	125.84
rs6680891	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	1	164083691	T	A	3657	0.14	0.03	0.00	0.01	20.44
rs4657041	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	1	161478859	C	T	3657	-0.15	0.03	0.00	0.01	30.17
rs10169360	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	2	5558511	A	G	3657	-0.58	0.13	0.00	0.01	20.38
rs9869373	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	3	101645001	T	C	3657	-0.13	0.03	0.00	0.01	20.71
rs7684683	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	4	80423021	T	G	3657	-0.15	0.03	0.00	0.01	21.38
rs2939924	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	10	132491701	T	C	3657	0.12	0.03	0.00	0.01	21.56
rs2861184	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	11	38422885	T	C	3657	0.15	0.03	0.00	0.01	19.99
rs143106266	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	13	29908421	A	C	3657	-1.25	0.25	0.00	0.01	25.62
rs4467081	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	16	25853127	G	A	3657	-0.12	0.03	0.00	0.01	20.65
rs11083093	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	18	22393283	A	G	3657	-0.46	0.10	0.00	0.01	19.82
rs528009599	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	40568020	A	G	3657	-1.01	0.12	0.00	0.02	67.05
rs5750432	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	22402940	T	C	3657	-0.19	0.04	0.00	0.01	19.93
rs73165129	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	42315371	T	C	3657	-1.43	0.03	0.00	0.32	1706.94
rs9614288	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	44297686	T	A	3657	-0.29	0.03	0.00	0.03	97.15
rs146069723	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	43339331	T	C	3657	-0.58	0.05	0.00	0.04	147.32
rs113530150	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	40567196	T	C	3657	-0.37	0.05	0.00	0.02	57.26
rs142780018	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	44395926	A	G	3657	-0.32	0.06	0.00	0.01	30.57
rs149398740	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	23924845	T	C	3657	-1.13	0.24	0.00	0.01	22.20
rs150612106	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	40175781	A	G	3657	-0.73	0.08	0.00	0.02	86.15
rs6000850	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	38032090	C	T	3657	0.47	0.09	0.00	0.01	26.31
rs13058590	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	39641412	T	C	3657	-0.36	0.06	0.00	0.01	36.04
rs9622984	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	39659460	A	G	3657	-0.19	0.04	0.00	0.01	22.29
rs5758649	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	42605548	T	C	3657	-0.60	0.04	0.00	0.05	180.07
rs191405504	BAFF-R on IgD- CD24-	ebi-a-GCST90001710	22	41305796	T	A	3657	-0.53	0.06	0.00	0.02	83.07
rs4657041	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	1	161478859	C	T	3657	-0.15	0.03	0.00	0.01	31.34
rs72780844	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	2	15727913	G	A	3657	-1.71	0.38	0.00	0.01	20.17
rs2925323	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	3	101658926	T	C	3657	-0.13	0.03	0.00	0.01	21.99
rs2789845	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	9	136799915	T	C	3657	-0.21	0.05	0.00	0.01	20.44
rs2939924	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	10	132491701	T	C	3657	0.13	0.03	0.00	0.01	25.35
rs2861184	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	11	38422885	T	C	3657	0.15	0.03	0.00	0.01	19.91
rs143106266	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	13	29908421	A	C	3657	-1.25	0.25	0.00	0.01	25.89
rs2110699	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	14	89904438	A	G	3657	0.18	0.04	0.00	0.01	20.48
rs145423893	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	15	28254280	C	T	3657	-0.82	0.17	0.00	0.01	23.20
rs142780018	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	22	44395926	A	G	3657	-0.33	0.06	0.00	0.01	32.01
rs528009599	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	22	40568020	A	G	3657	-0.96	0.12	0.00	0.02	61.91

rs191405504	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	22	41305796	T	A	3657	-0.53	0.06	0.00	0.02	83.37
rs73165129	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	22	42315371	T	C	3657	-1.44	0.03	0.00	0.33	1760.15
rs13058590	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	22	39641412	T	C	3657	-0.38	0.06	0.00	0.01	41.48
rs146069723	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	22	43339331	T	C	3657	-0.56	0.05	0.00	0.04	140.93
rs5758649	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	22	42605548	T	C	3657	-0.58	0.04	0.00	0.04	167.50
rs9614288	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	22	44297686	T	A	3657	-0.29	0.03	0.00	0.03	97.96
rs6000850	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	22	38032090	C	T	3657	0.49	0.09	0.00	0.01	28.71
rs113530150	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	22	40567196	T	C	3657	-0.38	0.05	0.00	0.02	59.68
rs150612106	BAFF-R on IgD- CD27-	ebi-a-GCST90001711	22	40175781	A	G	3657	-0.73	0.08	0.00	0.02	86.50
rs4657041	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	1	161478859	C	T	3657	-0.14	0.03	0.00	0.01	26.76
rs116470335	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	4	24492147	A	G	3657	1.52	0.33	0.00	0.01	21.29
rs62567851	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	9	115279319	A	G	3657	0.60	0.14	0.00	0.01	19.76
rs56020760	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	10	72391681	T	C	3657	-0.24	0.05	0.00	0.01	20.29
rs118159778	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	10	15099583	T	C	3657	-1.35	0.30	0.00	0.01	20.51
rs61879160	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	11	622044	T	C	3657	0.17	0.04	0.00	0.01	19.67
rs76400748	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	11	131814009	A	G	3657	0.38	0.08	0.00	0.01	19.94
rs143106266	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	13	29908421	A	C	3657	-1.24	0.25	0.00	0.01	25.27
rs2110699	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	14	89904438	A	G	3657	0.18	0.04	0.00	0.01	19.92
rs2142827	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	22	42874781	A	G	3657	-0.36	0.04	0.00	0.03	99.39
rs73165129	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	22	42315371	T	C	3657	-1.46	0.03	0.00	0.33	1830.36
rs17032	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	22	39130843	G	C	3657	0.14	0.03	0.00	0.01	29.55
rs5758649	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	22	42605548	T	C	3657	-0.66	0.04	0.00	0.06	222.16
rs528009599	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	22	40568020	A	G	3657	-1.10	0.12	0.00	0.02	80.74
rs75056525	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	22	43349884	A	G	3657	-0.62	0.05	0.00	0.04	170.47
rs117086217	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	22	39876838	G	A	3657	-0.49	0.07	0.00	0.01	53.16
rs142780018	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	22	44395926	A	G	3657	-0.33	0.06	0.00	0.01	32.27
rs9614288	BAFF-R on IgD- CD38-	ebi-a-GCST90001712	22	44297686	T	A	3657	-0.31	0.03	0.00	0.03	115.95
rs2479085	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	1	15667443	C	T	3659	-0.18	0.04	0.00	0.01	22.13
rs643428	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	1	54728858	T	C	3659	0.11	0.02	0.00	0.01	20.27
rs17828306	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	4	62162828	G	A	3659	0.13	0.03	0.00	0.01	22.32
rs10071113	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	5	178512644	A	G	3659	0.19	0.04	0.00	0.01	19.74
rs73269620	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	7	13273064	C	T	3659	-0.12	0.03	0.00	0.01	22.91
rs147645513	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	7	32376606	T	C	3659	-0.44	0.10	0.00	0.01	20.85
rs66717547	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	8	122963696	A	G	3659	0.51	0.11	0.00	0.01	20.81
rs79868028	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	10	133645848	A	G	3659	0.19	0.04	0.00	0.01	19.87
rs17878304	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	19	4956161	T	C	3659	-0.31	0.07	0.00	0.01	20.90
rs561920	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	20	922125	C	T	3659	0.14	0.03	0.00	0.01	21.11

rs146069723	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	22	43339331	T	C	3659	-0.23	0.05	0.00	0.01	24.21
rs139784925	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	22	41079533	T	C	3659	-0.26	0.05	0.00	0.01	21.72
rs4822134	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	22	42867332	C	T	3659	0.15	0.03	0.00	0.01	33.74
rs149192849	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	22	42270864	C	T	3659	-0.31	0.05	0.00	0.01	32.39
rs73165129	BAFF-R on IgD- CD38br	ebi-a-GCST90001713	22	42315371	T	C	3659	-0.53	0.04	0.00	0.04	169.97
rs4657041	IgD- CD38dim BAFF-R on	ebi-a-GCST90001714	1	161478859	C	T	3657	-0.17	0.03	0.00	0.01	41.49
rs9434824	IgD- CD38dim BAFF-R on	ebi-a-GCST90001714	1	7137637	G	A	3657	0.13	0.03	0.00	0.01	20.04
rs2925323	IgD- CD38dim BAFF-R on	ebi-a-GCST90001714	3	101658926	T	C	3657	-0.13	0.03	0.00	0.01	20.02
rs116470335	IgD- CD38dim BAFF-R on	ebi-a-GCST90001714	4	24492147	A	G	3657	1.51	0.33	0.00	0.01	20.91
rs1801274	memory B BAFF-R on	ebi-a-GCST90001715	1	161479745	G	A	3657	-0.14	0.03	0.00	0.01	27.82
rs72658947	memory B BAFF-R on	ebi-a-GCST90001715	1	30372026	C	G	3657	-0.40	0.09	0.00	0.01	19.79
rs6680891	memory B BAFF-R on	ebi-a-GCST90001715	1	164083691	T	A	3657	0.14	0.03	0.00	0.01	21.01
rs2925323	memory B BAFF-R on	ebi-a-GCST90001715	3	101658926	T	C	3657	-0.13	0.03	0.00	0.01	20.62
rs116470335	memory B BAFF-R on	ebi-a-GCST90001715	4	24492147	A	G	3657	1.62	0.33	0.00	0.01	24.22
rs56020760	memory B BAFF-R on	ebi-a-GCST90001715	10	72391681	T	C	3657	-0.24	0.05	0.00	0.01	21.26
rs143106266	memory B BAFF-R on	ebi-a-GCST90001715	13	29908421	A	C	3657	-1.22	0.25	0.00	0.01	24.42
rs13058590	memory B BAFF-R on	ebi-a-GCST90001715	22	39641412	T	C	3657	-0.37	0.06	0.00	0.01	38.35
rs187315152	memory B BAFF-R on	ebi-a-GCST90001715	22	41305795	T	A	3657	-0.52	0.06	0.00	0.02	78.46
rs146069723	memory B BAFF-R on	ebi-a-GCST90001715	22	43339331	T	C	3657	-0.57	0.05	0.00	0.04	142.48
rs189503542	memory B BAFF-R on	ebi-a-GCST90001715	22	44698304	A	T	3657	-0.65	0.11	0.00	0.01	35.40
rs528009599	memory B BAFF-R on	ebi-a-GCST90001715	22	40568020	A	G	3657	-1.08	0.12	0.00	0.02	76.59
rs117086217	memory B BAFF-R on	ebi-a-GCST90001715	22	39876838	G	A	3657	-0.51	0.07	0.00	0.02	57.00
rs149228586	memory B BAFF-R on	ebi-a-GCST90001715	22	41608058	T	C	3657	0.39	0.08	0.00	0.01	24.55
rs73165129	memory B BAFF-R on	ebi-a-GCST90001715	22	42315371	T	C	3657	-1.49	0.03	0.00	0.35	1925.61
rs5758649	memory B BAFF-R on	ebi-a-GCST90001715	22	42605548	T	C	3657	-0.60	0.04	0.00	0.05	180.39
rs2142827	memory B BAFF-R on	ebi-a-GCST90001715	22	42874781	A	G	3657	-0.34	0.04	0.00	0.02	87.78
rs9614288	memory B BAFF-R on	ebi-a-GCST90001715	22	44297686	T	A	3657	-0.31	0.03	0.00	0.03	114.60
rs6680891	naive-mature B cell BAFF-R on	ebi-a-GCST90001716	1	164083691	T	A	3657	0.14	0.03	0.00	0.01	22.40
rs1801274	naive-mature B cell BAFF-R on	ebi-a-GCST90001716	1	161479745	G	A	3657	-0.19	0.03	0.00	0.01	47.88
rs72658947	naive-mature B cell BAFF-R on	ebi-a-GCST90001716	1	30372026	C	G	3657	-0.41	0.09	0.00	0.01	21.01
rs149153670	naive-mature B cell BAFF-R on	ebi-a-GCST90001716	2	142280835	C	T	3657	-0.54	0.12	0.00	0.01	20.13
rs2925323	naive-mature B cell	ebi-a-GCST90001716	3	101658926	T	C	3657	-0.13	0.03	0.00	0.01	21.00

rs116470335	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	4	24492147	A	G	3657	1.50	0.33	0.00	0.01	20.73
rs12529650	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	6	1751206	T	G	3657	0.12	0.03	0.00	0.01	20.38
rs56020760	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	10	72391681	T	C	3657	-0.23	0.05	0.00	0.01	19.69
rs1563991	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	11	37670518	T	G	3657	0.15	0.03	0.00	0.01	22.43
rs143106266	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	13	29908421	A	C	3657	-1.20	0.25	0.00	0.01	23.36
rs35226928	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	14	33787067	A	C	3657	0.51	0.11	0.00	0.01	19.65
rs148563640	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	17	48145906	T	C	3657	0.39	0.09	0.00	0.01	21.11
rs116674320	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	19	33884065	A	G	3657	0.25	0.06	0.00	0.01	20.14
rs149398740	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	22	23924845	T	C	3657	-1.11	0.24	0.00	0.01	21.45
rs1081003	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	22	42525756	A	G	3657	-0.50	0.04	0.00	0.03	125.33
rs76146864	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	22	40246055	T	C	3657	-0.73	0.08	0.00	0.02	87.01
rs1894588	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	22	40629980	T	C	3657	-0.52	0.05	0.00	0.03	104.77
rs117430146	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	22	41998660	C	G	3657	0.31	0.06	0.00	0.01	29.93
rs149806587	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	22	40774205	G	A	3657	-0.52	0.06	0.00	0.02	83.34
rs117705111	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	22	41957510	A	G	3657	-0.75	0.07	0.00	0.04	133.51
rs5759079	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	22	43393437	A	G	3657	-0.43	0.04	0.00	0.04	144.27
rs5757678	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	22	39843409	T	C	3657	0.22	0.03	0.00	0.02	69.26
rs73165129	BAFF-R on naive-mature B cell	ebi-a-GCST90001716	22	42315371	T	C	3657	-1.50	0.03	0.00	0.35	1961.42
rs1436776	BAFF-R on unsw mem	ebi-a-GCST90001717	1	216235074	T	C	3657	0.11	0.03	0.00	0.01	19.75
rs4657041	BAFF-R on unsw mem	ebi-a-GCST90001717	1	161478859	C	T	3657	-0.13	0.03	0.00	0.01	23.65
rs6680891	BAFF-R on unsw mem	ebi-a-GCST90001717	1	164083691	T	A	3657	0.14	0.03	0.00	0.01	19.93
rs113510401	BAFF-R on unsw mem	ebi-a-GCST90001717	2	51662218	T	C	3657	0.51	0.11	0.00	0.01	20.61
rs2925323	BAFF-R on unsw mem	ebi-a-GCST90001717	3	101658926	T	C	3657	-0.13	0.03	0.00	0.01	20.83
rs116470335	BAFF-R on unsw mem	ebi-a-GCST90001717	4	24492147	A	G	3657	1.57	0.33	0.00	0.01	22.67
rs190757416	BAFF-R on unsw mem	ebi-a-GCST90001717	6	45358923	G	A	3657	0.66	0.14	0.00	0.01	20.46
rs56020760	BAFF-R on unsw mem	ebi-a-GCST90001717	10	72391681	T	C	3657	-0.24	0.05	0.00	0.01	20.44
rs116897208	BAFF-R on unsw mem	ebi-a-GCST90001717	10	15100608	C	T	3657	-1.23	0.27	0.00	0.01	20.35
rs74643433	BAFF-R on unsw mem	ebi-a-GCST90001717	11	109385593	T	C	3657	-0.38	0.09	0.00	0.01	19.65

rs143106266	BAFF-R on unsw mem	ebi-a-GCST90001717	13	29908421	A	C	3657	-1.15	0.25	0.00	0.01	21.59
rs2110699	BAFF-R on unsw mem	ebi-a-GCST90001717	14	89904438	A	G	3657	0.18	0.04	0.00	0.01	19.60
rs1885397	BAFF-R on unsw mem	ebi-a-GCST90001717	14	55233098	C	A	3657	-0.15	0.03	0.00	0.01	22.41
rs141410339	BAFF-R on unsw mem	ebi-a-GCST90001717	21	40298978	A	G	3657	1.58	0.35	0.00	0.01	19.80
rs187315152	BAFF-R on unsw mem	ebi-a-GCST90001717	22	41305795	T	A	3657	-0.51	0.06	0.00	0.02	77.38
rs149228586	BAFF-R on unsw mem	ebi-a-GCST90001717	22	41608058	T	C	3657	0.38	0.08	0.00	0.01	22.86
rs5758649	BAFF-R on unsw mem	ebi-a-GCST90001717	22	42605548	T	C	3657	-0.60	0.04	0.00	0.05	180.49
rs146069723	BAFF-R on unsw mem	ebi-a-GCST90001717	22	43339331	T	C	3657	-0.56	0.05	0.00	0.04	138.96
rs13058590	BAFF-R on unsw mem	ebi-a-GCST90001717	22	39641412	T	C	3657	-0.38	0.06	0.00	0.01	42.23
rs73165129	BAFF-R on unsw mem	ebi-a-GCST90001717	22	42315371	T	C	3657	-1.49	0.03	0.00	0.35	1949.21
rs2142827	BAFF-R on unsw mem	ebi-a-GCST90001717	22	42874781	A	G	3657	-0.33	0.04	0.00	0.02	84.63
rs528009599	BAFF-R on unsw mem	ebi-a-GCST90001717	22	40568020	A	G	3657	-1.07	0.12	0.00	0.02	75.31
rs9614288	BAFF-R on unsw mem	ebi-a-GCST90001717	22	44297686	T	A	3657	-0.31	0.03	0.00	0.03	115.19
rs189503542	BAFF-R on unsw mem	ebi-a-GCST90001717	22	44698304	A	T	3657	-0.64	0.11	0.00	0.01	34.72
rs117086217	BAFF-R on unsw mem	ebi-a-GCST90001717	22	39876838	G	A	3657	-0.50	0.07	0.00	0.01	55.41
rs4657041	BAFF-R on sw mem	ebi-a-GCST90001718	1	161478859	C	T	3657	-0.15	0.03	0.00	0.01	31.67
rs9869373	BAFF-R on sw mem	ebi-a-GCST90001718	3	101645001	T	C	3657	-0.13	0.03	0.00	0.01	21.18
rs116470335	BAFF-R on sw mem	ebi-a-GCST90001718	4	24492147	A	G	3657	1.48	0.33	0.00	0.01	20.19
rs10243011	BAFF-R on sw mem	ebi-a-GCST90001718	7	121282913	C	T	3657	0.17	0.04	0.00	0.01	19.80
rs116897208	BAFF-R on sw mem	ebi-a-GCST90001718	10	15100608	C	T	3657	-1.21	0.27	0.00	0.01	19.64
rs76400748	BAFF-R on sw mem	ebi-a-GCST90001718	11	131814009	A	G	3657	0.38	0.09	0.00	0.01	20.10
rs143106266	BAFF-R on sw mem	ebi-a-GCST90001718	13	29908421	A	C	3657	-1.22	0.25	0.00	0.01	24.46
rs2142827	BAFF-R on sw mem	ebi-a-GCST90001718	22	42874781	A	G	3657	-0.35	0.04	0.00	0.03	95.97
rs143944768	BAFF-R on sw mem	ebi-a-GCST90001718	22	44378670	T	C	3657	-0.33	0.06	0.00	0.01	32.31
rs149228586	BAFF-R on sw mem	ebi-a-GCST90001718	22	41608058	T	C	3657	0.39	0.08	0.00	0.01	24.48
rs9614288	BAFF-R on sw mem	ebi-a-GCST90001718	22	44297686	T	A	3657	-0.31	0.03	0.00	0.03	112.30
rs5758649	BAFF-R on sw mem	ebi-a-GCST90001718	22	42605548	T	C	3657	-0.64	0.04	0.00	0.05	203.99
rs146069723	BAFF-R on sw mem	ebi-a-GCST90001718	22	43339331	T	C	3657	-0.59	0.05	0.00	0.04	153.30
rs117086217	BAFF-R on sw mem	ebi-a-GCST90001718	22	39876838	G	A	3657	-0.49	0.07	0.00	0.01	52.85
rs528009599	BAFF-R on sw mem	ebi-a-GCST90001718	22	40568020	A	G	3657	-1.09	0.12	0.00	0.02	77.91
rs187315152	BAFF-R on sw mem	ebi-a-GCST90001718	22	41305795	T	A	3657	-0.51	0.06	0.00	0.02	76.59
rs73165129	BAFF-R on sw mem	ebi-a-GCST90001718	22	42315371	T	C	3657	-1.47	0.03	0.00	0.33	1828.95
rs149398740	BAFF-R on sw mem	ebi-a-GCST90001718	22	23924845	T	C	3657	-1.08	0.24	0.00	0.01	20.11
rs185794015	BAFF-R on sw mem	ebi-a-GCST90001718	22	44440180	C	T	3657	-0.39	0.08	0.00	0.01	25.22
rs13058590	BAFF-R on sw mem	ebi-a-GCST90001718	22	39641412	T	C	3657	-0.37	0.06	0.00	0.01	38.31
rs6666916	BAFF-R on IgD+	ebi-a-GCST90001719	1	86007429	T	C	3658	0.29	0.07	0.00	0.01	20.01
rs72658947	BAFF-R on IgD+	ebi-a-GCST90001719	1	30372026	C	G	3658	-0.40	0.09	0.00	0.01	20.18

rs6680891	BAFF-R on IgD+	ebi-a-GCST90001719	1	164083691	T	A	3658	0.14	0.03	0.00	0.01	21.33
rs1801274	BAFF-R on IgD+	ebi-a-GCST90001719	1	161479745	G	A	3658	-0.17	0.03	0.00	0.01	39.52
rs114318843	BAFF-R on IgD+	ebi-a-GCST90001719	2	164755835	C	T	3658	-0.50	0.11	0.00	0.01	20.05
rs149153670	BAFF-R on IgD+	ebi-a-GCST90001719	2	142280835	C	T	3658	-0.54	0.12	0.00	0.01	20.56
rs2925323	BAFF-R on IgD+	ebi-a-GCST90001719	3	101658926	T	C	3658	-0.13	0.03	0.00	0.01	21.85
rs116470335	BAFF-R on IgD+	ebi-a-GCST90001719	4	24492147	A	G	3658	1.49	0.33	0.00	0.01	20.51
rs1563991	BAFF-R on IgD+	ebi-a-GCST90001719	11	37670518	T	G	3658	0.15	0.03	0.00	0.01	22.00
rs143106266	BAFF-R on IgD+	ebi-a-GCST90001719	13	29908421	A	C	3658	-1.18	0.25	0.00	0.01	22.60
rs1609762	BAFF-R on IgD+	ebi-a-GCST90001719	14	33787438	T	C	3658	0.11	0.02	0.00	0.01	20.84
rs1885397	BAFF-R on IgD+	ebi-a-GCST90001719	14	55233098	C	A	3658	-0.14	0.03	0.00	0.01	20.06
rs35754161	BAFF-R on IgD+	ebi-a-GCST90001719	15	51655048	T	G	3658	-0.11	0.03	0.00	0.01	19.55
rs148563640	BAFF-R on IgD+	ebi-a-GCST90001719	17	48145906	T	C	3658	0.39	0.09	0.00	0.01	20.86
rs76146864	BAFF-R on IgD+	ebi-a-GCST90001719	22	40246055	T	C	3658	-0.71	0.08	0.00	0.02	83.29
rs5757678	BAFF-R on IgD+	ebi-a-GCST90001719	22	39843409	T	C	3658	0.22	0.03	0.00	0.02	70.81
rs73165129	BAFF-R on IgD+	ebi-a-GCST90001719	22	42315371	T	C	3658	-1.51	0.03	0.00	0.35	2003.65
rs1894588	BAFF-R on IgD+	ebi-a-GCST90001719	22	40629980	T	C	3658	-0.52	0.05	0.00	0.03	105.62
rs1081003	BAFF-R on IgD+	ebi-a-GCST90001719	22	42525756	A	G	3658	-0.51	0.04	0.00	0.03	131.51
rs117705111	BAFF-R on IgD+	ebi-a-GCST90001719	22	41957510	A	G	3658	-0.75	0.07	0.00	0.04	132.62
rs117430146	BAFF-R on IgD+	ebi-a-GCST90001719	22	41998660	C	G	3658	0.31	0.06	0.00	0.01	31.80
rs149806587	BAFF-R on IgD+	ebi-a-GCST90001719	22	40774205	G	A	3658	-0.54	0.06	0.00	0.02	87.46
rs5759079	BAFF-R on IgD+	ebi-a-GCST90001719	22	43393437	A	G	3658	-0.44	0.04	0.00	0.04	147.07
rs149398740	BAFF-R on IgD+	ebi-a-GCST90001719	22	23924845	T	C	3658	-1.09	0.24	0.00	0.01	20.87
rs1801274	BAFF-R on transitional	ebi-a-GCST90001720	1	161479745	G	A	3655	-0.14	0.03	0.00	0.01	26.18
rs114318843	BAFF-R on transitional	ebi-a-GCST90001720	2	164755835	C	T	3655	-0.54	0.11	0.00	0.01	23.05
rs141130967	BAFF-R on transitional	ebi-a-GCST90001720	3	101706582	G	T	3655	-0.34	0.07	0.00	0.01	27.87
rs116023377	BAFF-R on transitional	ebi-a-GCST90001720	4	18858102	C	G	3655	-0.74	0.16	0.00	0.01	22.26
rs57756059	BAFF-R on transitional	ebi-a-GCST90001720	4	77500796	G	A	3655	0.12	0.03	0.00	0.01	20.28
rs4252435	BAFF-R on transitional	ebi-a-GCST90001720	7	142622714	A	G	3655	-0.19	0.04	0.00	0.01	19.73
rs11761810	BAFF-R on transitional	ebi-a-GCST90001720	7	152779596	A	C	3655	0.11	0.03	0.00	0.01	20.08
rs34006338	BAFF-R on transitional	ebi-a-GCST90001720	7	45957318	A	G	3655	-0.94	0.20	0.00	0.01	22.45
rs6998646	BAFF-R on transitional	ebi-a-GCST90001720	8	127759740	G	T	3655	0.18	0.04	0.00	0.01	20.66
rs77803489	BAFF-R on transitional	ebi-a-GCST90001720	10	14893495	A	G	3655	-1.26	0.28	0.00	0.01	20.75
rs1563991	BAFF-R on transitional	ebi-a-GCST90001720	11	37670518	T	G	3655	0.16	0.03	0.00	0.01	23.94
rs143106266	BAFF-R on transitional	ebi-a-GCST90001720	13	29908421	A	C	3655	-1.17	0.25	0.00	0.01	22.19
rs56172578	BAFF-R on transitional	ebi-a-GCST90001720	14	22597739	A	G	3655	0.18	0.04	0.00	0.01	20.38
rs16957279	BAFF-R on transitional	ebi-a-GCST90001720	15	33954227	G	A	3655	0.12	0.03	0.00	0.01	19.85
rs148563640	BAFF-R on transitional	ebi-a-GCST90001720	17	48145906	T	C	3655	0.41	0.09	0.00	0.01	22.36

rs117499379	BAFF-R on transitional	ebi-a-GCST90001720	18	4343023	C	T	3655	0.25	0.05	0.00	0.01	23.92
rs1081003	BAFF-R on transitional	ebi-a-GCST90001720	22	42525756	A	G	3655	-0.47	0.04	0.00	0.03	110.31
rs5759079	BAFF-R on transitional	ebi-a-GCST90001720	22	43393437	A	G	3655	-0.40	0.04	0.00	0.03	125.13
rs1894588	BAFF-R on transitional	ebi-a-GCST90001720	22	40629980	T	C	3655	-0.48	0.05	0.00	0.02	88.64
rs117705111	BAFF-R on transitional	ebi-a-GCST90001720	22	41957510	A	G	3655	-0.67	0.07	0.00	0.03	105.45
rs76146864	BAFF-R on transitional	ebi-a-GCST90001720	22	40246055	T	C	3655	-0.67	0.08	0.00	0.02	72.90
rs5757678	BAFF-R on transitional	ebi-a-GCST90001720	22	39843409	T	C	3655	0.21	0.03	0.00	0.02	66.01
rs117430146	BAFF-R on transitional	ebi-a-GCST90001720	22	41998660	C	G	3655	0.29	0.06	0.00	0.01	26.07
rs149806587	BAFF-R on transitional	ebi-a-GCST90001720	22	40774205	G	A	3655	-0.48	0.06	0.00	0.02	68.50
rs73165129	BAFF-R on transitional	ebi-a-GCST90001720	22	42315371	T	C	3655	-1.39	0.04	0.00	0.30	1543.80
rs664654	CD19 on CD20-	ebi-a-GCST90001721	1	12185036	A	G	3656	0.26	0.06	0.00	0.01	19.70
rs536003	CD19 on CD20-	ebi-a-GCST90001721	1	40154898	A	G	3656	0.13	0.03	0.00	0.01	20.41
rs13390788	CD19 on CD20-	ebi-a-GCST90001721	2	235624835	G	A	3656	0.13	0.03	0.00	0.01	22.16
rs7580866	CD19 on CD20-	ebi-a-GCST90001721	2	202479783	C	T	3656	0.11	0.02	0.00	0.01	21.17
rs111494817	CD19 on CD20-	ebi-a-GCST90001721	3	49120006	C	T	3656	-0.21	0.05	0.00	0.01	20.11
rs72901497	CD19 on CD20-	ebi-a-GCST90001721	4	115677333	G	A	3656	0.16	0.03	0.00	0.01	25.65
rs2098676	CD19 on CD20-	ebi-a-GCST90001721	5	172763674	T	C	3656	0.12	0.03	0.00	0.01	19.76
rs183942882	CD19 on CD20-	ebi-a-GCST90001721	5	26009776	G	A	3656	-1.71	0.34	0.00	0.01	24.94
rs11748905	CD19 on CD20-	ebi-a-GCST90001721	5	80934634	C	T	3656	-1.01	0.18	0.00	0.01	29.89
rs149522199	CD19 on CD20-	ebi-a-GCST90001721	7	134114882	A	G	3656	0.56	0.13	0.00	0.01	19.71
rs55973216	CD19 on CD20-	ebi-a-GCST90001721	7	21380419	T	C	3656	-0.23	0.05	0.00	0.01	19.65
rs13429	CD19 on CD20-	ebi-a-GCST90001721	8	440424	G	A	3656	0.11	0.02	0.00	0.01	20.49
rs16927639	CD19 on CD20-	ebi-a-GCST90001721	8	62521732	T	C	3656	0.14	0.03	0.00	0.01	19.68
rs17248848	CD19 on CD20-	ebi-a-GCST90001721	8	107222079	A	G	3656	-0.25	0.06	0.00	0.01	20.14
rs1541174	CD19 on CD20-	ebi-a-GCST90001721	10	130287175	C	G	3656	-0.15	0.03	0.00	0.01	20.36
rs6583759	CD19 on CD20-	ebi-a-GCST90001721	10	92976570	C	A	3656	-0.27	0.06	0.00	0.01	20.38
rs41324346	CD19 on CD20-	ebi-a-GCST90001721	10	89070745	T	C	3656	0.11	0.02	0.00	0.01	19.79
rs12318478	CD19 on CD20-	ebi-a-GCST90001721	12	20830424	T	C	3656	0.27	0.06	0.00	0.01	20.82
rs997173	CD19 on CD20-	ebi-a-GCST90001721	12	55355033	T	C	3656	-0.18	0.04	0.00	0.01	20.91
rs1239945	CD19 on CD20-	ebi-a-GCST90001721	13	51107757	A	G	3656	0.11	0.02	0.00	0.01	21.42
rs77441302	CD19 on CD20-	ebi-a-GCST90001721	18	40519517	T	A	3656	0.21	0.05	0.00	0.01	20.14
rs164020	CD19 on CD20-	ebi-a-GCST90001721	19	6818628	T	A	3656	0.11	0.02	0.00	0.01	22.03
rs6658147	CD19 on CD20- CD38-	ebi-a-GCST90001722	1	18905298	G	C	3595	-0.12	0.02	0.00	0.01	24.60
rs11161637	CD19 on CD20- CD38-	ebi-a-GCST90001722	1	86021169	G	A	3595	-0.11	0.02	0.00	0.01	20.92
rs41267263	CD19 on CD20- CD38-	ebi-a-GCST90001722	1	36335349	G	T	3595	0.43	0.10	0.00	0.01	20.71
rs13391592	CD19 on CD20- CD38-	ebi-a-GCST90001722	2	180409011	A	C	3595	0.22	0.05	0.00	0.01	22.69
rs113045391	CD19 on CD20- CD38-	ebi-a-GCST90001722	2	201721041	T	C	3595	0.16	0.04	0.00	0.01	19.85

rs78401267	CD19 on CD20- CD38- CD19 on	ebi-a-GCST90001722	3	189064197	C	T	3595	0.33	0.07	0.00	0.01	23.25
rs62290470	CD20- CD38- CD19 on	ebi-a-GCST90001722	4	5132403	C	G	3595	-0.23	0.05	0.00	0.01	20.21
rs62413604	CD20- CD38- CD19 on	ebi-a-GCST90001722	6	49652991	T	C	3595	0.93	0.20	0.00	0.01	21.17
rs9402148	CD20- CD38- CD19 on	ebi-a-GCST90001722	6	129929521	T	C	3595	-0.27	0.06	0.00	0.01	19.76
rs116862171	CD20- CD38- CD19 on	ebi-a-GCST90001722	6	112145789	G	A	3595	-0.38	0.08	0.00	0.01	20.90
rs17480133	CD20- CD38- CD19 on	ebi-a-GCST90001722	7	145783861	C	G	3595	-0.11	0.02	0.00	0.01	19.86
rs150625190	CD20- CD38- CD19 on	ebi-a-GCST90001722	13	92727041	G	T	3595	-0.57	0.13	0.00	0.01	20.38
rs72664677	CD20- CD38- CD19 on	ebi-a-GCST90001722	14	32638300	T	C	3595	-0.13	0.03	0.00	0.01	20.67
rs75455523	CD20- CD38- CD19 on	ebi-a-GCST90001722	15	96941966	T	C	3595	-0.41	0.09	0.00	0.01	20.87
rs12438058	CD20- CD38- CD19 on	ebi-a-GCST90001722	15	39819219	C	T	3595	0.16	0.03	0.00	0.01	22.59
rs1966917	CD20- CD38- CD19 on	ebi-a-GCST90001722	17	72108055	A	G	3595	-0.20	0.04	0.00	0.01	23.45
rs113932257	CD20- CD38- CD19 on	ebi-a-GCST90001722	18	3127438	C	T	3595	0.67	0.14	0.00	0.01	22.41
rs67130681	CD20- CD38- CD19 on	ebi-a-GCST90001722	18	71598971	G	A	3595	0.14	0.03	0.00	0.01	23.11
rs10426452	CD20- CD38- CD19 on	ebi-a-GCST90001722	19	49907690	A	G	3595	-0.14	0.02	0.00	0.01	31.16
rs7280618	CD20- CD38- CD19 on	ebi-a-GCST90001722	21	41565479	C	T	3595	-0.33	0.07	0.00	0.01	23.61
rs219712	CD20- CD38- CD19 on	ebi-a-GCST90001722	21	27751176	T	C	3595	-0.15	0.03	0.00	0.01	23.30
rs113004536	CD20- CD38- CD19 on	ebi-a-GCST90001722	22	18923443	A	G	3595	-0.22	0.05	0.00	0.01	21.81
rs6678796	CD24+ CD27+ CD19 on	ebi-a-GCST90001723	1	247157835	T	C	3656	0.22	0.05	0.00	0.01	19.68
rs10917581	CD24+ CD27+ CD19 on	ebi-a-GCST90001723	1	162624504	G	A	3656	0.13	0.03	0.00	0.01	20.73
rs113812519	CD24+ CD27+ CD19 on	ebi-a-GCST90001723	1	207276336	G	A	3656	0.50	0.09	0.00	0.01	29.34
rs112417310	CD24+ CD27+ CD19 on	ebi-a-GCST90001723	1	206855483	A	G	3656	0.55	0.09	0.00	0.01	37.66
rs589151	CD24+ CD27+ CD19 on	ebi-a-GCST90001723	1	10567711	T	C	3656	-0.11	0.02	0.00	0.01	19.95
rs4649079	CD24+ CD27+ CD19 on	ebi-a-GCST90001723	1	25535823	T	C	3656	0.22	0.04	0.00	0.01	25.79
rs144743804	CD24+ CD27+ CD19 on	ebi-a-GCST90001723	1	207018206	A	G	3656	0.45	0.09	0.00	0.01	24.85
rs80268044	CD24+ CD27+ CD19 on	ebi-a-GCST90001723	2	43810948	A	G	3656	0.18	0.03	0.00	0.01	28.41
rs1439005	CD24+ CD27+ CD19 on	ebi-a-GCST90001723	3	61094800	C	G	3656	-0.12	0.02	0.00	0.01	23.82
rs7665261	CD24+ CD27+ CD19 on	ebi-a-GCST90001723	4	26464043	T	C	3656	-0.74	0.16	0.00	0.01	21.87
rs281142	CD24+ CD27+ CD19 on	ebi-a-GCST90001723	5	70969845	A	G	3656	0.24	0.05	0.00	0.01	20.94
rs7718237	CD24+ CD27+ CD19 on	ebi-a-GCST90001723	5	173972852	A	G	3656	0.12	0.02	0.00	0.01	24.87
rs764603	CD24+ CD27+	ebi-a-GCST90001723	6	36793516	C	A	3656	0.57	0.11	0.00	0.01	28.54

rs35553650	CD19 on CD24+	ebi-a-GCST90001723	6	37456130	A	G	3656	-0.37	0.08	0.00	0.01	21.04
rs9350187	CD27+ CD19 on CD24+	ebi-a-GCST90001723	6	19794487	T	C	3656	-0.26	0.05	0.00	0.01	25.98
rs76162621	CD27+ CD19 on CD24+	ebi-a-GCST90001723	6	68486690	G	A	3656	-1.03	0.23	0.00	0.01	20.08
rs78007482	CD27+ CD19 on CD24+	ebi-a-GCST90001723	8	133189482	A	T	3656	-0.22	0.05	0.00	0.01	23.19
rs12554596	CD27+ CD19 on CD24+	ebi-a-GCST90001723	9	37002142	G	A	3656	-0.12	0.03	0.00	0.01	20.91
rs560933055	CD27+ CD19 on CD24+	ebi-a-GCST90001723	10	1717689	A	T	3656	-1.42	0.27	0.00	0.01	27.93
rs17706571	CD27+ CD19 on CD24+	ebi-a-GCST90001723	12	29271392	T	C	3656	0.45	0.10	0.00	0.01	21.23
rs149168550	CD27+ CD19 on CD24+	ebi-a-GCST90001723	12	111354000	G	C	3656	0.23	0.05	0.00	0.01	22.43
rs118134186	CD27+ CD19 on CD24+	ebi-a-GCST90001723	13	29813364	C	T	3656	-1.89	0.41	0.00	0.01	20.94
rs6575228	CD27+ CD19 on CD24+	ebi-a-GCST90001723	14	92561395	A	G	3656	-0.12	0.02	0.00	0.01	23.27
rs138920008	CD27+ CD19 on CD24+	ebi-a-GCST90001723	16	32422808	C	G	3656	-1.44	0.22	0.00	0.01	44.28
rs11643297	CD27+ CD19 on CD24+	ebi-a-GCST90001723	16	28973268	G	A	3656	0.15	0.03	0.00	0.01	36.75
rs1424083	CD27+ CD19 on CD24+	ebi-a-GCST90001723	16	74304865	G	A	3656	-0.12	0.03	0.00	0.01	20.15
rs112846834	CD27+ CD19 on CD24+	ebi-a-GCST90001723	17	7725660	A	C	3656	0.25	0.05	0.00	0.01	21.80
rs72988602	CD27+ CD19 on CD24+	ebi-a-GCST90001723	19	7114038	G	A	3656	0.18	0.04	0.00	0.01	24.26
rs2903728	CD27+ CD19 on CD24+	ebi-a-GCST90001723	19	56408295	C	T	3656	-0.18	0.04	0.00	0.01	22.71
rs117606004	CD27+ CD19 on CD24+	ebi-a-GCST90001723	20	44812456	T	C	3656	0.67	0.14	0.00	0.01	21.54
rs5762000	CD27+ CD19 on CD24+	ebi-a-GCST90001723	22	27530934	T	C	3656	0.15	0.03	0.00	0.01	24.38
rs113612962	CD27+ CD19 on CD24+	ebi-a-GCST90001723	22	43167446	C	G	3656	-0.30	0.06	0.00	0.01	23.33
rs55712453	IgD+ CD24+ CD19 on	ebi-a-GCST90001724	1	206902437	G	A	3656	0.57	0.09	0.00	0.01	40.39
rs6678796	IgD+ CD24+ CD19 on	ebi-a-GCST90001724	1	247157835	T	C	3656	0.22	0.05	0.00	0.01	19.93
rs4649080	IgD+ CD24+ CD19 on	ebi-a-GCST90001724	1	25737116	T	C	3656	0.20	0.04	0.00	0.01	21.19
rs113812519	IgD+ CD24+ CD19 on	ebi-a-GCST90001724	1	207276336	G	A	3656	0.55	0.09	0.00	0.01	36.23
rs144743804	IgD+ CD24+ CD19 on	ebi-a-GCST90001724	1	207018206	A	G	3656	0.49	0.09	0.00	0.01	29.64
rs140108418	IgD+ CD24+ CD19 on	ebi-a-GCST90001724	2	13573112	G	A	3656	2.03	0.42	0.00	0.01	23.72
rs80268044	IgD+ CD24+ CD19 on	ebi-a-GCST90001724	2	43810948	A	G	3656	0.17	0.03	0.00	0.01	25.54
rs9814135	IgD+ CD24+	ebi-a-GCST90001724	3	194094110	C	T	3656	-0.17	0.04	0.00	0.01	19.84

rs1595602	CD19 on IgD+ CD24+	ebi-a-GCST90001724	3	61090473	G	T	3656	0.17	0.04	0.00	0.01	20.89
rs7665261	CD19 on IgD+ CD24+	ebi-a-GCST90001724	4	26464043	T	C	3656	-0.71	0.16	0.00	0.01	19.94
rs7718237	CD19 on IgD+ CD24+	ebi-a-GCST90001724	5	173972852	A	G	3656	0.12	0.02	0.00	0.01	21.84
rs77175237	CD19 on IgD+ CD24+	ebi-a-GCST90001724	5	72039498	T	A	3656	0.26	0.06	0.00	0.01	20.73
rs764603	CD19 on IgD+ CD24+	ebi-a-GCST90001724	6	36793516	C	A	3656	0.54	0.11	0.00	0.01	25.37
rs76162621	CD19 on IgD+ CD24+	ebi-a-GCST90001724	6	68486690	G	A	3656	-1.03	0.23	0.00	0.01	19.75
rs7766104	CD19 on IgD+ CD24+	ebi-a-GCST90001724	6	105665214	G	A	3656	-0.14	0.03	0.00	0.01	19.75
rs73393708	CD19 on IgD+ CD24+	ebi-a-GCST90001724	7	90292336	G	T	3656	0.16	0.03	0.00	0.01	20.12
rs78007482	CD19 on IgD+ CD24+	ebi-a-GCST90001724	8	133189482	A	T	3656	-0.21	0.05	0.00	0.01	20.65
rs12554596	CD19 on IgD+ CD24+	ebi-a-GCST90001724	9	37002142	G	A	3656	-0.11	0.03	0.00	0.01	19.92
rs10999014	CD19 on IgD+ CD24+	ebi-a-GCST90001724	10	71648522	T	C	3656	-0.16	0.04	0.00	0.01	20.18
rs117006645	CD19 on IgD+ CD24+	ebi-a-GCST90001724	10	108143796	G	A	3656	-2.49	0.53	0.00	0.01	21.87
rs28560225	CD19 on IgD+ CD24+	ebi-a-GCST90001724	10	125700760	G	A	3656	0.12	0.03	0.00	0.01	21.36
rs6602758	CD19 on IgD+ CD24+	ebi-a-GCST90001724	10	14778920	T	C	3656	-0.30	0.07	0.00	0.01	19.87
rs560933055	CD19 on IgD+ CD24+	ebi-a-GCST90001724	10	1717689	A	T	3656	-1.31	0.27	0.00	0.01	23.51
rs118075417	CD19 on IgD+ CD24+	ebi-a-GCST90001724	10	109625907	T	C	3656	-1.78	0.40	0.00	0.01	19.91
rs871361	CD19 on IgD+ CD24+	ebi-a-GCST90001724	12	124563662	G	C	3656	-1.23	0.26	0.00	0.01	22.00
rs4942349	CD19 on IgD+ CD24+	ebi-a-GCST90001724	13	31564105	G	A	3656	-0.13	0.03	0.00	0.01	23.50
rs6575228	CD19 on IgD+ CD24+	ebi-a-GCST90001724	14	92561395	A	G	3656	-0.12	0.02	0.00	0.01	24.35
rs7195635	CD19 on IgD+ CD24+	ebi-a-GCST90001724	16	58513959	A	G	3656	1.06	0.23	0.00	0.01	20.23
rs138920008	CD19 on IgD+ CD24+	ebi-a-GCST90001724	16	32422808	C	G	3656	-1.33	0.22	0.00	0.01	37.05
rs11643297	CD19 on IgD+ CD24+	ebi-a-GCST90001724	16	28973268	G	A	3656	0.15	0.03	0.00	0.01	33.48
rs9892181	CD19 on IgD+ CD24+	ebi-a-GCST90001724	17	76534817	C	G	3656	-0.39	0.09	0.00	0.01	20.23
rs148381451	CD19 on IgD+ CD24+	ebi-a-GCST90001724	17	63085557	T	C	3656	-0.27	0.06	0.00	0.01	22.99
rs72988602	CD19 on IgD+ CD24+	ebi-a-GCST90001724	19	7114038	G	A	3656	0.18	0.04	0.00	0.01	24.97
rs77697711	CD19 on IgD+ CD24+	ebi-a-GCST90001724	22	45116977	A	C	3656	0.21	0.05	0.00	0.01	21.32
rs113612962	CD19 on IgD+ CD24+	ebi-a-GCST90001724	22	43167446	C	G	3656	-0.30	0.06	0.00	0.01	22.56
rs5762000	CD19 on IgD+ CD24+	ebi-a-GCST90001724	22	27530934	T	C	3656	0.14	0.03	0.00	0.01	21.01
rs79856590	CD19 on IgD+ CD24-	ebi-a-GCST90001725	1	205241642	A	G	3656	0.28	0.05	0.00	0.01	30.39
rs113812519	CD19 on IgD+ CD24-	ebi-a-GCST90001725	1	207276336	G	A	3656	0.53	0.09	0.00	0.01	33.84
rs11120838	CD19 on IgD+ CD24-	ebi-a-GCST90001725	1	7149639	G	C	3656	-0.28	0.06	0.00	0.01	20.13
rs142109788	CD19 on IgD+ CD24-	ebi-a-GCST90001725	1	149815561	G	A	3656	-2.03	0.39	0.00	0.01	27.12
rs112417310	CD19 on IgD+ CD24-	ebi-a-GCST90001725	1	206855483	A	G	3656	0.52	0.09	0.00	0.01	34.87
rs1345010	CD19 on IgD+ CD24-	ebi-a-GCST90001725	2	174113733	G	T	3656	0.19	0.04	0.00	0.01	21.42
rs145392098	CD19 on IgD+ CD24-	ebi-a-GCST90001725	2	95682916	A	G	3656	0.35	0.08	0.00	0.01	21.26
rs1449311	CD19 on IgD+ CD24-	ebi-a-GCST90001725	3	100703124	A	G	3656	0.13	0.03	0.00	0.01	21.96
rs115727814	CD19 on IgD+ CD24-	ebi-a-GCST90001725	4	170699036	A	G	3656	-1.23	0.27	0.00	0.01	21.38

rs764603	CD19 on IgD+ CD24-	ebi-a-GCST90001725	6	36793516	C	A	3656	0.49	0.11	0.00	0.01	21.14
rs78895027	CD19 on IgD+ CD24-	ebi-a-GCST90001725	6	112306917	C	T	3656	0.17	0.04	0.00	0.01	20.94
rs9639817	CD19 on IgD+ CD24-	ebi-a-GCST90001725	7	40085765	T	C	3656	-0.11	0.02	0.00	0.01	20.29
rs12216684	CD19 on IgD+ CD24-	ebi-a-GCST90001725	7	56291533	A	G	3656	0.26	0.05	0.00	0.01	24.38
rs80273434	CD19 on IgD+ CD24-	ebi-a-GCST90001725	8	141772905	C	G	3656	-0.24	0.05	0.00	0.01	20.00
rs75912463	CD19 on IgD+ CD24-	ebi-a-GCST90001725	9	133354402	C	T	3656	-3.14	0.68	0.00	0.01	21.52
rs34798965	CD19 on IgD+ CD24-	ebi-a-GCST90001725	10	71647692	A	C	3656	-0.20	0.04	0.00	0.01	19.91
rs67316035	CD19 on IgD+ CD24-	ebi-a-GCST90001725	11	132221605	A	T	3656	-0.20	0.04	0.00	0.01	24.46
rs17493333	CD19 on IgD+ CD24-	ebi-a-GCST90001725	12	19098939	C	T	3656	-0.35	0.08	0.00	0.01	20.33
rs754067	CD19 on IgD+ CD24-	ebi-a-GCST90001725	16	17323672	C	T	3656	-0.20	0.04	0.00	0.01	26.36
rs138920008	CD19 on IgD+ CD24-	ebi-a-GCST90001725	16	32422808	C	G	3656	-1.19	0.22	0.00	0.01	30.01
rs148381451	CD19 on IgD+ CD24-	ebi-a-GCST90001725	17	63085557	T	C	3656	-0.27	0.06	0.00	0.01	23.38
rs1290397	CD19 on IgD+ CD24-	ebi-a-GCST90001725	17	77948063	A	G	3656	0.12	0.02	0.00	0.01	23.69
rs1986507	CD19 on IgD+ CD24-	ebi-a-GCST90001725	17	10082301	A	G	3656	0.14	0.03	0.00	0.01	20.02
rs8109226	CD19 on IgD+ CD24-	ebi-a-GCST90001725	19	710050	G	T	3656	0.12	0.02	0.00	0.01	23.46
rs2903728	CD19 on IgD+ CD24-	ebi-a-GCST90001725	19	56408295	C	T	3656	-0.18	0.04	0.00	0.01	22.72
rs112152495	CD19 on IgD+ CD24-	ebi-a-GCST90001725	19	7096773	A	G	3656	-0.57	0.13	0.00	0.01	19.68
rs55712453	CD19 on IgD+ CD38-	ebi-a-GCST90001726	1	206902437	G	A	3645	0.47	0.09	0.00	0.01	27.26
rs34762764	CD19 on IgD+ CD38-	ebi-a-GCST90001726	1	47996882	T	C	3645	0.13	0.03	0.00	0.01	21.37
rs142109788	CD19 on IgD+ CD38-	ebi-a-GCST90001726	1	149815561	G	A	3645	-1.74	0.39	0.00	0.01	19.86
rs113812519	CD19 on IgD+ CD38-	ebi-a-GCST90001726	1	207276336	G	A	3645	0.43	0.09	0.00	0.01	21.66
rs79856590	CD19 on IgD+ CD38-	ebi-a-GCST90001726	1	205241642	A	G	3645	0.25	0.05	0.00	0.01	24.13
rs11733521	CD19 on IgD+ CD38-	ebi-a-GCST90001726	4	68968349	T	C	3645	-0.23	0.05	0.00	0.01	21.00
rs115727814	CD19 on IgD+ CD38-	ebi-a-GCST90001726	4	170699036	A	G	3645	-1.28	0.27	0.00	0.01	23.01
rs6554147	CD19 on IgD+ CD38-	ebi-a-GCST90001726	4	54958646	G	T	3645	0.11	0.03	0.00	0.01	19.62
rs186239326	CD19 on IgD+ CD38-	ebi-a-GCST90001726	6	2511082	G	C	3645	-0.69	0.15	0.00	0.01	20.29
rs6908848	CD19 on IgD+ CD38-	ebi-a-GCST90001726	6	14717247	A	G	3645	0.72	0.16	0.00	0.01	20.57
rs11764670	CD19 on IgD+ CD38-	ebi-a-GCST90001726	7	76455763	G	A	3645	0.12	0.03	0.00	0.01	19.63
rs118033073	CD19 on IgD+ CD38-	ebi-a-GCST90001726	8	9086777	A	G	3645	0.30	0.07	0.00	0.01	20.29
rs62524107	CD19 on IgD+ CD38-	ebi-a-GCST90001726	8	141805137	C	T	3645	-0.25	0.05	0.00	0.01	21.57
rs12554596	CD19 on IgD+ CD38-	ebi-a-GCST90001726	9	37002142	G	A	3645	-0.13	0.03	0.00	0.01	27.33
rs10738775	CD19 on IgD+ CD38-	ebi-a-GCST90001726	9	27514318	A	T	3645	0.12	0.03	0.00	0.01	20.65
rs75912463	CD19 on IgD+ CD38-	ebi-a-GCST90001726	9	133354402	C	T	3645	-3.08	0.68	0.00	0.01	20.64
rs6602758	CD19 on IgD+ CD38-	ebi-a-GCST90001726	10	14778920	T	C	3645	-0.30	0.07	0.00	0.01	20.00
rs112802874	CD19 on IgD+ CD38-	ebi-a-GCST90001726	10	89640021	G	T	3645	0.43	0.09	0.00	0.01	22.78
rs11051699	CD19 on IgD+ CD38-	ebi-a-GCST90001726	12	32107411	C	T	3645	-0.16	0.04	0.00	0.01	20.60
rs74518629	CD19 on IgD+ CD38-	ebi-a-GCST90001726	12	130845523	T	C	3645	-0.28	0.06	0.00	0.01	20.06

rs75382958	CD19 on IgD+ CD38- CD19 on	ebi-a-GCST90001726	13	70194834	G	A	3645	0.15	0.03	0.00	0.01	19.61
rs117004076	IgD+ CD38- CD19 on	ebi-a-GCST90001726	14	97702226	G	A	3645	0.48	0.10	0.00	0.01	22.29
rs7496584	IgD+ CD38- CD19 on	ebi-a-GCST90001726	15	23877607	C	A	3645	0.14	0.03	0.00	0.01	19.89
rs78044532	IgD+ CD38- CD19 on	ebi-a-GCST90001726	16	21168467	T	C	3645	0.42	0.09	0.00	0.01	21.87
rs118099810	IgD+ CD38- CD19 on	ebi-a-GCST90001726	16	2406183	T	C	3645	0.25	0.05	0.00	0.01	21.03
rs138920008	IgD+ CD38- CD19 on	ebi-a-GCST90001726	16	32422808	C	G	3645	-0.97	0.22	0.00	0.01	19.95
rs2356414	IgD+ CD38- CD19 on	ebi-a-GCST90001726	16	71378301	T	C	3645	0.16	0.03	0.00	0.01	23.56
rs148381451	IgD+ CD38- CD19 on	ebi-a-GCST90001726	17	63085557	T	C	3645	-0.25	0.06	0.00	0.01	20.02
rs6567179	IgD+ CD38- CD19 on	ebi-a-GCST90001726	18	58273913	C	T	3645	-0.13	0.03	0.00	0.01	19.89
rs73056862	IgD+ CD38- CD19 on	ebi-a-GCST90001726	19	52235616	T	C	3645	0.27	0.06	0.00	0.01	20.93
rs34488330	IgD+ CD38- CD19 on	ebi-a-GCST90001726	19	7105841	C	A	3645	-0.47	0.11	0.00	0.01	19.83
rs144392728	IgD+ CD38- CD19 on	ebi-a-GCST90001726	22	33029820	T	A	3645	-0.23	0.05	0.00	0.01	20.21
rs142109788	IgD+ CD38- CD19 on	ebi-a-GCST90001727	1	149815561	G	A	1830	-2.26	0.46	0.00	0.01	23.79
rs75320486	IgD+ CD38- CD19 on	ebi-a-GCST90001727	1	206842241	A	G	1830	0.47	0.10	0.00	0.01	20.63
rs113812519	IgD+ CD38- CD19 on	ebi-a-GCST90001727	1	207276336	G	A	1830	0.53	0.12	0.00	0.01	20.65
rs10754999	IgD+ CD38- CD19 on	ebi-a-GCST90001727	2	184906937	C	G	1830	-0.18	0.04	0.00	0.01	21.35
rs11926501	IgD+ CD38- CD19 on	ebi-a-GCST90001727	3	9722257	T	C	1830	-0.34	0.07	0.00	0.01	22.17
rs402710	IgD+ CD38- CD19 on	ebi-a-GCST90001727	5	1320722	T	C	1830	0.15	0.03	0.00	0.01	20.30
rs78895027	IgD+ CD38- CD19 on	ebi-a-GCST90001727	6	112306917	C	T	1830	0.24	0.05	0.00	0.01	20.82
rs28721574	IgD+ CD38- CD19 on	ebi-a-GCST90001727	6	29709714	G	A	1830	0.31	0.07	0.00	0.01	19.88
rs16939238	IgD+ CD38- CD19 on	ebi-a-GCST90001727	8	77030281	T	G	1830	0.37	0.08	0.00	0.01	21.30
rs75912463	IgD+ CD38- CD19 on	ebi-a-GCST90001727	9	133354402	C	T	1830	-3.17	0.69	0.00	0.01	21.23
rs1687384	IgD+ CD38- CD19 on	ebi-a-GCST90001727	9	117088120	C	T	1830	-0.16	0.04	0.00	0.01	19.62
rs72716013	IgD+ CD38- CD19 on	ebi-a-GCST90001727	9	71165158	G	A	1830	0.15	0.03	0.00	0.01	19.83
rs117004076	IgD+ CD38- CD19 on	ebi-a-GCST90001727	14	97702226	G	A	1830	0.57	0.13	0.00	0.01	19.66
rs4074448	IgD+ CD38- CD19 on	ebi-a-GCST90001727	15	63888495	A	G	1830	-0.16	0.03	0.00	0.01	21.95
rs17637675	IgD+ CD38- CD19 on	ebi-a-GCST90001727	16	79029574	G	A	1830	-0.20	0.04	0.00	0.01	21.35
rs12451409	IgD+ CD38- CD19 on	ebi-a-GCST90001727	17	45544856	G	A	1830	-0.16	0.03	0.00	0.01	23.91
rs80090296	IgD+ CD38- CD19 on	ebi-a-GCST90001727	18	42110459	T	C	1830	0.18	0.04	0.00	0.01	19.72
rs4022330	IgD+ CD38- CD19 on	ebi-a-GCST90001727	19	54781843	T	C	1830	-0.17	0.03	0.00	0.01	23.78
rs6127744	IgD+ CD38- CD19 on	ebi-a-GCST90001727	20	54986274	T	G	1830	0.21	0.05	0.00	0.01	20.04
rs10494895	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	1	208466901	G	A	1833	0.46	0.10	0.00	0.01	21.73
rs2419379	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	1	190433277	T	A	1833	0.17	0.04	0.00	0.01	19.83
rs113812519	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	1	207276336	G	A	1833	0.72	0.12	0.00	0.02	38.28
rs138155833	IgD+ CD38- unsw mem	ebi-a-GCST90001728	1	207698087	T	A	1833	0.23	0.05	0.00	0.01	20.84

rs7525464	CD19 on IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	1	154727881	G	C	1833	0.16	0.03	0.00	0.01	23.04
rs55712453	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	1	206902437	G	A	1833	0.78	0.12	0.00	0.02	42.43
rs144743804	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	1	207018206	A	G	1833	0.66	0.12	0.00	0.02	32.12
rs859655	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	1	172650450	G	A	1833	-0.16	0.03	0.00	0.01	22.11
rs72999235	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	2	231874716	C	T	1833	0.47	0.11	0.00	0.01	19.85
rs140108418	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	2	13573112	G	A	1833	2.13	0.46	0.00	0.01	21.82
rs7600804	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	2	85912030	C	G	1833	-2.32	0.50	0.00	0.01	21.58
rs200576624	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	4	110142387	A	G	1833	0.44	0.10	0.00	0.01	20.12
rs140761841	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	4	747378	T	C	1833	0.97	0.20	0.00	0.01	23.37
rs4702668	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	5	10081219	G	A	1833	0.19	0.04	0.00	0.01	27.50
rs148774606	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	5	149841015	C	T	1833	-1.67	0.37	0.00	0.01	21.01
rs77518858	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	6	15735864	C	G	1833	0.55	0.12	0.00	0.01	20.34
rs80168996	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	7	44882040	C	A	1833	-0.31	0.07	0.00	0.01	20.90
rs78653777	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	8	3472861	T	C	1833	0.27	0.06	0.00	0.01	22.94
rs13250240	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	8	130552677	C	T	1833	1.07	0.23	0.00	0.01	21.84
rs11840245	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	13	111300129	T	C	1833	0.48	0.11	0.00	0.01	19.94
rs11617402	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	13	22970185	C	T	1833	-0.52	0.11	0.00	0.01	21.59
rs4900483	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	14	101566637	T	C	1833	0.56	0.12	0.00	0.01	21.73
rs17723384	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	16	34579231	A	C	1833	-1.01	0.22	0.00	0.01	21.51
rs61610275	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	17	13040257	T	A	1833	-0.41	0.09	0.00	0.01	20.90
rs9945791	IgD+ CD38- unsw mem CD19 on	ebi-a-GCST90001728	18	36882371	T	C	1833	-0.22	0.05	0.00	0.01	20.31
rs112417310	IgD+ CD38br CD19 on	ebi-a-GCST90001729	1	206855483	A	G	3657	0.65	0.09	0.00	0.01	52.39
rs144743804	IgD+ CD38br CD19 on	ebi-a-GCST90001729	1	207018206	A	G	3657	0.61	0.09	0.00	0.01	46.47
rs2026774	IgD+ CD38br CD19 on	ebi-a-GCST90001729	1	86076069	C	T	3657	0.17	0.03	0.00	0.01	24.99
rs113812519	IgD+ CD38br CD19 on	ebi-a-GCST90001729	1	207276336	G	A	3657	0.68	0.09	0.00	0.01	53.89
rs10737202	IgD+ CD38br	ebi-a-GCST90001729	1	234499381	C	T	3657	-0.12	0.03	0.00	0.01	21.91

rs13030427	CD19 on IgD+ CD38br	ebi-a-GCST90001729	2	208879261	A	G	3657	0.15	0.03	0.00	0.01	21.18
rs9880620	CD19 on IgD+ CD38br	ebi-a-GCST90001729	3	61111881	T	C	3657	0.18	0.03	0.00	0.01	29.74
rs4518167	CD19 on IgD+ CD38br	ebi-a-GCST90001729	3	97446508	C	T	3657	-1.25	0.27	0.00	0.01	20.68
rs115761380	CD19 on IgD+ CD38br	ebi-a-GCST90001729	3	32376405	G	A	3657	0.57	0.12	0.00	0.01	20.88
rs72721695	CD19 on IgD+ CD38br	ebi-a-GCST90001729	4	153625808	A	C	3657	0.18	0.04	0.00	0.01	19.74
rs76162621	CD19 on IgD+ CD38br	ebi-a-GCST90001729	6	68486690	G	A	3657	-1.08	0.23	0.00	0.01	21.54
rs2516390	CD19 on IgD+ CD38br	ebi-a-GCST90001729	6	31529883	T	C	3657	-0.13	0.03	0.00	0.01	20.71
rs12216684	CD19 on IgD+ CD38br	ebi-a-GCST90001729	7	56291533	A	G	3657	0.26	0.05	0.00	0.01	23.45
rs67316035	CD19 on IgD+ CD38br	ebi-a-GCST90001729	11	132221605	A	T	3657	-0.18	0.04	0.00	0.01	19.85
rs117442206	CD19 on IgD+ CD38br	ebi-a-GCST90001729	12	25430787	T	C	3657	-0.29	0.06	0.00	0.01	24.33
rs2204990	CD19 on IgD+ CD38br	ebi-a-GCST90001729	14	22791563	A	G	3657	-0.11	0.03	0.00	0.01	20.06
rs138920008	CD19 on IgD+ CD38br	ebi-a-GCST90001729	16	32422808	C	G	3657	-1.44	0.22	0.00	0.01	42.90
rs148381451	CD19 on IgD+ CD38br	ebi-a-GCST90001729	17	63085557	T	C	3657	-0.25	0.06	0.00	0.01	19.65
rs187374346	CD19 on IgD+ CD38br	ebi-a-GCST90001729	19	7091080	A	G	3657	-0.69	0.14	0.00	0.01	22.57
rs59977691	CD19 on IgD+ CD38br	ebi-a-GCST90001729	19	19012358	A	G	3657	0.22	0.04	0.00	0.01	24.15
rs137949497	CD19 on IgD+ CD38br	ebi-a-GCST90001729	21	32136760	G	T	3657	0.46	0.10	0.00	0.01	20.21
rs142109788	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	1	149815561	G	A	3657	-1.90	0.39	0.00	0.01	23.80
rs113812519	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	1	207276336	G	A	3657	0.56	0.09	0.00	0.01	37.10
rs112417310	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	1	206855483	A	G	3657	0.56	0.09	0.00	0.01	39.48
rs144743804	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	1	207018206	A	G	3657	0.51	0.09	0.00	0.01	32.40
rs1345010	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	2	174113733	G	T	3657	0.19	0.04	0.00	0.01	21.55
rs143403164	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	3	111246616	A	G	3657	-0.57	0.13	0.00	0.01	20.94
rs1449311	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	3	100703124	A	G	3657	0.12	0.03	0.00	0.01	20.23
rs115727814	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	4	170699036	A	G	3657	-1.19	0.27	0.00	0.01	19.88
rs12642193	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	4	25916457	G	A	3657	-0.15	0.03	0.00	0.01	20.57
rs13164259	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	5	82870211	A	C	3657	0.59	0.13	0.00	0.01	19.91
rs764603	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	6	36793516	C	A	3657	0.50	0.11	0.00	0.01	21.54
rs2524090	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	6	31240823	A	C	3657	-0.15	0.03	0.00	0.01	20.31
rs12216684	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	7	56291533	A	G	3657	0.26	0.05	0.00	0.01	23.89
rs80273434	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	8	141772905	C	G	3657	-0.25	0.05	0.00	0.01	20.88
rs75912463	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	9	133354402	C	T	3657	-3.13	0.68	0.00	0.01	21.35
rs76289004	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	10	67011620	G	A	3657	-0.50	0.11	0.00	0.01	21.54
rs11825488	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	11	72165045	A	G	3657	-1.12	0.25	0.00	0.01	19.73
rs67316035	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	11	132221605	A	T	3657	-0.18	0.04	0.00	0.01	20.55
rs79699942	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	12	44929593	G	A	3657	0.18	0.04	0.00	0.01	20.35
rs1955142	CD19 on IgD+ CD19 on	ebi-a-GCST90001730	15	65505785	C	A	3657	0.12	0.03	0.00	0.01	22.65
rs754067	CD19 on IgD+	ebi-a-GCST90001730	16	17323672	C	T	3657	-0.21	0.04	0.00	0.01	28.12

rs138920008	CD19 on IgD+	ebi-a-GCST90001730	16	32422808	C	G	3657	-1.23	0.22	0.00	0.01	32.20
rs148381451	CD19 on IgD+	ebi-a-GCST90001730	17	63085557	T	C	3657	-0.26	0.06	0.00	0.01	20.97
rs1290397	CD19 on IgD+	ebi-a-GCST90001730	17	77948063	A	G	3657	0.12	0.02	0.00	0.01	22.10
rs2903728	CD19 on IgD+	ebi-a-GCST90001730	19	56408295	C	T	3657	-0.17	0.04	0.00	0.01	19.63
rs10192011	CD19 on IgD-CD24-	ebi-a-GCST90001731	2	53804261	T	G	3655	0.12	0.03	0.00	0.01	20.77
rs10928415	CD19 on IgD-CD24-	ebi-a-GCST90001731	2	149553139	A	G	3655	0.14	0.03	0.00	0.01	19.85
rs242172	CD19 on IgD-CD24-	ebi-a-GCST90001731	3	60405606	G	T	3655	0.58	0.13	0.00	0.01	20.30
rs631691	CD19 on IgD-CD24-	ebi-a-GCST90001731	3	124875178	T	C	3655	-0.11	0.02	0.00	0.01	19.73
rs71307996	CD19 on IgD-CD24-	ebi-a-GCST90001731	3	1103352	A	G	3655	0.35	0.07	0.00	0.01	22.56
rs76451648	CD19 on IgD-CD24-	ebi-a-GCST90001731	4	139618949	C	T	3655	0.28	0.06	0.00	0.01	22.65
rs73254441	CD19 on IgD-CD24-	ebi-a-GCST90001731	5	113295200	A	G	3655	0.39	0.09	0.00	0.01	19.61
rs16884870	CD19 on IgD-CD24-	ebi-a-GCST90001731	6	75109409	C	T	3655	0.21	0.05	0.00	0.01	21.74
rs148597489	CD19 on IgD-CD24-	ebi-a-GCST90001731	6	72550483	A	C	3655	-0.84	0.18	0.00	0.01	22.02
rs75663256	CD19 on IgD-CD24-	ebi-a-GCST90001731	8	69895735	A	C	3655	0.19	0.04	0.00	0.01	19.72
rs10906006	CD19 on IgD-CD24-	ebi-a-GCST90001731	10	11781967	A	G	3655	0.13	0.03	0.00	0.01	21.62
rs61884722	CD19 on IgD-CD24-	ebi-a-GCST90001731	11	18601510	C	T	3655	0.89	0.19	0.00	0.01	21.46
rs1164128	CD19 on IgD-CD24-	ebi-a-GCST90001731	13	112057432	C	T	3655	0.11	0.03	0.00	0.01	20.82
rs7332415	CD19 on IgD-CD24-	ebi-a-GCST90001731	13	41688557	G	A	3655	-0.23	0.05	0.00	0.01	21.68
rs148027681	CD19 on IgD-CD24-	ebi-a-GCST90001731	13	61899478	C	G	3655	0.82	0.18	0.00	0.01	19.65
rs76709166	CD19 on IgD-CD24-	ebi-a-GCST90001731	13	20589957	C	A	3655	-0.44	0.10	0.00	0.01	20.10
rs17315418	CD19 on IgD-CD24-	ebi-a-GCST90001731	15	70028833	A	G	3655	0.12	0.03	0.00	0.01	20.07
rs11643297	CD19 on IgD-CD24-	ebi-a-GCST90001731	16	28973268	G	A	3655	0.11	0.03	0.00	0.01	20.04
rs1453509	CD19 on IgD-CD24-	ebi-a-GCST90001731	16	17014673	A	C	3655	-0.19	0.04	0.00	0.01	24.45
rs12968867	CD19 on IgD-CD24-	ebi-a-GCST90001731	18	60850310	A	G	3655	-0.13	0.03	0.00	0.01	23.53
rs2613786	CD19 on IgD-CD24-	ebi-a-GCST90001731	19	5137846	A	G	3655	-0.11	0.03	0.00	0.01	20.27
rs73056862	CD19 on IgD-CD24-	ebi-a-GCST90001731	19	52235616	T	C	3655	0.27	0.06	0.00	0.01	21.41
rs75656751	CD19 on IgD-CD24-	ebi-a-GCST90001731	21	38055091	T	C	3655	-0.35	0.08	0.00	0.01	19.64
rs6577565	CD19 on IgD-CD27-	ebi-a-GCST90001732	1	6307255	C	T	3656	-0.12	0.03	0.00	0.01	21.21
rs113747920	CD19 on IgD-CD27-	ebi-a-GCST90001732	1	27453519	C	T	3656	0.67	0.15	0.00	0.01	20.00
rs59102092	CD19 on IgD-CD27-	ebi-a-GCST90001732	1	39551423	C	A	3656	-0.16	0.04	0.00	0.01	20.80
rs1524155	CD19 on IgD-CD27-	ebi-a-GCST90001732	2	48878727	A	T	3656	0.15	0.03	0.00	0.01	22.64
rs10192011	CD19 on IgD-CD27-	ebi-a-GCST90001732	2	53804261	T	G	3656	0.12	0.03	0.00	0.01	20.14
rs7608595	CD19 on IgD-CD27-	ebi-a-GCST90001732	2	223088415	C	T	3656	0.12	0.03	0.00	0.01	20.90
rs34205222	CD19 on IgD-CD27-	ebi-a-GCST90001732	3	1066077	A	G	3656	0.36	0.07	0.00	0.01	23.75
rs242172	CD19 on IgD-CD27-	ebi-a-GCST90001732	3	60405606	G	T	3656	0.61	0.13	0.00	0.01	22.53
rs12636323	CD19 on IgD-CD27-	ebi-a-GCST90001732	3	100795543	T	G	3656	0.11	0.03	0.00	0.01	19.94
rs631691	CD19 on IgD-CD27-	ebi-a-GCST90001732	3	124875178	T	C	3656	-0.11	0.02	0.00	0.01	20.76

rs115952864	CD19 on IgD- CD27-	ebi-a-GCST90001732	4	173244216	A	G	3656	0.41	0.09	0.00	0.01	23.29
rs116412781	CD19 on IgD- CD27-	ebi-a-GCST90001732	4	2746567	T	C	3656	0.27	0.06	0.00	0.01	21.24
rs144574165	CD19 on IgD- CD27-	ebi-a-GCST90001732	4	163336202	T	C	3656	0.26	0.05	0.00	0.01	23.04
rs142291539	CD19 on IgD- CD27-	ebi-a-GCST90001732	5	175612761	A	G	3656	0.36	0.08	0.00	0.01	20.77
rs9350187	CD19 on IgD- CD27-	ebi-a-GCST90001732	6	19794487	T	C	3656	-0.23	0.05	0.00	0.01	19.78
rs71555251	CD19 on IgD- CD27-	ebi-a-GCST90001732	6	75109171	A	G	3656	0.20	0.05	0.00	0.01	19.64
rs62463053	CD19 on IgD- CD27-	ebi-a-GCST90001732	7	51994027	C	G	3656	-0.13	0.03	0.00	0.01	19.96
rs75663256	CD19 on IgD- CD27-	ebi-a-GCST90001732	8	69895735	A	C	3656	0.20	0.04	0.00	0.01	21.37
rs10216993	CD19 on IgD- CD27-	ebi-a-GCST90001732	8	142521360	T	C	3656	-0.11	0.02	0.00	0.01	20.46
rs10821075	CD19 on IgD- CD27-	ebi-a-GCST90001732	9	95896099	A	G	3656	-0.12	0.02	0.00	0.01	22.04
rs61884722	CD19 on IgD- CD27-	ebi-a-GCST90001732	11	18601510	C	T	3656	0.90	0.19	0.00	0.01	21.76
rs148390689	CD19 on IgD- CD27-	ebi-a-GCST90001732	13	20089809	C	T	3656	-0.42	0.09	0.00	0.01	20.78
rs114723901	CD19 on IgD- CD27-	ebi-a-GCST90001732	15	45169337	A	G	3656	-0.20	0.05	0.00	0.01	20.29
rs11643297	CD19 on IgD- CD27-	ebi-a-GCST90001732	16	28973268	G	A	3656	0.12	0.03	0.00	0.01	20.80
rs138920008	CD19 on IgD- CD27-	ebi-a-GCST90001732	16	32422808	C	G	3656	-1.11	0.22	0.00	0.01	25.51
rs12968867	CD19 on IgD- CD27-	ebi-a-GCST90001732	18	60850310	A	G	3656	-0.14	0.03	0.00	0.01	27.20
rs113612962	CD19 on IgD- CD27-	ebi-a-GCST90001732	22	43167446	C	G	3656	-0.29	0.06	0.00	0.01	21.39
rs4927044	CD19 on IgD- CD38-	ebi-a-GCST90001733	1	48232179	A	G	3657	-0.29	0.06	0.00	0.01	21.39
rs112978597	CD19 on IgD- CD38-	ebi-a-GCST90001733	1	12881809	G	A	3657	0.24	0.05	0.00	0.01	22.17
rs190416390	CD19 on IgD- CD38-	ebi-a-GCST90001733	2	159567199	A	G	3657	0.21	0.05	0.00	0.01	20.15
rs72877897	CD19 on IgD- CD38-	ebi-a-GCST90001733	3	61116118	A	T	3657	0.17	0.04	0.00	0.01	20.77
rs4702668	CD19 on IgD- CD38-	ebi-a-GCST90001733	5	10081219	G	A	3657	0.12	0.03	0.00	0.01	20.54
rs67145622	CD19 on IgD- CD38-	ebi-a-GCST90001733	6	19588752	T	C	3657	-0.27	0.06	0.00	0.01	22.41
rs114369132	CD19 on IgD- CD38-	ebi-a-GCST90001733	6	32409141	A	C	3657	0.69	0.14	0.00	0.01	23.11
rs16884870	CD19 on IgD- CD38-	ebi-a-GCST90001733	6	75109409	C	T	3657	0.20	0.05	0.00	0.01	19.64
rs62463053	CD19 on IgD- CD38-	ebi-a-GCST90001733	7	51994027	C	G	3657	-0.13	0.03	0.00	0.01	22.80
rs273144	CD19 on IgD- CD38-	ebi-a-GCST90001733	7	41508880	C	G	3657	0.11	0.03	0.00	0.01	20.67
rs75663256	CD19 on IgD- CD38-	ebi-a-GCST90001733	8	69895735	A	C	3657	0.20	0.04	0.00	0.01	21.44
rs964936	CD19 on IgD- CD38-	ebi-a-GCST90001733	8	142522071	T	G	3657	-0.11	0.02	0.00	0.01	20.11
rs12554596	CD19 on IgD- CD38-	ebi-a-GCST90001733	9	37002142	G	A	3657	-0.12	0.03	0.00	0.01	20.39
rs10761194	CD19 on IgD- CD38-	ebi-a-GCST90001733	9	95899884	A	G	3657	-0.11	0.02	0.00	0.01	21.52
rs143330436	CD19 on IgD- CD38-	ebi-a-GCST90001733	9	26801194	T	C	3657	-1.28	0.28	0.00	0.01	21.31
rs12346584	CD19 on IgD- CD38-	ebi-a-GCST90001733	9	97103437	C	T	3657	0.14	0.03	0.00	0.01	23.73
rs112522781	CD19 on IgD- CD38-	ebi-a-GCST90001733	10	89650801	A	G	3657	0.27	0.06	0.00	0.01	19.63
rs1164128	CD19 on IgD- CD38-	ebi-a-GCST90001733	13	112057432	C	T	3657	0.11	0.03	0.00	0.01	19.62
rs61154235	CD19 on IgD- CD38-	ebi-a-GCST90001733	14	77350459	T	C	3657	-1.17	0.26	0.00	0.01	19.62
rs12904834	CD19 on IgD- CD38-	ebi-a-GCST90001733	15	76897663	C	T	3657	-0.13	0.03	0.00	0.01	23.30

rs7189927	CD19 on IgD-CD38-	ebi-a-GCST90001733	16	28913787	C	T	3657	0.14	0.03	0.00	0.01	32.88
rs2613786	CD19 on IgD-CD38-	ebi-a-GCST90001733	19	5137846	A	G	3657	-0.12	0.03	0.00	0.01	20.55
rs10420460	CD19 on IgD-CD38-	ebi-a-GCST90001733	19	57259311	C	T	3657	-0.11	0.02	0.00	0.01	20.08
rs113612962	CD19 on IgD-CD38-	ebi-a-GCST90001733	22	43167446	C	G	3657	-0.31	0.06	0.00	0.01	24.84
rs5762000	CD19 on IgD-CD38-	ebi-a-GCST90001733	22	27530934	T	C	3657	0.15	0.03	0.00	0.01	22.03
rs10752607	CD19 on IgD-CD38br	ebi-a-GCST90001734	1	154716803	A	G	3658	0.15	0.03	0.00	0.01	24.77
rs72816772	CD19 on IgD-CD38br	ebi-a-GCST90001734	2	75815457	T	C	3658	0.23	0.05	0.00	0.01	20.89
rs149234257	CD19 on IgD-CD38br	ebi-a-GCST90001734	2	7498941	A	T	3658	-0.47	0.10	0.00	0.01	20.45
rs6805030	CD19 on IgD-CD38br	ebi-a-GCST90001734	3	54576549	A	C	3658	-0.36	0.08	0.00	0.01	21.18
rs12374328	CD19 on IgD-CD38br	ebi-a-GCST90001734	4	61352640	A	T	3658	-0.24	0.05	0.00	0.01	22.77
rs254079	CD19 on IgD-CD38br	ebi-a-GCST90001734	5	115891083	G	A	3658	0.13	0.03	0.00	0.01	22.00
rs72998964	CD19 on IgD-CD38br	ebi-a-GCST90001734	6	150723408	A	G	3658	-0.23	0.05	0.00	0.01	20.61
rs112139040	CD19 on IgD-CD38br	ebi-a-GCST90001734	7	46094636	G	T	3658	-1.04	0.24	0.00	0.01	19.55
rs139775632	CD19 on IgD-CD38br	ebi-a-GCST90001734	7	6917201	G	A	3658	-0.65	0.13	0.00	0.01	25.10
rs79290247	CD19 on IgD-CD38br	ebi-a-GCST90001734	7	42996587	T	C	3658	-0.56	0.12	0.00	0.01	20.21
rs73718149	CD19 on IgD-CD38br	ebi-a-GCST90001734	8	144813778	C	T	3658	-0.45	0.10	0.00	0.01	19.77
rs147763919	CD19 on IgD-CD38br	ebi-a-GCST90001734	8	62358083	C	A	3658	0.20	0.04	0.00	0.01	21.22
rs117647889	CD19 on IgD-CD38br	ebi-a-GCST90001734	9	1239174	T	C	3658	0.84	0.19	0.00	0.01	20.61
rs117553718	CD19 on IgD-CD38br	ebi-a-GCST90001734	10	5865812	A	G	3658	0.55	0.11	0.00	0.01	25.52
rs1871013	CD19 on IgD-CD38br	ebi-a-GCST90001734	15	27842066	A	G	3658	-0.15	0.03	0.00	0.01	19.98
rs4968431	CD19 on IgD-CD38br	ebi-a-GCST90001734	17	59421778	G	T	3658	0.13	0.03	0.00	0.01	24.65
rs75117490	CD19 on IgD-CD38br	ebi-a-GCST90001734	18	58322970	G	A	3658	0.19	0.04	0.00	0.01	22.55
rs215237	CD19 on IgD-CD38br	ebi-a-GCST90001734	19	56404703	A	G	3658	-0.13	0.03	0.00	0.01	20.61
rs112417310	CD19 on IgD-CD38dim	ebi-a-GCST90001735	1	206855483	A	G	3657	0.54	0.09	0.00	0.01	36.46
rs145924813	CD19 on IgD-CD38dim	ebi-a-GCST90001735	1	28617041	T	C	3657	0.34	0.07	0.00	0.01	23.60
rs141619127	CD19 on IgD-CD38dim	ebi-a-GCST90001735	1	204227546	T	C	3657	-0.75	0.17	0.00	0.01	19.66
rs113812519	CD19 on IgD-CD38dim	ebi-a-GCST90001735	1	207276336	G	A	3657	0.43	0.09	0.00	0.01	22.24
rs80268044	CD19 on IgD-CD38dim	ebi-a-GCST90001735	2	43810948	A	G	3657	0.15	0.03	0.00	0.01	20.26
rs74705306	CD19 on IgD-CD38dim	ebi-a-GCST90001735	4	189782918	A	G	3657	-0.20	0.04	0.00	0.01	19.58
rs7665261	CD19 on IgD-CD38dim	ebi-a-GCST90001735	4	26464043	T	C	3657	-0.73	0.16	0.00	0.01	21.33
rs281142	CD19 on IgD-CD38dim	ebi-a-GCST90001735	5	70969845	A	G	3657	0.25	0.05	0.00	0.01	23.79
rs56044553	CD19 on IgD-CD38dim	ebi-a-GCST90001735	5	173972294	T	C	3657	0.12	0.02	0.00	0.01	23.61
rs73275737	CD19 on IgD-CD38dim	ebi-a-GCST90001735	5	148626837	G	C	3657	-0.46	0.10	0.00	0.01	21.18
rs764603	CD19 on IgD-CD38dim	ebi-a-GCST90001735	6	36793516	C	A	3657	0.48	0.11	0.00	0.01	19.95
rs2281460	CD19 on IgD-CD38dim	ebi-a-GCST90001735	6	42130300	A	G	3657	0.14	0.03	0.00	0.01	21.26
rs9465443	CD19 on IgD-CD38dim	ebi-a-GCST90001735	6	19563666	C	T	3657	-0.27	0.06	0.00	0.01	22.85
rs114369132	CD19 on IgD-CD38dim	ebi-a-GCST90001735	6	32409141	A	C	3657	0.66	0.14	0.00	0.01	21.28

rs180723221	CD19 on IgD- CD38dim	ebi-a-GCST90001735	7	103091403	T	A	3657	0.33	0.07	0.00	0.01	20.35
rs62463053	CD19 on IgD- CD38dim	ebi-a-GCST90001735	7	51994027	C	G	3657	-0.13	0.03	0.00	0.01	22.20
rs2512433	CD19 on IgD- CD38dim	ebi-a-GCST90001735	8	98632764	G	A	3657	0.12	0.03	0.00	0.01	20.86
rs560933055	CD19 on IgD- CD38dim	ebi-a-GCST90001735	10	1717689	A	T	3657	-1.23	0.27	0.00	0.01	21.07
rs17706571	CD19 on IgD- CD38dim	ebi-a-GCST90001735	12	29271392	T	C	3657	0.44	0.10	0.00	0.01	19.80
rs2971439	CD19 on IgD- CD38dim	ebi-a-GCST90001735	12	118282893	G	T	3657	0.17	0.04	0.00	0.01	21.43
rs6575228	CD19 on IgD- CD38dim	ebi-a-GCST90001735	14	92561395	A	G	3657	-0.11	0.02	0.00	0.01	20.29
rs11643297	CD19 on IgD- CD38dim	ebi-a-GCST90001735	16	28973268	G	A	3657	0.17	0.03	0.00	0.01	43.27
rs138920008	CD19 on IgD- CD38dim	ebi-a-GCST90001735	16	32422808	C	G	3657	-1.51	0.22	0.00	0.01	49.24
rs6500310	CD19 on IgD- CD38dim	ebi-a-GCST90001735	16	50422996	T	C	3657	-0.13	0.03	0.00	0.01	19.59
rs7197237	CD19 on IgD- CD38dim	ebi-a-GCST90001735	16	49673381	A	G	3657	0.17	0.04	0.00	0.01	20.99
rs6509969	CD19 on IgD- CD38dim	ebi-a-GCST90001735	19	56415502	A	G	3657	0.15	0.03	0.00	0.01	20.52
rs137949497	CD19 on IgD- CD38dim	ebi-a-GCST90001735	21	32136760	G	T	3657	0.49	0.10	0.00	0.01	23.42
rs113612962	CD19 on IgD- CD38dim	ebi-a-GCST90001735	22	43167446	C	G	3657	-0.34	0.06	0.00	0.01	30.37
rs5762000	CD19 on IgD- CD38dim	ebi-a-GCST90001735	22	27530934	T	C	3657	0.14	0.03	0.00	0.01	20.27
rs113812519	CD19 on memory B	ebi-a-GCST90001736	1	207276336	G	A	3657	0.50	0.09	0.00	0.01	29.46
rs4649079	CD19 on memory B	ebi-a-GCST90001736	1	25535823	T	C	3657	0.21	0.04	0.00	0.01	25.25
rs10917581	CD19 on memory B	ebi-a-GCST90001736	1	162624504	G	A	3657	0.13	0.03	0.00	0.01	19.98
rs112417310	CD19 on memory B	ebi-a-GCST90001736	1	206855483	A	G	3657	0.51	0.09	0.00	0.01	32.76
rs79856590	CD19 on memory B	ebi-a-GCST90001736	1	205241642	A	G	3657	0.26	0.05	0.00	0.01	25.22
rs80268044	CD19 on memory B	ebi-a-GCST90001736	2	43810948	A	G	3657	0.15	0.03	0.00	0.01	19.79
rs1439005	CD19 on memory B	ebi-a-GCST90001736	3	61094800	C	G	3657	-0.11	0.02	0.00	0.01	21.19
rs7665261	CD19 on memory B	ebi-a-GCST90001736	4	26464043	T	C	3657	-0.74	0.16	0.00	0.01	22.09
rs7718237	CD19 on memory B	ebi-a-GCST90001736	5	173972852	A	G	3657	0.11	0.02	0.00	0.01	19.97
rs576166	CD19 on memory B	ebi-a-GCST90001736	6	33567104	G	T	3657	-0.17	0.04	0.00	0.01	23.04
rs184318978	CD19 on memory B	ebi-a-GCST90001736	6	37497511	G	A	3657	-0.35	0.08	0.00	0.01	20.64
rs9350187	CD19 on memory B	ebi-a-GCST90001736	6	19794487	T	C	3657	-0.24	0.05	0.00	0.01	22.35
rs767666	CD19 on memory B	ebi-a-GCST90001736	7	43485898	G	A	3657	-0.15	0.03	0.00	0.01	20.32
rs73393708	CD19 on memory B	ebi-a-GCST90001736	7	90292336	G	T	3657	0.16	0.03	0.00	0.01	21.38
rs78007482	CD19 on memory B	ebi-a-GCST90001736	8	133189482	A	T	3657	-0.20	0.05	0.00	0.01	19.80
rs75904904	CD19 on memory B	ebi-a-GCST90001736	9	36949205	A	C	3657	-0.90	0.19	0.00	0.01	22.86
rs560933055	CD19 on memory B	ebi-a-GCST90001736	10	1717689	A	T	3657	-1.34	0.27	0.00	0.01	24.56
rs7900621	CD19 on memory B	ebi-a-GCST90001736	10	125702232	G	A	3657	0.11	0.02	0.00	0.01	20.62
rs17706571	CD19 on memory B	ebi-a-GCST90001736	12	29271392	T	C	3657	0.44	0.10	0.00	0.01	20.25
rs766977	CD19 on memory B	ebi-a-GCST90001736	12	50290056	A	G	3657	-0.45	0.10	0.00	0.01	19.70
rs10162314	CD19 on memory B	ebi-a-GCST90001736	14	70990398	A	G	3657	0.49	0.11	0.00	0.01	19.88
rs11643297	CD19 on memory B	ebi-a-GCST90001736	16	28973268	G	A	3657	0.15	0.03	0.00	0.01	33.41

rs138920008	CD19 on memory B	ebi-a-GCST90001736	16	32422808	C	G	3657	-1.28	0.22	0.00	0.01	34.42
rs72988602	CD19 on memory B	ebi-a-GCST90001736	19	7114038	G	A	3657	0.17	0.04	0.00	0.01	21.46
rs2903728	CD19 on memory B	ebi-a-GCST90001736	19	56408295	C	T	3657	-0.18	0.04	0.00	0.01	22.01
rs138273613	CD19 on memory B	ebi-a-GCST90001736	22	39369842	T	G	3657	-1.12	0.25	0.00	0.01	19.72
rs5762000	CD19 on memory B	ebi-a-GCST90001736	22	27530934	T	C	3657	0.15	0.03	0.00	0.01	24.40
rs113612962	CD19 on memory B	ebi-a-GCST90001736	22	43167446	C	G	3657	-0.31	0.06	0.00	0.01	24.83
rs79856590	naive-mature B cell CD19 on	ebi-a-GCST90001737	1	205241642	A	G	3653	0.29	0.05	0.00	0.01	32.88
rs142109788	naive-mature B cell CD19 on	ebi-a-GCST90001737	1	149815561	G	A	3653	-1.79	0.39	0.00	0.01	21.10
rs75320486	naive-mature B cell CD19 on	ebi-a-GCST90001737	1	206842241	A	G	3653	0.44	0.08	0.00	0.01	31.01
rs113812519	naive-mature B cell CD19 on	ebi-a-GCST90001737	1	207276336	G	A	3653	0.50	0.09	0.00	0.01	29.67
rs34165814	naive-mature B cell CD19 on	ebi-a-GCST90001737	2	89486664	C	T	3653	0.26	0.06	0.00	0.01	21.40
rs1449311	naive-mature B cell CD19 on	ebi-a-GCST90001737	3	100703124	A	G	3653	0.13	0.03	0.00	0.01	21.80
rs11733521	naive-mature B cell CD19 on	ebi-a-GCST90001737	4	68968349	T	C	3653	-0.22	0.05	0.00	0.01	19.66
rs78895027	naive-mature B cell CD19 on	ebi-a-GCST90001737	6	112306917	C	T	3653	0.18	0.04	0.00	0.01	22.61
rs117065975	naive-mature B cell CD19 on	ebi-a-GCST90001737	6	142183647	G	A	3653	0.64	0.14	0.00	0.01	21.40
rs9469775	naive-mature B cell CD19 on	ebi-a-GCST90001737	6	34335091	T	C	3653	-0.13	0.03	0.00	0.01	19.65
rs76162621	naive-mature B cell CD19 on	ebi-a-GCST90001737	6	68486690	G	A	3653	-1.04	0.23	0.00	0.01	20.76
rs12216684	naive-mature B cell CD19 on	ebi-a-GCST90001737	7	56291533	A	G	3653	0.27	0.05	0.00	0.01	25.18
rs62524107	naive-mature B cell CD19 on	ebi-a-GCST90001737	8	141805137	C	T	3653	-0.25	0.05	0.00	0.01	21.35
rs147319341	naive-mature B cell CD19 on	ebi-a-GCST90001737	8	11301733	A	G	3653	0.38	0.09	0.00	0.01	19.63
rs75912463	naive-mature B cell CD19 on	ebi-a-GCST90001737	9	133354402	C	T	3653	-3.10	0.68	0.00	0.01	20.91
rs34798965	naive-mature B cell CD19 on	ebi-a-GCST90001737	10	71647692	A	C	3653	-0.20	0.04	0.00	0.01	20.71
rs11825488	naive-mature B cell CD19 on	ebi-a-GCST90001737	11	72165045	A	G	3653	-1.16	0.25	0.00	0.01	21.02
rs67316035	naive-mature B cell CD19 on	ebi-a-GCST90001737	11	132221605	A	T	3653	-0.19	0.04	0.00	0.01	22.92
rs79699942	naive-mature B cell CD19 on	ebi-a-GCST90001737	12	44929593	G	A	3653	0.18	0.04	0.00	0.01	21.19
rs74455073	naive-mature B cell	ebi-a-GCST90001737	12	54902972	C	T	3653	-0.20	0.04	0.00	0.01	20.73

rs10875904	CD19 on naive-mature B cell	ebi-a-GCST90001737	12	49357889	C	A	3653	0.11	0.02	0.00	0.01	20.49
rs12100549	CD19 on naive-mature B cell	ebi-a-GCST90001737	14	103417030	T	C	3653	0.27	0.06	0.00	0.01	19.68
rs11855577	CD19 on naive-mature B cell	ebi-a-GCST90001737	15	65507482	G	C	3653	0.12	0.03	0.00	0.01	19.81
rs117634515	CD19 on naive-mature B cell	ebi-a-GCST90001737	15	88610884	T	G	3653	-0.94	0.21	0.00	0.01	20.26
rs138920008	CD19 on naive-mature B cell	ebi-a-GCST90001737	16	32422808	C	G	3653	-1.03	0.22	0.00	0.01	22.37
rs754067	CD19 on naive-mature B cell	ebi-a-GCST90001737	16	17323672	C	T	3653	-0.18	0.04	0.00	0.01	21.24
rs148381451	CD19 on naive-mature B cell	ebi-a-GCST90001737	17	63085557	T	C	3653	-0.26	0.06	0.00	0.01	21.43
rs2903728	CD19 on naive-mature B cell	ebi-a-GCST90001737	19	56408295	C	T	3653	-0.18	0.04	0.00	0.01	21.53
rs593715	CD19 on naive-mature B cell	ebi-a-GCST90001737	19	50734394	A	G	3653	0.14	0.03	0.00	0.01	23.05
rs113812519	CD19 on unsw mem	ebi-a-GCST90001738	1	207276336	G	A	3656	0.54	0.09	0.00	0.01	34.63
rs4649079	CD19 on unsw mem	ebi-a-GCST90001738	1	25535823	T	C	3656	0.20	0.04	0.00	0.01	23.01
rs144743804	CD19 on unsw mem	ebi-a-GCST90001738	1	207018206	A	G	3656	0.49	0.09	0.00	0.01	30.29
rs55712453	CD19 on unsw mem	ebi-a-GCST90001738	1	206902437	G	A	3656	0.57	0.09	0.00	0.01	40.66
rs80268044	CD19 on unsw mem	ebi-a-GCST90001738	2	43810948	A	G	3656	0.17	0.03	0.00	0.01	24.96
rs140108418	CD19 on unsw mem	ebi-a-GCST90001738	2	13573112	G	A	3656	1.97	0.42	0.00	0.01	22.35
rs9814135	CD19 on unsw mem	ebi-a-GCST90001738	3	194094110	C	T	3656	-0.18	0.04	0.00	0.01	20.85
rs1439005	CD19 on unsw mem	ebi-a-GCST90001738	3	61094800	C	G	3656	-0.13	0.02	0.00	0.01	25.81
rs4862454	CD19 on unsw mem	ebi-a-GCST90001738	4	185816062	A	G	3656	-0.12	0.03	0.00	0.01	19.80
rs7718237	CD19 on unsw mem	ebi-a-GCST90001738	5	173972852	A	G	3656	0.11	0.02	0.00	0.01	20.02
rs76162621	CD19 on unsw mem	ebi-a-GCST90001738	6	68486690	G	A	3656	-1.02	0.23	0.00	0.01	19.69
rs764603	CD19 on unsw mem	ebi-a-GCST90001738	6	36793516	C	A	3656	0.57	0.11	0.00	0.01	27.67
rs41272381	CD19 on unsw mem	ebi-a-GCST90001738	8	133192184	G	C	3656	-0.20	0.05	0.00	0.01	20.12
rs12554596	CD19 on unsw mem	ebi-a-GCST90001738	9	37002142	G	A	3656	-0.12	0.03	0.00	0.01	22.22
rs560933055	CD19 on unsw mem	ebi-a-GCST90001738	10	1717689	A	T	3656	-1.30	0.27	0.00	0.01	23.13
rs76223390	CD19 on unsw mem	ebi-a-GCST90001738	11	133434534	C	T	3656	-0.14	0.03	0.00	0.01	19.76
rs149168550	CD19 on unsw mem	ebi-a-GCST90001738	12	111354000	G	C	3656	0.23	0.05	0.00	0.01	20.96
rs4942349	CD19 on unsw mem	ebi-a-GCST90001738	13	31564105	G	A	3656	-0.12	0.03	0.00	0.01	20.54
rs6575228	CD19 on unsw mem	ebi-a-GCST90001738	14	92561395	A	G	3656	-0.11	0.02	0.00	0.01	20.07
rs138920008	CD19 on unsw mem	ebi-a-GCST90001738	16	32422808	C	G	3656	-1.28	0.22	0.00	0.01	34.78
rs11643297	CD19 on unsw mem	ebi-a-GCST90001738	16	28973268	G	A	3656	0.14	0.03	0.00	0.01	29.08
rs148381451	CD19 on unsw mem	ebi-a-GCST90001738	17	63085557	T	C	3656	-0.26	0.06	0.00	0.01	20.61
rs149041258	CD19 on unsw mem	ebi-a-GCST90001738	18	74408048	G	A	3656	-0.22	0.05	0.00	0.01	21.42

rs72988602	CD19 on unsw mem	ebi-a-GCST90001738	19	7114038	G	A	3656	0.18	0.04	0.00	0.01	23.87
rs77697711	CD19 on unsw mem	ebi-a-GCST90001738	22	45116977	A	C	3656	0.21	0.05	0.00	0.01	20.66
rs113612962	CD19 on unsw mem	ebi-a-GCST90001738	22	43167446	C	G	3656	-0.31	0.06	0.00	0.01	24.24
rs11585051	CD19 on PB/PC	ebi-a-GCST90001739	1	235762345	A	G	3657	0.12	0.02	0.00	0.01	22.39
rs78175608	CD19 on PB/PC	ebi-a-GCST90001739	2	233868788	A	C	3657	0.21	0.05	0.00	0.01	20.18
rs181547338	CD19 on PB/PC	ebi-a-GCST90001739	2	240579362	A	G	3657	0.33	0.07	0.00	0.01	22.12
rs6767669	CD19 on PB/PC	ebi-a-GCST90001739	3	116599500	A	G	3657	-0.16	0.04	0.00	0.01	21.66
rs76670160	CD19 on PB/PC	ebi-a-GCST90001739	3	54686737	T	C	3657	-0.54	0.11	0.00	0.01	22.90
rs79146843	CD19 on PB/PC	ebi-a-GCST90001739	3	165050068	A	G	3657	-0.55	0.12	0.00	0.01	22.62
rs115017263	CD19 on PB/PC	ebi-a-GCST90001739	4	55691063	T	G	3657	-0.20	0.05	0.00	0.01	20.26
rs6848130	CD19 on PB/PC	ebi-a-GCST90001739	4	81157098	C	T	3657	-0.14	0.03	0.00	0.01	20.38
rs138520806	CD19 on PB/PC	ebi-a-GCST90001739	5	3781931	A	G	3657	0.27	0.06	0.00	0.01	21.15
rs11748905	CD19 on PB/PC	ebi-a-GCST90001739	5	80934634	C	T	3657	-0.87	0.19	0.00	0.01	22.03
rs72759977	CD19 on PB/PC	ebi-a-GCST90001739	5	53665443	G	A	3657	0.16	0.03	0.00	0.01	21.81
rs117517136	CD19 on PB/PC	ebi-a-GCST90001739	8	88548115	G	A	3657	0.99	0.22	0.00	0.01	19.61
rs56799059	CD19 on PB/PC	ebi-a-GCST90001739	10	130289313	A	G	3657	-0.15	0.03	0.00	0.01	20.28
rs10858826	CD19 on PB/PC	ebi-a-GCST90001739	12	89505448	A	G	3657	-0.12	0.03	0.00	0.01	19.64
rs139369230	CD19 on PB/PC	ebi-a-GCST90001739	14	106204468	A	G	3657	0.55	0.12	0.00	0.01	20.35
rs7171754	CD19 on PB/PC	ebi-a-GCST90001739	15	96281487	A	T	3657	0.54	0.12	0.00	0.01	19.84
rs117491079	CD19 on PB/PC	ebi-a-GCST90001739	16	85272300	T	C	3657	0.34	0.06	0.00	0.01	29.35
rs9913983	CD19 on PB/PC	ebi-a-GCST90001739	17	56001319	T	C	3657	-0.30	0.07	0.00	0.01	19.99
rs740380	CD19 on PB/PC	ebi-a-GCST90001739	17	14221680	T	G	3657	0.23	0.05	0.00	0.01	22.01
rs72839309	CD19 on PB/PC	ebi-a-GCST90001739	17	66341775	G	C	3657	-0.20	0.04	0.00	0.01	21.00
rs2612375	CD19 on PB/PC	ebi-a-GCST90001739	18	73626676	A	T	3657	0.13	0.03	0.00	0.01	21.16
rs9961803	CD19 on PB/PC	ebi-a-GCST90001739	18	61174560	G	A	3657	-0.13	0.03	0.00	0.01	20.98
rs78258643	CD19 on PB/PC	ebi-a-GCST90001739	18	40527078	T	A	3657	0.26	0.05	0.00	0.01	27.32
rs11701275	CD19 on PB/PC	ebi-a-GCST90001739	21	16962765	G	T	3657	0.27	0.05	0.00	0.01	27.15
rs112417310	CD19 on sw mem	ebi-a-GCST90001740	1	206855483	A	G	3657	0.50	0.09	0.00	0.01	30.60
rs141619127	CD19 on sw mem	ebi-a-GCST90001740	1	204227546	T	C	3657	-0.77	0.17	0.00	0.01	20.63
rs145924813	CD19 on sw mem	ebi-a-GCST90001740	1	28617041	T	C	3657	0.33	0.07	0.00	0.01	21.24
rs113812519	CD19 on sw mem	ebi-a-GCST90001740	1	207276336	G	A	3657	0.43	0.09	0.00	0.01	21.78
rs80268044	CD19 on sw mem	ebi-a-GCST90001740	2	43810948	A	G	3657	0.15	0.03	0.00	0.01	19.57
rs1439005	CD19 on sw mem	ebi-a-GCST90001740	3	61094800	C	G	3657	-0.12	0.02	0.00	0.01	23.08
rs7665261	CD19 on sw mem	ebi-a-GCST90001740	4	26464043	T	C	3657	-0.73	0.16	0.00	0.01	20.91
rs281142	CD19 on sw mem	ebi-a-GCST90001740	5	70969845	A	G	3657	0.23	0.05	0.00	0.01	20.10
rs56044553	CD19 on sw mem	ebi-a-GCST90001740	5	173972294	T	C	3657	0.12	0.02	0.00	0.01	23.40
rs73275737	CD19 on sw mem	ebi-a-GCST90001740	5	148626837	G	C	3657	-0.45	0.10	0.00	0.01	19.85

rs116364947	CD19 on sw mem	ebi-a-GCST90001740	6	36809211	T	A	3657	0.53	0.11	0.00	0.01	25.43
rs2281460	CD19 on sw mem	ebi-a-GCST90001740	6	42130300	A	G	3657	0.14	0.03	0.00	0.01	21.70
rs9460382	CD19 on sw mem	ebi-a-GCST90001740	6	19564461	G	A	3657	-0.25	0.05	0.00	0.01	21.78
rs112126052	CD19 on sw mem	ebi-a-GCST90001740	6	32173757	A	T	3657	0.44	0.10	0.00	0.01	20.11
rs2357754	CD19 on sw mem	ebi-a-GCST90001740	6	120164685	T	C	3657	-0.12	0.03	0.00	0.01	22.45
rs9368123	CD19 on sw mem	ebi-a-GCST90001740	6	19798682	A	G	3657	-0.25	0.05	0.00	0.01	24.30
rs17242358	CD19 on sw mem	ebi-a-GCST90001740	8	129964873	A	G	3657	0.15	0.03	0.00	0.01	20.51
rs12554848	CD19 on sw mem	ebi-a-GCST90001740	9	36981822	C	T	3657	-0.11	0.03	0.00	0.01	20.57
rs560933055	CD19 on sw mem	ebi-a-GCST90001740	10	1717689	A	T	3657	-1.31	0.27	0.00	0.01	23.44
rs17706571	CD19 on sw mem	ebi-a-GCST90001740	12	29271392	T	C	3657	0.44	0.10	0.00	0.01	19.77
rs4343243	CD19 on sw mem	ebi-a-GCST90001740	15	77004600	A	G	3657	0.12	0.03	0.00	0.01	20.91
rs62059362	CD19 on sw mem	ebi-a-GCST90001740	16	35271879	T	C	3657	0.15	0.03	0.00	0.01	19.78
rs77162145	CD19 on sw mem	ebi-a-GCST90001740	16	48885048	C	T	3657	0.32	0.07	0.00	0.01	21.06
rs7189927	CD19 on sw mem	ebi-a-GCST90001740	16	28913787	C	T	3657	0.17	0.03	0.00	0.01	44.46
rs13382005	CD19 on sw mem	ebi-a-GCST90001740	18	58304032	G	A	3657	0.18	0.04	0.00	0.01	21.58
rs62124467	CD19 on sw mem	ebi-a-GCST90001740	19	7079452	T	C	3657	0.14	0.03	0.00	0.01	22.35
rs78614237	CD19 on sw mem	ebi-a-GCST90001740	20	47459855	C	G	3657	0.23	0.05	0.00	0.01	20.26
rs137949497	CD19 on sw mem	ebi-a-GCST90001740	21	32136760	G	T	3657	0.50	0.10	0.00	0.01	24.52
rs5762000	CD19 on sw mem	ebi-a-GCST90001740	22	27530934	T	C	3657	0.14	0.03	0.00	0.01	20.72
rs113612962	CD19 on sw mem	ebi-a-GCST90001740	22	43167446	C	G	3657	-0.34	0.06	0.00	0.01	29.78
rs112417310	CD19 on I σ N+	ebi-a-GCST90001741	1	206855483	A	G	3658	0.52	0.09	0.00	0.01	34.05
rs142109788	CD19 on I σ N+	ebi-a-GCST90001741	1	149815561	G	A	3658	-1.96	0.39	0.00	0.01	25.42
rs79856590	CD19 on I σ N+	ebi-a-GCST90001741	1	205241642	A	G	3658	0.27	0.05	0.00	0.01	28.49
rs11120838	CD19 on I σ N+	ebi-a-GCST90001741	1	7149639	G	C	3658	-0.29	0.06	0.00	0.01	22.18
rs113812519	CD19 on I σ N+	ebi-a-GCST90001741	1	207276336	G	A	3658	0.51	0.09	0.00	0.01	30.89
rs1862061	CD19 on I σ N+	ebi-a-GCST90001741	2	16800618	T	C	3658	-0.14	0.03	0.00	0.01	20.28
rs1449311	CD19 on I σ N+	ebi-a-GCST90001741	3	100703124	A	G	3658	0.12	0.03	0.00	0.01	21.18
rs10518007	CD19 on I σ N+	ebi-a-GCST90001741	4	67702525	T	A	3658	0.20	0.04	0.00	0.01	20.15
rs79550250	CD19 on I σ N+	ebi-a-GCST90001741	4	13123693	A	G	3658	-0.41	0.09	0.00	0.01	19.62
rs115727814	CD19 on I σ N+	ebi-a-GCST90001741	4	170699036	A	G	3658	-1.23	0.27	0.00	0.01	21.41
rs76162621	CD19 on I σ N+	ebi-a-GCST90001741	6	68486690	G	A	3658	-1.03	0.23	0.00	0.01	20.21
rs116364947	CD19 on I σ N+	ebi-a-GCST90001741	6	36809211	T	A	3658	0.48	0.11	0.00	0.01	21.17
rs17433679	CD19 on I σ N+	ebi-a-GCST90001741	7	78097255	G	A	3658	0.17	0.04	0.00	0.01	20.02
rs12216684	CD19 on I σ N+	ebi-a-GCST90001741	7	56291533	A	G	3658	0.27	0.05	0.00	0.01	25.31
rs80273434	CD19 on I σ N+	ebi-a-GCST90001741	8	141772905	C	G	3658	-0.25	0.05	0.00	0.01	21.83
rs557939103	CD19 on I σ N+	ebi-a-GCST90001741	8	9079951	A	G	3658	0.35	0.08	0.00	0.01	19.84
rs75912463	CD19 on I σ N+	ebi-a-GCST90001741	9	133354402	C	T	3658	-3.13	0.68	0.00	0.01	21.32
rs34798965	CD19 on I σ N+	ebi-a-GCST90001741	10	71647692	A	C	3658	-0.20	0.04	0.00	0.01	20.08
rs10894538	CD19 on I σ N+	ebi-a-GCST90001741	11	132222058	A	T	3658	-0.20	0.04	0.00	0.01	24.44
rs117004076	CD19 on I σ N+	ebi-a-GCST90001741	14	97702226	G	A	3658	0.49	0.10	0.00	0.01	22.91
rs138920008	CD19 on I σ N+	ebi-a-GCST90001741	16	32422808	C	G	3658	-1.09	0.22	0.00	0.01	25.22
rs78044532	CD19 on I σ N+	ebi-a-GCST90001741	16	21168467	T	C	3658	0.40	0.09	0.00	0.01	19.72

rs754067	CD19 on	ebi-a-GCST90001741	16	17323672	C	T	3658	-0.19	0.04	0.00	0.01	23.76
rs1290397	I σ N+ CD19 on	ebi-a-GCST90001741	17	77948063	A	G	3658	0.11	0.02	0.00	0.01	21.62
rs148381451	I σ N+ CD19 on	ebi-a-GCST90001741	17	63085557	T	C	3658	-0.29	0.06	0.00	0.01	26.41
rs8109226	I σ N+ CD19 on	ebi-a-GCST90001741	19	710050	G	T	3658	0.11	0.02	0.00	0.01	20.63
rs2903728	I σ N+ CD19 on	ebi-a-GCST90001741	19	56408295	C	T	3658	-0.18	0.04	0.00	0.01	20.68
rs34589185	I σ N+ CD19 on	ebi-a-GCST90001741	19	50761130	T	G	3658	0.11	0.03	0.00	0.01	19.57
rs144392728	I σ N+ CD19 on	ebi-a-GCST90001741	22	33029820	T	A	3658	-0.23	0.05	0.00	0.01	20.51
rs55712453	transitional CD19 on	ebi-a-GCST90001742	1	206902437	G	A	3657	0.56	0.09	0.00	0.01	37.86
rs2026774	transitional CD19 on	ebi-a-GCST90001742	1	86076069	C	T	3657	0.16	0.03	0.00	0.01	21.55
rs144743804	transitional CD19 on	ebi-a-GCST90001742	1	207018206	A	G	3657	0.54	0.09	0.00	0.01	35.82
rs113812519	transitional CD19 on	ebi-a-GCST90001742	1	207276336	G	A	3657	0.59	0.09	0.00	0.01	40.14
rs13030427	transitional CD19 on	ebi-a-GCST90001742	2	208879261	A	G	3657	0.14	0.03	0.00	0.01	19.81
rs116180572	transitional CD19 on	ebi-a-GCST90001742	3	61084498	T	G	3657	0.20	0.04	0.00	0.01	28.18
rs2290055	transitional CD19 on	ebi-a-GCST90001742	3	108549720	G	T	3657	-0.14	0.03	0.00	0.01	21.06
rs77953960	transitional CD19 on	ebi-a-GCST90001742	5	9427816	T	C	3657	0.27	0.06	0.00	0.01	20.40
rs13164259	transitional CD19 on	ebi-a-GCST90001742	5	82870211	A	C	3657	0.62	0.13	0.00	0.01	21.65
rs9459447	transitional CD19 on	ebi-a-GCST90001742	6	165954369	A	C	3657	-0.14	0.03	0.00	0.01	21.78
rs12216684	transitional CD19 on	ebi-a-GCST90001742	7	56291533	A	G	3657	0.26	0.05	0.00	0.01	23.61
rs35904103	transitional CD19 on	ebi-a-GCST90001742	7	43734219	A	G	3657	2.20	0.49	0.00	0.01	19.95
rs62519592	transitional CD19 on	ebi-a-GCST90001742	8	133193809	G	A	3657	-0.21	0.05	0.00	0.01	19.73
rs11825488	transitional CD19 on	ebi-a-GCST90001742	11	72165045	A	G	3657	-1.29	0.26	0.00	0.01	25.50
rs117442206	transitional CD19 on	ebi-a-GCST90001742	12	25430787	T	C	3657	-0.26	0.06	0.00	0.01	20.14
rs115570551	transitional CD19 on	ebi-a-GCST90001742	14	53874261	A	G	3657	0.17	0.04	0.00	0.01	22.05
rs935131	transitional CD19 on	ebi-a-GCST90001742	15	65625991	A	G	3657	0.12	0.03	0.00	0.01	20.79
rs138920008	transitional CD19 on	ebi-a-GCST90001742	16	32422808	C	G	3657	-1.30	0.22	0.00	0.01	35.09
rs151295797	transitional CD19 on	ebi-a-GCST90001742	16	84071182	G	A	3657	0.52	0.11	0.00	0.01	21.57
rs28626305	transitional CD19 on	ebi-a-GCST90001742	16	24921264	T	C	3657	-0.13	0.03	0.00	0.01	20.82
rs933570	transitional CD19 on	ebi-a-GCST90001742	16	11760186	C	T	3657	-0.12	0.03	0.00	0.01	21.62
rs148381451	transitional CD19 on	ebi-a-GCST90001742	17	63085557	T	C	3657	-0.28	0.06	0.00	0.01	24.69
rs9949821	transitional CD19 on	ebi-a-GCST90001742	18	54242149	A	G	3657	0.16	0.03	0.00	0.01	21.21
rs1667906	transitional CD19 on	ebi-a-GCST90001742	18	74839524	G	T	3657	0.14	0.03	0.00	0.01	21.71
rs73146562	transitional CD19 on	ebi-a-GCST90001742	20	52477220	T	C	3657	-0.78	0.17	0.00	0.01	20.07
rs117562840	transitional CD19 on	ebi-a-GCST90001742	22	42680877	A	G	3657	-0.80	0.17	0.00	0.01	23.18
rs113371046	CD20 on B cell	ebi-a-GCST90001743	1	17595034	A	G	3660	0.23	0.05	0.00	0.01	20.45
rs79003098	CD20 on B cell	ebi-a-GCST90001743	2	81965038	A	T	3660	-0.15	0.03	0.00	0.01	21.04
rs187188344	CD20 on B cell	ebi-a-GCST90001743	2	178858731	G	C	3660	0.37	0.08	0.00	0.01	22.10
rs78296478	CD20 on B cell	ebi-a-GCST90001743	2	125069044	A	C	3660	0.40	0.09	0.00	0.01	20.30
rs75097128	CD20 on B cell	ebi-a-GCST90001743	4	113292746	G	A	3660	-0.47	0.10	0.00	0.01	23.98

rs13109614	CD20 on B cell	ebi-a-GCST90001743	4	62019413	G	A	3660	0.13	0.03	0.00	0.01	20.15
rs28620974	CD20 on B cell	ebi-a-GCST90001743	4	137463130	C	G	3660	0.22	0.05	0.00	0.01	19.65
rs73245560	CD20 on B cell	ebi-a-GCST90001743	4	43987474	C	T	3660	0.41	0.09	0.00	0.01	19.61
rs80155794	CD20 on B cell	ebi-a-GCST90001743	5	178957291	A	G	3660	-0.34	0.07	0.00	0.01	21.08
rs3933208	CD20 on B cell	ebi-a-GCST90001743	5	161458204	A	T	3660	0.12	0.03	0.00	0.01	21.90
rs77612075	CD20 on B cell	ebi-a-GCST90001743	5	162820460	T	C	3660	0.35	0.07	0.00	0.01	23.52
rs72836542	CD20 on B cell	ebi-a-GCST90001743	6	14091682	T	C	3660	0.13	0.03	0.00	0.01	24.41
rs9277628	CD20 on B cell	ebi-a-GCST90001743	6	33082040	C	A	3660	0.15	0.03	0.00	0.01	21.13
rs9375555	CD20 on B cell	ebi-a-GCST90001743	6	128547994	A	G	3660	-1.64	0.36	0.00	0.01	20.69
rs233495	CD20 on B cell	ebi-a-GCST90001743	6	14806317	T	C	3660	-0.12	0.02	0.00	0.01	22.08
rs6901175	CD20 on B cell	ebi-a-GCST90001743	6	32198527	A	G	3660	0.16	0.03	0.00	0.01	26.03
rs35139284	CD20 on B cell	ebi-a-GCST90001743	6	32561370	T	C	3660	0.18	0.03	0.00	0.01	39.55
rs12212931	CD20 on B cell	ebi-a-GCST90001743	6	15913304	G	T	3660	0.21	0.03	0.00	0.01	44.41
rs2975021	CD20 on B cell	ebi-a-GCST90001743	6	29878559	A	G	3660	0.15	0.03	0.00	0.01	24.66
rs388354	CD20 on B cell	ebi-a-GCST90001743	7	40190449	C	A	3660	-0.12	0.02	0.00	0.01	24.54
rs75071948	CD20 on B cell	ebi-a-GCST90001743	9	75768836	G	T	3660	0.26	0.06	0.00	0.01	19.67
rs1941018	CD20 on B cell	ebi-a-GCST90001743	11	60268994	G	A	3660	-0.18	0.02	0.00	0.01	52.74
rs143129208	CD20 on B cell	ebi-a-GCST90001743	11	99391820	G	A	3660	1.06	0.23	0.00	0.01	20.67
rs11051833	CD20 on B cell	ebi-a-GCST90001743	12	32330242	T	C	3660	-0.36	0.07	0.00	0.01	23.56
rs4768810	CD20 on B cell	ebi-a-GCST90001743	12	47866824	T	C	3660	0.20	0.05	0.00	0.01	20.05
rs6496328	CD20 on B cell	ebi-a-GCST90001743	15	86988686	T	C	3660	-0.30	0.06	0.00	0.01	22.59
rs8025257	CD20 on B cell	ebi-a-GCST90001743	15	89600226	C	T	3660	-0.14	0.03	0.00	0.01	21.56
rs354026	CD20 on B cell	ebi-a-GCST90001743	19	49841054	T	G	3660	0.20	0.03	0.00	0.01	46.38
rs2861007	CD20 on CD20- CD38-	ebi-a-GCST90001744	2	66306389	T	A	3606	-0.12	0.02	0.00	0.01	24.22
rs73015549	CD20 on CD20- CD38-	ebi-a-GCST90001744	3	7495328	G	C	3606	0.27	0.06	0.00	0.01	21.30
rs572468	CD20 on CD20- CD38-	ebi-a-GCST90001744	4	13993465	G	C	3606	-0.12	0.02	0.00	0.01	22.45
rs116559476	CD20 on CD20- CD38-	ebi-a-GCST90001744	4	180025316	A	G	3606	-0.89	0.19	0.00	0.01	22.52
rs4921509	CD20 on CD20- CD38-	ebi-a-GCST90001744	5	159000854	C	G	3606	-0.11	0.03	0.00	0.01	19.79
rs79248632	CD20 on CD20- CD38-	ebi-a-GCST90001744	5	158319820	T	C	3606	-0.20	0.05	0.00	0.01	20.00
rs1558186	CD20 on CD20- CD38-	ebi-a-GCST90001744	5	133041544	A	G	3606	-0.11	0.02	0.00	0.01	19.70
rs34280838	CD20 on CD20- CD38-	ebi-a-GCST90001744	6	32139565	C	T	3606	-0.16	0.03	0.00	0.01	24.66
rs6930288	CD20 on CD20- CD38-	ebi-a-GCST90001744	6	29098881	T	A	3606	-0.15	0.03	0.00	0.01	21.53
rs2188517	CD20 on CD20- CD38-	ebi-a-GCST90001744	7	90108278	A	G	3606	0.11	0.03	0.00	0.01	19.80
rs41329345	CD20 on CD20- CD38-	ebi-a-GCST90001744	7	48456925	C	T	3606	-0.13	0.03	0.00	0.01	24.33
rs2243879	CD20 on CD20- CD38-	ebi-a-GCST90001744	10	35622558	C	G	3606	-0.11	0.02	0.00	0.01	20.68
rs35857670	CD20 on CD20- CD38-	ebi-a-GCST90001744	10	82607555	A	G	3606	0.18	0.04	0.00	0.01	19.58
rs1318389	CD20 on CD20- CD38-	ebi-a-GCST90001744	13	35149649	C	A	3606	0.31	0.07	0.00	0.01	20.90

rs145619091	CD20 on CD20- CD38-	ebi-a-GCST90001744	17	4261253	C	G	3606	0.33	0.07	0.00	0.01	20.01
rs12952217	CD20 on CD20- CD38-	ebi-a-GCST90001744	17	1018426	G	C	3606	-0.13	0.03	0.00	0.01	19.60
rs12977515	CD20 on CD20- CD38-	ebi-a-GCST90001744	19	16391727	T	G	3606	0.30	0.07	0.00	0.01	19.74
rs10426452	CD20 on CD20- CD38-	ebi-a-GCST90001744	19	49907690	A	G	3606	-0.12	0.03	0.00	0.01	21.05
rs5997212	CD20 on CD20- CD38-	ebi-a-GCST90001744	22	27679924	A	T	3606	-0.23	0.05	0.00	0.01	19.97
rs187188344	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	2	178858731	G	C	3657	0.37	0.08	0.00	0.01	22.06
rs13080324	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	3	111952407	A	C	3657	0.11	0.03	0.00	0.01	20.12
rs149204679	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	3	27240644	G	A	3657	-1.32	0.29	0.00	0.01	20.55
rs62340965	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	4	190508875	A	T	3657	-0.15	0.03	0.00	0.01	23.26
rs2114442	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	4	100832060	T	C	3657	0.12	0.03	0.00	0.01	23.13
rs77612075	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	5	162820460	T	C	3657	0.32	0.07	0.00	0.01	20.52
rs114915558	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	5	98564385	G	A	3657	0.30	0.07	0.00	0.01	20.13
rs295654	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	5	58107171	T	C	3657	0.11	0.03	0.00	0.01	20.02
rs6459417	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	6	15858996	T	C	3657	0.21	0.04	0.00	0.01	33.50
rs9400057	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	6	107162216	A	G	3657	0.26	0.05	0.00	0.01	22.77
rs111259171	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	6	32640351	G	A	3657	0.25	0.04	0.00	0.01	32.34
rs12196019	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	6	31005483	A	C	3657	0.24	0.05	0.00	0.01	26.89
rs9461557	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	6	29765925	T	C	3657	0.29	0.05	0.00	0.01	32.42
rs6922309	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	6	31321238	C	G	3657	0.21	0.04	0.00	0.01	28.65
rs12554596	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	9	37002142	G	A	3657	-0.12	0.03	0.00	0.01	21.15
rs7035906	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	9	95898832	A	G	3657	0.28	0.06	0.00	0.01	20.05
rs75071948	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	9	75768836	G	T	3657	0.27	0.06	0.00	0.01	20.76
rs78850316	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	10	99560231	T	C	3657	-0.36	0.08	0.00	0.01	20.15
rs11187166	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	10	94516008	T	C	3657	0.18	0.03	0.00	0.01	30.77
rs74621542	CD24+ CD27+ CD20 on	ebi-a-GCST90001745	11	60166613	C	T	3657	-0.29	0.04	0.00	0.01	46.57
rs7128035	CD24+ CD27+	ebi-a-GCST90001745	11	268078	C	T	3657	-0.13	0.03	0.00	0.01	22.99

rs149695230	CD20 on CD24+	ebi-a-GCST90001745	11	60288804	G	T	3657	0.19	0.04	0.00	0.01	22.43
rs111896387	CD27+ CD20 on CD24+	ebi-a-GCST90001745	12	45116844	T	C	3657	0.22	0.05	0.00	0.01	19.92
rs2578469	CD27+ CD20 on CD24+	ebi-a-GCST90001745	12	4101401	A	G	3657	-0.12	0.03	0.00	0.01	20.59
rs61958965	CD27+ CD20 on CD24+	ebi-a-GCST90001745	13	72232674	T	C	3657	-0.40	0.09	0.00	0.01	20.30
rs149214933	CD27+ CD20 on CD24+	ebi-a-GCST90001745	13	64174465	G	T	3657	-0.78	0.16	0.00	0.01	22.78
rs62000215	CD27+ CD20 on CD24+	ebi-a-GCST90001745	15	31184858	T	C	3657	-0.85	0.18	0.00	0.01	21.40
rs141211110	CD27+ CD20 on CD24+	ebi-a-GCST90001745	16	61118647	T	C	3657	0.77	0.17	0.00	0.01	20.21
rs179212	CD27+ CD20 on CD24+	ebi-a-GCST90001745	16	19308868	C	T	3657	-0.22	0.05	0.00	0.01	21.95
rs141121779	CD27+ CD20 on CD24+	ebi-a-GCST90001745	19	49998328	A	G	3657	0.24	0.05	0.00	0.01	22.75
rs61731791	CD27+ CD20 on CD24+	ebi-a-GCST90001745	19	50940778	T	C	3657	0.22	0.04	0.00	0.01	28.13
rs55809481	CD27+ CD20 on CD24+	ebi-a-GCST90001745	19	49872521	C	T	3657	-0.28	0.03	0.00	0.03	97.86
rs116729050	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	1	62560039	A	G	3657	-0.24	0.05	0.00	0.01	20.83
rs149204679	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	3	27240644	G	A	3657	-1.32	0.29	0.00	0.01	20.54
rs35525697	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	3	149086665	T	A	3657	0.11	0.02	0.00	0.01	20.92
rs62340965	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	4	190508875	A	T	3657	-0.16	0.03	0.00	0.01	24.95
rs4700466	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	5	61352528	C	T	3657	-0.11	0.02	0.00	0.01	20.00
rs114915558	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	5	98564385	G	A	3657	0.31	0.07	0.00	0.01	21.59
rs77121649	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	6	31812140	T	C	3657	0.24	0.05	0.00	0.01	24.88
rs3129750	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	6	32581515	A	G	3657	-0.16	0.03	0.00	0.01	21.91
rs9461562	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	6	29778271	G	A	3657	0.27	0.05	0.00	0.01	29.28
rs1569590	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	6	15898884	G	A	3657	0.21	0.04	0.00	0.01	31.78
rs28572463	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	6	31209854	C	G	3657	0.24	0.05	0.00	0.01	26.40
rs13207893	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	6	32586922	C	T	3657	0.14	0.03	0.00	0.01	22.71
rs79110866	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	9	75709022	G	A	3657	0.28	0.06	0.00	0.01	21.43
rs76239564	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	10	6361438	G	A	3657	0.65	0.14	0.00	0.01	20.52
rs4746507	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	10	67086564	A	C	3657	0.13	0.03	0.00	0.01	24.08
rs1941033	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	11	60249526	T	C	3657	-0.22	0.04	0.00	0.01	28.56
rs7128035	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	11	268078	C	T	3657	-0.13	0.03	0.00	0.01	22.30
rs149214933	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	13	64174465	G	T	3657	-0.73	0.16	0.00	0.01	20.17
rs2532969	IgD+ CD24+ CD20 on	ebi-a-GCST90001746	13	50896167	T	C	3657	0.12	0.03	0.00	0.01	20.04
rs62000215	IgD+ CD24+	ebi-a-GCST90001746	15	31184858	T	C	3657	-0.89	0.18	0.00	0.01	23.45

rs66637059	CD20 on IgD+ CD24+	ebi-a-GCST90001746	17	17417808	T	C	3657	-0.16	0.04	0.00	0.01	19.81
rs11662753	CD20 on IgD+ CD24+	ebi-a-GCST90001746	18	60657744	G	C	3657	0.17	0.04	0.00	0.01	19.67
rs61731791	CD20 on IgD+ CD24+	ebi-a-GCST90001746	19	50940778	T	C	3657	0.21	0.04	0.00	0.01	24.64
rs55809481	CD20 on IgD+ CD24+	ebi-a-GCST90001746	19	49872521	C	T	3657	-0.21	0.03	0.00	0.01	54.79
rs62623429	CD20 on IgD+ CD24+	ebi-a-GCST90001746	19	51714781	T	C	3657	0.64	0.14	0.00	0.01	19.87
rs113371046	CD20 on IgD+ CD24-	ebi-a-GCST90001747	1	17595034	A	G	3657	0.24	0.05	0.00	0.01	22.60
rs1293260	CD20 on IgD+ CD24-	ebi-a-GCST90001747	1	25709104	G	C	3657	0.12	0.03	0.00	0.01	19.95
rs111741355	CD20 on IgD+ CD24-	ebi-a-GCST90001747	1	48095312	A	G	3657	-2.65	0.57	0.00	0.01	21.49
rs149360160	CD20 on IgD+ CD24-	ebi-a-GCST90001747	2	229499798	T	C	3657	-2.45	0.52	0.00	0.01	22.40
rs842631	CD20 on IgD+ CD24-	ebi-a-GCST90001747	2	61085723	T	C	3657	0.12	0.03	0.00	0.01	22.33
rs6443362	CD20 on IgD+ CD24-	ebi-a-GCST90001747	3	176369881	T	C	3657	0.11	0.02	0.00	0.01	20.44
rs13070807	CD20 on IgD+ CD24-	ebi-a-GCST90001747	3	56847945	G	C	3657	-0.12	0.03	0.00	0.01	21.87
rs73245560	CD20 on IgD+ CD24-	ebi-a-GCST90001747	4	43987474	C	T	3657	0.43	0.09	0.00	0.01	21.45
rs80155794	CD20 on IgD+ CD24-	ebi-a-GCST90001747	5	178957291	A	G	3657	-0.34	0.07	0.00	0.01	20.93
rs3933208	CD20 on IgD+ CD24-	ebi-a-GCST90001747	5	161458204	A	T	3657	0.13	0.03	0.00	0.01	24.71
rs72836542	CD20 on IgD+ CD24-	ebi-a-GCST90001747	6	14091682	T	C	3657	0.16	0.03	0.00	0.01	37.52
rs55643835	CD20 on IgD+ CD24-	ebi-a-GCST90001747	6	33947909	T	C	3657	-0.28	0.05	0.00	0.01	26.58
rs62405562	CD20 on IgD+ CD24-	ebi-a-GCST90001747	6	32451834	G	A	3657	0.19	0.03	0.00	0.01	46.31
rs2066399	CD20 on IgD+ CD24-	ebi-a-GCST90001747	6	15880540	A	G	3657	0.23	0.03	0.00	0.01	49.05
rs233495	CD20 on IgD+ CD24-	ebi-a-GCST90001747	6	14806317	T	C	3657	-0.12	0.02	0.00	0.01	25.01
rs9270560	CD20 on IgD+ CD24-	ebi-a-GCST90001747	6	32560741	C	T	3657	-0.17	0.03	0.00	0.01	32.45
rs388354	CD20 on IgD+ CD24-	ebi-a-GCST90001747	7	40190449	C	A	3657	-0.13	0.02	0.00	0.01	29.56
rs12771377	CD20 on IgD+ CD24-	ebi-a-GCST90001747	10	22717779	G	A	3657	0.29	0.06	0.00	0.01	19.93
rs4939384	CD20 on IgD+ CD24-	ebi-a-GCST90001747	11	60273642	G	A	3657	-0.20	0.02	0.00	0.02	67.92
rs11059642	CD20 on IgD+ CD24-	ebi-a-GCST90001747	12	128795644	A	G	3657	0.14	0.03	0.00	0.01	22.05
rs11051833	CD20 on IgD+ CD24-	ebi-a-GCST90001747	12	32330242	T	C	3657	-0.34	0.07	0.00	0.01	21.71
rs56132967	CD20 on IgD+ CD24-	ebi-a-GCST90001747	14	61644977	T	G	3657	-0.35	0.08	0.00	0.01	20.56
rs6496328	CD20 on IgD+ CD24-	ebi-a-GCST90001747	15	86988686	T	C	3657	-0.30	0.06	0.00	0.01	22.37
rs8025257	CD20 on IgD+ CD24-	ebi-a-GCST90001747	15	89600226	C	T	3657	-0.13	0.03	0.00	0.01	21.09
rs7404890	CD20 on IgD+ CD24-	ebi-a-GCST90001747	16	11007193	A	G	3657	0.17	0.03	0.00	0.01	28.80
rs11083972	CD20 on IgD+ CD24-	ebi-a-GCST90001747	19	49896752	G	C	3657	-0.16	0.03	0.00	0.01	26.77
rs73086355	CD20 on IgD+ CD24-	ebi-a-GCST90001747	20	11850850	A	C	3657	-0.27	0.06	0.00	0.01	20.16
rs1007337	CD20 on IgD+ CD24-	ebi-a-GCST90001747	22	39781585	T	C	3657	-0.13	0.03	0.00	0.01	24.89
rs116412485	CD20 on IgD+ CD38-	ebi-a-GCST90001748	1	40040949	A	C	3645	-0.30	0.07	0.00	0.01	19.93
rs17380682	CD20 on IgD+ CD38-	ebi-a-GCST90001748	1	164447415	T	C	3645	0.22	0.05	0.00	0.01	22.71
rs142291033	CD20 on IgD+ CD38-	ebi-a-GCST90001748	1	56196958	A	G	3645	0.28	0.06	0.00	0.01	19.76
rs187188344	CD20 on IgD+ CD38-	ebi-a-GCST90001748	2	178858731	G	C	3645	0.36	0.08	0.00	0.01	21.86

rs2114442	CD20 on IgD+ CD38-	ebi-a-GCST90001748	4	100832060	T	C	3645	0.11	0.02	0.00	0.01	19.84
rs75097128	CD20 on IgD+ CD38-	ebi-a-GCST90001748	4	113292746	G	A	3645	-0.46	0.10	0.00	0.01	22.96
rs11135082	CD20 on IgD+ CD38-	ebi-a-GCST90001748	5	159137396	G	A	3645	0.23	0.05	0.00	0.01	21.49
rs76029468	CD20 on IgD+ CD38-	ebi-a-GCST90001748	5	161525053	G	T	3645	0.21	0.05	0.00	0.01	19.58
rs61651267	CD20 on IgD+ CD38-	ebi-a-GCST90001748	5	143495021	G	A	3645	0.12	0.03	0.00	0.01	22.33
rs13190846	CD20 on IgD+ CD38-	ebi-a-GCST90001748	6	29905727	T	C	3645	0.16	0.03	0.00	0.01	27.30
rs2066399	CD20 on IgD+ CD38-	ebi-a-GCST90001748	6	15880540	A	G	3645	0.19	0.03	0.00	0.01	33.94
rs7768875	CD20 on IgD+ CD38-	ebi-a-GCST90001748	6	32560752	T	C	3645	-0.15	0.03	0.00	0.01	22.52
rs78517600	CD20 on IgD+ CD38-	ebi-a-GCST90001748	6	50239066	C	T	3645	-0.75	0.17	0.00	0.01	19.97
rs12660382	CD20 on IgD+ CD38-	ebi-a-GCST90001748	6	31443323	T	C	3645	0.15	0.03	0.00	0.01	25.83
rs150618362	CD20 on IgD+ CD38-	ebi-a-GCST90001748	8	13572692	G	A	3645	0.77	0.17	0.00	0.01	19.95
rs149514748	CD20 on IgD+ CD38-	ebi-a-GCST90001748	9	118323116	T	C	3645	0.53	0.12	0.00	0.01	20.06
rs12554596	CD20 on IgD+ CD38-	ebi-a-GCST90001748	9	37002142	G	A	3645	-0.16	0.03	0.00	0.01	37.87
rs143959146	CD20 on IgD+ CD38-	ebi-a-GCST90001748	9	33898132	A	G	3645	0.29	0.06	0.00	0.01	19.73
rs7036970	CD20 on IgD+ CD38-	ebi-a-GCST90001748	9	3182850	G	A	3645	-0.22	0.05	0.00	0.01	21.84
rs4474350	CD20 on IgD+ CD38-	ebi-a-GCST90001748	10	26837236	C	A	3645	-0.14	0.03	0.00	0.01	21.56
rs182220218	CD20 on IgD+ CD38-	ebi-a-GCST90001748	10	75422693	G	A	3645	-2.62	0.58	0.00	0.01	20.56
rs2070770	CD20 on IgD+ CD38-	ebi-a-GCST90001748	11	60230531	T	C	3645	-0.26	0.04	0.00	0.01	38.07
rs74054746	CD20 on IgD+ CD38-	ebi-a-GCST90001748	14	61638400	G	A	3645	-0.35	0.08	0.00	0.01	19.76
rs2356414	CD20 on IgD+ CD38-	ebi-a-GCST90001748	16	71378301	T	C	3645	0.17	0.03	0.00	0.01	29.13
rs7216991	CD20 on IgD+ CD38-	ebi-a-GCST90001748	17	45052253	A	G	3645	-0.13	0.03	0.00	0.01	23.08
rs7259731	CD20 on IgD+ CD38-	ebi-a-GCST90001748	19	54841732	T	G	3645	-0.20	0.04	0.00	0.01	20.64
rs30003	CD20 on IgD+ CD38-	ebi-a-GCST90001748	19	49846398	C	T	3645	-0.19	0.03	0.00	0.01	44.30
rs138448626	CD20 on IgD+ CD38-	ebi-a-GCST90001749	1	24084235	T	C	1834	-0.29	0.06	0.00	0.01	21.11
rs112695918	CD20 on IgD+ CD38-	ebi-a-GCST90001749	1	1104584	C	T	1834	1.19	0.25	0.00	0.01	22.99
rs1495924	CD20 on IgD+ CD38-	ebi-a-GCST90001749	2	241183284	G	T	1834	-0.16	0.03	0.00	0.01	21.51
rs12470912	CD20 on IgD+ CD38-	ebi-a-GCST90001749	2	168748110	A	G	1834	0.22	0.05	0.00	0.01	21.55
rs11920066	CD20 on IgD+ CD38-	ebi-a-GCST90001749	3	88803979	C	T	1834	0.34	0.07	0.00	0.01	20.76
rs9808998	CD20 on IgD+ CD38-	ebi-a-GCST90001749	3	176405898	C	T	1834	0.16	0.03	0.00	0.01	21.66
rs13061533	CD20 on IgD+ CD38-	ebi-a-GCST90001749	3	188611158	T	C	1834	0.20	0.04	0.00	0.01	21.61
rs73810453	CD20 on IgD+ CD38-	ebi-a-GCST90001749	4	41994707	T	A	1834	0.36	0.08	0.00	0.01	21.09
rs189077909	CD20 on IgD+ CD38-	ebi-a-GCST90001749	4	57626079	A	G	1834	-0.64	0.14	0.00	0.01	19.72
rs9269561	CD20 on IgD+ CD38-	ebi-a-GCST90001749	6	32544405	G	C	1834	-0.26	0.05	0.00	0.02	31.45
rs17613271	CD20 on IgD+ CD38-	ebi-a-GCST90001749	6	32621778	G	A	1834	-0.23	0.05	0.00	0.01	20.08
rs2066399	CD20 on IgD+ CD38-	ebi-a-GCST90001749	6	15880540	A	G	1834	0.23	0.05	0.00	0.01	24.71
rs143959146	CD20 on IgD+ CD38-	ebi-a-GCST90001749	9	33898132	A	G	1834	0.42	0.09	0.00	0.01	19.71
rs11199370	CD20 on IgD+ CD38-	ebi-a-GCST90001749	10	122262398	A	G	1834	0.25	0.06	0.00	0.01	19.98

rs11604619	CD20 on IgD+ CD38-	ebi-a-GCST90001749	11	60261376	T	A	1834	-0.23	0.03	0.00	0.02	45.99
rs141950809	CD20 on IgD+ CD38-	ebi-a-GCST90001749	13	93405148	T	C	1834	0.30	0.07	0.00	0.01	19.94
rs111741301	CD20 on IgD+ CD38-	ebi-a-GCST90001749	13	71781323	C	G	1834	0.34	0.07	0.00	0.01	21.62
rs4270172	CD20 on IgD+ CD38-	ebi-a-GCST90001749	16	55157679	A	G	1834	-0.20	0.04	0.00	0.01	26.53
rs115329330	CD20 on IgD+ CD38-	ebi-a-GCST90001749	21	27574452	C	G	1834	-0.65	0.13	0.00	0.01	23.19
rs3959642	CD20 on IgD+ CD38-	ebi-a-GCST90001749	22	39860589	G	A	1834	-0.17	0.04	0.00	0.01	20.69
rs2481929	CD20 on IgD+ CD38-	ebi-a-GCST90001750	1	24807579	G	T	1836	-0.22	0.05	0.00	0.01	19.84
rs7598607	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	2	129870972	G	A	1836	0.32	0.07	0.00	0.01	22.69
rs2220549	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	3	21756408	A	G	1836	-0.22	0.05	0.00	0.01	24.23
rs68171708	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	3	142855504	T	C	1836	0.18	0.04	0.00	0.01	22.13
rs76078276	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	3	187802062	C	G	1836	0.21	0.04	0.00	0.01	21.06
rs140761841	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	4	747378	T	C	1836	0.99	0.20	0.00	0.01	23.93
rs1545973	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	4	141622371	G	A	1836	0.18	0.04	0.00	0.01	22.33
rs62366714	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	5	105199555	G	T	1836	0.22	0.05	0.00	0.01	19.88
rs11742841	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	5	108992703	G	A	1836	0.32	0.07	0.00	0.01	21.48
rs760958	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	6	15899354	C	T	1836	0.26	0.05	0.00	0.01	26.13
rs9461562	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	6	29778271	G	A	1836	0.30	0.06	0.00	0.01	21.61
rs9469053	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	6	31755776	G	A	1836	0.23	0.05	0.00	0.01	24.49
rs11230344	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	11	60264409	A	G	1836	-0.17	0.03	0.00	0.01	23.83
rs1972795	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	12	95289170	T	C	1836	0.16	0.04	0.00	0.01	19.89
rs79741907	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	14	94877494	C	T	1836	0.28	0.06	0.00	0.01	21.68
rs12898020	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	14	90835752	G	A	1836	0.16	0.03	0.00	0.01	23.23
rs7179991	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	15	31811797	G	A	1836	-0.32	0.07	0.00	0.01	21.81
rs76029565	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	19	49887709	G	A	1836	-0.21	0.04	0.00	0.01	27.89
rs73205632	unsw mem CD20 on IgD+ CD38-	ebi-a-GCST90001750	21	35291153	C	T	1836	-0.51	0.12	0.00	0.01	19.81
rs616645	unsw mem CD20 on IgD+ CD38br	ebi-a-GCST90001751	1	12240824	G	T	3657	0.17	0.04	0.00	0.01	21.16
rs56031692	unsw mem CD20 on IgD+ CD38br	ebi-a-GCST90001751	1	58879185	G	T	3657	0.12	0.03	0.00	0.01	20.81

rs7568308	CD20 on IgD+ CD38br	ebi-a-GCST90001751	2	61051498	A	T	3657	-0.12	0.03	0.00	0.01	22.10
rs115361290	CD20 on IgD+ CD38br	ebi-a-GCST90001751	2	184424836	G	A	3657	0.62	0.14	0.00	0.01	20.13
rs116393510	CD20 on IgD+ CD38br	ebi-a-GCST90001751	2	200547937	T	C	3657	-0.32	0.07	0.00	0.01	22.34
rs2136235	CD20 on IgD+ CD38br	ebi-a-GCST90001751	3	183075828	A	C	3657	-0.17	0.04	0.00	0.01	21.02
rs73175579	CD20 on IgD+ CD38br	ebi-a-GCST90001751	3	185524179	A	C	3657	0.29	0.06	0.00	0.01	23.11
rs1313625	CD20 on IgD+ CD38br	ebi-a-GCST90001751	5	22458923	A	G	3657	-0.28	0.06	0.00	0.01	19.89
rs2066399	CD20 on IgD+ CD38br	ebi-a-GCST90001751	6	15880540	A	G	3657	0.34	0.03	0.00	0.03	111.33
rs111983490	CD20 on IgD+ CD38br	ebi-a-GCST90001751	6	32205324	A	G	3657	0.17	0.03	0.00	0.01	25.75
rs7768875	CD20 on IgD+ CD38br	ebi-a-GCST90001751	6	32560752	T	C	3657	-0.17	0.03	0.00	0.01	30.80
rs233493	CD20 on IgD+ CD38br	ebi-a-GCST90001751	6	14804334	A	G	3657	-0.13	0.03	0.00	0.01	24.02
rs72836542	CD20 on IgD+ CD38br	ebi-a-GCST90001751	6	14091682	T	C	3657	0.15	0.03	0.00	0.01	31.20
rs9271700	CD20 on IgD+ CD38br	ebi-a-GCST90001751	6	32593198	C	G	3657	-0.15	0.03	0.00	0.01	22.00
rs150896136	CD20 on IgD+ CD38br	ebi-a-GCST90001751	7	68325252	A	G	3657	0.31	0.07	0.00	0.01	19.82
rs10965813	CD20 on IgD+ CD38br	ebi-a-GCST90001751	9	23378556	G	C	3657	0.18	0.04	0.00	0.01	22.54
rs116910507	CD20 on IgD+ CD38br	ebi-a-GCST90001751	9	137841245	A	G	3657	-1.00	0.22	0.00	0.01	20.73
rs17233534	CD20 on IgD+ CD38br	ebi-a-GCST90001751	10	107505960	C	A	3657	-0.92	0.21	0.00	0.01	19.78
rs7939177	CD20 on IgD+ CD38br	ebi-a-GCST90001751	11	60266070	T	C	3657	-0.18	0.02	0.00	0.01	51.99
rs7307681	CD20 on IgD+ CD38br	ebi-a-GCST90001751	12	55336327	T	C	3657	0.14	0.03	0.00	0.01	22.34
rs117266160	CD20 on IgD+ CD38br	ebi-a-GCST90001751	14	81350884	A	G	3657	-1.67	0.38	0.00	0.01	19.65
rs532803692	CD20 on IgD+ CD38br	ebi-a-GCST90001751	16	20477419	C	A	3657	-0.35	0.08	0.00	0.01	20.29
rs146797770	CD20 on IgD+ CD38br	ebi-a-GCST90001751	17	6772746	C	T	3657	0.43	0.09	0.00	0.01	21.59
rs34486765	CD20 on IgD+ CD38br	ebi-a-GCST90001751	19	49915911	A	G	3657	0.17	0.03	0.00	0.01	40.95
rs234630	CD20 on IgD+ CD38br	ebi-a-GCST90001751	20	57483655	C	T	3657	0.13	0.03	0.00	0.01	21.06
rs139106	CD20 on IgD+ CD38br	ebi-a-GCST90001751	22	44569390	A	G	3657	-0.19	0.04	0.00	0.01	23.87
rs5750823	CD20 on IgD+ CD38br	ebi-a-GCST90001751	22	39829973	T	C	3657	-0.12	0.03	0.00	0.01	21.37
rs113371046	CD20 on IgD+ CD20 on	ebi-a-GCST90001752	1	17595034	A	G	3657	0.23	0.05	0.00	0.01	20.98
rs1293260	IgD+ CD20 on	ebi-a-GCST90001752	1	25709104	G	C	3657	0.12	0.03	0.00	0.01	19.59
rs111741355	IgD+ CD20 on	ebi-a-GCST90001752	1	48095312	A	G	3657	-2.61	0.57	0.00	0.01	21.08
rs12042193	IgD+ CD20 on	ebi-a-GCST90001752	1	116031657	G	A	3657	-0.12	0.03	0.00	0.01	22.62
rs12120358	IgD+ CD20 on	ebi-a-GCST90001752	1	161444369	T	A	3657	-0.13	0.03	0.00	0.01	20.15
rs147586463	IgD+ CD20 on	ebi-a-GCST90001752	1	169204921	G	A	3657	-0.71	0.16	0.00	0.01	20.18
rs1306395	IgD+ CD20 on	ebi-a-GCST90001752	2	61076272	C	T	3657	0.12	0.03	0.00	0.01	20.95
rs73154503	IgD+ CD20 on	ebi-a-GCST90001752	3	159871677	C	T	3657	-0.21	0.04	0.00	0.01	24.30
rs77612075	IgD+ CD20 on	ebi-a-GCST90001752	5	162820460	T	C	3657	0.35	0.07	0.00	0.01	23.40
rs187747283	IgD+ CD20 on	ebi-a-GCST90001752	5	56487565	G	T	3657	-0.17	0.04	0.00	0.01	20.53
rs233493	IgD+ CD20 on	ebi-a-GCST90001752	6	14804334	A	G	3657	-0.13	0.03	0.00	0.01	24.27
rs72836542	IgD+ CD20 on	ebi-a-GCST90001752	6	14091682	T	C	3657	0.18	0.03	0.00	0.01	42.71

rs55643835	CD20 on IgD+	ebi-a-GCST90001752	6	33947909	T	C	3657	-0.25	0.05	0.00	0.01	21.48
rs9270560	CD20 on IgD+	ebi-a-GCST90001752	6	32560741	C	T	3657	-0.22	0.03	0.00	0.01	54.25
rs2066399	CD20 on IgD+	ebi-a-GCST90001752	6	15880540	A	G	3657	0.24	0.03	0.00	0.01	54.61
rs9267484	CD20 on IgD+	ebi-a-GCST90001752	6	31505724	T	A	3657	0.19	0.04	0.00	0.01	24.09
rs62405562	CD20 on IgD+	ebi-a-GCST90001752	6	32451834	G	A	3657	0.23	0.03	0.00	0.02	63.75
rs11242780	CD20 on IgD+	ebi-a-GCST90001752	6	2511559	C	G	3657	0.18	0.04	0.00	0.01	19.59
rs76355582	CD20 on IgD+	ebi-a-GCST90001752	7	119197741	C	G	3657	0.24	0.05	0.00	0.01	21.07
rs388354	CD20 on IgD+	ebi-a-GCST90001752	7	40190449	C	A	3657	-0.13	0.02	0.00	0.01	29.67
rs4939384	CD20 on IgD+	ebi-a-GCST90001752	11	60273642	G	A	3657	-0.24	0.02	0.00	0.02	90.95
rs11230624	CD20 on IgD+	ebi-a-GCST90001752	11	60952231	C	G	3657	-0.17	0.04	0.00	0.01	21.34
rs12282477	CD20 on IgD+	ebi-a-GCST90001752	11	90976338	A	T	3657	-0.28	0.06	0.00	0.01	19.60
rs8025257	CD20 on IgD+	ebi-a-GCST90001752	15	89600226	C	T	3657	-0.13	0.03	0.00	0.01	20.75
rs17616173	CD20 on IgD+	ebi-a-GCST90001752	15	86986287	G	A	3657	-0.27	0.06	0.00	0.01	20.72
rs7404890	CD20 on IgD+	ebi-a-GCST90001752	16	11007193	A	G	3657	0.18	0.03	0.00	0.01	30.14
rs17763050	CD20 on IgD+	ebi-a-GCST90001752	17	43903336	A	G	3657	0.14	0.03	0.00	0.01	24.83
rs34486765	CD20 on IgD+	ebi-a-GCST90001752	19	49915911	A	G	3657	0.17	0.03	0.00	0.01	39.93
rs61731791	CD20 on IgD+	ebi-a-GCST90001752	19	50940778	T	C	3657	0.21	0.04	0.00	0.01	24.01
rs73086355	CD20 on IgD+	ebi-a-GCST90001752	20	11850850	A	C	3657	-0.29	0.06	0.00	0.01	22.93
rs1007337	CD20 on IgD+	ebi-a-GCST90001752	22	39781585	T	C	3657	-0.14	0.03	0.00	0.01	30.63
rs77463781	CD20 on IgD-CD24-	ebi-a-GCST90001753	1	79464773	C	G	3657	0.17	0.04	0.00	0.01	20.97
rs74435765	CD20 on IgD-CD24-	ebi-a-GCST90001753	1	185522944	T	C	3657	-0.39	0.09	0.00	0.01	20.93
rs849532	CD20 on IgD-CD24-	ebi-a-GCST90001753	2	206552726	G	A	3657	0.34	0.06	0.00	0.01	29.58
rs10171238	CD20 on IgD-CD24-	ebi-a-GCST90001753	2	149568729	T	C	3657	0.14	0.03	0.00	0.01	22.79
rs7617301	CD20 on IgD-CD24-	ebi-a-GCST90001753	3	119289916	C	A	3657	0.17	0.04	0.00	0.01	20.74
rs62299189	CD20 on IgD-CD24-	ebi-a-GCST90001753	4	43192979	C	A	3657	-0.21	0.05	0.00	0.01	21.36
rs4426778	CD20 on IgD-CD24-	ebi-a-GCST90001753	4	102780724	A	G	3657	-0.12	0.03	0.00	0.01	24.01
rs78373541	CD20 on IgD-CD24-	ebi-a-GCST90001753	4	139616732	G	A	3657	0.27	0.06	0.00	0.01	20.98
rs73196454	CD20 on IgD-CD24-	ebi-a-GCST90001753	5	105783715	A	G	3657	-1.60	0.36	0.00	0.01	19.92
rs13181744	CD20 on IgD-CD24-	ebi-a-GCST90001753	5	120594915	C	T	3657	-0.12	0.03	0.00	0.01	20.48
rs12660382	CD20 on IgD-CD24-	ebi-a-GCST90001753	6	31443323	T	C	3657	0.14	0.03	0.00	0.01	21.87
rs6454789	CD20 on IgD-CD24-	ebi-a-GCST90001753	6	90677176	T	C	3657	0.11	0.03	0.00	0.01	19.74
rs7754613	CD20 on IgD-CD24-	ebi-a-GCST90001753	6	15902888	T	C	3657	0.15	0.03	0.00	0.01	22.20
rs11751198	CD20 on IgD-CD24-	ebi-a-GCST90001753	6	31753526	A	G	3657	0.19	0.04	0.00	0.01	28.40
rs35567463	CD20 on IgD-CD24-	ebi-a-GCST90001753	6	32633970	A	C	3657	0.17	0.03	0.00	0.01	35.32
rs35485457	CD20 on IgD-CD24-	ebi-a-GCST90001753	8	78679087	T	G	3657	-0.14	0.03	0.00	0.01	19.57
rs117961939	CD20 on IgD-CD24-	ebi-a-GCST90001753	8	132476096	T	C	3657	-0.30	0.07	0.00	0.01	20.38
rs1838178	CD20 on IgD-CD24-	ebi-a-GCST90001753	8	92858976	G	A	3657	0.11	0.03	0.00	0.01	20.12

rs787045	CD20 on IgD-CD24-	ebi-a-GCST90001753	10	26831337	C	G	3657	-0.16	0.04	0.00	0.01	19.83
rs61884722	CD20 on IgD-CD24-	ebi-a-GCST90001753	11	18601510	C	T	3657	0.91	0.19	0.00	0.01	22.12
rs78287249	CD20 on IgD-CD24-	ebi-a-GCST90001753	11	60157281	T	G	3657	-0.19	0.04	0.00	0.01	20.36
rs11051833	CD20 on IgD-CD24-	ebi-a-GCST90001753	12	32330242	T	C	3657	-0.34	0.07	0.00	0.01	20.88
rs1453509	CD20 on IgD-CD24-	ebi-a-GCST90001753	16	17014673	A	C	3657	-0.17	0.04	0.00	0.01	19.66
rs17136624	CD20 on IgD-CD24-	ebi-a-GCST90001753	16	3996282	A	G	3657	-0.13	0.03	0.00	0.01	20.79
rs139713744	CD20 on IgD-CD24-	ebi-a-GCST90001753	17	30608982	T	C	3657	1.75	0.39	0.00	0.01	19.97
rs542436617	CD20 on IgD-CD24-	ebi-a-GCST90001753	17	21246554	A	G	3657	1.48	0.33	0.00	0.01	20.72
rs13381717	CD20 on IgD-CD24-	ebi-a-GCST90001753	18	352095	T	A	3657	-0.21	0.05	0.00	0.01	20.16
rs30006	CD20 on IgD-CD24-	ebi-a-GCST90001753	19	49847916	C	T	3657	-0.20	0.03	0.00	0.01	44.39
rs61731791	CD20 on IgD-CD24-	ebi-a-GCST90001753	19	50940778	T	C	3657	0.20	0.04	0.00	0.01	22.51
rs116144119	CD20 on IgD-CD27-	ebi-a-GCST90001754	1	165812513	A	G	3657	0.27	0.06	0.00	0.01	21.88
rs34713734	CD20 on IgD-CD27-	ebi-a-GCST90001754	2	122564113	A	C	3657	0.16	0.03	0.00	0.01	22.80
rs10171238	CD20 on IgD-CD27-	ebi-a-GCST90001754	2	149568729	T	C	3657	0.13	0.03	0.00	0.01	20.01
rs7608595	CD20 on IgD-CD27-	ebi-a-GCST90001754	2	223088415	C	T	3657	0.12	0.03	0.00	0.01	22.67
rs74812685	CD20 on IgD-CD27-	ebi-a-GCST90001754	4	2654756	T	A	3657	0.27	0.05	0.00	0.01	25.94
rs160509	CD20 on IgD-CD27-	ebi-a-GCST90001754	5	9588308	C	T	3657	-0.23	0.05	0.00	0.01	20.34
rs4716010	CD20 on IgD-CD27-	ebi-a-GCST90001754	6	15898371	A	G	3657	0.19	0.03	0.00	0.01	35.91
rs1838178	CD20 on IgD-CD27-	ebi-a-GCST90001754	8	92858976	G	A	3657	0.12	0.03	0.00	0.01	23.61
rs10901783	CD20 on IgD-CD27-	ebi-a-GCST90001754	10	126294501	C	T	3657	0.13	0.03	0.00	0.01	19.84
rs787045	CD20 on IgD-CD27-	ebi-a-GCST90001754	10	26831337	C	G	3657	-0.16	0.04	0.00	0.01	19.68
rs2493367	CD20 on IgD-CD27-	ebi-a-GCST90001754	10	66219102	A	T	3657	-0.33	0.07	0.00	0.01	20.06
rs61884722	CD20 on IgD-CD27-	ebi-a-GCST90001754	11	18601510	C	T	3657	0.91	0.19	0.00	0.01	22.53
rs78368496	CD20 on IgD-CD27-	ebi-a-GCST90001754	11	19984329	G	A	3657	0.40	0.09	0.00	0.01	21.04
rs11051833	CD20 on IgD-CD27-	ebi-a-GCST90001754	12	32330242	T	C	3657	-0.36	0.07	0.00	0.01	23.19
rs9962656	CD20 on IgD-CD27-	ebi-a-GCST90001754	18	60847262	A	C	3657	0.14	0.03	0.00	0.01	27.15
rs13381717	CD20 on IgD-CD27-	ebi-a-GCST90001754	18	352095	T	A	3657	-0.23	0.05	0.00	0.01	25.93
rs61731791	CD20 on IgD-CD27-	ebi-a-GCST90001754	19	50940778	T	C	3657	0.24	0.04	0.00	0.01	31.16
rs30006	CD20 on IgD-CD27-	ebi-a-GCST90001754	19	49847916	C	T	3657	-0.19	0.03	0.00	0.01	42.37
rs1883832	CD20 on IgD-CD27-	ebi-a-GCST90001754	20	44746982	C	T	3657	-0.19	0.03	0.00	0.01	52.61
rs3123557	CD20 on IgD-CD38-	ebi-a-GCST90001755	1	24204073	T	C	3657	-0.12	0.02	0.00	0.01	25.58
rs140120241	CD20 on IgD-CD38-	ebi-a-GCST90001755	1	166021518	A	G	3657	0.16	0.04	0.00	0.01	20.72
rs849532	CD20 on IgD-CD38-	ebi-a-GCST90001755	2	206552726	G	A	3657	0.32	0.06	0.00	0.01	27.71
rs187188344	CD20 on IgD-CD38-	ebi-a-GCST90001755	2	178858731	G	C	3657	0.37	0.08	0.00	0.01	22.46
rs62194499	CD20 on IgD-CD38-	ebi-a-GCST90001755	2	207417460	A	G	3657	0.22	0.05	0.00	0.01	20.55
rs7608595	CD20 on IgD-CD38-	ebi-a-GCST90001755	2	223088415	C	T	3657	0.12	0.03	0.00	0.01	22.23
rs57271503	CD20 on IgD-CD38-	ebi-a-GCST90001755	3	119244593	A	G	3657	-0.16	0.03	0.00	0.01	25.83

rs9842470	CD20 on IgD-CD38-	ebi-a-GCST90001755	3	184221260	T	C	3657	0.15	0.03	0.00	0.01	19.68
rs2524184	CD20 on IgD-CD38-	ebi-a-GCST90001755	6	30424736	T	A	3657	-0.16	0.03	0.00	0.01	27.60
rs12200643	CD20 on IgD-CD38-	ebi-a-GCST90001755	6	170846603	A	G	3657	-0.72	0.14	0.00	0.01	25.56
rs11751198	CD20 on IgD-CD38-	ebi-a-GCST90001755	6	31753526	A	G	3657	0.20	0.04	0.00	0.01	30.12
rs111369841	CD20 on IgD-CD38-	ebi-a-GCST90001755	6	32921104	T	C	3657	0.21	0.05	0.00	0.01	20.02
rs75915436	CD20 on IgD-CD38-	ebi-a-GCST90001755	6	40648455	T	C	3657	-0.50	0.11	0.00	0.01	20.35
rs4716010	CD20 on IgD-CD38-	ebi-a-GCST90001755	6	15898371	A	G	3657	0.17	0.03	0.00	0.01	28.61
rs9271146	CD20 on IgD-CD38-	ebi-a-GCST90001755	6	32577282	C	A	3657	-0.15	0.03	0.00	0.01	24.94
rs2868177	CD20 on IgD-CD38-	ebi-a-GCST90001755	7	75589903	G	A	3657	0.12	0.02	0.00	0.01	21.24
rs1838178	CD20 on IgD-CD38-	ebi-a-GCST90001755	8	92858976	G	A	3657	0.12	0.03	0.00	0.01	21.08
rs75071948	CD20 on IgD-CD38-	ebi-a-GCST90001755	9	75768836	G	T	3657	0.27	0.06	0.00	0.01	20.25
rs78368496	CD20 on IgD-CD38-	ebi-a-GCST90001755	11	19984329	G	A	3657	0.39	0.09	0.00	0.01	19.82
rs10501383	CD20 on IgD-CD38-	ebi-a-GCST90001755	11	60164527	T	C	3657	-0.26	0.04	0.00	0.01	38.70
rs61886501	CD20 on IgD-CD38-	ebi-a-GCST90001755	11	18870317	T	C	3657	0.68	0.15	0.00	0.01	20.59
rs2578469	CD20 on IgD-CD38-	ebi-a-GCST90001755	12	4101401	A	G	3657	-0.12	0.03	0.00	0.01	20.38
rs185205613	CD20 on IgD-CD38-	ebi-a-GCST90001755	12	48074625	A	T	3657	-0.20	0.04	0.00	0.01	21.56
rs9537439	CD20 on IgD-CD38-	ebi-a-GCST90001755	13	57128500	T	A	3657	-0.12	0.03	0.00	0.01	20.07
rs7179991	CD20 on IgD-CD38-	ebi-a-GCST90001755	15	31811797	G	A	3657	-0.23	0.05	0.00	0.01	22.21
rs16948899	CD20 on IgD-CD38-	ebi-a-GCST90001755	16	50866572	G	C	3657	-0.13	0.03	0.00	0.01	20.63
rs179206	CD20 on IgD-CD38-	ebi-a-GCST90001755	16	19303610	T	C	3657	-0.23	0.05	0.00	0.01	23.10
rs183569210	CD20 on IgD-CD38-	ebi-a-GCST90001755	18	72589044	A	G	3657	-0.84	0.18	0.00	0.01	22.42
rs61731791	CD20 on IgD-CD38-	ebi-a-GCST90001755	19	50940778	T	C	3657	0.23	0.04	0.00	0.01	30.33
rs55809481	CD20 on IgD-CD38-	ebi-a-GCST90001755	19	49872521	C	T	3657	-0.24	0.03	0.00	0.02	70.85
rs6120395	CD20 on IgD-CD38-	ebi-a-GCST90001755	20	32451693	G	A	3657	-0.12	0.03	0.00	0.01	21.69
rs149234257	CD20 on IgD-CD38br	ebi-a-GCST90001756	2	7498941	A	T	3659	-0.49	0.10	0.00	0.01	22.79
rs144229045	CD20 on IgD-CD38br	ebi-a-GCST90001756	3	132962425	T	C	3659	-0.23	0.05	0.00	0.01	22.08
rs17552555	CD20 on IgD-CD38br	ebi-a-GCST90001756	4	111440302	C	T	3659	1.14	0.26	0.00	0.01	19.92
rs67448050	CD20 on IgD-CD38br	ebi-a-GCST90001756	5	91379430	C	A	3659	-0.13	0.03	0.00	0.01	20.03
rs2735071	CD20 on IgD-CD38br	ebi-a-GCST90001756	6	29944979	C	G	3659	0.13	0.03	0.00	0.01	20.45
rs7751471	CD20 on IgD-CD38br	ebi-a-GCST90001756	6	155390391	G	A	3659	-0.16	0.03	0.00	0.01	21.99
rs12530833	CD20 on IgD-CD38br	ebi-a-GCST90001756	7	11098867	A	G	3659	0.87	0.20	0.00	0.01	19.60
rs2060802	CD20 on IgD-CD38br	ebi-a-GCST90001756	8	39502217	T	C	3659	-0.12	0.03	0.00	0.01	20.41
rs79868028	CD20 on IgD-CD38br	ebi-a-GCST90001756	10	133645848	A	G	3659	0.22	0.04	0.00	0.01	27.30
rs7302954	CD20 on IgD-CD38br	ebi-a-GCST90001756	12	92020720	G	A	3659	0.11	0.03	0.00	0.01	20.19
rs72665111	CD20 on IgD-CD38br	ebi-a-GCST90001756	13	103993749	T	C	3659	2.41	0.53	0.00	0.01	20.48
rs143489681	CD20 on IgD-CD38br	ebi-a-GCST90001756	15	94271829	A	G	3659	1.22	0.26	0.00	0.01	21.68
rs144576056	CD20 on IgD-CD38br	ebi-a-GCST90001756	17	54270936	T	C	3659	3.03	0.68	0.00	0.01	19.87

rs141311171	CD20 on IgD-CD38br	ebi-a-GCST90001756	17	77837606	T	G	3659	-0.14	0.03	0.00	0.01	20.10
rs11668091	CD20 on IgD-CD38br	ebi-a-GCST90001756	19	51583553	C	T	3659	0.16	0.04	0.00	0.01	20.06
rs17878304	CD20 on IgD-CD38br	ebi-a-GCST90001756	19	4956161	T	C	3659	-0.32	0.07	0.00	0.01	23.23
rs6693971	CD20 on IgD-CD38dim	ebi-a-GCST90001757	1	3517573	C	G	3657	-0.23	0.05	0.00	0.01	19.79
rs4657041	CD20 on IgD-CD38dim	ebi-a-GCST90001757	1	161478859	C	T	3657	-0.12	0.03	0.00	0.01	21.58
rs187188344	CD20 on IgD-CD38dim	ebi-a-GCST90001757	2	178858731	G	C	3657	0.35	0.08	0.00	0.01	20.18
rs3961790	CD20 on IgD-CD38dim	ebi-a-GCST90001757	2	80108045	A	G	3657	0.12	0.02	0.00	0.01	23.66
rs7608595	CD20 on IgD-CD38dim	ebi-a-GCST90001757	2	223088415	C	T	3657	0.12	0.03	0.00	0.01	19.78
rs111345451	CD20 on IgD-CD38dim	ebi-a-GCST90001757	3	141866322	G	A	3657	4.33	0.95	0.00	0.01	20.62
rs77612075	CD20 on IgD-CD38dim	ebi-a-GCST90001757	5	162820460	T	C	3657	0.33	0.07	0.00	0.01	21.67
rs719170	CD20 on IgD-CD38dim	ebi-a-GCST90001757	5	67432406	C	T	3657	4.93	1.02	0.00	0.01	23.26
rs9271146	CD20 on IgD-CD38dim	ebi-a-GCST90001757	6	32577282	C	A	3657	-0.19	0.03	0.00	0.01	38.47
rs9469053	CD20 on IgD-CD38dim	ebi-a-GCST90001757	6	31755776	G	A	3657	0.24	0.04	0.00	0.01	41.28
rs909846	CD20 on IgD-CD38dim	ebi-a-GCST90001757	6	15897003	G	T	3657	0.21	0.04	0.00	0.01	30.74
rs2524184	CD20 on IgD-CD38dim	ebi-a-GCST90001757	6	30424736	T	A	3657	-0.15	0.03	0.00	0.01	24.00
rs111369841	CD20 on IgD-CD38dim	ebi-a-GCST90001757	6	32921104	T	C	3657	0.22	0.05	0.00	0.01	22.31
rs9473626	CD20 on IgD-CD38dim	ebi-a-GCST90001757	6	49586550	A	C	3657	0.14	0.03	0.00	0.01	21.12
rs9650093	CD20 on IgD-CD38dim	ebi-a-GCST90001757	8	127984089	G	A	3657	0.14	0.03	0.00	0.01	22.65
rs13275137	CD20 on IgD-CD38dim	ebi-a-GCST90001757	8	36731742	A	G	3657	0.24	0.05	0.00	0.01	20.43
rs113560800	CD20 on IgD-CD38dim	ebi-a-GCST90001757	9	29393202	C	G	3657	0.29	0.07	0.00	0.01	19.64
rs184418275	CD20 on IgD-CD38dim	ebi-a-GCST90001757	10	89144616	T	C	3657	-0.85	0.18	0.00	0.01	21.45
rs11187166	CD20 on IgD-CD38dim	ebi-a-GCST90001757	10	94516008	T	C	3657	0.18	0.03	0.00	0.01	30.84
rs149908209	CD20 on IgD-CD38dim	ebi-a-GCST90001757	11	127473611	C	T	3657	-2.55	0.53	0.00	0.01	22.99
rs11020715	CD20 on IgD-CD38dim	ebi-a-GCST90001757	11	93989208	G	A	3657	-0.13	0.03	0.00	0.01	22.84
rs11230624	CD20 on IgD-CD38dim	ebi-a-GCST90001757	11	60952231	C	G	3657	-0.18	0.04	0.00	0.01	23.95
rs2070770	CD20 on IgD-CD38dim	ebi-a-GCST90001757	11	60230531	T	C	3657	-0.27	0.04	0.00	0.01	40.58
rs73025928	CD20 on IgD-CD38dim	ebi-a-GCST90001757	11	123329504	T	C	3657	-0.30	0.07	0.00	0.01	20.88
rs1447085	CD20 on IgD-CD38dim	ebi-a-GCST90001757	12	127798516	G	T	3657	0.13	0.03	0.00	0.01	25.30
rs1955934	CD20 on IgD-CD38dim	ebi-a-GCST90001757	14	37936489	G	A	3657	-0.12	0.03	0.00	0.01	20.46
rs74541430	CD20 on IgD-CD38dim	ebi-a-GCST90001757	16	26201701	A	G	3657	-1.14	0.26	0.00	0.01	19.64
rs115308973	CD20 on IgD-CD38dim	ebi-a-GCST90001757	16	88134541	T	C	3657	-0.16	0.04	0.00	0.01	19.73
rs60743549	CD20 on IgD-CD38dim	ebi-a-GCST90001757	18	60704462	C	G	3657	-0.39	0.09	0.00	0.01	20.51
rs8110979	CD20 on IgD-CD38dim	ebi-a-GCST90001757	19	6951925	T	A	3657	-0.24	0.05	0.00	0.01	20.47
rs66579172	CD20 on IgD-CD38dim	ebi-a-GCST90001757	19	50928270	T	A	3657	-0.14	0.03	0.00	0.01	24.06
rs61731791	CD20 on IgD-CD38dim	ebi-a-GCST90001757	19	50940778	T	C	3657	0.27	0.04	0.00	0.01	40.94
rs55809481	CD20 on IgD-CD38dim	ebi-a-GCST90001757	19	49872521	C	T	3657	-0.32	0.03	0.00	0.03	125.99
rs12480920	CD20 on IgD-CD38dim	ebi-a-GCST90001757	20	3862580	A	G	3657	-0.16	0.03	0.00	0.01	24.27

rs112898596	CD20 on IgD-CD38dim	ebi-a-GCST90001757	22	42039509	T	C	3657	0.27	0.06	0.00	0.01	23.22
rs9625961	CD20 on IgD-CD38dim	ebi-a-GCST90001757	22	44323219	G	A	3657	0.13	0.03	0.00	0.01	20.30
rs4657041	CD20 on memory B	ebi-a-GCST90001758	1	161478859	C	T	3657	-0.13	0.03	0.00	0.01	24.95
rs2492599	CD20 on memory B	ebi-a-GCST90001758	1	24058449	T	C	3657	-0.12	0.03	0.00	0.01	21.77
rs187188344	CD20 on memory B	ebi-a-GCST90001758	2	178858731	G	C	3657	0.37	0.08	0.00	0.01	22.42
rs13080324	CD20 on memory B	ebi-a-GCST90001758	3	111952407	A	C	3657	0.12	0.03	0.00	0.01	21.46
rs2114442	CD20 on memory B	ebi-a-GCST90001758	4	100832060	T	C	3657	0.12	0.03	0.00	0.01	21.82
rs1422711	CD20 on memory B	ebi-a-GCST90001758	5	143621838	C	T	3657	-0.12	0.03	0.00	0.01	21.02
rs295654	CD20 on memory B	ebi-a-GCST90001758	5	58107171	T	C	3657	0.12	0.03	0.00	0.01	21.23
rs77612075	CD20 on memory B	ebi-a-GCST90001758	5	162820460	T	C	3657	0.34	0.07	0.00	0.01	23.15
rs111369841	CD20 on memory B	ebi-a-GCST90001758	6	32921104	T	C	3657	0.21	0.05	0.00	0.01	19.88
rs13190846	CD20 on memory B	ebi-a-GCST90001758	6	29905727	T	C	3657	0.18	0.03	0.00	0.01	33.59
rs13207893	CD20 on memory B	ebi-a-GCST90001758	6	32586922	C	T	3657	0.14	0.03	0.00	0.01	22.81
rs9461562	CD20 on memory B	ebi-a-GCST90001758	6	29778271	G	A	3657	0.29	0.05	0.00	0.01	33.34
rs233495	CD20 on memory B	ebi-a-GCST90001758	6	14806317	T	C	3657	-0.11	0.02	0.00	0.01	21.38
rs1569590	CD20 on memory B	ebi-a-GCST90001758	6	15898884	G	A	3657	0.23	0.04	0.00	0.01	37.33
rs28572463	CD20 on memory B	ebi-a-GCST90001758	6	31209854	C	G	3657	0.26	0.05	0.00	0.01	30.84
rs145640001	CD20 on memory B	ebi-a-GCST90001758	8	97002096	T	G	3657	0.42	0.09	0.00	0.01	20.25
rs12554596	CD20 on memory B	ebi-a-GCST90001758	9	37002142	G	A	3657	-0.12	0.03	0.00	0.01	21.07
rs7035906	CD20 on memory B	ebi-a-GCST90001758	9	95898832	A	G	3657	0.29	0.06	0.00	0.01	21.32
rs75071948	CD20 on memory B	ebi-a-GCST90001758	9	75768836	G	T	3657	0.26	0.06	0.00	0.01	19.63
rs11187166	CD20 on memory B	ebi-a-GCST90001758	10	94516008	T	C	3657	0.15	0.03	0.00	0.01	22.43
rs182220218	CD20 on memory B	ebi-a-GCST90001758	10	75422693	G	A	3657	-2.75	0.58	0.00	0.01	22.89
rs149695230	CD20 on memory B	ebi-a-GCST90001758	11	60288804	G	T	3657	0.19	0.04	0.00	0.01	21.44
rs7128035	CD20 on memory B	ebi-a-GCST90001758	11	268078	C	T	3657	-0.12	0.03	0.00	0.01	19.89
rs2070770	CD20 on memory B	ebi-a-GCST90001758	11	60230531	T	C	3657	-0.27	0.04	0.00	0.01	42.45
rs2578469	CD20 on memory B	ebi-a-GCST90001758	12	4101401	A	G	3657	-0.11	0.03	0.00	0.01	19.59
rs193090598	CD20 on memory B	ebi-a-GCST90001758	12	32460708	C	T	3657	-0.50	0.11	0.00	0.01	22.35
rs179212	CD20 on memory B	ebi-a-GCST90001758	16	19308868	C	T	3657	-0.21	0.05	0.00	0.01	21.23
rs12460030	CD20 on memory B	ebi-a-GCST90001758	19	3361489	C	T	3657	-0.25	0.05	0.00	0.01	21.37
rs30003	CD20 on memory B	ebi-a-GCST90001758	19	49846398	C	T	3657	-0.27	0.03	0.00	0.02	87.07
rs61731791	CD20 on memory B	ebi-a-GCST90001758	19	50940778	T	C	3657	0.21	0.04	0.00	0.01	24.02
rs111741355	naive-mature B cell	ebi-a-GCST90001759	1	48095312	A	G	3657	-2.56	0.57	0.00	0.01	19.97
rs12042193	naive-mature B cell	ebi-a-GCST90001759	1	116031657	G	A	3657	-0.12	0.03	0.00	0.01	21.45
rs113371046	naive-mature B cell	ebi-a-GCST90001759	1	17595034	A	G	3657	0.23	0.05	0.00	0.01	21.02

rs149360160	CD20 on naive-mature B cell	ebi-a-GCST90001759	2	229499798	T	C	3657	-2.42	0.52	0.00	0.01	21.71
rs114931155	CD20 on naive-mature B cell	ebi-a-GCST90001759	4	130319698	T	C	3657	-1.51	0.33	0.00	0.01	21.00
rs73245560	CD20 on naive-mature B cell	ebi-a-GCST90001759	4	43987474	C	T	3657	0.41	0.09	0.00	0.01	19.77
rs3933208	CD20 on naive-mature B cell	ebi-a-GCST90001759	5	161458204	A	T	3657	0.12	0.03	0.00	0.01	22.33
rs72836542	CD20 on naive-mature B cell	ebi-a-GCST90001759	6	14091682	T	C	3657	0.16	0.03	0.00	0.01	34.18
rs233495	CD20 on naive-mature B cell	ebi-a-GCST90001759	6	14806317	T	C	3657	-0.12	0.02	0.00	0.01	24.99
rs9270560	CD20 on naive-mature B cell	ebi-a-GCST90001759	6	32560741	C	T	3657	-0.17	0.03	0.00	0.01	33.82
rs62405562	CD20 on naive-mature B cell	ebi-a-GCST90001759	6	32451834	G	A	3657	0.18	0.03	0.00	0.01	42.20
rs55643835	CD20 on naive-mature B cell	ebi-a-GCST90001759	6	33947909	T	C	3657	-0.28	0.05	0.00	0.01	26.35
rs6910382	CD20 on naive-mature B cell	ebi-a-GCST90001759	6	15914349	G	C	3657	0.22	0.03	0.00	0.01	49.33
rs388354	CD20 on naive-mature B cell	ebi-a-GCST90001759	7	40190449	C	A	3657	-0.13	0.02	0.00	0.01	30.28
rs117400501	CD20 on naive-mature B cell	ebi-a-GCST90001759	7	75444519	T	C	3657	0.38	0.08	0.00	0.01	20.22
rs143129208	CD20 on naive-mature B cell	ebi-a-GCST90001759	11	99391820	G	A	3657	1.10	0.23	0.00	0.01	22.25
rs1941018	CD20 on naive-mature B cell	ebi-a-GCST90001759	11	60268994	G	A	3657	-0.20	0.02	0.00	0.02	62.70
rs11051833	CD20 on naive-mature B cell	ebi-a-GCST90001759	12	32330242	T	C	3657	-0.34	0.07	0.00	0.01	21.68
rs10785682	CD20 on naive-mature B cell	ebi-a-GCST90001759	12	47837477	C	T	3657	-0.11	0.03	0.00	0.01	20.16
rs6496328	CD20 on naive-mature B cell	ebi-a-GCST90001759	15	86988686	T	C	3657	-0.30	0.06	0.00	0.01	22.71
rs8025257	CD20 on naive-mature B cell	ebi-a-GCST90001759	15	89600226	C	T	3657	-0.13	0.03	0.00	0.01	20.82
rs7404890	CD20 on naive-mature B cell	ebi-a-GCST90001759	16	11007193	A	G	3657	0.15	0.03	0.00	0.01	21.64
rs36056466	CD20 on naive-mature B cell	ebi-a-GCST90001759	17	45083383	G	A	3657	-0.12	0.03	0.00	0.01	19.65
rs30003	CD20 on naive-mature B cell	ebi-a-GCST90001759	19	49846398	C	T	3657	-0.17	0.03	0.00	0.01	31.96
rs61731791	CD20 on naive-mature B cell	ebi-a-GCST90001759	19	50940778	T	C	3657	0.19	0.04	0.00	0.01	20.13
rs2413592	CD20 on naive-mature B cell	ebi-a-GCST90001759	22	39858196	G	A	3657	-0.12	0.03	0.00	0.01	23.55
rs11205970	CD20 on unsw mem	ebi-a-GCST90001760	1	53008441	T	A	3657	0.17	0.04	0.00	0.01	20.85
rs187188344	CD20 on unsw mem	ebi-a-GCST90001760	2	178858731	G	C	3657	0.37	0.08	0.00	0.01	21.99

rs9310657	CD20 on unsw mem	ebi-a-GCST90001760	3	21797575	G	T	3657	0.13	0.03	0.00	0.01	21.06
rs13133046	CD20 on unsw mem	ebi-a-GCST90001760	4	23393356	G	A	3657	-0.38	0.08	0.00	0.01	23.37
rs62340965	CD20 on unsw mem	ebi-a-GCST90001760	4	190508875	A	T	3657	-0.15	0.03	0.00	0.01	21.49
rs2114442	CD20 on unsw mem	ebi-a-GCST90001760	4	100832060	T	C	3657	0.11	0.03	0.00	0.01	19.93
rs77612075	CD20 on unsw mem	ebi-a-GCST90001760	5	162820460	T	C	3657	0.35	0.07	0.00	0.01	24.11
rs77330263	CD20 on unsw mem	ebi-a-GCST90001760	6	149134235	T	C	3657	0.54	0.12	0.00	0.01	21.65
rs112405902	CD20 on unsw mem	ebi-a-GCST90001760	6	31809504	A	G	3657	0.26	0.05	0.00	0.01	31.89
rs2523761	CD20 on unsw mem	ebi-a-GCST90001760	6	29818726	G	A	3657	0.21	0.04	0.00	0.01	25.78
rs233495	CD20 on unsw mem	ebi-a-GCST90001760	6	14806317	T	C	3657	-0.12	0.02	0.00	0.01	22.20
rs147717587	CD20 on unsw mem	ebi-a-GCST90001760	6	32623828	T	C	3657	-0.44	0.09	0.00	0.01	22.78
rs6459417	CD20 on unsw mem	ebi-a-GCST90001760	6	15858996	T	C	3657	0.23	0.04	0.00	0.01	38.14
rs28572463	CD20 on unsw mem	ebi-a-GCST90001760	6	31209854	C	G	3657	0.26	0.05	0.00	0.01	29.41
rs12554596	CD20 on unsw mem	ebi-a-GCST90001760	9	37002142	G	A	3657	-0.13	0.03	0.00	0.01	27.21
rs149312070	CD20 on unsw mem	ebi-a-GCST90001760	10	132155649	T	C	3657	1.04	0.23	0.00	0.01	19.84
rs10047347	CD20 on unsw mem	ebi-a-GCST90001760	10	26741516	T	C	3657	0.12	0.03	0.00	0.01	20.96
rs182220218	CD20 on unsw mem	ebi-a-GCST90001760	10	75422693	G	A	3657	-2.63	0.58	0.00	0.01	20.69
rs4447195	CD20 on unsw mem	ebi-a-GCST90001760	11	60249734	T	C	3657	-0.25	0.04	0.00	0.01	36.77
rs149695230	CD20 on unsw mem	ebi-a-GCST90001760	11	60288804	G	T	3657	0.19	0.04	0.00	0.01	21.69
rs149214933	CD20 on unsw mem	ebi-a-GCST90001760	13	64174465	G	T	3657	-0.73	0.16	0.00	0.01	20.04
rs75146873	CD20 on unsw mem	ebi-a-GCST90001760	19	50953211	C	G	3657	0.19	0.04	0.00	0.01	20.28
rs6509428	CD20 on unsw mem	ebi-a-GCST90001760	19	49853881	T	C	3657	-0.24	0.03	0.00	0.02	68.12
rs12460030	CD20 on unsw mem	ebi-a-GCST90001760	19	3361489	C	T	3657	-0.25	0.05	0.00	0.01	21.40
rs78398983	CD20 on unsw mem	ebi-a-GCST90001760	22	32864978	A	G	3657	1.72	0.37	0.00	0.01	21.97
rs74446027	CD20 on sw mem	ebi-a-GCST90001761	1	202171923	T	C	3657	0.22	0.05	0.00	0.01	21.49
rs12030328	CD20 on sw mem	ebi-a-GCST90001761	1	24051614	G	A	3657	-0.13	0.03	0.00	0.01	25.59
rs7608595	CD20 on sw mem	ebi-a-GCST90001761	2	223088415	C	T	3657	0.12	0.03	0.00	0.01	19.63
rs137894231	CD20 on sw mem	ebi-a-GCST90001761	2	29442718	G	T	3657	0.50	0.11	0.00	0.01	20.00
rs187188344	CD20 on sw mem	ebi-a-GCST90001761	2	178858731	G	C	3657	0.41	0.08	0.00	0.01	26.70
rs78988304	CD20 on sw mem	ebi-a-GCST90001761	3	25982156	T	G	3657	0.29	0.06	0.00	0.01	19.58
rs13134942	CD20 on sw mem	ebi-a-GCST90001761	4	181179470	T	C	3657	0.15	0.03	0.00	0.01	20.36
rs77612075	CD20 on sw mem	ebi-a-GCST90001761	5	162820460	T	C	3657	0.34	0.07	0.00	0.01	22.65
rs1569590	CD20 on sw mem	ebi-a-GCST90001761	6	15898884	G	A	3657	0.21	0.04	0.00	0.01	30.90
rs11751198	CD20 on sw mem	ebi-a-GCST90001761	6	31753526	A	G	3657	0.22	0.04	0.00	0.01	34.53
rs12200643	CD20 on sw mem	ebi-a-GCST90001761	6	170846603	A	G	3657	-0.66	0.14	0.00	0.01	21.52
rs9271146	CD20 on sw mem	ebi-a-GCST90001761	6	32577282	C	A	3657	-0.17	0.03	0.00	0.01	31.85
rs111369841	CD20 on sw mem	ebi-a-GCST90001761	6	32921104	T	C	3657	0.23	0.05	0.00	0.01	23.29
rs2524184	CD20 on sw mem	ebi-a-GCST90001761	6	30424736	T	A	3657	-0.16	0.03	0.00	0.01	25.02

rs9650093	CD20 on sw mem	ebi-a-GCST90001761	8	127984089	G	A	3657	0.15	0.03	0.00	0.01	26.52
rs11138252	CD20 on sw mem	ebi-a-GCST90001761	9	82087111	T	G	3657	0.30	0.07	0.00	0.01	20.43
rs140207086	CD20 on sw mem	ebi-a-GCST90001761	9	124822185	T	C	3657	-0.80	0.18	0.00	0.01	20.50
rs75071948	CD20 on sw mem	ebi-a-GCST90001761	9	75768836	G	T	3657	0.28	0.06	0.00	0.01	21.79
rs35039517	CD20 on sw mem	ebi-a-GCST90001761	10	94522438	A	G	3657	0.19	0.03	0.00	0.01	36.13
rs73025942	CD20 on sw mem	ebi-a-GCST90001761	11	123334349	C	G	3657	-0.31	0.07	0.00	0.01	21.19
rs143129208	CD20 on sw mem	ebi-a-GCST90001761	11	99391820	G	A	3657	1.07	0.23	0.00	0.01	21.48
rs7128035	CD20 on sw mem	ebi-a-GCST90001761	11	268078	C	T	3657	-0.13	0.03	0.00	0.01	20.97
rs11230624	CD20 on sw mem	ebi-a-GCST90001761	11	60952231	C	G	3657	-0.17	0.04	0.00	0.01	20.60
rs10501383	CD20 on sw mem	ebi-a-GCST90001761	11	60164527	T	C	3657	-0.30	0.04	0.00	0.01	53.22
rs185205613	CD20 on sw mem	ebi-a-GCST90001761	12	48074625	A	T	3657	-0.19	0.04	0.00	0.01	19.63
rs1447085	CD20 on sw mem	ebi-a-GCST90001761	12	127798516	G	T	3657	0.12	0.03	0.00	0.01	19.90
rs187026890	CD20 on sw mem	ebi-a-GCST90001761	15	93770077	C	A	3657	1.36	0.30	0.00	0.01	20.68
rs179206	CD20 on sw mem	ebi-a-GCST90001761	16	19303610	T	C	3657	-0.24	0.05	0.00	0.01	25.21
rs62122620	CD20 on sw mem	ebi-a-GCST90001761	19	14871311	T	A	3657	0.47	0.10	0.00	0.01	21.23
rs55809481	CD20 on sw mem	ebi-a-GCST90001761	19	49872521	C	T	3657	-0.32	0.03	0.00	0.03	125.86
rs61731791	CD20 on sw mem	ebi-a-GCST90001761	19	50940778	T	C	3657	0.24	0.04	0.00	0.01	30.94
rs8110979	CD20 on sw mem	ebi-a-GCST90001761	19	6951925	T	A	3657	-0.26	0.05	0.00	0.01	23.72
rs12480920	CD20 on sw mem	ebi-a-GCST90001761	20	3862580	A	G	3657	-0.14	0.03	0.00	0.01	20.11
rs112898596	CD20 on sw mem	ebi-a-GCST90001761	22	42039509	T	C	3657	0.26	0.06	0.00	0.01	20.33
rs1293260	CD20 on sw mem	ebi-a-GCST90001762	1	25709104	G	C	3658	0.12	0.03	0.00	0.01	21.94
rs113371046	CD20 on sw mem	ebi-a-GCST90001762	1	17595034	A	G	3658	0.23	0.05	0.00	0.01	21.19
rs149360160	CD20 on sw mem	ebi-a-GCST90001762	2	229499798	T	C	3658	-2.41	0.52	0.00	0.01	21.68
rs79003098	CD20 on sw mem	ebi-a-GCST90001762	2	81965038	A	T	3658	-0.16	0.03	0.00	0.01	24.00
rs73245560	CD20 on sw mem	ebi-a-GCST90001762	4	43987474	C	T	3658	0.41	0.09	0.00	0.01	19.83
rs77612075	CD20 on sw mem	ebi-a-GCST90001762	5	162820460	T	C	3658	0.35	0.07	0.00	0.01	23.17
rs80155794	CD20 on sw mem	ebi-a-GCST90001762	5	178957291	A	G	3658	-0.34	0.07	0.00	0.01	21.54
rs3933208	CD20 on sw mem	ebi-a-GCST90001762	5	161458204	A	T	3658	0.12	0.03	0.00	0.01	24.41
rs72836542	CD20 on sw mem	ebi-a-GCST90001762	6	14091682	T	C	3658	0.15	0.03	0.00	0.01	32.00
rs9270560	CD20 on sw mem	ebi-a-GCST90001762	6	32560741	C	T	3658	-0.18	0.03	0.00	0.01	36.62
rs233495	CD20 on sw mem	ebi-a-GCST90001762	6	14806317	T	C	3658	-0.13	0.02	0.00	0.01	25.76
rs55643835	CD20 on sw mem	ebi-a-GCST90001762	6	33947909	T	C	3658	-0.24	0.05	0.00	0.01	20.28
rs62405562	CD20 on sw mem	ebi-a-GCST90001762	6	32451834	G	A	3658	0.19	0.03	0.00	0.01	44.84
rs12212931	CD20 on sw mem	ebi-a-GCST90001762	6	15913304	G	T	3658	0.22	0.03	0.00	0.01	49.50
rs388354	CD20 on sw mem	ebi-a-GCST90001762	7	40190449	C	A	3658	-0.13	0.02	0.00	0.01	27.20
rs4939384	CD20 on sw mem	ebi-a-GCST90001762	11	60273642	G	A	3658	-0.20	0.02	0.00	0.02	65.45
rs11051833	CD20 on sw mem	ebi-a-GCST90001762	12	32330242	T	C	3658	-0.35	0.07	0.00	0.01	22.52
rs11059642	CD20 on sw mem	ebi-a-GCST90001762	12	128795644	A	G	3658	0.14	0.03	0.00	0.01	22.11
rs8025257	CD20 on sw mem	ebi-a-GCST90001762	15	89600226	C	T	3658	-0.13	0.03	0.00	0.01	20.77
rs6496328	CD20 on sw mem	ebi-a-GCST90001762	15	86988686	T	C	3658	-0.30	0.06	0.00	0.01	23.09
rs7404890	CD20 on sw mem	ebi-a-GCST90001762	16	11007193	A	G	3658	0.16	0.03	0.00	0.01	22.95
rs30003	CD20 on sw mem	ebi-a-GCST90001762	19	49846398	C	T	3658	-0.18	0.03	0.00	0.01	36.81

rs73086355	CD20 on IgD+	ebi-a-GCST90001762	20	11850850	A	C	3658	-0.28	0.06	0.00	0.01	20.89
rs12026973	CD20 on transitional	ebi-a-GCST90001763	1	107824037	T	G	3657	-0.19	0.04	0.00	0.01	25.21
rs72683667	CD20 on transitional	ebi-a-GCST90001763	1	78106407	T	C	3657	-0.43	0.10	0.00	0.01	19.59
rs114212270	CD20 on transitional	ebi-a-GCST90001763	2	174337105	C	T	3657	-0.25	0.05	0.00	0.01	21.37
rs12473410	CD20 on transitional	ebi-a-GCST90001763	2	115568051	G	C	3657	-0.27	0.06	0.00	0.01	19.96
rs73175579	CD20 on transitional	ebi-a-GCST90001763	3	185524179	A	C	3657	0.30	0.06	0.00	0.01	24.89
rs114984432	CD20 on transitional	ebi-a-GCST90001763	3	42912480	A	G	3657	-2.95	0.66	0.00	0.01	19.89
rs73252531	CD20 on transitional	ebi-a-GCST90001763	4	25162256	C	A	3657	0.18	0.04	0.00	0.01	20.46
rs146974582	CD20 on transitional	ebi-a-GCST90001763	5	158703283	G	A	3657	0.61	0.14	0.00	0.01	19.93
rs879299	CD20 on transitional	ebi-a-GCST90001763	6	15897007	G	T	3657	0.29	0.03	0.00	0.02	79.79
rs233495	CD20 on transitional	ebi-a-GCST90001763	6	14806317	T	C	3657	-0.12	0.02	0.00	0.01	24.61
rs9273390	CD20 on transitional	ebi-a-GCST90001763	6	32627042	C	G	3657	0.16	0.04	0.00	0.01	20.09
rs72836542	CD20 on transitional	ebi-a-GCST90001763	6	14091682	T	C	3657	0.13	0.03	0.00	0.01	22.27
rs61011928	CD20 on transitional	ebi-a-GCST90001763	7	56434969	T	A	3657	0.12	0.03	0.00	0.01	20.62
rs34900401	CD20 on transitional	ebi-a-GCST90001763	7	148563716	G	A	3657	0.21	0.05	0.00	0.01	19.82
rs10958698	CD20 on transitional	ebi-a-GCST90001763	8	41641075	T	C	3657	0.12	0.03	0.00	0.01	19.71
rs76437378	CD20 on transitional	ebi-a-GCST90001763	9	83114502	C	A	3657	0.29	0.06	0.00	0.01	20.15
rs978366	CD20 on transitional	ebi-a-GCST90001763	10	95731909	G	C	3657	-0.16	0.04	0.00	0.01	20.39
rs7939177	CD20 on transitional	ebi-a-GCST90001763	11	60266070	T	C	3657	-0.19	0.02	0.00	0.02	56.47
rs11055535	CD20 on transitional	ebi-a-GCST90001763	12	13754468	C	T	3657	0.17	0.04	0.00	0.01	20.22
rs11627327	CD20 on transitional	ebi-a-GCST90001763	14	26441807	G	A	3657	-0.19	0.04	0.00	0.01	20.21
rs145131147	CD20 on transitional	ebi-a-GCST90001763	14	55101477	A	G	3657	0.11	0.03	0.00	0.01	19.63
rs9910861	CD20 on transitional	ebi-a-GCST90001763	17	2801009	A	T	3657	-0.18	0.04	0.00	0.01	20.91
rs117413283	CD20 on transitional	ebi-a-GCST90001763	18	47434681	T	C	3657	2.02	0.44	0.00	0.01	20.72
rs118186161	CD20 on transitional	ebi-a-GCST90001763	19	17549328	G	C	3657	-0.24	0.05	0.00	0.01	21.83
rs34486765	CD20 on transitional	ebi-a-GCST90001763	19	49915911	A	G	3657	0.12	0.03	0.00	0.01	21.41
rs149341358	CD20 on transitional	ebi-a-GCST90001763	21	46442156	T	C	3657	-1.09	0.24	0.00	0.01	20.76
rs34719184	CD24+ CD27+ CD24 on	ebi-a-GCST90001764	2	546536	A	G	3654	-0.15	0.03	0.00	0.01	20.75
rs113934809	CD24+ CD27+ CD24 on	ebi-a-GCST90001764	2	191984672	G	A	3654	-1.46	0.32	0.00	0.01	20.58
rs1471412	CD24+ CD27+ CD24 on	ebi-a-GCST90001764	4	131810654	T	C	3654	-0.16	0.03	0.00	0.01	22.07
rs629732	IgD+ CD24+ CD24 on	ebi-a-GCST90001765	1	112356263	A	G	3655	0.11	0.03	0.00	0.01	20.06
rs143386390	IgD+ CD24+ CD24 on	ebi-a-GCST90001765	1	6146588	T	C	3655	1.22	0.25	0.00	0.01	23.37
rs2902453	IgD+ CD24+ CD24 on	ebi-a-GCST90001765	2	113923281	G	A	3655	1.37	0.31	0.00	0.01	19.62
rs34548572	IgD+ CD24+ CD24 on	ebi-a-GCST90001765	3	4748193	A	G	3655	-0.14	0.03	0.00	0.01	20.19
rs1471412	IgD+ CD24+ CD24 on	ebi-a-GCST90001765	4	131810654	T	C	3655	-0.16	0.03	0.00	0.01	20.44

rs4862454	CD24 on IgD+ CD24+	ebi-a-GCST90001765	4	185816062	A	G	3655	-0.13	0.03	0.00	0.01	22.08
rs11930977	CD24 on IgD+ CD24+	ebi-a-GCST90001765	4	91342005	T	G	3655	-0.56	0.13	0.00	0.01	19.55
rs17370695	CD24 on IgD+ CD24+	ebi-a-GCST90001765	5	92906685	C	A	3655	-0.16	0.04	0.00	0.01	20.38
rs13171255	CD24 on IgD+ CD24+	ebi-a-GCST90001765	5	159374162	G	A	3655	0.16	0.03	0.00	0.01	21.09
rs12200293	CD24 on IgD+ CD24+	ebi-a-GCST90001765	6	101259222	A	C	3655	-0.31	0.06	0.00	0.01	26.98
rs9273358	CD24 on IgD+ CD24+	ebi-a-GCST90001765	6	32626019	T	C	3655	-0.14	0.03	0.00	0.01	24.16
rs2236073	CD24 on IgD+ CD24+	ebi-a-GCST90001765	6	106898421	A	G	3655	0.17	0.02	0.00	0.01	45.77
rs9400058	CD24 on IgD+ CD24+	ebi-a-GCST90001765	6	107164076	G	A	3655	-0.74	0.05	0.00	0.06	226.16
rs150087880	CD24 on IgD+ CD24+	ebi-a-GCST90001765	6	66021291	T	C	3655	-2.09	0.40	0.00	0.01	27.06
rs9478944	CD24 on IgD+ CD24+	ebi-a-GCST90001765	6	151400649	A	G	3655	0.17	0.04	0.00	0.01	19.87
rs144967366	CD24 on IgD+ CD24+	ebi-a-GCST90001765	6	57821837	C	T	3655	-2.51	0.55	0.00	0.01	21.07
rs117513979	CD24 on IgD+ CD24+	ebi-a-GCST90001765	7	103968091	C	T	3655	-2.51	0.54	0.00	0.01	21.94
rs147803894	CD24 on IgD+ CD24+	ebi-a-GCST90001765	10	28798971	A	G	3655	-1.32	0.30	0.00	0.01	19.69
rs7116224	CD24 on IgD+ CD24+	ebi-a-GCST90001765	11	15734002	A	G	3655	-0.12	0.02	0.00	0.01	21.36
rs189504940	CD24 on IgD+ CD24+	ebi-a-GCST90001765	12	87629976	A	T	3655	0.53	0.12	0.00	0.01	21.00
rs147649139	CD24 on IgD+ CD24+	ebi-a-GCST90001765	12	2310188	G	T	3655	-0.40	0.09	0.00	0.01	19.67
rs4942468	CD24 on IgD+ CD24+	ebi-a-GCST90001765	13	46618290	A	C	3655	-0.13	0.03	0.00	0.01	22.94
rs12930821	CD24 on IgD+ CD24+	ebi-a-GCST90001765	16	58054671	C	G	3655	-0.14	0.03	0.00	0.01	25.06
rs117820766	CD24 on IgD+ CD24+	ebi-a-GCST90001765	18	61346454	A	G	3655	0.67	0.15	0.00	0.01	20.58
rs78157884	CD24 on IgD+ CD24+	ebi-a-GCST90001765	18	50026310	A	T	3655	0.20	0.05	0.00	0.01	20.06
rs285250	CD24 on IgD+ CD24+	ebi-a-GCST90001765	19	16416430	C	T	3655	0.13	0.03	0.00	0.01	22.73
rs11102943	CD24 on IgD+ CD38-	ebi-a-GCST90001766	1	115907459	A	G	3638	-0.15	0.03	0.00	0.01	20.20
rs75307680	CD24 on IgD+ CD38-	ebi-a-GCST90001766	2	144289202	G	T	3638	0.40	0.09	0.00	0.01	19.69
rs77154655	CD24 on IgD+ CD38-	ebi-a-GCST90001766	3	16255245	C	T	3638	-0.25	0.06	0.00	0.01	20.25
rs4435699	CD24 on IgD+ CD38-	ebi-a-GCST90001766	4	164019500	G	C	3638	0.12	0.03	0.00	0.01	20.00
rs144378737	CD24 on IgD+ CD38-	ebi-a-GCST90001766	4	144991868	G	A	3638	-2.11	0.45	0.00	0.01	21.60
rs62358439	CD24 on IgD+ CD38-	ebi-a-GCST90001766	5	57060537	A	G	3638	-1.05	0.24	0.00	0.01	19.83
rs1007713	CD24 on IgD+ CD38-	ebi-a-GCST90001766	5	79150995	A	G	3638	0.19	0.04	0.00	0.01	20.94
rs72782129	CD24 on IgD+ CD38-	ebi-a-GCST90001766	5	111200853	G	T	3638	1.14	0.25	0.00	0.01	20.27
rs9400058	CD24 on IgD+ CD38-	ebi-a-GCST90001766	6	107164076	G	A	3638	-0.43	0.05	0.00	0.02	72.25
rs783418	CD24 on IgD+ CD38-	ebi-a-GCST90001766	6	106962679	C	G	3638	-0.15	0.03	0.00	0.01	21.15
rs9479391	CD24 on IgD+ CD38-	ebi-a-GCST90001766	6	153107656	A	T	3638	-0.23	0.05	0.00	0.01	21.79
rs2236073	CD24 on IgD+ CD38-	ebi-a-GCST90001766	6	106898421	A	G	3638	0.14	0.03	0.00	0.01	30.33
rs9270560	CD24 on IgD+ CD38-	ebi-a-GCST90001766	6	32560741	C	T	3638	-0.14	0.03	0.00	0.01	20.17
rs11781090	CD24 on IgD+ CD38-	ebi-a-GCST90001766	8	144871633	T	C	3638	0.13	0.03	0.00	0.01	24.78
rs6481230	CD24 on IgD+ CD38-	ebi-a-GCST90001766	10	58477006	T	A	3638	0.12	0.03	0.00	0.01	20.17
rs138034828	CD24 on IgD+ CD38-	ebi-a-GCST90001766	10	111599201	C	G	3638	0.28	0.06	0.00	0.01	23.24

rs143053604	CD24 on IgD+ CD38-	ebi-a-GCST90001766	11	12834785	G	A	3638	-0.85	0.16	0.00	0.01	26.52
rs11176619	CD24 on IgD+ CD38-	ebi-a-GCST90001766	12	40829042	T	G	3638	-0.27	0.06	0.00	0.01	19.76
rs59866449	CD24 on IgD+ CD38-	ebi-a-GCST90001766	12	94556734	G	A	3638	-0.27	0.06	0.00	0.01	20.41
rs77636548	CD24 on IgD+ CD38-	ebi-a-GCST90001766	14	43192207	C	T	3638	-0.35	0.07	0.00	0.01	26.72
rs792792	CD24 on IgD+ CD38-	ebi-a-GCST90001766	17	51153533	T	C	3638	-0.19	0.04	0.00	0.01	23.86
rs8089264	CD24 on IgD+ CD38-	ebi-a-GCST90001766	18	46221152	T	C	3638	0.29	0.06	0.00	0.01	24.50
rs114017670	CD24 on IgD+ CD38-	ebi-a-GCST90001767	1	40242025	G	A	1832	0.31	0.07	0.00	0.01	19.67
rs139742955	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	1	9926086	C	T	1832	0.49	0.11	0.00	0.01	20.41
rs34396417	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	2	121363691	C	G	1832	-0.35	0.08	0.00	0.01	20.75
rs150910045	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	3	148279147	C	T	1832	0.17	0.04	0.00	0.01	21.70
rs1889263	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	3	175401058	C	T	1832	-0.45	0.10	0.00	0.01	20.03
rs2236073	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	6	106898421	A	G	1832	0.21	0.04	0.00	0.02	35.56
rs9400058	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	6	107164076	G	A	1832	-0.82	0.07	0.00	0.07	135.00
rs117218666	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	6	139700367	T	C	1832	0.48	0.10	0.00	0.01	25.75
rs55929002	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	6	33963845	C	G	1832	0.28	0.06	0.00	0.01	21.08
rs783414	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	6	106966701	G	A	1832	-0.24	0.05	0.00	0.01	27.54
rs76624974	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	11	131992482	G	A	1832	-0.42	0.09	0.00	0.01	22.62
rs2283164	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	11	2579163	G	A	1832	-0.33	0.07	0.00	0.01	19.90
rs117488563	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	13	29183168	A	G	1832	-0.72	0.15	0.00	0.01	24.66
rs35851357	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	14	88302344	A	G	1832	0.24	0.05	0.00	0.01	19.74
rs72682699	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	14	44731074	T	C	1832	0.31	0.07	0.00	0.01	20.84
rs74833732	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	14	20362976	A	G	1832	1.55	0.34	0.00	0.01	20.28
rs34534209	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	14	30498909	C	T	1832	0.55	0.12	0.00	0.01	20.26
rs16942616	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	16	87098993	T	C	1832	-0.40	0.09	0.00	0.01	20.66
rs4569270	unsw mem CD24 on IgD+ CD38-	ebi-a-GCST90001767	16	82557069	T	A	1832	-0.26	0.06	0.00	0.01	20.77
rs75645526	unsw mem IgD+ CD38-	ebi-a-GCST90001767	16	71565056	A	G	1832	0.23	0.05	0.00	0.01	20.51

rs58241910	CD24 on IgD+ CD38- unsw mem CD24 on	ebi-a-GCST90001767	20	62864471	C	T	1832	-0.28	0.06	0.00	0.01	20.52
rs78409132	IgD+ CD38- unsw mem CD24 on	ebi-a-GCST90001767	21	16838053	C	T	1832	-0.24	0.05	0.00	0.01	21.29
rs6666130	IgD+ CD38br CD24 on	ebi-a-GCST90001768	1	112374026	T	G	3655	-0.24	0.05	0.00	0.01	22.44
rs114151424	IgD+ CD38br CD24 on	ebi-a-GCST90001768	1	120674028	A	G	3655	1.16	0.22	0.00	0.01	27.81
rs116032501	IgD+ CD38br CD24 on	ebi-a-GCST90001768	1	55983064	C	A	3655	-0.19	0.04	0.00	0.01	20.74
rs59655785	IgD+ CD38br CD24 on	ebi-a-GCST90001768	2	152494218	G	A	3655	0.12	0.02	0.00	0.01	22.51
rs146379662	IgD+ CD38br CD24 on	ebi-a-GCST90001768	2	240272688	T	C	3655	0.54	0.12	0.00	0.01	21.60
rs181036992	IgD+ CD38br CD24 on	ebi-a-GCST90001768	3	196496410	C	T	3655	-0.44	0.09	0.00	0.01	23.10
rs78405192	IgD+ CD38br CD24 on	ebi-a-GCST90001768	4	71295244	C	T	3655	1.58	0.35	0.00	0.01	20.33
rs10056811	IgD+ CD38br CD24 on	ebi-a-GCST90001768	5	74605220	A	G	3655	-0.13	0.03	0.00	0.01	23.06
rs139160176	IgD+ CD38br CD24 on	ebi-a-GCST90001768	5	13902245	C	G	3655	-0.97	0.20	0.00	0.01	23.07
rs35093039	IgD+ CD38br CD24 on	ebi-a-GCST90001768	5	24061216	A	G	3655	-0.21	0.05	0.00	0.01	19.55
rs9326867	IgD+ CD38br CD24 on	ebi-a-GCST90001768	5	112302830	G	T	3655	0.17	0.04	0.00	0.01	20.88
rs9452529	IgD+ CD38br CD24 on	ebi-a-GCST90001768	6	94734554	T	C	3655	-0.51	0.11	0.00	0.01	22.56
rs9398107	IgD+ CD38br CD24 on	ebi-a-GCST90001768	6	107155687	G	A	3655	-0.44	0.05	0.00	0.02	64.49
rs1799693	IgD+ CD38br CD24 on	ebi-a-GCST90001768	6	106992464	G	A	3655	-0.20	0.03	0.00	0.01	38.46
rs3097667	IgD+ CD38br CD24 on	ebi-a-GCST90001768	6	33023723	C	G	3655	-0.15	0.03	0.00	0.01	23.08
rs7781145	IgD+ CD38br CD24 on	ebi-a-GCST90001768	7	23626602	A	C	3655	-0.14	0.03	0.00	0.01	23.83
rs75059545	IgD+ CD38br CD24 on	ebi-a-GCST90001768	7	129584738	C	A	3655	0.18	0.04	0.00	0.01	21.62
rs10108273	IgD+ CD38br CD24 on	ebi-a-GCST90001768	8	85737573	A	T	3655	0.17	0.04	0.00	0.01	20.79
rs45609135	IgD+ CD38br CD24 on	ebi-a-GCST90001768	11	118942134	A	G	3655	-0.18	0.04	0.00	0.01	19.91
rs192325628	IgD+ CD38br CD24 on	ebi-a-GCST90001768	11	121622513	T	C	3655	0.49	0.10	0.00	0.01	24.50
rs16923647	IgD+ CD38br CD24 on	ebi-a-GCST90001768	12	21451395	T	C	3655	-0.16	0.03	0.00	0.01	22.88
rs4765854	IgD+ CD38br CD24 on	ebi-a-GCST90001768	12	1997152	C	A	3655	-0.23	0.05	0.00	0.01	20.45
rs4368221	IgD+ CD38br CD24 on	ebi-a-GCST90001768	18	45634445	C	G	3655	0.16	0.03	0.00	0.01	21.17
rs117920360	IgD+ CD38br CD24 on	ebi-a-GCST90001768	18	58030683	T	C	3655	0.15	0.03	0.00	0.01	19.93
rs57680652	IgD+ CD38br CD24 on	ebi-a-GCST90001768	19	16362072	T	C	3655	0.13	0.03	0.00	0.01	24.11
rs142793352	CD38- CD24 on IgD-	ebi-a-GCST90001769	1	188139428	C	A	3648	0.42	0.09	0.00	0.01	19.60
rs10925304	CD38- CD24 on IgD-	ebi-a-GCST90001769	1	237235986	T	C	3648	0.12	0.03	0.00	0.01	19.75
rs2173295	CD38- CD24 on IgD-	ebi-a-GCST90001769	1	54943264	C	A	3648	0.21	0.05	0.00	0.01	20.10
rs72635970	CD38- CD24 on IgD-	ebi-a-GCST90001769	2	73868977	G	T	3648	0.30	0.06	0.00	0.01	23.49
rs9811806	CD38- CD24 on IgD-	ebi-a-GCST90001769	3	164038932	A	G	3648	-0.20	0.04	0.00	0.01	20.92
rs2236073	CD38- CD24 on IgD-	ebi-a-GCST90001769	6	106898421	A	G	3648	0.18	0.03	0.00	0.01	50.56
rs72829705	CD38- CD24 on IgD-	ebi-a-GCST90001769	6	23390794	T	C	3648	0.23	0.05	0.00	0.01	22.57
rs9400058	CD38- CD24 on IgD-	ebi-a-GCST90001769	6	107164076	G	A	3648	-0.53	0.05	0.00	0.03	109.98
rs76990892	CD38-	ebi-a-GCST90001769	6	101131432	A	T	3648	0.62	0.13	0.00	0.01	23.44

rs1800542	CD24 on IgD- CD38-	ebi-a-GCST90001769	6	12292528	A	G	3648	-0.48	0.10	0.00	0.01	23.37
rs117066281	CD24 on IgD- CD38-	ebi-a-GCST90001769	8	84921322	T	A	3648	-1.17	0.25	0.00	0.01	21.55
rs17816653	CD24 on IgD- CD38-	ebi-a-GCST90001769	8	1284332	A	C	3648	-0.14	0.03	0.00	0.01	20.83
rs75583168	CD24 on IgD- CD38-	ebi-a-GCST90001769	8	131650003	A	G	3648	0.74	0.17	0.00	0.01	20.09
rs74343204	CD24 on IgD- CD38-	ebi-a-GCST90001769	9	4327663	A	G	3648	-0.16	0.03	0.00	0.01	22.93
rs117049974	CD24 on IgD- CD38-	ebi-a-GCST90001769	9	117755959	T	C	3648	1.62	0.36	0.00	0.01	20.37
rs111701276	CD24 on IgD- CD38-	ebi-a-GCST90001769	9	28274639	G	A	3648	0.88	0.18	0.00	0.01	25.00
rs314497	CD24 on IgD- CD38-	ebi-a-GCST90001769	11	115341932	T	G	3648	0.19	0.04	0.00	0.01	22.11
rs10777201	CD24 on IgD- CD38-	ebi-a-GCST90001769	12	77884772	C	A	3648	-0.15	0.03	0.00	0.01	22.10
rs9574429	CD24 on IgD- CD38-	ebi-a-GCST90001769	13	80035438	G	A	3648	0.12	0.03	0.00	0.01	23.09
rs117080191	CD24 on IgD- CD38-	ebi-a-GCST90001769	13	102960469	T	C	3648	1.15	0.26	0.00	0.01	19.81
rs77636548	CD24 on IgD- CD38-	ebi-a-GCST90001769	14	43192207	C	T	3648	-0.33	0.07	0.00	0.01	23.26
rs2895071	CD24 on IgD- CD38-	ebi-a-GCST90001769	15	96894306	C	T	3648	0.84	0.19	0.00	0.01	20.67
rs4784022	CD24 on IgD- CD38-	ebi-a-GCST90001769	16	58051178	T	C	3648	-0.14	0.03	0.00	0.01	23.12
rs11568076	CD24 on IgD- CD38-	ebi-a-GCST90001769	17	4544520	G	A	3648	1.20	0.23	0.00	0.01	26.17
rs113883551	CD24 on IgD- CD38-	ebi-a-GCST90001769	18	24190315	C	T	3648	0.13	0.03	0.00	0.01	20.92
rs12968683	CD24 on IgD- CD38-	ebi-a-GCST90001769	18	23625106	A	G	3648	-0.37	0.08	0.00	0.01	20.21
rs4808045	CD24 on IgD- CD38-	ebi-a-GCST90001769	19	16423035	T	C	3648	0.13	0.03	0.00	0.01	19.57
rs56913504	CD24 on IgD- CD38-	ebi-a-GCST90001769	20	52133353	A	G	3648	-0.26	0.06	0.00	0.01	20.42
rs6073000	CD24 on IgD- CD38-	ebi-a-GCST90001769	20	41777449	C	T	3648	0.29	0.06	0.00	0.01	20.79
rs181819396	CD24 on IgD- CD38dim	ebi-a-GCST90001770	1	191984411	G	C	3649	1.26	0.27	0.00	0.01	22.47
rs61820496	CD24 on IgD- CD38dim	ebi-a-GCST90001770	1	158541235	A	G	3649	-0.22	0.05	0.00	0.01	24.19
rs7532008	CD24 on IgD- CD38dim	ebi-a-GCST90001770	1	150960350	C	A	3649	0.11	0.03	0.00	0.01	20.55
rs146949757	CD24 on IgD- CD38dim	ebi-a-GCST90001770	1	177354939	G	T	3649	0.88	0.19	0.00	0.01	20.80
rs35629713	CD24 on IgD- CD38dim	ebi-a-GCST90001770	2	156376531	A	C	3649	0.37	0.07	0.00	0.01	25.97
rs7606151	CD24 on IgD- CD38dim	ebi-a-GCST90001770	2	88835687	C	A	3649	0.12	0.03	0.00	0.01	21.70
rs12642193	CD24 on IgD- CD38dim	ebi-a-GCST90001770	4	25916457	G	A	3649	-0.17	0.03	0.00	0.01	24.84
rs143386390	CD24 on memory B	ebi-a-GCST90001771	1	6146588	T	C	3653	1.20	0.25	0.00	0.01	22.28
rs77875928	CD24 on memory B	ebi-a-GCST90001771	2	137032557	A	G	3653	-0.56	0.13	0.00	0.01	19.76
rs2902453	CD24 on memory B	ebi-a-GCST90001771	2	113923281	G	A	3653	1.50	0.31	0.00	0.01	23.53
rs73214037	CD24 on memory B	ebi-a-GCST90001771	3	197395630	C	G	3653	-1.36	0.30	0.00	0.01	20.40
rs4862454	CD24 on memory B	ebi-a-GCST90001771	4	185816062	A	G	3653	-0.14	0.03	0.00	0.01	25.93
rs78023498	CD24 on memory B	ebi-a-GCST90001771	4	189754606	T	G	3653	-0.21	0.05	0.00	0.01	20.09
rs138093394	CD24 on memory B	ebi-a-GCST90001771	4	39960496	T	C	3653	-1.42	0.32	0.00	0.01	19.80
rs7705021	CD24 on memory B	ebi-a-GCST90001771	5	79153359	G	A	3653	0.19	0.04	0.00	0.01	21.72
rs72948545	CD24 on memory B	ebi-a-GCST90001771	6	107168477	G	A	3653	-0.74	0.05	0.00	0.05	203.21
rs150394154	CD24 on memory B	ebi-a-GCST90001771	6	32556019	A	G	3653	0.15	0.03	0.00	0.01	19.76

rs9390863	CD24 on memory B	ebi-a-GCST90001771	6	96559132	A	C	3653	0.22	0.05	0.00	0.01	20.28
rs12200293	CD24 on memory B	ebi-a-GCST90001771	6	101259222	A	C	3653	-0.29	0.06	0.00	0.01	24.36
rs2236073	CD24 on memory B	ebi-a-GCST90001771	6	106898421	A	G	3653	0.18	0.02	0.00	0.01	52.17
rs9392365	CD24 on memory B	ebi-a-GCST90001771	6	2091975	T	A	3653	-0.14	0.03	0.00	0.01	21.01
rs117417471	CD24 on memory B	ebi-a-GCST90001771	10	56973794	G	A	3653	-0.27	0.06	0.00	0.01	19.58
rs7078071	CD24 on memory B	ebi-a-GCST90001771	10	124038072	A	G	3653	0.20	0.05	0.00	0.01	19.99
rs192325628	CD24 on memory B	ebi-a-GCST90001771	11	121622513	T	C	3653	0.45	0.10	0.00	0.01	21.12
rs11023691	CD24 on memory B	ebi-a-GCST90001771	11	15732077	C	A	3653	0.11	0.03	0.00	0.01	20.53
rs77604725	CD24 on memory B	ebi-a-GCST90001771	12	11210672	G	A	3653	-0.70	0.15	0.00	0.01	20.92
rs117918490	CD24 on memory B	ebi-a-GCST90001771	12	83630901	A	G	3653	0.45	0.10	0.00	0.01	19.81
rs6561591	CD24 on memory B	ebi-a-GCST90001771	13	51367125	C	T	3653	-0.12	0.02	0.00	0.01	23.61
rs4942468	CD24 on memory B	ebi-a-GCST90001771	13	46618290	A	C	3653	-0.13	0.03	0.00	0.01	25.71
rs4911068	CD24 on memory B	ebi-a-GCST90001771	13	85904508	G	A	3653	0.11	0.03	0.00	0.01	19.71
rs117084919	CD24 on memory B	ebi-a-GCST90001771	13	112826783	G	T	3653	0.40	0.09	0.00	0.01	21.60
rs7153153	CD24 on memory B	ebi-a-GCST90001771	14	89049488	A	T	3653	0.15	0.03	0.00	0.01	22.70
rs144371214	CD24 on memory B	ebi-a-GCST90001771	14	88425584	A	T	3653	0.51	0.11	0.00	0.01	20.48
rs139648894	CD24 on memory B	ebi-a-GCST90001771	16	8831083	T	C	3653	-0.26	0.06	0.00	0.01	20.33
rs182058654	CD24 on memory B	ebi-a-GCST90001771	16	81440009	T	C	3653	0.50	0.11	0.00	0.01	20.10
rs12930821	CD24 on memory B	ebi-a-GCST90001771	16	58054671	C	G	3653	-0.14	0.03	0.00	0.01	24.88
rs113242537	CD24 on memory B	ebi-a-GCST90001771	18	75792336	A	G	3653	-0.85	0.19	0.00	0.01	19.96
rs117820766	CD24 on memory B	ebi-a-GCST90001771	18	61346454	A	G	3653	0.66	0.15	0.00	0.01	19.81
rs7246669	CD24 on memory B	ebi-a-GCST90001771	19	16442023	G	A	3653	0.13	0.03	0.00	0.01	22.04
rs55976703	CD24 on memory B	ebi-a-GCST90001771	19	35785378	T	C	3653	-0.16	0.04	0.00	0.01	19.67
rs141846315	CD24 on unsw mem	ebi-a-GCST90001772	1	173414084	T	C	3655	-1.91	0.41	0.00	0.01	21.18
rs2902453	CD24 on unsw mem	ebi-a-GCST90001772	2	113923281	G	A	3655	1.38	0.31	0.00	0.01	19.78
rs112878393	CD24 on unsw mem	ebi-a-GCST90001772	3	125610212	A	G	3655	0.21	0.05	0.00	0.01	20.17
rs4862454	CD24 on unsw mem	ebi-a-GCST90001772	4	185816062	A	G	3655	-0.14	0.03	0.00	0.01	26.87
rs77062870	CD24 on unsw mem	ebi-a-GCST90001772	5	168607069	T	C	3655	0.82	0.18	0.00	0.01	21.54
rs74726196	CD24 on unsw mem	ebi-a-GCST90001772	5	122019220	A	G	3655	-2.86	0.59	0.00	0.01	23.64
rs7705021	CD24 on unsw mem	ebi-a-GCST90001772	5	79153359	G	A	3655	0.19	0.04	0.00	0.01	21.04
rs783418	CD24 on unsw mem	ebi-a-GCST90001772	6	106962679	C	G	3655	-0.17	0.03	0.00	0.01	27.49
rs9480626	CD24 on unsw mem	ebi-a-GCST90001772	6	106415916	C	A	3655	-0.12	0.03	0.00	0.01	22.76
rs9400058	CD24 on unsw mem	ebi-a-GCST90001772	6	107164076	G	A	3655	-0.67	0.05	0.00	0.05	184.87
rs28752534	CD24 on unsw mem	ebi-a-GCST90001772	6	32585068	C	T	3655	0.14	0.03	0.00	0.01	21.64
rs2236073	CD24 on unsw mem	ebi-a-GCST90001772	6	106898421	A	G	3655	0.16	0.02	0.00	0.01	42.16
rs117513979	CD24 on unsw mem	ebi-a-GCST90001772	7	103968091	C	T	3655	-2.42	0.54	0.00	0.01	20.08
rs34872621	CD24 on unsw mem	ebi-a-GCST90001772	8	120710403	C	T	3655	0.14	0.03	0.00	0.01	19.54

rs7835717	CD24 on unsw mem	ebi-a-GCST90001772	8	134992585	T	C	3655	-0.50	0.11	0.00	0.01	20.42
rs77899115	CD24 on unsw mem	ebi-a-GCST90001772	13	83968655	C	T	3655	-0.30	0.07	0.00	0.01	21.37
rs61969021	CD24 on unsw mem	ebi-a-GCST90001772	13	80019033	C	T	3655	0.12	0.03	0.00	0.01	19.90
rs77636548	CD24 on unsw mem	ebi-a-GCST90001772	14	43192207	C	T	3655	-0.31	0.07	0.00	0.01	21.12
rs7153153	CD24 on unsw mem	ebi-a-GCST90001772	14	89049488	A	T	3655	0.16	0.03	0.00	0.01	23.76
rs12930821	CD24 on unsw mem	ebi-a-GCST90001772	16	58054671	C	G	3655	-0.14	0.03	0.00	0.01	21.85
rs9916833	CD24 on unsw mem	ebi-a-GCST90001772	17	64969001	T	C	3655	0.18	0.04	0.00	0.01	24.99
rs11661274	CD24 on unsw mem	ebi-a-GCST90001772	18	53832059	C	T	3655	0.16	0.04	0.00	0.01	20.26
rs117772689	CD24 on unsw mem	ebi-a-GCST90001772	20	40633066	G	T	3655	-0.38	0.08	0.00	0.01	21.07
rs74273424	CD24 on unsw mem	ebi-a-GCST90001772	20	46848498	G	A	3655	-0.32	0.07	0.00	0.01	21.37
rs6068718	CD24 on unsw mem	ebi-a-GCST90001772	20	52528229	C	T	3655	-0.14	0.03	0.00	0.01	23.39
rs181819396	CD24 on sw mem	ebi-a-GCST90001773	1	191984411	G	C	3652	1.20	0.27	0.00	0.01	19.84
rs61820496	CD24 on sw mem	ebi-a-GCST90001773	1	158541235	A	G	3652	-0.22	0.05	0.00	0.01	23.10
rs116584882	CD24 on sw mem	ebi-a-GCST90001773	1	232401896	G	A	3652	-1.15	0.26	0.00	0.01	20.28
rs71419048	CD24 on sw mem	ebi-a-GCST90001773	2	156299791	A	T	3652	0.33	0.07	0.00	0.01	20.17
rs4629120	CD24 on sw mem	ebi-a-GCST90001773	2	30045059	T	C	3652	0.11	0.03	0.00	0.01	19.74
rs17035466	CD24 on sw mem	ebi-a-GCST90001773	3	1249656	T	C	3652	0.12	0.03	0.00	0.01	21.36
rs9838297	CD24 on sw mem	ebi-a-GCST90001773	3	150777263	C	T	3652	0.51	0.11	0.00	0.01	20.34
rs6799202	CD24 on sw mem	ebi-a-GCST90001773	3	131412454	T	G	3652	-0.23	0.05	0.00	0.01	21.88
rs12642193	CD24 on sw mem	ebi-a-GCST90001773	4	25916457	G	A	3652	-0.16	0.03	0.00	0.01	20.92
rs2872004	CD24 on sw mem	ebi-a-GCST90001773	4	131805665	T	C	3652	-0.16	0.03	0.00	0.01	20.17
rs149975454	CD24 on sw mem	ebi-a-GCST90001773	4	54436158	A	G	3652	0.98	0.22	0.00	0.01	20.36
rs72948545	CD24 on sw mem	ebi-a-GCST90001773	6	107168477	G	A	3652	-0.71	0.05	0.00	0.05	182.59
rs7756279	CD24 on sw mem	ebi-a-GCST90001773	6	107458285	A	C	3652	-0.12	0.03	0.00	0.01	21.40
rs28672722	CD24 on sw mem	ebi-a-GCST90001773	6	32626537	T	G	3652	0.13	0.03	0.00	0.01	20.80
rs76990892	CD24 on sw mem	ebi-a-GCST90001773	6	101131432	A	T	3652	0.61	0.13	0.00	0.01	22.75
rs2236073	CD24 on sw mem	ebi-a-GCST90001773	6	106898421	A	G	3652	0.17	0.03	0.00	0.01	45.82
rs783418	CD24 on sw mem	ebi-a-GCST90001773	6	106962679	C	G	3652	-0.18	0.03	0.00	0.01	29.02
rs73602758	CD24 on sw mem	ebi-a-GCST90001773	6	149812163	G	C	3652	0.89	0.19	0.00	0.01	22.25
rs57225931	CD24 on sw mem	ebi-a-GCST90001773	7	152228997	T	C	3652	-0.14	0.03	0.00	0.01	19.62
rs183671978	CD24 on sw mem	ebi-a-GCST90001773	7	124374557	A	G	3652	2.05	0.46	0.00	0.01	20.12
rs111701276	CD24 on sw mem	ebi-a-GCST90001773	9	28274639	G	A	3652	0.89	0.18	0.00	0.01	25.24
rs117896078	CD24 on sw mem	ebi-a-GCST90001773	9	130751060	T	A	3652	-0.35	0.07	0.00	0.01	21.23
rs147397792	CD24 on sw mem	ebi-a-GCST90001773	10	18427081	G	T	3652	0.21	0.04	0.00	0.01	21.85
rs141357554	CD24 on sw mem	ebi-a-GCST90001773	10	74099495	A	G	3652	-0.60	0.13	0.00	0.01	21.14
rs4427557	CD24 on sw mem	ebi-a-GCST90001773	11	40861756	T	C	3652	0.94	0.20	0.00	0.01	21.12
rs10750479	CD24 on sw mem	ebi-a-GCST90001773	11	131277609	C	G	3652	-0.15	0.03	0.00	0.01	22.99

rs147031010	CD24 on sw mem	ebi-a-GCST90001773	12	100147551	A	G	3652	-1.48	0.34	0.00	0.01	19.59
rs6561591	CD24 on sw mem	ebi-a-GCST90001773	13	51367125	C	T	3652	-0.12	0.03	0.00	0.01	21.73
rs73251366	CD24 on sw mem	ebi-a-GCST90001773	13	83905396	G	A	3652	-0.21	0.05	0.00	0.01	19.89
rs9574429	CD24 on sw mem	ebi-a-GCST90001773	13	80035438	G	A	3652	0.11	0.03	0.00	0.01	20.28
rs77636548	CD24 on sw mem	ebi-a-GCST90001773	14	43192207	C	T	3652	-0.32	0.07	0.00	0.01	22.15
rs2895071	CD24 on sw mem	ebi-a-GCST90001773	15	96894306	C	T	3652	0.93	0.18	0.00	0.01	25.59
rs8046913	CD24 on sw mem	ebi-a-GCST90001773	16	58039513	A	T	3652	-0.14	0.03	0.00	0.01	24.47
rs11568076	CD24 on sw mem	ebi-a-GCST90001773	17	4544520	G	A	3652	1.10	0.23	0.00	0.01	22.06
rs7214354	CD24 on sw mem	ebi-a-GCST90001773	17	51813250	G	A	3652	0.22	0.05	0.00	0.01	19.74
rs11660990	CD24 on sw mem	ebi-a-GCST90001773	18	50763049	C	T	3652	-0.12	0.03	0.00	0.01	19.66
rs4808045	CD24 on sw mem	ebi-a-GCST90001773	19	16423035	T	C	3652	0.13	0.03	0.00	0.01	19.76
rs6073000	CD24 on sw mem	ebi-a-GCST90001773	20	41777449	C	T	3652	0.32	0.06	0.00	0.01	24.99
rs73301642	CD24 on sw mem	ebi-a-GCST90001773	20	59456250	C	T	3652	0.80	0.18	0.00	0.01	19.74
rs35378339	CD24 on transitional	ebi-a-GCST90001774	1	32639057	C	G	3656	0.13	0.03	0.00	0.01	22.72
rs140315354	CD24 on transitional	ebi-a-GCST90001774	1	161617673	A	G	3656	0.17	0.04	0.00	0.01	22.37
rs76224749	CD24 on transitional	ebi-a-GCST90001774	1	238632927	T	C	3656	-0.26	0.06	0.00	0.01	19.98
rs115246881	CD24 on transitional	ebi-a-GCST90001774	2	155206362	A	C	3656	0.27	0.06	0.00	0.01	19.57
rs116100555	CD24 on transitional	ebi-a-GCST90001774	2	7324854	A	G	3656	0.15	0.03	0.00	0.01	20.13
rs17778282	CD24 on transitional	ebi-a-GCST90001774	4	2947538	T	G	3656	0.58	0.12	0.00	0.01	23.74
rs73018738	CD24 on transitional	ebi-a-GCST90001774	4	189769692	C	T	3656	-0.20	0.04	0.00	0.01	19.91
rs10491456	CD24 on transitional	ebi-a-GCST90001774	5	79152076	A	G	3656	0.19	0.04	0.00	0.01	21.54
rs12206866	CD24 on transitional	ebi-a-GCST90001774	6	107159822	T	C	3656	-0.45	0.05	0.00	0.02	69.04
rs9390863	CD24 on transitional	ebi-a-GCST90001774	6	96559132	A	C	3656	0.22	0.05	0.00	0.01	20.71
rs783418	CD24 on transitional	ebi-a-GCST90001774	6	106962679	C	G	3656	-0.16	0.03	0.00	0.01	22.61
rs55846017	CD24 on transitional	ebi-a-GCST90001774	6	106902438	A	G	3656	-0.19	0.04	0.00	0.01	25.27
rs10245878	CD24 on transitional	ebi-a-GCST90001774	7	78032692	G	A	3656	-0.14	0.03	0.00	0.01	20.21
rs17709988	CD24 on transitional	ebi-a-GCST90001774	9	14420767	C	G	3656	0.17	0.04	0.00	0.01	21.78
rs117417471	CD24 on transitional	ebi-a-GCST90001774	10	56973794	G	A	3656	-0.27	0.06	0.00	0.01	20.64
rs74749898	CD24 on transitional	ebi-a-GCST90001774	11	128808891	A	G	3656	-1.07	0.24	0.00	0.01	19.65
rs192325628	CD24 on transitional	ebi-a-GCST90001774	11	121622513	T	C	3656	0.45	0.10	0.00	0.01	20.91
rs16944983	CD24 on transitional	ebi-a-GCST90001774	15	62700919	G	T	3656	-0.65	0.14	0.00	0.01	21.31
rs148635335	CD24 on transitional	ebi-a-GCST90001774	18	21787537	G	A	3656	-1.60	0.35	0.00	0.01	20.57
rs117772689	CD24 on transitional	ebi-a-GCST90001774	20	40633066	G	T	3656	-0.38	0.08	0.00	0.01	21.52
rs9425892	CD25 on B cell	ebi-a-GCST90001775	1	34421513	C	T	3660	-0.27	0.06	0.00	0.01	21.18
rs72944931	CD25 on B cell	ebi-a-GCST90001775	2	178116262	G	A	3660	0.50	0.11	0.00	0.01	22.96
rs2139146	CD25 on B cell	ebi-a-GCST90001775	2	15014620	T	C	3660	-0.22	0.05	0.00	0.01	22.34
rs62175769	CD25 on B cell	ebi-a-GCST90001775	2	173865326	C	T	3660	-0.56	0.12	0.00	0.01	20.74

rs62157931	CD25 on B cell	ebi-a-GCST90001775	2	67743098	T	C	3660	-1.08	0.24	0.00	0.01	19.95
rs1529188	CD25 on B cell	ebi-a-GCST90001775	3	109505175	G	C	3660	0.16	0.04	0.00	0.01	19.58
rs112043339	CD25 on B cell	ebi-a-GCST90001775	3	174935606	T	C	3660	-0.50	0.11	0.00	0.01	19.86
rs116525939	CD25 on B cell	ebi-a-GCST90001775	5	97611924	C	T	3660	0.93	0.21	0.00	0.01	20.09
rs2119002	CD25 on B cell	ebi-a-GCST90001775	5	124530767	C	T	3660	0.17	0.04	0.00	0.01	19.92
rs4869953	CD25 on B cell	ebi-a-GCST90001775	6	151209997	G	A	3660	-0.13	0.03	0.00	0.01	25.54
rs72997862	CD25 on B cell	ebi-a-GCST90001775	6	144585977	C	A	3660	-0.38	0.08	0.00	0.01	19.98
rs149662107	CD25 on B cell	ebi-a-GCST90001775	7	47871972	A	G	3660	-0.80	0.16	0.00	0.01	25.55
rs3793662	CD25 on B cell	ebi-a-GCST90001775	9	95886051	T	C	3660	-0.17	0.03	0.00	0.01	31.42
rs7869376	CD25 on B cell	ebi-a-GCST90001775	9	72118434	C	T	3660	-0.13	0.03	0.00	0.01	19.88
rs147487472	CD25 on B cell	ebi-a-GCST90001775	10	6191376	A	C	3660	0.42	0.06	0.00	0.01	47.58
rs41294937	CD25 on B cell	ebi-a-GCST90001775	10	6106621	C	T	3660	0.48	0.04	0.00	0.04	143.61
rs11051398	CD25 on B cell	ebi-a-GCST90001775	12	31504316	T	C	3660	-0.12	0.03	0.00	0.01	21.94
rs11615354	CD25 on B cell	ebi-a-GCST90001775	12	2130438	T	C	3660	0.18	0.04	0.00	0.01	20.32
rs2248769	CD25 on B cell	ebi-a-GCST90001775	13	54938910	C	A	3660	0.18	0.04	0.00	0.01	21.27
rs112782756	CD25 on B cell	ebi-a-GCST90001775	13	34506073	G	A	3660	3.48	0.68	0.00	0.01	26.37
rs11617559	CD25 on B cell	ebi-a-GCST90001775	13	24752225	C	T	3660	0.11	0.02	0.00	0.01	20.98
rs557577736	CD25 on B cell	ebi-a-GCST90001775	13	46224092	G	A	3660	1.93	0.39	0.00	0.01	24.43
rs8028696	CD25 on B cell	ebi-a-GCST90001775	15	33466839	T	C	3660	0.12	0.03	0.00	0.01	20.34
rs117156856	CD25 on B cell	ebi-a-GCST90001775	16	46798678	A	C	3660	1.20	0.27	0.00	0.01	19.99
rs139491278	CD25 on B cell	ebi-a-GCST90001775	17	34986043	T	C	3660	-0.46	0.10	0.00	0.01	21.42
rs17002085	CD25 on B cell	ebi-a-GCST90001775	21	27750139	A	C	3660	0.90	0.20	0.00	0.01	19.69
rs1731253	CD25 on CD20- CD38-	ebi-a-GCST90001776	2	26876429	G	A	3505	-0.11	0.03	0.00	0.01	20.03
rs12492348	CD25 on CD20- CD38-	ebi-a-GCST90001776	3	187826332	C	G	3505	0.16	0.03	0.00	0.01	20.87
rs2470644	CD25 on CD20- CD38-	ebi-a-GCST90001776	3	5776857	C	T	3505	0.33	0.07	0.00	0.01	21.93
rs13435269	CD25 on CD20- CD38-	ebi-a-GCST90001776	4	95543425	A	G	3505	0.14	0.03	0.00	0.01	26.08
rs6838669	CD25 on CD20- CD38-	ebi-a-GCST90001776	4	182081065	C	T	3505	-0.14	0.03	0.00	0.01	27.91
rs4446675	CD25 on CD20- CD38-	ebi-a-GCST90001776	7	103397333	G	C	3505	-0.34	0.07	0.00	0.01	21.25
rs141602962	CD25 on CD20- CD38-	ebi-a-GCST90001776	9	7815826	G	A	3505	-1.11	0.23	0.00	0.01	23.42
rs140714148	CD25 on CD20- CD38-	ebi-a-GCST90001776	12	2859329	T	C	3505	-0.28	0.06	0.00	0.01	21.10
rs75543866	CD25 on CD20- CD38-	ebi-a-GCST90001776	12	64338105	T	C	3505	0.16	0.04	0.00	0.01	19.82
rs35926650	CD25 on CD20- CD38-	ebi-a-GCST90001776	12	32550835	G	A	3505	0.14	0.03	0.00	0.01	21.38
rs1628296	CD25 on CD20- CD38-	ebi-a-GCST90001776	12	123309183	T	C	3505	-0.34	0.07	0.00	0.01	20.95
rs188435636	CD25 on CD20- CD38-	ebi-a-GCST90001776	12	78750126	T	C	3505	-0.63	0.14	0.00	0.01	19.77
rs9595021	CD25 on CD20- CD38-	ebi-a-GCST90001776	13	44387580	C	G	3505	0.12	0.03	0.00	0.01	22.65
rs66495237	CD25 on CD20- CD38-	ebi-a-GCST90001776	14	74734614	T	C	3505	-0.11	0.02	0.00	0.01	21.41
rs138027128	CD25 on CD20- CD38-	ebi-a-GCST90001776	16	7282705	T	G	3505	1.35	0.29	0.00	0.01	21.71

rs553329467	CD25 on CD20- CD38-	ebi-a-GCST90001776	16	15087287	G	A	3505	0.34	0.08	0.00	0.01	19.88
rs62066495	CD25 on CD20- CD38-	ebi-a-GCST90001776	17	16893180	A	G	3505	0.12	0.03	0.00	0.01	19.81
rs58969602	CD25 on CD20- CD38-	ebi-a-GCST90001776	20	47890347	C	G	3505	-0.33	0.07	0.00	0.01	21.42
rs146320332	CD25 on CD20- CD38-	ebi-a-GCST90001776	20	10238099	T	C	3505	0.51	0.12	0.00	0.01	19.77
rs144856909	CD25 on CD20- CD38-	ebi-a-GCST90001776	22	29988779	A	G	3505	0.28	0.06	0.00	0.01	24.14
rs12139506	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	1	61376720	G	A	3657	-0.26	0.05	0.00	0.01	24.27
rs1660369	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	1	214407674	T	C	3657	0.30	0.06	0.00	0.01	27.59
rs191775575	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	2	119062858	T	C	3657	0.77	0.16	0.00	0.01	21.85
rs62135678	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	2	33169113	C	G	3657	0.17	0.04	0.00	0.01	20.72
rs2139146	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	2	15014620	T	C	3657	-0.21	0.04	0.00	0.01	22.09
rs78990890	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	4	161318933	C	T	3657	4.10	0.91	0.00	0.01	20.23
rs7708967	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	5	8139657	A	G	3657	-0.11	0.02	0.00	0.01	20.94
rs12192925	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	6	37488754	T	C	3657	0.12	0.03	0.00	0.01	23.86
rs2999572	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	7	25590299	G	T	3657	0.13	0.03	0.00	0.01	22.36
rs140833732	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	8	36436637	T	A	3657	-1.02	0.23	0.00	0.01	19.96
rs77303104	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	9	108634724	G	A	3657	1.51	0.33	0.00	0.01	20.28
rs3793662	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	9	95886051	T	C	3657	-0.16	0.03	0.00	0.01	30.40
rs11245200	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	10	126182752	T	C	3657	0.16	0.04	0.00	0.01	20.62
rs2853765	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	10	7830675	C	G	3657	0.21	0.05	0.00	0.01	20.88
rs11598494	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	10	6178941	C	T	3657	-0.18	0.02	0.00	0.01	51.91
rs4747882	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	10	6162476	T	A	3657	-0.23	0.03	0.00	0.02	70.88
rs1887027	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	10	6113782	T	C	3657	-0.42	0.03	0.00	0.06	241.54
rs59278703	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	11	35069685	A	C	3657	0.20	0.04	0.00	0.01	21.47
rs12886102	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	14	100108322	T	G	3657	-0.13	0.03	0.00	0.01	20.18
rs183975337	CD24+ CD27+ CD25 on	ebi-a-GCST90001777	14	89659141	T	A	3657	-0.54	0.11	0.00	0.01	21.98
rs12907742	CD24+ CD27+	ebi-a-GCST90001777	15	101525737	C	T	3657	-0.21	0.04	0.00	0.01	22.31

rs10852336	CD25 on CD24+	ebi-a-GCST90001777	16	11665465	T	G	3657	0.12	0.03	0.00	0.01	20.79
rs111912558	CD27+ CD25 on CD24+	ebi-a-GCST90001777	17	44356694	C	T	3657	0.16	0.03	0.00	0.01	21.01
rs28365327	CD27+ CD25 on CD24+	ebi-a-GCST90001777	18	25753552	A	G	3657	-0.14	0.03	0.00	0.01	23.11
rs536374	CD27+ CD25 on CD24+	ebi-a-GCST90001777	18	34917959	C	T	3657	0.20	0.04	0.00	0.01	22.18
rs3862036	CD27+ CD25 on CD24+	ebi-a-GCST90001777	21	44262209	A	G	3657	-0.29	0.06	0.00	0.01	23.90
rs144182927	CD27+ CD25 on CD24+	ebi-a-GCST90001777	21	23113704	T	G	3657	-0.38	0.09	0.00	0.01	19.59
rs200381543	CD27+ CD25 on CD24+	ebi-a-GCST90001777	22	22547864	T	C	3657	0.65	0.15	0.00	0.01	19.99
rs12739411	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	1	68752573	C	G	3657	0.42	0.09	0.00	0.01	20.75
rs12139506	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	1	61376720	G	A	3657	-0.25	0.05	0.00	0.01	21.24
rs72944931	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	2	178116262	G	A	3657	0.46	0.10	0.00	0.01	20.01
rs72840831	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	2	119131895	G	A	3657	0.56	0.12	0.00	0.01	20.18
rs11712686	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	3	132485194	A	G	3657	0.55	0.12	0.00	0.01	20.42
rs62282025	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	3	109521072	A	G	3657	0.14	0.03	0.00	0.01	20.94
rs6789981	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	3	173712563	G	A	3657	-0.20	0.04	0.00	0.01	20.77
rs149905818	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	4	106231334	C	T	3657	3.15	0.71	0.00	0.01	19.66
rs10903228	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	5	178077656	G	A	3657	0.21	0.05	0.00	0.01	20.40
rs181153632	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	7	30546081	G	A	3657	-0.47	0.10	0.00	0.01	22.62
rs2999572	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	7	25590299	G	T	3657	0.12	0.03	0.00	0.01	19.81
rs145755586	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	7	151448932	T	C	3657	0.86	0.19	0.00	0.01	19.74
rs75711329	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	8	75494833	A	G	3657	-0.27	0.06	0.00	0.01	20.06
rs3793662	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	9	95886051	T	C	3657	-0.16	0.03	0.00	0.01	28.67
rs2853765	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	10	7830675	C	G	3657	0.22	0.05	0.00	0.01	22.91
rs11245200	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	10	126182752	T	C	3657	0.16	0.04	0.00	0.01	19.73
rs4747882	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	10	6162476	T	A	3657	-0.19	0.03	0.00	0.01	50.04
rs1887027	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	10	6113782	T	C	3657	-0.40	0.03	0.00	0.05	205.96
rs11598494	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	10	6178941	C	T	3657	-0.15	0.02	0.00	0.01	38.20
rs59278703	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	11	35069685	A	C	3657	0.21	0.04	0.00	0.01	22.64
rs4764609	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	12	5968848	G	A	3657	0.13	0.03	0.00	0.01	21.82
rs12428279	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	13	74434331	T	C	3657	-0.60	0.13	0.00	0.01	19.89
rs62013832	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	15	86804118	T	A	3657	0.11	0.03	0.00	0.01	19.86
rs8079462	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	17	47002447	A	C	3657	-0.60	0.12	0.00	0.01	24.57
rs28365327	IgD+ CD24+ CD25 on	ebi-a-GCST90001778	18	25753552	A	G	3657	-0.14	0.03	0.00	0.01	24.27
rs536374	IgD+ CD24+	ebi-a-GCST90001778	18	34917959	C	T	3657	0.20	0.04	0.00	0.01	21.96

rs75727877	CD25 on IgD+ CD24+	ebi-a-GCST90001778	20	50852063	A	C	3657	-1.06	0.21	0.00	0.01	24.66
rs9425892	CD25 on IgD+ CD24-	ebi-a-GCST90001779	1	34421513	C	T	3657	-0.28	0.06	0.00	0.01	22.98
rs10495086	CD25 on IgD+ CD24-	ebi-a-GCST90001779	1	218109675	T	C	3657	-0.30	0.07	0.00	0.01	19.86
rs111741355	CD25 on IgD+ CD24-	ebi-a-GCST90001779	1	48095312	A	G	3657	-2.62	0.57	0.00	0.01	20.97
rs338614	CD25 on IgD+ CD24-	ebi-a-GCST90001779	3	28137648	A	T	3657	0.54	0.12	0.00	0.01	19.74
rs12638268	CD25 on IgD+ CD24-	ebi-a-GCST90001779	3	11933438	C	T	3657	0.12	0.03	0.00	0.01	21.49
rs112043339	CD25 on IgD+ CD24-	ebi-a-GCST90001779	3	174935606	T	C	3657	-0.54	0.11	0.00	0.01	23.40
rs17460904	CD25 on IgD+ CD24-	ebi-a-GCST90001779	4	36354057	A	G	3657	-1.12	0.25	0.00	0.01	20.51
rs35704968	CD25 on IgD+ CD24-	ebi-a-GCST90001779	4	8011229	C	T	3657	-0.36	0.08	0.00	0.01	20.71
rs34518596	CD25 on IgD+ CD24-	ebi-a-GCST90001779	5	86111282	T	C	3657	2.64	0.55	0.00	0.01	23.09
rs4869953	CD25 on IgD+ CD24-	ebi-a-GCST90001779	6	151209997	G	A	3657	-0.12	0.03	0.00	0.01	22.05
rs1688627	CD25 on IgD+ CD24-	ebi-a-GCST90001779	6	119162482	C	A	3657	-0.27	0.06	0.00	0.01	20.81
rs149662107	CD25 on IgD+ CD24-	ebi-a-GCST90001779	7	47871972	A	G	3657	-0.85	0.16	0.00	0.01	28.56
rs3793662	CD25 on IgD+ CD24-	ebi-a-GCST90001779	9	95886051	T	C	3657	-0.19	0.03	0.00	0.01	41.82
rs17403348	CD25 on IgD+ CD24-	ebi-a-GCST90001779	10	5827901	C	T	3657	0.23	0.04	0.00	0.01	31.34
rs7906697	CD25 on IgD+ CD24-	ebi-a-GCST90001779	10	125554970	C	G	3657	0.19	0.04	0.00	0.01	22.25
rs147487472	CD25 on IgD+ CD24-	ebi-a-GCST90001779	10	6191376	A	C	3657	0.43	0.06	0.00	0.01	48.42
rs142537458	CD25 on IgD+ CD24-	ebi-a-GCST90001779	10	5982082	C	A	3657	0.40	0.09	0.00	0.01	21.11
rs62626323	CD25 on IgD+ CD24-	ebi-a-GCST90001779	10	6115678	A	C	3657	0.58	0.04	0.00	0.06	216.14
rs59278703	CD25 on IgD+ CD24-	ebi-a-GCST90001779	11	35069685	A	C	3657	0.20	0.04	0.00	0.01	20.87
rs11051398	CD25 on IgD+ CD24-	ebi-a-GCST90001779	12	31504316	T	C	3657	-0.13	0.03	0.00	0.01	26.89
rs112328981	CD25 on IgD+ CD24-	ebi-a-GCST90001779	13	34477079	T	C	3657	3.55	0.68	0.00	0.01	27.15
rs709589	CD25 on IgD+ CD24-	ebi-a-GCST90001779	14	106306841	T	C	3657	-0.18	0.03	0.00	0.01	33.99
rs118088397	CD25 on IgD+ CD24-	ebi-a-GCST90001779	16	11709659	T	C	3657	0.38	0.08	0.00	0.01	24.23
rs148048180	CD25 on IgD+ CD24-	ebi-a-GCST90001779	19	9181620	A	G	3657	-0.32	0.07	0.00	0.01	20.26
rs62206862	CD25 on IgD+ CD24-	ebi-a-GCST90001779	20	61967801	G	C	3657	-1.16	0.24	0.00	0.01	22.61
rs13051777	CD25 on IgD+ CD24-	ebi-a-GCST90001779	21	20241615	A	G	3657	-0.25	0.06	0.00	0.01	20.00
rs12139506	CD25 on IgD+ CD38-	ebi-a-GCST90001780	1	61376720	G	A	3642	-0.24	0.05	0.00	0.01	19.61
rs185124612	CD25 on IgD+ CD38-	ebi-a-GCST90001780	2	107128298	T	C	3642	0.47	0.11	0.00	0.01	19.90
rs74643586	CD25 on IgD+ CD38-	ebi-a-GCST90001780	2	80478582	A	G	3642	1.54	0.33	0.00	0.01	21.04
rs2139146	CD25 on IgD+ CD38-	ebi-a-GCST90001780	2	15014620	T	C	3642	-0.21	0.05	0.00	0.01	21.15
rs80196851	CD25 on IgD+ CD38-	ebi-a-GCST90001780	2	173789113	A	G	3642	-0.81	0.18	0.00	0.01	20.55
rs77154655	CD25 on IgD+ CD38-	ebi-a-GCST90001780	3	16255245	C	T	3642	-0.29	0.05	0.00	0.01	28.33
rs115861292	CD25 on IgD+ CD38-	ebi-a-GCST90001780	3	126541810	G	A	3642	0.41	0.09	0.00	0.01	21.65
rs146092993	CD25 on IgD+ CD38-	ebi-a-GCST90001780	3	28261321	G	A	3642	-0.58	0.13	0.00	0.01	21.05
rs138409352	CD25 on IgD+ CD38-	ebi-a-GCST90001780	3	10050183	T	A	3642	-0.58	0.13	0.00	0.01	20.85
rs3103947	CD25 on IgD+ CD38-	ebi-a-GCST90001780	3	195552071	A	C	3642	-0.11	0.03	0.00	0.01	19.74

rs74882681	CD25 on IgD+ CD38-	ebi-a-GCST90001780	4	80724150	T	A	3642	-1.62	0.36	0.00	0.01	20.65
rs149905818	CD25 on IgD+ CD38-	ebi-a-GCST90001780	4	106231334	C	T	3642	3.18	0.71	0.00	0.01	19.94
rs12655234	CD25 on IgD+ CD38-	ebi-a-GCST90001780	5	150592481	A	G	3642	0.18	0.04	0.00	0.01	20.52
rs13161074	CD25 on IgD+ CD38-	ebi-a-GCST90001780	5	178057466	A	G	3642	0.15	0.03	0.00	0.01	19.63
rs262753	CD25 on IgD+ CD38-	ebi-a-GCST90001780	5	165060876	G	A	3642	-0.13	0.03	0.00	0.01	22.89
rs73433764	CD25 on IgD+ CD38-	ebi-a-GCST90001780	7	122201968	C	T	3642	-0.82	0.17	0.00	0.01	22.36
rs149662107	CD25 on IgD+ CD38-	ebi-a-GCST90001780	7	47871972	A	G	3642	-0.80	0.16	0.00	0.01	26.01
rs11516157	CD25 on IgD+ CD38-	ebi-a-GCST90001780	9	136406758	G	C	3642	-0.13	0.03	0.00	0.01	20.22
rs3793662	CD25 on IgD+ CD38-	ebi-a-GCST90001780	9	95886051	T	C	3642	-0.17	0.03	0.00	0.01	35.78
rs4747846	CD25 on IgD+ CD38-	ebi-a-GCST90001780	10	6074451	C	G	3642	0.15	0.03	0.00	0.01	36.80
rs41295093	CD25 on IgD+ CD38-	ebi-a-GCST90001780	10	6120173	A	G	3642	0.42	0.04	0.00	0.03	111.39
rs11597205	CD25 on IgD+ CD38-	ebi-a-GCST90001780	10	132601293	T	G	3642	0.29	0.06	0.00	0.01	20.11
rs59745557	CD25 on IgD+ CD38-	ebi-a-GCST90001780	11	35069686	G	A	3642	0.22	0.04	0.00	0.01	25.23
rs7926898	CD25 on IgD+ CD38-	ebi-a-GCST90001780	11	133650237	G	C	3642	-0.13	0.03	0.00	0.01	22.09
rs1718125	CD25 on IgD+ CD38-	ebi-a-GCST90001780	12	121593019	T	C	3642	0.28	0.06	0.00	0.01	20.78
rs117310389	CD25 on IgD+ CD38-	ebi-a-GCST90001780	13	58019264	T	G	3642	-3.45	0.76	0.00	0.01	20.71
rs140678325	CD25 on IgD+ CD38-	ebi-a-GCST90001780	13	42323712	T	C	3642	0.62	0.13	0.00	0.01	22.17
rs2665962	CD25 on IgD+ CD38-	ebi-a-GCST90001780	17	74022213	T	C	3642	0.13	0.02	0.00	0.01	26.07
rs75727877	CD25 on IgD+ CD38-	ebi-a-GCST90001780	20	50852063	A	C	3642	-0.95	0.21	0.00	0.01	19.69
rs696306	CD25 on IgD+ CD38-	ebi-a-GCST90001781	1	7854998	T	G	1835	0.18	0.04	0.00	0.01	22.72
rs10920477	CD25 on IgD+ CD38-	ebi-a-GCST90001781	1	190053879	G	A	1835	0.16	0.03	0.00	0.01	19.87
rs113066333	CD25 on IgD+ CD38-	ebi-a-GCST90001781	2	28889318	A	G	1835	-0.34	0.07	0.00	0.01	21.37
rs72948393	CD25 on IgD+ CD38-	ebi-a-GCST90001781	2	215843408	C	T	1835	-0.70	0.14	0.00	0.01	25.54
rs114964656	CD25 on IgD+ CD38-	ebi-a-GCST90001781	2	182116922	T	C	1835	1.61	0.35	0.00	0.01	21.39
rs2139146	CD25 on IgD+ CD38-	ebi-a-GCST90001781	2	15014620	T	C	1835	-0.28	0.06	0.00	0.01	20.35
rs76504408	CD25 on IgD+ CD38-	ebi-a-GCST90001781	2	11202300	A	G	1835	-0.33	0.07	0.00	0.01	19.82
rs76032804	CD25 on IgD+ CD38-	ebi-a-GCST90001781	3	173656076	G	A	1835	-0.40	0.08	0.00	0.01	24.64
rs2616542	CD25 on IgD+ CD38-	ebi-a-GCST90001781	3	11688393	T	G	1835	0.31	0.06	0.00	0.01	25.48
rs111926422	CD25 on IgD+ CD38-	ebi-a-GCST90001781	3	157871039	C	A	1835	0.35	0.08	0.00	0.01	20.71
rs9293516	CD25 on IgD+ CD38-	ebi-a-GCST90001781	5	88747297	T	C	1835	-0.25	0.05	0.00	0.01	20.16
rs12655234	CD25 on IgD+ CD38-	ebi-a-GCST90001781	5	150592481	A	G	1835	0.25	0.06	0.00	0.01	20.30
rs147734841	CD25 on IgD+ CD38-	ebi-a-GCST90001781	5	112536717	G	A	1835	0.29	0.07	0.00	0.01	19.74
rs4593388	CD25 on IgD+ CD38-	ebi-a-GCST90001781	6	159340868	G	A	1835	-0.21	0.04	0.00	0.01	24.21
rs578114150	CD25 on IgD+ CD38-	ebi-a-GCST90001781	7	65244440	A	G	1835	-1.04	0.23	0.00	0.01	20.37
rs142906903	CD25 on IgD+ CD38-	ebi-a-GCST90001781	8	82141410	C	G	1835	0.75	0.16	0.00	0.01	22.44
rs139976226	CD25 on IgD+ CD38-	ebi-a-GCST90001781	8	78082998	G	T	1835	1.02	0.22	0.00	0.01	20.86
rs35504411	CD25 on IgD+ CD38-	ebi-a-GCST90001781	8	6766251	G	C	1835	0.16	0.04	0.00	0.01	19.75

rs2275848	CD25 on IgD+ CD38-	ebi-a-GCST90001781	9	95887320	T	G	1835	-0.22	0.04	0.00	0.02	30.01
rs41294937	CD25 on IgD+ CD38-	ebi-a-GCST90001781	10	6106621	C	T	1835	0.49	0.06	0.00	0.04	78.63
rs10843928	CD25 on IgD+ CD38-	ebi-a-GCST90001781	12	31502991	T	G	1835	-0.16	0.03	0.00	0.01	21.22
rs709589	CD25 on IgD+ CD38-	ebi-a-GCST90001781	14	106306841	T	C	1835	-0.25	0.04	0.00	0.02	31.89
rs118088397	CD25 on IgD+ CD38-	ebi-a-GCST90001781	16	11709659	T	C	1835	0.48	0.10	0.00	0.01	21.92
rs716408	CD25 on IgD+ CD38-	ebi-a-GCST90001781	17	32309424	G	A	1835	0.39	0.09	0.00	0.01	20.64
rs2267601	CD25 on IgD+ CD38-	ebi-a-GCST90001781	22	44448338	A	G	1835	0.17	0.03	0.00	0.01	24.50
rs9426902	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	1	153718746	A	G	1837	-0.15	0.03	0.00	0.01	19.69
rs143132954	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	1	61322867	C	T	1837	-0.63	0.14	0.00	0.01	21.38
rs77910234	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	1	224393629	C	A	1837	3.20	0.67	0.00	0.01	22.78
rs12122434	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	1	63261652	G	A	1837	1.13	0.25	0.00	0.01	20.15
rs11673894	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	2	118876072	T	G	1837	-0.20	0.04	0.00	0.01	21.13
rs113066333	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	2	28889318	A	G	1837	-0.33	0.07	0.00	0.01	21.35
rs17043899	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	2	115757709	T	G	1837	0.23	0.05	0.00	0.01	20.57
rs191448128	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	3	129963207	T	C	1837	-1.20	0.27	0.00	0.01	20.33
rs116270586	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	3	121050031	G	T	1837	0.67	0.14	0.00	0.01	22.14
rs114201769	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	3	48005507	C	G	1837	-0.36	0.08	0.00	0.01	20.65
rs62246874	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	3	66354137	G	A	1837	-0.28	0.06	0.00	0.01	20.29
rs58327586	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	6	364476	T	C	1837	0.99	0.21	0.00	0.01	22.74
rs117315714	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	7	46669974	T	C	1837	2.24	0.47	0.00	0.01	22.54
rs72657101	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	8	62471902	C	T	1837	0.26	0.06	0.00	0.01	21.31
rs139703496	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	10	1676361	T	C	1837	1.90	0.41	0.00	0.01	21.40
rs2853765	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	10	7830675	C	G	1837	0.30	0.06	0.00	0.01	21.84
rs12218872	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	10	6177617	C	G	1837	-0.18	0.03	0.00	0.02	29.25
rs10905716	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	10	6114010	T	C	1837	-0.45	0.04	0.00	0.07	148.51
rs73084854	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	12	39565803	T	G	1837	-0.25	0.06	0.00	0.01	20.68
rs2908671	IgD+ CD38- unsw mem	ebi-a-GCST90001782	16	5056498	G	C	1837	-0.28	0.06	0.00	0.01	20.39

rs9932192	CD25 on IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	16	14510543	C	T	1837	-0.31	0.07	0.00	0.01	20.43
rs2052087	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	17	56242749	T	C	1837	-0.19	0.04	0.00	0.01	20.07
rs113410977	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	18	42381085	T	G	1837	-0.30	0.07	0.00	0.01	20.43
rs8097813	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	18	67173624	C	T	1837	-0.18	0.03	0.00	0.02	29.77
rs148503715	IgD+ CD38- unsw mem CD25 on	ebi-a-GCST90001782	20	61958726	A	T	1837	3.86	0.81	0.00	0.01	22.42
rs2566772	IgD+ CD38br CD25 on	ebi-a-GCST90001783	1	68704099	A	G	3656	0.46	0.10	0.00	0.01	19.89
rs145198352	IgD+ CD38br CD25 on	ebi-a-GCST90001783	2	44009835	C	T	3656	-0.45	0.10	0.00	0.01	20.25
rs1828160	IgD+ CD38br CD25 on	ebi-a-GCST90001783	3	7379480	T	A	3656	-0.11	0.02	0.00	0.01	21.82
rs6550133	IgD+ CD38br CD25 on	ebi-a-GCST90001783	3	32472280	C	T	3656	-0.16	0.03	0.00	0.01	26.49
rs4721574	IgD+ CD38br CD25 on	ebi-a-GCST90001783	7	2350451	A	G	3656	0.15	0.03	0.00	0.01	29.27
rs12341626	IgD+ CD38br CD25 on	ebi-a-GCST90001783	9	17383792	C	T	3656	-0.16	0.03	0.00	0.01	21.26
rs3793662	IgD+ CD38br CD25 on	ebi-a-GCST90001783	9	95886051	T	C	3656	-0.18	0.03	0.00	0.01	39.12
rs4129608	IgD+ CD38br CD25 on	ebi-a-GCST90001783	9	18327215	G	A	3656	-0.16	0.03	0.00	0.01	22.41
rs62626323	IgD+ CD38br CD25 on	ebi-a-GCST90001783	10	6115678	A	C	3656	0.35	0.04	0.00	0.02	76.31
rs10765088	IgD+ CD38br CD25 on	ebi-a-GCST90001783	10	133336906	A	G	3656	-0.12	0.02	0.00	0.01	24.33
rs11616609	IgD+ CD38br CD25 on	ebi-a-GCST90001783	13	35106024	T	G	3656	-0.12	0.03	0.00	0.01	22.55
rs9596941	IgD+ CD38br CD25 on	ebi-a-GCST90001783	13	54874198	G	T	3656	0.21	0.04	0.00	0.01	22.17
rs709589	IgD+ CD38br CD25 on	ebi-a-GCST90001783	14	106306841	T	C	3656	-0.25	0.03	0.00	0.02	64.65
rs10047878	IgD+ CD38br CD25 on	ebi-a-GCST90001783	14	22787690	A	T	3656	-0.11	0.02	0.00	0.01	20.81
rs8044922	IgD+ CD38br CD25 on	ebi-a-GCST90001783	16	928708	T	C	3656	0.25	0.06	0.00	0.01	20.10
rs6092493	IgD+ CD38br CD25 on	ebi-a-GCST90001783	20	56109595	G	A	3656	-0.11	0.02	0.00	0.01	20.32
rs111741355	IgD+ CD25 on	ebi-a-GCST90001784	1	48095312	A	G	3657	-2.85	0.57	0.00	0.01	24.81
rs9425892	IgD+ CD25 on	ebi-a-GCST90001784	1	34421513	C	T	3657	-0.28	0.06	0.00	0.01	22.39
rs72944931	IgD+ CD25 on	ebi-a-GCST90001784	2	178116262	G	A	3657	0.47	0.11	0.00	0.01	20.15
rs112043339	IgD+ CD25 on	ebi-a-GCST90001784	3	174935606	T	C	3657	-0.50	0.11	0.00	0.01	19.64
rs35704968	IgD+ CD25 on	ebi-a-GCST90001784	4	8011229	C	T	3657	-0.35	0.08	0.00	0.01	19.67
rs116525939	IgD+ CD25 on	ebi-a-GCST90001784	5	97611924	C	T	3657	0.95	0.21	0.00	0.01	21.11
rs4869953	IgD+ CD25 on	ebi-a-GCST90001784	6	151209997	G	A	3657	-0.13	0.03	0.00	0.01	24.77
rs149662107	IgD+ CD25 on	ebi-a-GCST90001784	7	47871972	A	G	3657	-0.93	0.16	0.00	0.01	33.88
rs116970311	IgD+ CD25 on	ebi-a-GCST90001784	7	50262040	A	C	3657	-1.06	0.24	0.00	0.01	20.22
rs3793662	IgD+ CD25 on	ebi-a-GCST90001784	9	95886051	T	C	3657	-0.16	0.03	0.00	0.01	28.34
rs62626323	IgD+ CD25 on	ebi-a-GCST90001784	10	6115678	A	C	3657	0.54	0.04	0.00	0.05	182.46
rs147487472	IgD+ CD25 on	ebi-a-GCST90001784	10	6191376	A	C	3657	0.42	0.06	0.00	0.01	46.23
rs144941792	IgD+ CD25 on	ebi-a-GCST90001784	10	5777776	T	G	3657	0.21	0.04	0.00	0.01	25.50

rs59757547	CD25 on IgD+	ebi-a-GCST90001784	11	123262785	C	T	3657	-0.11	0.03	0.00	0.01	20.15
rs76687530	CD25 on IgD+	ebi-a-GCST90001784	11	123711887	T	C	3657	-0.19	0.04	0.00	0.01	22.73
rs11051398	CD25 on IgD+	ebi-a-GCST90001784	12	31504316	T	C	3657	-0.12	0.03	0.00	0.01	22.25
rs11615354	CD25 on IgD+	ebi-a-GCST90001784	12	2130438	T	C	3657	0.19	0.04	0.00	0.01	22.22
rs709589	CD25 on IgD+	ebi-a-GCST90001784	14	106306841	T	C	3657	-0.15	0.03	0.00	0.01	22.75
rs8028696	CD25 on IgD+	ebi-a-GCST90001784	15	33466839	T	C	3657	0.13	0.03	0.00	0.01	22.42
rs117156856	CD25 on IgD+	ebi-a-GCST90001784	16	46798678	A	C	3657	1.25	0.27	0.00	0.01	21.81
rs62206862	CD25 on IgD+	ebi-a-GCST90001784	20	61967801	G	C	3657	-1.16	0.24	0.00	0.01	22.46
rs34351616	CD25 on IgD+	ebi-a-GCST90001784	21	20240985	G	A	3657	-0.26	0.06	0.00	0.01	22.18
rs146720368	CD25 on IgD+	ebi-a-GCST90001784	22	32003463	T	C	3657	0.92	0.19	0.00	0.01	22.51
rs117382470	CD25 on IgD+	ebi-a-GCST90001784	22	30950549	T	C	3657	1.14	0.25	0.00	0.01	20.40
rs17327745	CD25 on IgD-CD24-	ebi-a-GCST90001785	1	95917846	G	A	3649	-0.20	0.04	0.00	0.01	22.98
rs35830739	CD25 on IgD-CD24-	ebi-a-GCST90001785	1	229725893	A	C	3649	-0.61	0.14	0.00	0.01	19.70
rs72809405	CD25 on IgD-CD24-	ebi-a-GCST90001785	2	61173382	A	G	3649	0.15	0.03	0.00	0.01	25.21
rs4073186	CD25 on IgD-CD24-	ebi-a-GCST90001785	2	30043619	A	G	3649	-0.12	0.03	0.00	0.01	21.00
rs72973530	CD25 on IgD-CD24-	ebi-a-GCST90001785	2	235335429	G	A	3649	-2.16	0.47	0.00	0.01	21.38
rs11688172	CD25 on IgD-CD24-	ebi-a-GCST90001785	2	150793155	A	G	3649	0.11	0.03	0.00	0.01	19.75
rs75007695	CD25 on IgD-CD24-	ebi-a-GCST90001785	2	241875782	A	G	3649	-0.51	0.11	0.00	0.01	23.23
rs73224863	CD25 on IgD-CD24-	ebi-a-GCST90001785	4	29267406	T	G	3649	-0.18	0.04	0.00	0.01	22.09
rs6940205	CD25 on IgD-CD24-	ebi-a-GCST90001785	6	107141246	T	C	3649	-0.13	0.03	0.00	0.01	22.15
rs12529059	CD25 on IgD-CD24-	ebi-a-GCST90001785	6	64695023	T	C	3649	0.13	0.03	0.00	0.01	21.24
rs2290263	CD25 on IgD-CD24-	ebi-a-GCST90001785	7	25887278	A	G	3649	-0.12	0.03	0.00	0.01	21.28
rs7863711	CD25 on IgD-CD24-	ebi-a-GCST90001785	9	93616303	G	A	3649	0.11	0.03	0.00	0.01	20.20
rs11245200	CD25 on IgD-CD24-	ebi-a-GCST90001785	10	126182752	T	C	3649	0.17	0.04	0.00	0.01	21.50
rs41294937	CD25 on IgD-CD24-	ebi-a-GCST90001785	10	6106621	C	T	3649	0.37	0.04	0.00	0.02	84.82
rs146277285	CD25 on IgD-CD24-	ebi-a-GCST90001785	10	107243367	T	C	3649	0.39	0.08	0.00	0.01	22.42
rs147487472	CD25 on IgD-CD24-	ebi-a-GCST90001785	10	6191376	A	C	3649	0.33	0.06	0.00	0.01	28.28
rs2732439	CD25 on IgD-CD24-	ebi-a-GCST90001785	12	48744199	A	C	3649	0.12	0.03	0.00	0.01	20.57
rs9573934	CD25 on IgD-CD24-	ebi-a-GCST90001785	13	77338074	C	T	3649	-0.14	0.03	0.00	0.01	19.89
rs1370277	CD25 on IgD-CD24-	ebi-a-GCST90001785	15	80445815	T	A	3649	0.14	0.03	0.00	0.01	22.12
rs111500944	CD25 on IgD-CD24-	ebi-a-GCST90001785	15	80676525	T	C	3649	0.27	0.06	0.00	0.01	23.19
rs11636705	CD25 on IgD-CD24-	ebi-a-GCST90001785	15	96605912	T	C	3649	0.17	0.04	0.00	0.01	20.90
rs4787827	CD25 on IgD-CD24-	ebi-a-GCST90001785	16	26306929	G	T	3649	-0.15	0.03	0.00	0.01	19.62
rs11548656	CD25 on IgD-CD24-	ebi-a-GCST90001785	16	81916912	G	A	3649	-0.24	0.04	0.00	0.01	41.30
rs9892531	CD25 on IgD-CD24-	ebi-a-GCST90001785	17	72336957	G	T	3649	-0.14	0.03	0.00	0.01	19.91
rs4099100	CD25 on IgD-CD24-	ebi-a-GCST90001785	18	24488604	G	A	3649	0.25	0.05	0.00	0.01	21.07
rs350822	CD25 on IgD-CD24-	ebi-a-GCST90001785	19	4083560	C	T	3649	-0.12	0.03	0.00	0.01	20.65

rs35830739	CD25 on IgD- CD27-	ebi-a-GCST90001786	1	229725893	A	C	3651	-0.68	0.14	0.00	0.01	25.12
rs13005268	CD25 on IgD- CD27-	ebi-a-GCST90001786	2	49699762	G	C	3651	0.11	0.02	0.00	0.01	20.51
rs72807491	CD25 on IgD- CD27-	ebi-a-GCST90001786	2	61154510	C	T	3651	0.14	0.03	0.00	0.01	19.60
rs1397934	CD25 on IgD- CD27-	ebi-a-GCST90001786	4	40187596	G	A	3651	-0.12	0.03	0.00	0.01	20.76
rs35979946	CD25 on IgD- CD27-	ebi-a-GCST90001786	4	102720551	G	A	3651	0.14	0.03	0.00	0.01	21.14
rs10806538	CD25 on IgD- CD27-	ebi-a-GCST90001786	6	67249077	G	A	3651	-0.12	0.03	0.00	0.01	21.63
rs181382386	CD25 on IgD- CD27-	ebi-a-GCST90001786	7	49690154	A	G	3651	-0.17	0.04	0.00	0.01	19.67
rs885063	CD25 on IgD- CD27-	ebi-a-GCST90001786	9	133304189	T	C	3651	0.11	0.02	0.00	0.01	20.42
rs111419261	CD25 on IgD- CD27-	ebi-a-GCST90001786	9	91520493	A	G	3651	0.37	0.08	0.00	0.01	22.34
rs11245200	CD25 on IgD- CD27-	ebi-a-GCST90001786	10	126182752	T	C	3651	0.17	0.04	0.00	0.01	21.97
rs41295093	CD25 on IgD- CD27-	ebi-a-GCST90001786	10	6120173	A	G	3651	0.32	0.04	0.00	0.02	62.47
rs4747882	CD25 on IgD- CD27-	ebi-a-GCST90001786	10	6162476	T	A	3651	-0.12	0.03	0.00	0.01	20.05
rs3886263	CD25 on IgD- CD27-	ebi-a-GCST90001786	12	130450765	G	C	3651	-0.20	0.05	0.00	0.01	20.27
rs1570675	CD25 on IgD- CD27-	ebi-a-GCST90001786	13	43406556	C	T	3651	0.13	0.02	0.00	0.01	25.84
rs117404788	CD25 on IgD- CD27-	ebi-a-GCST90001786	14	51310988	A	G	3651	0.62	0.14	0.00	0.01	19.94
rs11548656	CD25 on IgD- CD27-	ebi-a-GCST90001786	16	81916912	G	A	3651	-0.17	0.04	0.00	0.01	21.79
rs141670644	CD25 on IgD- CD27-	ebi-a-GCST90001786	17	35618525	C	T	3651	-0.80	0.18	0.00	0.01	20.10
rs116540618	CD25 on IgD- CD27-	ebi-a-GCST90001786	19	49487555	C	T	3651	-0.42	0.09	0.00	0.01	21.26
rs10401190	CD25 on IgD- CD27-	ebi-a-GCST90001786	19	17987864	T	G	3651	-0.77	0.16	0.00	0.01	21.95
rs1883832	CD25 on IgD- CD27-	ebi-a-GCST90001786	20	44746982	C	T	3651	0.23	0.03	0.00	0.02	81.22
rs6034999	CD25 on IgD- CD27-	ebi-a-GCST90001786	20	18208277	A	G	3651	-0.12	0.03	0.00	0.01	21.86
rs13049974	CD25 on IgD- CD27-	ebi-a-GCST90001786	21	32810944	C	T	3651	-0.27	0.06	0.00	0.01	20.92
rs883170	CD25 on IgD- CD38-	ebi-a-GCST90001787	2	152830901	C	T	3657	-0.55	0.12	0.00	0.01	20.25
rs11694298	CD25 on IgD- CD38-	ebi-a-GCST90001787	2	11175178	A	G	3657	0.12	0.03	0.00	0.01	21.13
rs74911560	CD25 on IgD- CD38-	ebi-a-GCST90001787	2	14883839	G	C	3657	-0.38	0.08	0.00	0.01	22.23
rs4073186	CD25 on IgD- CD38-	ebi-a-GCST90001787	2	30043619	A	G	3657	-0.12	0.03	0.00	0.01	21.33
rs115945675	CD25 on IgD- CD38-	ebi-a-GCST90001787	3	127810569	C	T	3657	0.26	0.06	0.00	0.01	19.81
rs2180045	CD25 on IgD- CD38-	ebi-a-GCST90001787	6	164317117	C	T	3657	0.11	0.02	0.00	0.01	19.92
rs78038432	CD25 on IgD- CD38-	ebi-a-GCST90001787	6	113488026	T	C	3657	1.65	0.36	0.00	0.01	21.36
rs117534066	CD25 on IgD- CD38-	ebi-a-GCST90001787	8	139664271	T	C	3657	0.45	0.10	0.00	0.01	19.78
rs12342539	CD25 on IgD- CD38-	ebi-a-GCST90001787	9	4327960	T	C	3657	-0.17	0.03	0.00	0.01	31.40
rs11245200	CD25 on IgD- CD38-	ebi-a-GCST90001787	10	126182752	T	C	3657	0.16	0.04	0.00	0.01	20.42
rs12722531	CD25 on IgD- CD38-	ebi-a-GCST90001787	10	6076076	A	G	3657	0.45	0.05	0.00	0.02	90.23
rs706779	CD25 on IgD- CD38-	ebi-a-GCST90001787	10	6098824	C	T	3657	-0.29	0.03	0.00	0.04	136.08
rs187593378	CD25 on IgD- CD38-	ebi-a-GCST90001787	11	67809980	T	C	3657	-1.69	0.36	0.00	0.01	21.86
rs11036291	CD25 on IgD- CD38-	ebi-a-GCST90001787	11	41231092	G	A	3657	-0.14	0.03	0.00	0.01	22.34
rs77750506	CD25 on IgD- CD38-	ebi-a-GCST90001787	11	115771425	G	A	3657	0.56	0.12	0.00	0.01	21.26

rs1570675	CD25 on IgD- CD38-	ebi-a-GCST90001787	13	43406556	C	T	3657	0.11	0.02	0.00	0.01	20.77
rs16957211	CD25 on IgD- CD38-	ebi-a-GCST90001787	15	46897868	G	C	3657	0.14	0.03	0.00	0.01	20.10
rs73374860	CD25 on IgD- CD38-	ebi-a-GCST90001787	18	4513432	C	T	3657	-0.34	0.08	0.00	0.01	20.50
rs80243585	CD25 on IgD- CD38-	ebi-a-GCST90001787	18	28337909	G	A	3657	0.20	0.04	0.00	0.01	22.70
rs10401190	CD25 on IgD- CD38-	ebi-a-GCST90001787	19	17987864	T	G	3657	-0.81	0.16	0.00	0.01	24.11
rs144182927	CD25 on IgD- CD38-	ebi-a-GCST90001787	21	23113704	T	G	3657	-0.42	0.09	0.00	0.01	22.43
rs73173391	CD25 on IgD- CD38-	ebi-a-GCST90001787	22	46164098	T	G	3657	0.89	0.20	0.00	0.01	19.62
rs3958466	CD25 on IgD- CD38br	ebi-a-GCST90001788	1	47241376	T	A	3656	0.15	0.03	0.00	0.01	21.55
rs284289	CD25 on IgD- CD38br	ebi-a-GCST90001788	1	10763815	T	C	3656	-0.99	0.19	0.00	0.01	28.05
rs11124936	CD25 on IgD- CD38br	ebi-a-GCST90001788	2	43653000	G	C	3656	0.13	0.03	0.00	0.01	20.61
rs1553309	CD25 on IgD- CD38br	ebi-a-GCST90001788	3	121910706	G	A	3656	-0.11	0.02	0.00	0.01	19.94
rs140397359	CD25 on IgD- CD38br	ebi-a-GCST90001788	3	8278605	C	T	3656	1.14	0.25	0.00	0.01	20.40
rs7692931	CD25 on IgD- CD38br	ebi-a-GCST90001788	4	118326937	A	G	3656	0.11	0.02	0.00	0.01	19.66
rs80056168	CD25 on IgD- CD38br	ebi-a-GCST90001788	4	89684474	T	C	3656	-0.21	0.04	0.00	0.01	23.41
rs62485164	CD25 on IgD- CD38br	ebi-a-GCST90001788	7	136341447	C	T	3656	-0.13	0.03	0.00	0.01	21.36
rs79744969	CD25 on IgD- CD38br	ebi-a-GCST90001788	8	68654406	A	T	3656	0.27	0.06	0.00	0.01	21.65
rs149114716	CD25 on IgD- CD38br	ebi-a-GCST90001788	8	3816956	C	G	3656	-0.35	0.08	0.00	0.01	21.52
rs10756960	CD25 on IgD- CD38br	ebi-a-GCST90001788	9	18383606	G	C	3656	-0.11	0.02	0.00	0.01	20.02
rs78997789	CD25 on IgD- CD38br	ebi-a-GCST90001788	9	76715113	G	A	3656	-0.14	0.03	0.00	0.01	21.32
rs4509665	CD25 on IgD- CD38br	ebi-a-GCST90001788	10	4941911	T	C	3656	-0.12	0.03	0.00	0.01	20.04
rs407948	CD25 on IgD- CD38br	ebi-a-GCST90001788	12	130766040	C	T	3656	-0.11	0.03	0.00	0.01	20.98
rs1982142	CD25 on IgD- CD38br	ebi-a-GCST90001788	13	102272356	G	A	3656	0.16	0.03	0.00	0.01	25.35
rs75264624	CD25 on IgD- CD38br	ebi-a-GCST90001788	14	80644758	T	G	3656	0.21	0.05	0.00	0.01	20.02
rs61986645	CD25 on IgD- CD38br	ebi-a-GCST90001788	14	86928722	G	A	3656	0.22	0.05	0.00	0.01	21.35
rs7166343	CD25 on IgD- CD38br	ebi-a-GCST90001788	15	29885297	C	T	3656	0.14	0.03	0.00	0.01	22.37
rs9897177	CD25 on IgD- CD38br	ebi-a-GCST90001788	17	3784367	T	C	3656	-0.55	0.12	0.00	0.01	20.05
rs6035444	CD25 on IgD- CD38br	ebi-a-GCST90001788	20	19792012	T	C	3656	0.13	0.03	0.00	0.01	20.70
rs73168598	CD25 on IgD- CD38br	ebi-a-GCST90001788	22	34045501	T	G	3656	-0.18	0.04	0.00	0.01	20.21
rs140813228	CD25 on IgD- CD38dim	ebi-a-GCST90001789	1	26723064	A	G	3657	-1.10	0.25	0.00	0.01	19.67
rs191775575	CD25 on IgD- CD38dim	ebi-a-GCST90001789	2	119062858	T	C	3657	0.73	0.16	0.00	0.01	19.92
rs1816221	CD25 on IgD- CD38dim	ebi-a-GCST90001789	2	71977094	C	G	3657	-0.17	0.04	0.00	0.01	22.00
rs112937432	CD25 on IgD- CD38dim	ebi-a-GCST90001789	2	72182946	T	C	3657	0.19	0.04	0.00	0.01	20.35
rs1397934	CD25 on IgD- CD38dim	ebi-a-GCST90001789	4	40187596	G	A	3657	-0.14	0.03	0.00	0.01	27.99
rs6866974	CD25 on IgD- CD38dim	ebi-a-GCST90001789	5	178081193	G	T	3657	0.20	0.04	0.00	0.01	20.13
rs9372361	CD25 on IgD- CD38dim	ebi-a-GCST90001789	6	113707049	T	C	3657	-0.14	0.03	0.00	0.01	21.79
rs2999572	CD25 on IgD- CD38dim	ebi-a-GCST90001789	7	25590299	G	T	3657	0.13	0.03	0.00	0.01	22.31
rs142063706	CD25 on IgD- CD38dim	ebi-a-GCST90001789	8	141253242	A	T	3657	-0.53	0.12	0.00	0.01	20.93

rs3793662	CD25 on IgD- CD38dim	ebi-a-GCST90001789	9	95886051	T	C	3657	-0.17	0.03	0.00	0.01	34.96
rs61839442	CD25 on IgD- CD38dim	ebi-a-GCST90001789	10	6321360	G	A	3657	0.53	0.11	0.00	0.01	23.99
rs41294937	CD25 on IgD- CD38dim	ebi-a-GCST90001789	10	6106621	C	T	3657	0.57	0.04	0.00	0.06	216.82
rs7078614	CD25 on IgD- CD38dim	ebi-a-GCST90001789	10	6075831	T	G	3657	0.22	0.03	0.00	0.02	74.42
rs188753875	CD25 on IgD- CD38dim	ebi-a-GCST90001789	10	24537541	C	A	3657	0.51	0.11	0.00	0.01	22.93
rs11036291	CD25 on IgD- CD38dim	ebi-a-GCST90001789	11	41231092	G	A	3657	-0.13	0.03	0.00	0.01	19.60
rs138920863	CD25 on IgD- CD38dim	ebi-a-GCST90001789	13	85642896	C	T	3657	-0.28	0.06	0.00	0.01	22.22
rs72772213	CD25 on IgD- CD38dim	ebi-a-GCST90001789	16	9444808	G	C	3657	-0.20	0.05	0.00	0.01	19.91
rs8066711	CD25 on IgD- CD38dim	ebi-a-GCST90001789	17	73885038	A	G	3657	-0.14	0.03	0.00	0.01	24.03
rs1795955	CD25 on IgD- CD38dim	ebi-a-GCST90001789	17	77129985	C	G	3657	-0.11	0.02	0.00	0.01	19.73
rs526811	CD25 on IgD- CD38dim	ebi-a-GCST90001789	18	2090450	T	C	3657	0.15	0.03	0.00	0.01	23.07
rs536374	CD25 on IgD- CD38dim	ebi-a-GCST90001789	18	34917959	C	T	3657	0.19	0.04	0.00	0.01	19.65
rs61745051	CD25 on IgD- CD38dim	ebi-a-GCST90001789	20	33584197	T	C	3657	0.52	0.12	0.00	0.01	20.01
rs75727877	CD25 on IgD- CD38dim	ebi-a-GCST90001789	20	50852063	A	C	3657	-0.99	0.21	0.00	0.01	21.89
rs12139506	CD25 on memory B	ebi-a-GCST90001790	1	61376720	G	A	3657	-0.28	0.05	0.00	0.01	26.56
rs1660369	CD25 on memory B	ebi-a-GCST90001790	1	214407674	T	C	3657	0.27	0.06	0.00	0.01	23.82
rs141644939	CD25 on memory B	ebi-a-GCST90001790	2	149979124	T	C	3657	-0.70	0.16	0.00	0.01	19.68
rs2139146	CD25 on memory B	ebi-a-GCST90001790	2	15014620	T	C	3657	-0.20	0.04	0.00	0.01	20.17
rs138409352	CD25 on memory B	ebi-a-GCST90001790	3	10050183	T	A	3657	-0.57	0.13	0.00	0.01	20.69
rs149522679	CD25 on memory B	ebi-a-GCST90001790	4	142001552	C	A	3657	2.48	0.54	0.00	0.01	20.86
rs17252295	CD25 on memory B	ebi-a-GCST90001790	5	8141537	T	A	3657	-0.11	0.02	0.00	0.01	20.48
rs149662107	CD25 on memory B	ebi-a-GCST90001790	7	47871972	A	G	3657	-0.69	0.16	0.00	0.01	19.58
rs2999572	CD25 on memory B	ebi-a-GCST90001790	7	25590299	G	T	3657	0.13	0.03	0.00	0.01	21.30
rs3793662	CD25 on memory B	ebi-a-GCST90001790	9	95886051	T	C	3657	-0.16	0.03	0.00	0.01	31.55
rs2853765	CD25 on memory B	ebi-a-GCST90001790	10	7830675	C	G	3657	0.21	0.05	0.00	0.01	20.77
rs11245200	CD25 on memory B	ebi-a-GCST90001790	10	126182752	T	C	3657	0.17	0.04	0.00	0.01	22.12
rs1887027	CD25 on memory B	ebi-a-GCST90001790	10	6113782	T	C	3657	-0.42	0.03	0.00	0.06	235.86
rs4747882	CD25 on memory B	ebi-a-GCST90001790	10	6162476	T	A	3657	-0.21	0.03	0.00	0.02	62.51
rs11598494	CD25 on memory B	ebi-a-GCST90001790	10	6178941	C	T	3657	-0.18	0.02	0.00	0.01	52.13
rs12886102	CD25 on memory B	ebi-a-GCST90001790	14	100108322	T	G	3657	-0.13	0.03	0.00	0.01	21.65
rs183975337	CD25 on memory B	ebi-a-GCST90001790	14	89659141	T	A	3657	-0.53	0.12	0.00	0.01	21.27
rs11632374	CD25 on memory B	ebi-a-GCST90001790	15	33478617	G	A	3657	0.12	0.03	0.00	0.01	22.42
rs62013832	CD25 on memory B	ebi-a-GCST90001790	15	86804118	T	A	3657	0.12	0.03	0.00	0.01	21.86
rs9972778	CD25 on memory B	ebi-a-GCST90001790	16	25516463	A	C	3657	-0.11	0.02	0.00	0.01	19.61
rs111912558	CD25 on memory B	ebi-a-GCST90001790	17	44356694	C	T	3657	0.15	0.03	0.00	0.01	19.65
rs8097813	CD25 on memory B	ebi-a-GCST90001790	18	67173624	C	T	3657	-0.11	0.02	0.00	0.01	20.54
rs8100828	CD25 on memory B	ebi-a-GCST90001790	19	11184104	T	C	3657	0.18	0.04	0.00	0.01	20.92

rs75727877	CD25 on memory B	ebi-a-GCST90001790	20	50852063	A	C	3657	-0.97	0.21	0.00	0.01	20.82
rs144182927	CD25 on memory B	ebi-a-GCST90001790	21	23113704	T	G	3657	-0.39	0.09	0.00	0.01	20.55
rs3862036	CD25 on memory B	ebi-a-GCST90001790	21	44262209	A	G	3657	-0.29	0.06	0.00	0.01	24.82
rs200381543	CD25 on memory B	ebi-a-GCST90001790	22	22547864	T	C	3657	0.68	0.15	0.00	0.01	21.89
rs139257812	naive-mature B cell CD25 on	ebi-a-GCST90001791	1	8194962	C	T	3657	0.38	0.08	0.00	0.01	21.35
rs9425892	naive-mature B cell CD25 on	ebi-a-GCST90001791	1	34421513	C	T	3657	-0.31	0.06	0.00	0.01	26.05
rs13019590	naive-mature B cell CD25 on	ebi-a-GCST90001791	2	61099420	C	A	3657	0.12	0.03	0.00	0.01	19.63
rs112017455	naive-mature B cell CD25 on	ebi-a-GCST90001791	3	157651153	T	A	3657	0.45	0.09	0.00	0.01	24.45
rs1398243	naive-mature B cell CD25 on	ebi-a-GCST90001791	4	145514461	A	G	3657	0.25	0.06	0.00	0.01	20.64
rs34518596	naive-mature B cell CD25 on	ebi-a-GCST90001791	5	86111282	T	C	3657	2.47	0.55	0.00	0.01	19.84
rs4869953	naive-mature B cell CD25 on	ebi-a-GCST90001791	6	151209997	G	A	3657	-0.12	0.03	0.00	0.01	21.27
rs149662107	naive-mature B cell CD25 on	ebi-a-GCST90001791	7	47871972	A	G	3657	-0.80	0.16	0.00	0.01	25.11
rs1812673	naive-mature B cell CD25 on	ebi-a-GCST90001791	7	25865542	C	T	3657	0.11	0.03	0.00	0.01	19.61
rs3793662	naive-mature B cell CD25 on	ebi-a-GCST90001791	9	95886051	T	C	3657	-0.20	0.03	0.00	0.01	43.63
rs7028305	naive-mature B cell CD25 on	ebi-a-GCST90001791	9	654681	G	A	3657	-0.17	0.04	0.00	0.01	20.49
rs17403348	naive-mature B cell CD25 on	ebi-a-GCST90001791	10	5827901	C	T	3657	0.23	0.04	0.00	0.01	30.32
rs147487472	naive-mature B cell CD25 on	ebi-a-GCST90001791	10	6191376	A	C	3657	0.45	0.06	0.00	0.01	52.34
rs41294937	naive-mature B cell CD25 on	ebi-a-GCST90001791	10	6106621	C	T	3657	0.56	0.04	0.00	0.05	195.66
rs116930842	naive-mature B cell CD25 on	ebi-a-GCST90001791	10	99652174	T	C	3657	-0.36	0.08	0.00	0.01	19.57
rs59278703	naive-mature B cell CD25 on	ebi-a-GCST90001791	11	35069685	A	C	3657	0.21	0.04	0.00	0.01	21.45
rs77869769	naive-mature B cell CD25 on	ebi-a-GCST90001791	11	70397340	C	T	3657	0.82	0.17	0.00	0.01	23.83
rs474490	naive-mature B cell CD25 on	ebi-a-GCST90001791	11	117287794	G	T	3657	-0.15	0.03	0.00	0.01	21.18
rs73070033	naive-mature B cell CD25 on	ebi-a-GCST90001791	12	17419208	T	C	3657	-0.50	0.11	0.00	0.01	20.01
rs11051398	naive-mature B cell CD25 on	ebi-a-GCST90001791	12	31504316	T	C	3657	-0.15	0.03	0.00	0.01	33.49
rs117788286	naive-mature B cell CD25 on	ebi-a-GCST90001791	13	19370199	C	T	3657	-0.29	0.06	0.00	0.01	22.09
rs709589	naive-mature B cell	ebi-a-GCST90001791	14	106306841	T	C	3657	-0.15	0.03	0.00	0.01	21.26

rs8028696	CD25 on naive-mature B cell	ebi-a-GCST90001791	15	33466839	T	C	3657	0.13	0.03	0.00	0.01	20.77
rs118088397	CD25 on naive-mature B cell	ebi-a-GCST90001791	16	11709659	T	C	3657	0.38	0.08	0.00	0.01	24.13
rs148048180	CD25 on naive-mature B cell	ebi-a-GCST90001791	19	9181620	A	G	3657	-0.32	0.07	0.00	0.01	19.98
rs1555271	CD25 on naive-mature B cell	ebi-a-GCST90001791	20	20803779	C	T	3657	-0.12	0.02	0.00	0.01	21.42
rs17002085	CD25 on naive-mature B cell	ebi-a-GCST90001791	21	27750139	A	C	3657	0.91	0.20	0.00	0.01	20.02
rs1660369	CD25 on unsw mem	ebi-a-GCST90001792	1	214407674	T	C	3657	0.29	0.06	0.00	0.01	26.45
rs12739411	CD25 on unsw mem	ebi-a-GCST90001792	1	68752573	C	G	3657	0.43	0.09	0.00	0.01	21.38
rs12139506	CD25 on unsw mem	ebi-a-GCST90001792	1	61376720	G	A	3657	-0.27	0.05	0.00	0.01	25.75
rs75784903	CD25 on unsw mem	ebi-a-GCST90001792	2	173874264	C	G	3657	-0.77	0.17	0.00	0.01	20.04
rs2139146	CD25 on unsw mem	ebi-a-GCST90001792	2	15014620	T	C	3657	-0.21	0.04	0.00	0.01	21.97
rs62149023	CD25 on unsw mem	ebi-a-GCST90001792	2	33764503	G	C	3657	0.11	0.03	0.00	0.01	20.19
rs149905818	CD25 on unsw mem	ebi-a-GCST90001792	4	106231334	C	T	3657	3.15	0.71	0.00	0.01	19.90
rs74726196	CD25 on unsw mem	ebi-a-GCST90001792	5	122019220	A	G	3657	-2.66	0.58	0.00	0.01	20.85
rs2999572	CD25 on unsw mem	ebi-a-GCST90001792	7	25590299	G	T	3657	0.12	0.03	0.00	0.01	20.11
rs140833732	CD25 on unsw mem	ebi-a-GCST90001792	8	36436637	T	A	3657	-1.02	0.23	0.00	0.01	20.02
rs183392197	CD25 on unsw mem	ebi-a-GCST90001792	9	132487598	C	G	3657	-0.31	0.07	0.00	0.01	20.14
rs3793662	CD25 on unsw mem	ebi-a-GCST90001792	9	95886051	T	C	3657	-0.17	0.03	0.00	0.01	33.26
rs4747882	CD25 on unsw mem	ebi-a-GCST90001792	10	6162476	T	A	3657	-0.21	0.03	0.00	0.02	60.10
rs11245200	CD25 on unsw mem	ebi-a-GCST90001792	10	126182752	T	C	3657	0.16	0.04	0.00	0.01	20.15
rs1887027	CD25 on unsw mem	ebi-a-GCST90001792	10	6113782	T	C	3657	-0.40	0.03	0.00	0.06	217.24
rs11598494	CD25 on unsw mem	ebi-a-GCST90001792	10	6178941	C	T	3657	-0.16	0.02	0.00	0.01	41.68
rs2853765	CD25 on unsw mem	ebi-a-GCST90001792	10	7830675	C	G	3657	0.23	0.05	0.00	0.01	25.94
rs563803689	CD25 on unsw mem	ebi-a-GCST90001792	11	102922239	T	C	3657	0.29	0.06	0.00	0.01	20.70
rs183975337	CD25 on unsw mem	ebi-a-GCST90001792	14	89659141	T	A	3657	-0.53	0.12	0.00	0.01	20.86
rs62013832	CD25 on unsw mem	ebi-a-GCST90001792	15	86804118	T	A	3657	0.12	0.03	0.00	0.01	22.16
rs7186545	CD25 on unsw mem	ebi-a-GCST90001792	16	14508423	C	G	3657	-0.22	0.05	0.00	0.01	21.57
rs28374524	CD25 on unsw mem	ebi-a-GCST90001792	16	25533172	G	A	3657	-0.11	0.02	0.00	0.01	20.96
rs73332250	CD25 on unsw mem	ebi-a-GCST90001792	17	47014571	C	T	3657	-0.57	0.12	0.00	0.01	22.42
rs28365327	CD25 on unsw mem	ebi-a-GCST90001792	18	25753552	A	G	3657	-0.15	0.03	0.00	0.01	27.83
rs8097813	CD25 on unsw mem	ebi-a-GCST90001792	18	67173624	C	T	3657	-0.11	0.02	0.00	0.01	19.73
rs3862036	CD25 on unsw mem	ebi-a-GCST90001792	21	44262209	A	G	3657	-0.28	0.06	0.00	0.01	22.72
rs4073186	CD25 on sw mem	ebi-a-GCST90001793	2	30043619	A	G	3657	-0.11	0.03	0.00	0.01	20.24
rs75038650	CD25 on sw mem	ebi-a-GCST90001793	2	5553075	T	C	3657	0.15	0.03	0.00	0.01	21.00
rs77603125	CD25 on sw mem	ebi-a-GCST90001793	5	179275092	C	T	3657	-0.31	0.07	0.00	0.01	21.73

rs9372361	CD25 on sw mem	ebi-a-GCST90001793	6	113707049	T	C	3657	-0.14	0.03	0.00	0.01	20.78
rs2999572	CD25 on sw mem	ebi-a-GCST90001793	7	25590299	G	T	3657	0.12	0.03	0.00	0.01	19.88
rs80287371	CD25 on sw mem	ebi-a-GCST90001793	8	5413535	G	C	3657	0.16	0.04	0.00	0.01	20.15
rs3793662	CD25 on sw mem	ebi-a-GCST90001793	9	95886051	T	C	3657	-0.15	0.03	0.00	0.01	25.43
rs12342539	CD25 on sw mem	ebi-a-GCST90001793	9	4327960	T	C	3657	-0.15	0.03	0.00	0.01	24.23
rs609291	CD25 on sw mem	ebi-a-GCST90001793	9	127809664	G	A	3657	0.11	0.02	0.00	0.01	19.70
rs41294937	CD25 on sw mem	ebi-a-GCST90001793	10	6106621	C	T	3657	0.56	0.04	0.00	0.05	196.37
rs7078614	CD25 on sw mem	ebi-a-GCST90001793	10	6075831	T	G	3657	0.24	0.03	0.00	0.02	86.20
rs61839442	CD25 on sw mem	ebi-a-GCST90001793	10	6321360	G	A	3657	0.56	0.11	0.00	0.01	25.82
rs217211	CD25 on sw mem	ebi-a-GCST90001793	11	1975919	A	G	3657	-0.18	0.04	0.00	0.01	20.47
rs12830810	CD25 on sw mem	ebi-a-GCST90001793	12	47930410	C	T	3657	-0.12	0.03	0.00	0.01	23.11
rs12886102	CD25 on sw mem	ebi-a-GCST90001793	14	100108322	T	G	3657	-0.14	0.03	0.00	0.01	23.09
rs12907742	CD25 on sw mem	ebi-a-GCST90001793	15	101525737	C	T	3657	-0.23	0.04	0.00	0.01	27.62
rs61745051	CD25 on sw mem	ebi-a-GCST90001793	20	33584197	T	C	3657	0.53	0.12	0.00	0.01	20.28
rs2252677	CD25 on sw mem	ebi-a-GCST90001793	20	18206348	A	C	3657	-0.11	0.03	0.00	0.01	20.24
rs60525628	CD25 on sw mem	ebi-a-GCST90001793	21	47558586	G	A	3657	0.11	0.02	0.00	0.01	20.78
rs144182927	CD25 on sw mem	ebi-a-GCST90001793	21	23113704	T	G	3657	-0.41	0.09	0.00	0.01	22.24
rs200381543	CD25 on sw mem	ebi-a-GCST90001793	22	22547864	T	C	3657	0.67	0.15	0.00	0.01	20.88
rs9425892	CD25 on $I\sigma D+$	ebi-a-GCST90001794	1	34421513	C	T	3658	-0.27	0.06	0.00	0.01	21.13
rs540760708	CD25 on $I\sigma D+$	ebi-a-GCST90001794	1	7474014	T	C	3658	-0.54	0.12	0.00	0.01	20.47
rs111741355	CD25 on $I\sigma D+$	ebi-a-GCST90001794	1	48095312	A	G	3658	-2.64	0.57	0.00	0.01	21.30
rs72944931	CD25 on $I\sigma D+$	ebi-a-GCST90001794	2	178116262	G	A	3658	0.50	0.11	0.00	0.01	22.92
rs12465275	CD25 on $I\sigma D+$	ebi-a-GCST90001794	2	4082267	C	T	3658	0.60	0.13	0.00	0.01	19.99
rs62175769	CD25 on $I\sigma D+$	ebi-a-GCST90001794	2	173865326	C	T	3658	-0.58	0.12	0.00	0.01	22.66
rs112043339	CD25 on $I\sigma D+$	ebi-a-GCST90001794	3	174935606	T	C	3658	-0.52	0.11	0.00	0.01	21.60
rs12638268	CD25 on $I\sigma D+$	ebi-a-GCST90001794	3	11933438	C	T	3658	0.12	0.03	0.00	0.01	22.08
rs114737782	CD25 on $I\sigma D+$	ebi-a-GCST90001794	4	177026245	A	T	3658	0.74	0.16	0.00	0.01	20.18
rs113492859	CD25 on $I\sigma D+$	ebi-a-GCST90001794	4	185217641	T	C	3658	0.20	0.04	0.00	0.01	21.27
rs4869953	CD25 on $I\sigma D+$	ebi-a-GCST90001794	6	151209997	G	A	3658	-0.13	0.03	0.00	0.01	25.48
rs149662107	CD25 on $I\sigma D+$	ebi-a-GCST90001794	7	47871972	A	G	3658	-0.83	0.16	0.00	0.01	26.96
rs3793662	CD25 on $I\sigma D+$	ebi-a-GCST90001794	9	95886051	T	C	3658	-0.16	0.03	0.00	0.01	28.38
rs71501657	CD25 on $I\sigma D+$	ebi-a-GCST90001794	9	113797266	G	C	3658	-0.45	0.10	0.00	0.01	20.09
rs147487472	CD25 on $I\sigma D+$	ebi-a-GCST90001794	10	6191376	A	C	3658	0.38	0.06	0.00	0.01	38.06
rs41294937	CD25 on $I\sigma D+$	ebi-a-GCST90001794	10	6106621	C	T	3658	0.48	0.04	0.00	0.04	138.81
rs11615354	CD25 on $I\sigma D+$	ebi-a-GCST90001794	12	2130438	T	C	3658	0.21	0.04	0.00	0.01	27.03
rs11051398	CD25 on $I\sigma D+$	ebi-a-GCST90001794	12	31504316	T	C	3658	-0.12	0.03	0.00	0.01	21.06
rs557577736	CD25 on $I\sigma D+$	ebi-a-GCST90001794	13	46224092	G	A	3658	1.89	0.39	0.00	0.01	23.29
rs2248769	CD25 on $I\sigma D+$	ebi-a-GCST90001794	13	54938910	C	A	3658	0.17	0.04	0.00	0.01	20.17
rs112328981	CD25 on $I\sigma D+$	ebi-a-GCST90001794	13	34477079	T	C	3658	3.46	0.68	0.00	0.01	26.07
rs2753488	CD25 on $I\sigma D+$	ebi-a-GCST90001794	14	106305260	G	A	3658	-0.15	0.03	0.00	0.01	21.56
rs11632374	CD25 on $I\sigma D+$	ebi-a-GCST90001794	15	33478617	G	A	3658	0.12	0.03	0.00	0.01	20.46
rs117156856	CD25 on $I\sigma D+$	ebi-a-GCST90001794	16	46798678	A	C	3658	1.19	0.27	0.00	0.01	19.63
rs62206862	CD25 on $I\sigma D+$	ebi-a-GCST90001794	20	61967801	G	C	3658	-1.16	0.24	0.00	0.01	22.59

rs75727877	CD25 on	ebi-a-GCST90001794	20	50852063	A	C	3658	-0.96	0.22	0.00	0.01	19.77
rs13051777	CD25 on	ebi-a-GCST90001794	21	20241615	A	G	3658	-0.25	0.06	0.00	0.01	20.37
rs146720368	CD25 on	ebi-a-GCST90001794	22	32003463	T	C	3658	0.93	0.19	0.00	0.01	23.04
rs6550133	CD25 on	ebi-a-GCST90001795	3	32472280	C	T	3657	-0.15	0.03	0.00	0.01	21.59
rs11099673	transitional	ebi-a-GCST90001795	4	148899082	G	A	3657	0.12	0.03	0.00	0.01	19.92
rs181825	CD25 on	ebi-a-GCST90001795	5	80131532	A	G	3657	0.31	0.07	0.00	0.01	21.26
rs4721574	transitional	ebi-a-GCST90001795	7	2350451	A	G	3657	0.14	0.03	0.00	0.01	26.45
rs3793662	CD25 on	ebi-a-GCST90001795	9	95886051	T	C	3657	-0.16	0.03	0.00	0.01	28.48
rs4129608	transitional	ebi-a-GCST90001795	9	18327215	G	A	3657	-0.16	0.03	0.00	0.01	19.94
rs117473115	CD25 on	ebi-a-GCST90001795	10	54503355	T	C	3657	0.35	0.07	0.00	0.01	25.32
rs62626323	transitional	ebi-a-GCST90001795	10	6115678	A	C	3657	0.30	0.04	0.00	0.01	54.63
rs7899857	CD25 on	ebi-a-GCST90001795	10	133280976	A	G	3657	-0.13	0.03	0.00	0.01	22.97
rs34513850	transitional	ebi-a-GCST90001795	11	113437313	G	A	3657	0.43	0.09	0.00	0.01	20.76
rs474490	CD25 on	ebi-a-GCST90001795	11	117287794	G	T	3657	-0.14	0.03	0.00	0.01	20.02
rs76153918	transitional	ebi-a-GCST90001795	11	70398780	T	C	3657	0.82	0.18	0.00	0.01	19.78
rs12822478	CD25 on	ebi-a-GCST90001795	12	31514566	A	C	3657	-0.12	0.03	0.00	0.01	21.23
rs74709342	transitional	ebi-a-GCST90001795	13	107000655	G	A	3657	0.27	0.06	0.00	0.01	19.85
rs148702440	CD25 on	ebi-a-GCST90001795	13	22419220	A	G	3657	-0.36	0.08	0.00	0.01	19.75
rs61945276	transitional	ebi-a-GCST90001795	13	22645864	A	G	3657	-0.33	0.07	0.00	0.01	21.30
rs876043	CD25 on	ebi-a-GCST90001795	14	92357145	G	A	3657	-0.13	0.03	0.00	0.01	20.27
rs10047878	transitional	ebi-a-GCST90001795	14	22787690	A	T	3657	-0.12	0.03	0.00	0.01	21.27
rs709589	CD25 on	ebi-a-GCST90001795	14	106306841	T	C	3657	-0.23	0.03	0.00	0.01	52.41
rs151006498	transitional	ebi-a-GCST90001795	15	63642578	T	C	3657	-0.60	0.13	0.00	0.01	21.17
rs144997167	CD25 on	ebi-a-GCST90001795	16	46608478	T	C	3657	1.30	0.28	0.00	0.01	20.75
rs140685335	transitional	ebi-a-GCST90001795	18	1584719	G	A	3657	0.36	0.08	0.00	0.01	22.73
rs78716865	CD25 on	ebi-a-GCST90001795	19	52158206	T	C	3657	-1.24	0.27	0.00	0.01	20.50
rs6658353	transitional	ebi-a-GCST90001796	1	161469054	C	G	3634	-0.12	0.03	0.00	0.01	22.88
rs116588562	CD27 on	ebi-a-GCST90001796	1	201089372	A	T	3634	0.22	0.05	0.00	0.01	22.87
rs10914353	CD20-	ebi-a-GCST90001796	1	30235009	A	G	3634	-0.17	0.04	0.00	0.01	19.60
rs66732006	CD27 on	ebi-a-GCST90001796	2	102157635	C	T	3634	0.16	0.04	0.00	0.01	20.79
rs4446062	CD20-	ebi-a-GCST90001796	2	57498544	A	G	3634	0.13	0.03	0.00	0.01	21.84
rs148362575	CD27 on	ebi-a-GCST90001796	2	187165335	T	A	3634	2.51	0.57	0.00	0.01	19.66
rs10175058	CD20-	ebi-a-GCST90001796	2	162276981	C	T	3634	0.11	0.02	0.00	0.01	19.85
rs2935486	CD27 on	ebi-a-GCST90001796	5	89576140	T	A	3634	0.93	0.20	0.00	0.01	20.77
rs7015229	CD20-	ebi-a-GCST90001796	8	124077305	G	A	3634	0.18	0.04	0.00	0.01	19.69
rs4752656	CD27 on	ebi-a-GCST90001796	10	123899507	T	C	3634	-0.12	0.03	0.00	0.01	21.06
rs878511	CD20-	ebi-a-GCST90001796	11	43543339	A	G	3634	0.14	0.03	0.00	0.01	19.75

rs117208568	CD27 on CD20-	ebi-a-GCST90001796	15	54126596	A	C	3634	0.43	0.09	0.00	0.01	21.62
rs80322600	CD27 on CD20-	ebi-a-GCST90001796	16	55456633	C	T	3634	-0.51	0.10	0.00	0.01	24.74
rs8064682	CD27 on CD20-	ebi-a-GCST90001796	17	75246854	T	C	3634	-0.77	0.17	0.00	0.01	21.17
rs2939611	CD27 on CD20-	ebi-a-GCST90001796	18	46871075	G	A	3634	0.19	0.04	0.00	0.01	20.39
rs74330899	CD27 on CD20-	ebi-a-GCST90001796	19	29552282	G	A	3634	0.84	0.18	0.00	0.01	22.11
rs2910346	CD27 on CD20-	ebi-a-GCST90001796	19	8929031	G	C	3634	0.19	0.04	0.00	0.01	20.01
rs909973	CD27 on CD20- CD38-	ebi-a-GCST90001797	1	40901979	G	A	3592	0.50	0.11	0.00	0.01	21.99
rs74432706	CD27 on CD20- CD38-	ebi-a-GCST90001797	2	197887417	T	C	3592	0.35	0.08	0.00	0.01	20.79
rs113532966	CD27 on CD20- CD38-	ebi-a-GCST90001797	2	50627626	C	T	3592	0.19	0.04	0.00	0.01	20.94
rs61566441	CD27 on CD20- CD38-	ebi-a-GCST90001797	3	155044125	T	C	3592	0.12	0.03	0.00	0.01	21.33
rs115412883	CD27 on CD20- CD38-	ebi-a-GCST90001797	3	26147574	G	A	3592	0.60	0.14	0.00	0.01	19.56
rs10042952	CD27 on CD20- CD38-	ebi-a-GCST90001797	5	67196963	A	C	3592	-0.16	0.04	0.00	0.01	20.19
rs147680281	CD27 on CD20- CD38-	ebi-a-GCST90001797	5	127113029	T	C	3592	2.01	0.44	0.00	0.01	20.93
rs74551235	CD27 on CD20- CD38-	ebi-a-GCST90001797	6	150575442	A	G	3592	-0.20	0.04	0.00	0.01	23.73
rs118135815	CD27 on CD20- CD38-	ebi-a-GCST90001797	7	146514190	G	A	3592	1.93	0.41	0.00	0.01	21.99
rs7007180	CD27 on CD20- CD38-	ebi-a-GCST90001797	8	6947493	G	T	3592	0.13	0.03	0.00	0.01	21.06
rs147153707	CD27 on CD20- CD38-	ebi-a-GCST90001797	9	31165407	A	G	3592	0.53	0.11	0.00	0.01	23.05
rs10763431	CD27 on CD20- CD38-	ebi-a-GCST90001797	10	58623676	C	T	3592	0.11	0.03	0.00	0.01	20.21
rs10740344	CD27 on CD20- CD38-	ebi-a-GCST90001797	10	72155840	T	C	3592	-0.13	0.03	0.00	0.01	23.15
rs7114298	CD27 on CD20- CD38-	ebi-a-GCST90001797	11	65582028	G	A	3592	-0.12	0.03	0.00	0.01	20.52
rs4578504	CD27 on CD20- CD38-	ebi-a-GCST90001797	13	27510490	G	C	3592	-0.14	0.03	0.00	0.01	22.14
rs8072367	CD27 on CD20- CD38-	ebi-a-GCST90001797	17	75901729	C	T	3592	-0.19	0.04	0.00	0.01	20.86
rs9914679	CD27 on CD20- CD38-	ebi-a-GCST90001797	17	13675196	T	C	3592	-0.13	0.03	0.00	0.01	21.03
rs1785249	CD27 on CD20- CD38-	ebi-a-GCST90001797	18	3362511	T	C	3592	-0.12	0.02	0.00	0.01	25.31
rs2024568	CD27 on CD20- CD38-	ebi-a-GCST90001797	20	44732089	C	T	3592	-0.12	0.03	0.00	0.01	22.25
rs139998	CD27 on CD20- CD38-	ebi-a-GCST90001797	22	36862501	C	T	3592	-0.12	0.03	0.00	0.01	20.76
rs1801274	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	1	161479745	G	A	3657	-0.22	0.03	0.00	0.02	70.34
rs34101571	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	1	31211894	A	G	3657	-0.45	0.08	0.00	0.01	32.24
rs113382987	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	2	4112823	A	T	3657	0.28	0.06	0.00	0.01	19.67
rs76929865	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	3	31134534	C	A	3657	0.46	0.09	0.00	0.01	28.94
rs142111770	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	3	34933016	C	T	3657	0.31	0.07	0.00	0.01	20.84
rs114401515	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	3	46865159	C	G	3657	0.20	0.04	0.00	0.01	20.64
rs144642376	CD24+ CD27+	ebi-a-GCST90001798	3	36349691	G	A	3657	0.26	0.05	0.00	0.01	29.04

rs116522219	CD27 on CD24+ CD27+ CD27 on	ebi-a-GCST90001798	3	36625286	A	G	3657	0.30	0.06	0.00	0.01	22.48
rs7621492	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	3	32302456	A	G	3657	0.22	0.04	0.00	0.01	31.06
rs75918255	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	3	32945761	A	G	3657	0.50	0.07	0.00	0.01	55.62
rs9823348	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	3	400357	G	C	3657	0.13	0.03	0.00	0.01	19.56
rs35574803	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	3	32533246	C	T	3657	0.76	0.05	0.00	0.05	209.16
rs78083636	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	4	153842791	G	T	3657	-0.20	0.04	0.00	0.01	21.32
rs4700827	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	5	178897725	G	A	3657	-1.15	0.24	0.00	0.01	22.35
rs148536836	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	5	131696266	A	T	3657	-2.01	0.45	0.00	0.01	20.28
rs79871977	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	5	11538463	A	C	3657	0.49	0.10	0.00	0.01	22.38
rs245668	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	5	36713399	A	G	3657	0.36	0.08	0.00	0.01	22.27
rs12664485	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	6	143890569	C	T	3657	0.52	0.11	0.00	0.01	21.13
rs141876897	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	9	94241794	A	T	3657	0.73	0.16	0.00	0.01	19.75
rs143164248	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	10	28945318	A	G	3657	0.23	0.05	0.00	0.01	20.02
rs230665	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	11	77881098	A	G	3657	0.63	0.14	0.00	0.01	19.77
rs25680	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	12	6554628	A	G	3657	-0.26	0.03	0.00	0.02	62.85
rs147714617	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	12	6605299	T	C	3657	0.26	0.04	0.00	0.01	47.91
rs185264204	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	18	74212885	T	C	3657	0.32	0.07	0.00	0.01	20.32
rs162076	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	20	46785499	A	G	3657	-0.15	0.02	0.00	0.01	33.92
rs8116311	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	20	44836231	T	C	3657	0.25	0.05	0.00	0.01	25.53
rs11086984	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	20	44511627	T	C	3657	0.26	0.03	0.00	0.01	55.22
rs4810496	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	20	44954283	A	G	3657	-0.14	0.03	0.00	0.01	22.13
rs1883832	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	20	44746982	C	T	3657	-0.58	0.02	0.00	0.14	583.69
rs72645230	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	20	46242688	G	C	3657	-0.20	0.04	0.00	0.01	20.79
rs9989924	CD24+ CD27+ CD27 on	ebi-a-GCST90001798	20	42019380	C	T	3657	0.15	0.03	0.00	0.01	33.68
rs79633764	CD27 on T cell	ebi-a-GCST90001799	1	229986965	T	C	1838	0.28	0.06	0.00	0.01	19.62

rs1801274	CD27 on T cell	ebi-a-GCST90001799	1	161479745	G	A	1838	-0.31	0.03	0.00	0.05	89.05
rs180734121	CD27 on T cell	ebi-a-GCST90001799	2	31487659	G	A	1838	1.01	0.22	0.00	0.01	20.26
rs35574803	CD27 on T cell	ebi-a-GCST90001799	3	32533246	C	T	1838	0.37	0.07	0.00	0.02	28.65
rs17272388	CD27 on T cell	ebi-a-GCST90001799	4	94346696	T	C	1838	0.26	0.06	0.00	0.01	20.71
rs148064748	CD27 on T cell	ebi-a-GCST90001799	4	98085948	G	C	1838	3.51	0.79	0.00	0.01	19.89
rs73252247	CD27 on T cell	ebi-a-GCST90001799	4	21549438	C	T	1838	-0.28	0.06	0.00	0.01	19.78
rs62396405	CD27 on T cell	ebi-a-GCST90001799	6	38807887	G	A	1838	0.36	0.08	0.00	0.01	21.17
rs78033918	CD27 on T cell	ebi-a-GCST90001799	7	139037580	A	G	1838	0.56	0.12	0.00	0.01	20.90
rs61590681	CD27 on T cell	ebi-a-GCST90001799	8	3733148	C	T	1838	-0.31	0.07	0.00	0.01	20.59
rs111986434	CD27 on T cell	ebi-a-GCST90001799	9	132142740	A	G	1838	0.40	0.08	0.00	0.01	24.41
rs7893773	CD27 on T cell	ebi-a-GCST90001799	10	52916173	T	C	1838	-0.15	0.03	0.00	0.01	21.02
rs10996192	CD27 on T cell	ebi-a-GCST90001799	10	66846516	A	C	1838	0.43	0.09	0.00	0.01	21.77
rs4937631	CD27 on T cell	ebi-a-GCST90001799	11	131356267	A	G	1838	0.17	0.04	0.00	0.01	21.14
rs184776859	CD27 on T cell	ebi-a-GCST90001799	12	124564198	A	G	1838	1.29	0.25	0.00	0.01	26.26
rs10785556	CD27 on T cell	ebi-a-GCST90001799	12	45593682	A	G	1838	0.41	0.08	0.00	0.01	25.32
rs9520817	CD27 on T cell	ebi-a-GCST90001799	13	108846787	G	A	1838	0.18	0.04	0.00	0.01	20.96
rs75211095	CD27 on T cell	ebi-a-GCST90001799	13	67666819	A	G	1838	-0.31	0.07	0.00	0.01	20.72
rs35116758	CD27 on T cell	ebi-a-GCST90001799	16	56916197	T	C	1838	-0.81	0.18	0.00	0.01	20.58
rs2848587	CD27 on T cell	ebi-a-GCST90001799	18	33793953	C	A	1838	0.15	0.03	0.00	0.01	22.46
rs11698768	CD27 on T cell	ebi-a-GCST90001799	20	58825491	T	C	1838	-0.37	0.08	0.00	0.01	20.89
rs866069	CD27 on IgD+ CD24+	ebi-a-GCST90001800	1	157006976	C	T	3656	-0.12	0.03	0.00	0.01	23.00
rs481818	CD27 on IgD+ CD24+	ebi-a-GCST90001800	1	234426306	C	T	3656	-0.23	0.04	0.00	0.01	27.79
rs2783440	CD27 on IgD+ CD24+	ebi-a-GCST90001800	1	111748488	G	A	3656	-0.12	0.03	0.00	0.01	22.67
rs76385721	CD27 on IgD+ CD24+	ebi-a-GCST90001800	2	111411515	A	G	3656	-2.15	0.48	0.00	0.01	20.24
rs7621492	CD27 on IgD+ CD24+	ebi-a-GCST90001800	3	32302456	A	G	3656	0.24	0.04	0.00	0.01	37.15
rs116551266	CD27 on IgD+ CD24+	ebi-a-GCST90001800	3	36350049	T	C	3656	0.24	0.05	0.00	0.01	23.03
rs12637802	CD27 on IgD+ CD24+	ebi-a-GCST90001800	3	409221	G	C	3656	-0.21	0.05	0.00	0.01	19.95
rs75918255	CD27 on IgD+ CD24+	ebi-a-GCST90001800	3	32945761	A	G	3656	0.49	0.07	0.00	0.01	52.35
rs35574803	CD27 on IgD+ CD24+	ebi-a-GCST90001800	3	32533246	C	T	3656	0.75	0.05	0.00	0.05	195.58
rs76929865	CD27 on IgD+ CD24+	ebi-a-GCST90001800	3	31134534	C	A	3656	0.57	0.09	0.00	0.01	43.40
rs111825302	CD27 on IgD+ CD24+	ebi-a-GCST90001800	4	100692569	A	G	3656	0.85	0.19	0.00	0.01	19.98
rs73236188	CD27 on IgD+ CD24+	ebi-a-GCST90001800	4	56539558	T	C	3656	0.15	0.03	0.00	0.01	20.66
rs6881246	CD27 on IgD+ CD24+	ebi-a-GCST90001800	5	38617277	A	G	3656	-1.24	0.26	0.00	0.01	22.51
rs73716743	CD27 on IgD+ CD24+	ebi-a-GCST90001800	6	1056091	T	C	3656	0.20	0.05	0.00	0.01	19.64
rs1100578	CD27 on IgD+ CD24+	ebi-a-GCST90001800	6	22371990	C	G	3656	-0.11	0.03	0.00	0.01	20.56
rs11769145	CD27 on IgD+ CD24+	ebi-a-GCST90001800	7	70704068	C	T	3656	0.19	0.04	0.00	0.01	23.74
rs12541523	CD27 on IgD+ CD24+	ebi-a-GCST90001800	8	124577287	A	G	3656	0.22	0.05	0.00	0.01	21.67

rs951067	CD27 on IgD+ CD24+	ebi-a-GCST90001800	10	128856644	C	T	3656	0.12	0.03	0.00	0.01	20.80
rs10833056	CD27 on IgD+ CD24+	ebi-a-GCST90001800	11	19105332	C	T	3656	0.12	0.03	0.00	0.01	21.63
rs147714617	CD27 on IgD+ CD24+	ebi-a-GCST90001800	12	6605299	T	C	3656	0.19	0.04	0.00	0.01	24.07
rs143553941	CD27 on IgD+ CD24+	ebi-a-GCST90001800	12	109368119	C	G	3656	0.51	0.11	0.00	0.01	21.98
rs25680	CD27 on IgD+ CD24+	ebi-a-GCST90001800	12	6554628	A	G	3656	-0.19	0.03	0.00	0.01	32.69
rs709589	CD27 on IgD+ CD24+	ebi-a-GCST90001800	14	106306841	T	C	3656	-0.17	0.03	0.00	0.01	28.88
rs150399795	CD27 on IgD+ CD24+	ebi-a-GCST90001800	16	59131195	T	C	3656	-0.19	0.04	0.00	0.01	20.42
rs75005829	CD27 on IgD+ CD24+	ebi-a-GCST90001800	17	53317228	T	A	3656	0.44	0.10	0.00	0.01	20.92
rs1883832	CD27 on IgD+ CD24+	ebi-a-GCST90001800	20	44746982	C	T	3656	-0.50	0.03	0.00	0.10	393.43
rs12625834	CD27 on IgD+ CD24+	ebi-a-GCST90001800	20	44949039	A	G	3656	-0.15	0.03	0.00	0.01	24.89
rs145656540	CD27 on IgD+ CD24+	ebi-a-GCST90001800	20	57966338	T	G	3656	0.49	0.10	0.00	0.01	23.19
rs235031	CD27 on IgD+ CD24+	ebi-a-GCST90001800	20	48248326	C	T	3656	0.11	0.03	0.00	0.01	19.68
rs11086984	CD27 on IgD+ CD24+	ebi-a-GCST90001800	20	44511627	T	C	3656	0.19	0.04	0.00	0.01	29.71
rs162076	CD27 on IgD+ CD24+	ebi-a-GCST90001800	20	46785499	A	G	3656	-0.13	0.03	0.00	0.01	26.69
rs8139510	CD27 on IgD+ CD24+	ebi-a-GCST90001800	22	21448500	A	G	3656	0.11	0.03	0.00	0.01	19.65
rs138487400	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	1	65088698	A	G	1836	-1.11	0.23	0.00	0.01	22.45
rs115870915	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	1	114134030	A	G	1836	-0.69	0.15	0.00	0.01	21.38
rs62161465	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	2	107721414	T	G	1836	0.35	0.07	0.00	0.01	22.64
rs11718356	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	3	30308520	T	C	1836	0.44	0.10	0.00	0.01	19.71
rs56237381	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	3	32924804	A	G	1836	0.55	0.10	0.00	0.02	30.17
rs76929865	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	3	31134534	C	A	1836	0.59	0.11	0.00	0.01	27.07
rs35574803	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	3	32533246	C	T	1836	0.93	0.07	0.00	0.09	177.18
rs75918255	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	3	32945761	A	G	1836	0.58	0.09	0.00	0.02	39.81
rs76894736	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	5	36745459	G	T	1836	0.49	0.11	0.00	0.01	20.91
rs17097461	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	5	141077992	C	T	1836	0.50	0.11	0.00	0.01	19.87
rs11746129	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	5	83088178	T	C	1836	0.18	0.04	0.00	0.01	20.50
rs10733309	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	9	16253322	G	A	1836	0.16	0.04	0.00	0.01	19.79
rs11220465	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	11	126257779	A	G	1836	-0.34	0.07	0.00	0.01	23.80
rs25680	CD27 on IgD+ CD38- unsw mem	ebi-a-GCST90001801	12	6554628	A	G	1836	-0.29	0.05	0.00	0.02	37.86

rs11829119	CD27 on IgD+ CD38- unsw mem CD27 on	ebi-a-GCST90001801	12	19193531	C	T	1836	0.27	0.06	0.00	0.01	19.60
rs61927746	IgD+ CD38- unsw mem CD27 on	ebi-a-GCST90001801	12	47671332	C	T	1836	0.45	0.10	0.00	0.01	19.70
rs140684212	IgD+ CD38- unsw mem CD27 on	ebi-a-GCST90001801	13	19367953	T	C	1836	-0.35	0.08	0.00	0.01	20.53
rs148107267	IgD+ CD38- unsw mem CD27 on	ebi-a-GCST90001801	15	33896396	G	A	1836	1.39	0.30	0.00	0.01	21.56
rs72794809	IgD+ CD38- unsw mem CD27 on	ebi-a-GCST90001801	16	33377221	A	G	1836	-0.73	0.16	0.00	0.01	21.29
rs13336159	IgD+ CD38- unsw mem CD27 on	ebi-a-GCST90001801	16	8832515	T	C	1836	0.19	0.04	0.00	0.01	21.49
rs72645230	IgD+ CD38- unsw mem CD27 on	ebi-a-GCST90001801	20	46242688	G	C	1836	-0.31	0.06	0.00	0.02	28.34
rs4810485	IgD+ CD38- unsw mem CD27 on	ebi-a-GCST90001801	20	44747947	G	T	1836	-0.57	0.03	0.00	0.14	300.92
rs73301560	IgD+ CD38- unsw mem CD27 on	ebi-a-GCST90001801	20	45088788	C	T	1836	0.28	0.05	0.00	0.02	28.29
rs6066198	IgD+ CD38- unsw mem CD27 on	ebi-a-GCST90001801	20	45732275	G	T	1836	-0.36	0.07	0.00	0.02	29.42
rs4815533	IgD+ CD38- unsw mem CD27 on	ebi-a-GCST90001801	20	2684924	G	A	1836	0.16	0.03	0.00	0.01	21.75
rs1801274	CD27 on IgD- CD38-	ebi-a-GCST90001802	1	161479745	G	A	3657	-0.21	0.03	0.00	0.02	62.90
rs114911864	CD27 on IgD- CD38-	ebi-a-GCST90001802	1	16508223	T	A	3657	-0.90	0.19	0.00	0.01	22.14
rs34101571	CD27 on IgD- CD38-	ebi-a-GCST90001802	1	31211894	A	G	3657	-0.42	0.08	0.00	0.01	27.07
rs1988454	CD27 on IgD- CD38-	ebi-a-GCST90001802	1	82973317	A	G	3657	0.11	0.03	0.00	0.01	19.93
rs7517211	CD27 on IgD- CD38-	ebi-a-GCST90001802	1	99969159	C	G	3657	0.12	0.03	0.00	0.01	22.20
rs114674204	CD27 on IgD- CD38-	ebi-a-GCST90001802	2	207963323	A	T	3657	-0.25	0.05	0.00	0.01	23.07
rs62163304	CD27 on IgD- CD38-	ebi-a-GCST90001802	2	111847100	A	G	3657	-0.14	0.03	0.00	0.01	25.96
rs77986179	CD27 on IgD- CD38-	ebi-a-GCST90001802	2	8336242	G	A	3657	0.50	0.11	0.00	0.01	20.67
rs35574803	CD27 on IgD- CD38-	ebi-a-GCST90001802	3	32533246	C	T	3657	0.61	0.05	0.00	0.03	128.41
rs4453793	CD27 on IgD- CD38-	ebi-a-GCST90001802	3	122718575	C	T	3657	0.14	0.03	0.00	0.01	19.87
rs2526388	CD27 on IgD- CD38-	ebi-a-GCST90001802	3	50174886	C	T	3657	-0.12	0.03	0.00	0.01	19.77
rs75918255	CD27 on IgD- CD38-	ebi-a-GCST90001802	3	32945761	A	G	3657	0.42	0.07	0.00	0.01	37.14
rs76929865	CD27 on IgD- CD38-	ebi-a-GCST90001802	3	31134534	C	A	3657	0.39	0.09	0.00	0.01	20.28
rs144642376	CD27 on IgD- CD38-	ebi-a-GCST90001802	3	36349691	G	A	3657	0.24	0.05	0.00	0.01	23.00
rs75901184	CD27 on IgD- CD38-	ebi-a-GCST90001802	4	65101031	A	G	3657	0.39	0.08	0.00	0.01	21.33
rs36111462	CD27 on IgD- CD38-	ebi-a-GCST90001802	5	109948893	T	A	3657	-0.56	0.13	0.00	0.01	19.98
rs717954	CD27 on IgD- CD38-	ebi-a-GCST90001802	5	148981029	G	A	3657	0.14	0.03	0.00	0.01	19.55
rs486182	CD27 on IgD- CD38-	ebi-a-GCST90001802	8	20806496	T	C	3657	-0.13	0.03	0.00	0.01	23.41
rs147388542	CD27 on IgD- CD38-	ebi-a-GCST90001802	9	94318432	C	A	3657	0.84	0.17	0.00	0.01	25.85
rs230665	CD27 on IgD- CD38-	ebi-a-GCST90001802	11	77881098	A	G	3657	0.64	0.14	0.00	0.01	20.06

rs11064198	CD27 on IgD- CD38-	ebi-a-GCST90001802	12	6558720	T	A	3657	-0.23	0.04	0.00	0.01	37.14
rs577575	CD27 on IgD- CD38-	ebi-a-GCST90001802	12	10045919	A	G	3657	0.20	0.04	0.00	0.01	27.67
rs2250246	CD27 on IgD- CD38-	ebi-a-GCST90001802	12	6553016	G	A	3657	-0.21	0.02	0.00	0.02	70.25
rs4899049	CD27 on IgD- CD38-	ebi-a-GCST90001802	14	61938155	T	C	3657	-0.23	0.05	0.00	0.01	21.33
rs7179434	CD27 on IgD- CD38-	ebi-a-GCST90001802	15	22523362	A	C	3657	0.60	0.13	0.00	0.01	19.61
rs6508496	CD27 on IgD- CD38-	ebi-a-GCST90001802	18	25250464	A	C	3657	0.13	0.03	0.00	0.01	20.60
rs4987790	CD27 on IgD- CD38-	ebi-a-GCST90001802	18	60861693	G	T	3657	0.13	0.03	0.00	0.01	24.54
rs150306315	CD27 on IgD- CD38-	ebi-a-GCST90001802	19	16824730	A	T	3657	0.61	0.14	0.00	0.01	19.72
rs11086984	CD27 on IgD- CD38-	ebi-a-GCST90001802	20	44511627	T	C	3657	0.21	0.03	0.00	0.01	36.48
rs973446	CD27 on IgD- CD38-	ebi-a-GCST90001802	20	44094375	G	C	3657	-0.18	0.04	0.00	0.01	24.99
rs1883832	CD27 on IgD- CD38-	ebi-a-GCST90001802	20	44746982	C	T	3657	-0.47	0.03	0.00	0.09	352.32
rs162076	CD27 on IgD- CD38-	ebi-a-GCST90001802	20	46785499	A	G	3657	-0.14	0.03	0.00	0.01	32.13
rs6012007	CD27 on IgD- CD38-	ebi-a-GCST90001802	20	45312244	C	T	3657	-0.33	0.07	0.00	0.01	22.61
rs10789188	CD27 on IgD- CD38br	ebi-a-GCST90001803	1	66053791	G	A	3642	0.13	0.03	0.00	0.01	21.06
rs72770527	CD27 on IgD- CD38br	ebi-a-GCST90001803	2	16073977	G	A	3642	0.35	0.07	0.00	0.01	21.68
rs13111916	CD27 on IgD- CD38br	ebi-a-GCST90001803	4	13780721	C	T	3642	0.14	0.03	0.00	0.01	21.17
rs4537081	CD27 on IgD- CD38br	ebi-a-GCST90001803	5	165579358	G	A	3642	-0.13	0.03	0.00	0.01	22.12
rs9386093	CD27 on IgD- CD38br	ebi-a-GCST90001803	6	145274168	A	G	3642	0.13	0.03	0.00	0.01	20.43
rs73202627	CD27 on IgD- CD38br	ebi-a-GCST90001803	8	12580949	C	T	3642	0.15	0.03	0.00	0.01	20.69
rs12552851	CD27 on IgD- CD38br	ebi-a-GCST90001803	9	24488925	C	T	3642	0.19	0.04	0.00	0.01	22.26
rs140193270	CD27 on IgD- CD38br	ebi-a-GCST90001803	10	4243950	C	A	3642	0.34	0.07	0.00	0.01	25.47
rs2250246	CD27 on IgD- CD38br	ebi-a-GCST90001803	12	6553016	G	A	3642	-0.17	0.02	0.00	0.01	46.48
rs11171232	CD27 on IgD- CD38br	ebi-a-GCST90001803	12	55446669	T	C	3642	-0.29	0.06	0.00	0.01	22.81
rs2669400	CD27 on IgD- CD38br	ebi-a-GCST90001803	12	54880954	C	G	3642	0.21	0.04	0.00	0.01	23.04
rs1563304	CD27 on IgD- CD38br	ebi-a-GCST90001803	17	44874453	T	C	3642	0.17	0.04	0.00	0.01	21.27
rs112824549	CD27 on IgD- CD38br	ebi-a-GCST90001803	17	73082360	T	C	3642	0.24	0.05	0.00	0.01	20.86
rs2587637	CD27 on IgD- CD38br	ebi-a-GCST90001803	18	39020074	A	G	3642	-0.11	0.03	0.00	0.01	19.58
rs1883832	CD27 on IgD- CD38br	ebi-a-GCST90001803	20	44746982	C	T	3642	-0.14	0.03	0.00	0.01	30.42
rs12727962	CD27 on IgD- CD38dim	ebi-a-GCST90001804	1	31686211	G	C	3657	-0.37	0.08	0.00	0.01	22.71
rs116327214	CD27 on IgD- CD38dim	ebi-a-GCST90001804	1	32083093	G	C	3657	-0.35	0.07	0.00	0.01	23.77
rs1801274	CD27 on IgD- CD38dim	ebi-a-GCST90001804	1	161479745	G	A	3657	-0.20	0.03	0.00	0.02	60.08
rs34101571	CD27 on IgD- CD38dim	ebi-a-GCST90001804	1	31211894	A	G	3657	-0.53	0.08	0.00	0.01	45.97
rs6667752	CD27 on IgD- CD38dim	ebi-a-GCST90001804	1	177936599	G	T	3657	0.12	0.03	0.00	0.01	20.33
rs9825547	CD27 on IgD- CD38dim	ebi-a-GCST90001804	3	28883059	T	C	3657	0.50	0.10	0.00	0.01	23.66
rs182174914	CD27 on IgD- CD38dim	ebi-a-GCST90001804	3	80085882	A	T	3657	-2.46	0.55	0.00	0.01	19.94
rs41533545	CD27 on IgD- CD38dim	ebi-a-GCST90001804	3	30298480	G	A	3657	0.34	0.07	0.00	0.01	21.49
rs41347750	CD27 on IgD- CD38dim	ebi-a-GCST90001804	3	29246192	T	C	3657	0.34	0.07	0.00	0.01	20.39

rs2576344	CD27 on IgD- CD38dim	ebi-a-GCST90001804	3	104073058	A	T	3657	-0.15	0.03	0.00	0.01	20.94
rs76929865	CD27 on IgD- CD38dim	ebi-a-GCST90001804	3	31134534	C	A	3657	0.44	0.09	0.00	0.01	25.99
rs75918255	CD27 on IgD- CD38dim	ebi-a-GCST90001804	3	32945761	A	G	3657	0.42	0.07	0.00	0.01	38.93
rs112889714	CD27 on IgD- CD38dim	ebi-a-GCST90001804	3	127303399	A	G	3657	1.17	0.26	0.00	0.01	19.83
rs35574803	CD27 on IgD- CD38dim	ebi-a-GCST90001804	3	32533246	C	T	3657	0.66	0.05	0.00	0.04	156.41
rs2122701	CD27 on IgD- CD38dim	ebi-a-GCST90001804	4	137067847	T	C	3657	-0.11	0.02	0.00	0.01	20.70
rs112339885	CD27 on IgD- CD38dim	ebi-a-GCST90001804	5	79389016	C	T	3657	0.26	0.05	0.00	0.01	29.35
rs147388542	CD27 on IgD- CD38dim	ebi-a-GCST90001804	9	94318432	C	A	3657	0.75	0.16	0.00	0.01	20.96
rs158690	CD27 on IgD- CD38dim	ebi-a-GCST90001804	9	93656985	G	A	3657	0.18	0.04	0.00	0.01	22.57
rs12380722	CD27 on IgD- CD38dim	ebi-a-GCST90001804	9	6865096	T	C	3657	0.12	0.03	0.00	0.01	20.28
rs113711447	CD27 on IgD- CD38dim	ebi-a-GCST90001804	9	96510568	G	T	3657	-0.24	0.05	0.00	0.01	25.07
rs73030401	CD27 on IgD- CD38dim	ebi-a-GCST90001804	11	131947318	G	A	3657	0.79	0.17	0.00	0.01	20.53
rs25680	CD27 on IgD- CD38dim	ebi-a-GCST90001804	12	6554628	A	G	3657	-0.21	0.03	0.00	0.01	41.55
rs1532372	CD27 on IgD- CD38dim	ebi-a-GCST90001804	12	55016563	C	T	3657	-0.11	0.02	0.00	0.01	20.07
rs147714617	CD27 on IgD- CD38dim	ebi-a-GCST90001804	12	6605299	T	C	3657	0.26	0.04	0.00	0.01	50.64
rs12708463	CD27 on IgD- CD38dim	ebi-a-GCST90001804	15	60628064	A	G	3657	-0.11	0.02	0.00	0.01	20.59
rs888294	CD27 on IgD- CD38dim	ebi-a-GCST90001804	18	25214592	T	C	3657	0.17	0.04	0.00	0.01	20.52
rs183836759	CD27 on IgD- CD38dim	ebi-a-GCST90001804	19	15323100	T	A	3657	-0.42	0.09	0.00	0.01	21.27
rs11086984	CD27 on IgD- CD38dim	ebi-a-GCST90001804	20	44511627	T	C	3657	0.27	0.03	0.00	0.02	64.02
rs12625834	CD27 on IgD- CD38dim	ebi-a-GCST90001804	20	44949039	A	G	3657	-0.16	0.03	0.00	0.01	27.92
rs1883832	CD27 on IgD- CD38dim	ebi-a-GCST90001804	20	44746982	C	T	3657	-0.64	0.02	0.00	0.17	730.97
rs162076	CD27 on IgD- CD38dim	ebi-a-GCST90001804	20	46785499	A	G	3657	-0.16	0.02	0.00	0.01	43.42
rs847078	CD27 on IgD- CD38dim	ebi-a-GCST90001804	20	45170213	G	A	3657	0.22	0.05	0.00	0.01	21.99
rs141269963	CD27 on memory B	ebi-a-GCST90001805	1	99804475	G	A	3657	0.55	0.12	0.00	0.01	21.71
rs481818	CD27 on memory B	ebi-a-GCST90001805	1	234426306	C	T	3657	-0.20	0.04	0.00	0.01	21.59
rs75918255	CD27 on memory B	ebi-a-GCST90001805	3	32945761	A	G	3657	0.44	0.07	0.00	0.01	41.17
rs182174914	CD27 on memory B	ebi-a-GCST90001805	3	80085882	A	T	3657	-2.64	0.56	0.00	0.01	22.10
rs56237381	CD27 on memory B	ebi-a-GCST90001805	3	32924804	A	G	3657	0.43	0.08	0.00	0.01	30.86
rs2140755	CD27 on memory B	ebi-a-GCST90001805	3	65613051	G	T	3657	0.14	0.03	0.00	0.01	21.16
rs76929865	CD27 on memory B	ebi-a-GCST90001805	3	31134534	C	A	3657	0.41	0.09	0.00	0.01	22.31
rs2526388	CD27 on memory B	ebi-a-GCST90001805	3	50174886	C	T	3657	-0.13	0.03	0.00	0.01	22.44
rs35574803	CD27 on memory B	ebi-a-GCST90001805	3	32533246	C	T	3657	0.67	0.05	0.00	0.04	158.13
rs34177560	CD27 on memory B	ebi-a-GCST90001805	4	11141629	A	G	3657	-0.22	0.05	0.00	0.01	20.13
rs114976873	CD27 on memory B	ebi-a-GCST90001805	5	36783531	G	C	3657	0.42	0.08	0.00	0.01	29.53
rs4716387	CD27 on memory B	ebi-a-GCST90001805	6	170136777	C	G	3657	-0.20	0.04	0.00	0.01	20.82
rs486182	CD27 on memory B	ebi-a-GCST90001805	8	20806496	T	C	3657	-0.13	0.03	0.00	0.01	21.20
rs79308430	CD27 on memory B	ebi-a-GCST90001805	10	124542720	A	T	3657	0.33	0.07	0.00	0.01	22.03

rs2445333	CD27 on memory B	ebi-a-GCST90001805	11	5080234	C	T	3657	0.13	0.03	0.00	0.01	20.26
rs147714617	CD27 on memory B	ebi-a-GCST90001805	12	6605299	T	C	3657	0.26	0.04	0.00	0.01	46.41
rs25680	CD27 on memory B	ebi-a-GCST90001805	12	6554628	A	G	3657	-0.21	0.03	0.00	0.01	40.55
rs11865074	CD27 on memory B	ebi-a-GCST90001805	16	87903640	T	C	3657	0.28	0.06	0.00	0.01	19.78
rs528269417	CD27 on memory B	ebi-a-GCST90001805	17	48258285	G	A	3657	0.93	0.20	0.00	0.01	20.87
rs3174744	CD27 on memory B	ebi-a-GCST90001805	17	7322245	G	A	3657	0.12	0.03	0.00	0.01	20.07
rs150306315	CD27 on memory B	ebi-a-GCST90001805	19	16824730	A	T	3657	0.65	0.14	0.00	0.01	22.31
rs973446	CD27 on memory B	ebi-a-GCST90001805	20	44094375	G	C	3657	-0.20	0.04	0.00	0.01	28.95
rs11086984	CD27 on memory B	ebi-a-GCST90001805	20	44511627	T	C	3657	0.20	0.03	0.00	0.01	32.53
rs1883832	CD27 on memory B	ebi-a-GCST90001805	20	44746982	C	T	3657	-0.51	0.02	0.00	0.10	414.53
rs72485816	CD27 on memory B	ebi-a-GCST90001805	20	45314435	C	T	3657	-0.41	0.07	0.00	0.01	31.85
rs79645041	CD27 on memory B	ebi-a-GCST90001805	20	57678574	T	G	3657	1.53	0.34	0.00	0.01	19.98
rs112625026	CD27 on unsw mem	ebi-a-GCST90001806	1	212877210	G	T	3656	0.24	0.05	0.00	0.01	19.78
rs34101571	CD27 on unsw mem	ebi-a-GCST90001806	1	31211894	A	G	3656	-0.37	0.08	0.00	0.01	21.15
rs1801274	CD27 on unsw mem	ebi-a-GCST90001806	1	161479745	G	A	3656	-0.16	0.03	0.00	0.01	35.24
rs72625293	CD27 on unsw mem	ebi-a-GCST90001806	2	185499138	C	T	3656	-0.22	0.04	0.00	0.01	22.95
rs75765646	CD27 on unsw mem	ebi-a-GCST90001806	2	6446274	G	T	3656	0.21	0.04	0.00	0.01	22.14
rs76929865	CD27 on unsw mem	ebi-a-GCST90001806	3	31134534	C	A	3656	0.46	0.09	0.00	0.01	28.21
rs35574803	CD27 on unsw mem	ebi-a-GCST90001806	3	32533246	C	T	3656	0.75	0.05	0.00	0.05	197.83
rs75918255	CD27 on unsw mem	ebi-a-GCST90001806	3	32945761	A	G	3656	0.51	0.07	0.00	0.02	55.85
rs144642376	CD27 on unsw mem	ebi-a-GCST90001806	3	36349691	G	A	3656	0.27	0.05	0.00	0.01	30.34
rs56237381	CD27 on unsw mem	ebi-a-GCST90001806	3	32924804	A	G	3656	0.44	0.08	0.00	0.01	32.32
rs6777433	CD27 on unsw mem	ebi-a-GCST90001806	3	33165436	A	T	3656	-0.16	0.03	0.00	0.01	22.40
rs12651722	CD27 on unsw mem	ebi-a-GCST90001806	5	161994889	G	A	3656	-0.13	0.03	0.00	0.01	21.64
rs36667	CD27 on unsw mem	ebi-a-GCST90001806	5	36746983	A	C	3656	0.36	0.08	0.00	0.01	22.15
rs11769145	CD27 on unsw mem	ebi-a-GCST90001806	7	70704068	C	T	3656	0.18	0.04	0.00	0.01	22.03
rs6997361	CD27 on unsw mem	ebi-a-GCST90001806	8	8349757	T	C	3656	0.16	0.03	0.00	0.01	22.00
rs11007079	CD27 on unsw mem	ebi-a-GCST90001806	10	28679045	T	C	3656	-0.18	0.04	0.00	0.01	21.94
rs143164248	CD27 on unsw mem	ebi-a-GCST90001806	10	28945318	A	G	3656	0.24	0.05	0.00	0.01	21.57
rs25680	CD27 on unsw mem	ebi-a-GCST90001806	12	6554628	A	G	3656	-0.26	0.03	0.00	0.02	61.20
rs147714617	CD27 on unsw mem	ebi-a-GCST90001806	12	6605299	T	C	3656	0.25	0.04	0.00	0.01	43.64
rs138260228	CD27 on unsw mem	ebi-a-GCST90001806	14	29256374	T	C	3656	-1.07	0.21	0.00	0.01	25.27
rs709589	CD27 on unsw mem	ebi-a-GCST90001806	14	106306841	T	C	3656	-0.18	0.03	0.00	0.01	30.98
rs72812418	CD27 on unsw mem	ebi-a-GCST90001806	16	46869339	T	G	3656	-0.57	0.13	0.00	0.01	20.33
rs72802982	CD27 on unsw mem	ebi-a-GCST90001806	16	78165161	A	G	3656	-0.12	0.03	0.00	0.01	20.58
rs369017459	CD27 on unsw mem	ebi-a-GCST90001806	16	33471549	A	C	3656	-0.65	0.14	0.00	0.01	21.40
rs117896307	CD27 on unsw mem	ebi-a-GCST90001806	18	70433020	C	T	3656	-0.25	0.06	0.00	0.01	19.76

rs162076	CD27 on unsw mem	ebi-a-GCST90001806	20	46785499	A	G	3656	-0.12	0.03	0.00	0.01	22.89
rs6112686	CD27 on unsw mem	ebi-a-GCST90001806	20	2047479	G	A	3656	-0.14	0.03	0.00	0.01	19.79
rs11086984	CD27 on unsw mem	ebi-a-GCST90001806	20	44511627	T	C	3656	0.20	0.03	0.00	0.01	32.52
rs4810485	CD27 on unsw mem	ebi-a-GCST90001806	20	44747947	G	T	3656	-0.48	0.02	0.00	0.09	366.42
rs72645230	CD27 on unsw mem	ebi-a-GCST90001806	20	46242688	G	C	3656	-0.25	0.04	0.00	0.01	32.71
rs4253791	CD27 on unsw mem	ebi-a-GCST90001806	22	46585927	A	T	3656	0.70	0.16	0.00	0.01	20.19
rs112481165	CD27 on PB/PC	ebi-a-GCST90001807	1	247244688	A	G	3651	0.18	0.04	0.00	0.01	21.43
rs183873886	CD27 on PB/PC	ebi-a-GCST90001807	1	79837189	T	C	3651	3.14	0.70	0.00	0.01	20.10
rs115601228	CD27 on PB/PC	ebi-a-GCST90001807	1	195070886	A	G	3651	-0.20	0.04	0.00	0.01	20.58
rs4657041	CD27 on PB/PC	ebi-a-GCST90001807	1	161478859	C	T	3651	-0.15	0.03	0.00	0.01	33.04
rs10910352	CD27 on PB/PC	ebi-a-GCST90001807	1	234267536	A	G	3651	-0.11	0.02	0.00	0.01	22.73
rs34020577	CD27 on PB/PC	ebi-a-GCST90001807	4	175917268	A	T	3651	0.14	0.03	0.00	0.01	23.61
rs76112278	CD27 on PB/PC	ebi-a-GCST90001807	4	15915069	A	G	3651	0.43	0.09	0.00	0.01	23.31
rs112881275	CD27 on PB/PC	ebi-a-GCST90001807	5	16006239	G	T	3651	1.30	0.29	0.00	0.01	19.96
rs6882346	CD27 on PB/PC	ebi-a-GCST90001807	5	121749877	T	G	3651	0.12	0.03	0.00	0.01	20.32
rs12528717	CD27 on PB/PC	ebi-a-GCST90001807	6	39028606	T	A	3651	-0.18	0.04	0.00	0.01	20.23
rs34850955	CD27 on PB/PC	ebi-a-GCST90001807	7	69588970	T	C	3651	0.22	0.05	0.00	0.01	19.59
rs73202627	CD27 on PB/PC	ebi-a-GCST90001807	8	12580949	C	T	3651	0.15	0.03	0.00	0.01	21.82
rs11782223	CD27 on PB/PC	ebi-a-GCST90001807	8	139337902	T	C	3651	-0.14	0.03	0.00	0.01	20.65
rs960984	CD27 on PB/PC	ebi-a-GCST90001807	12	55344683	T	C	3651	-0.22	0.04	0.00	0.01	29.73
rs56221723	CD27 on PB/PC	ebi-a-GCST90001807	14	31280307	T	G	3651	0.15	0.03	0.00	0.01	19.57
rs8059711	CD27 on PB/PC	ebi-a-GCST90001807	16	87016628	C	G	3651	-0.18	0.04	0.00	0.01	23.58
rs1077349	CD27 on PB/PC	ebi-a-GCST90001807	20	57072098	A	G	3651	0.13	0.03	0.00	0.01	22.58
rs185015514	CD27 on PB/PC	ebi-a-GCST90001807	20	32288479	T	C	3651	0.94	0.21	0.00	0.01	19.85
rs10427757	CD27 on PB/PC	ebi-a-GCST90001807	22	37419582	G	A	3651	-0.18	0.04	0.00	0.01	19.72
rs34101571	CD27 on sw mem	ebi-a-GCST90001808	1	31211894	A	G	3657	-0.54	0.08	0.00	0.01	45.14
rs115383596	CD27 on sw mem	ebi-a-GCST90001808	1	99399788	C	T	3657	0.32	0.07	0.00	0.01	21.28
rs12727962	CD27 on sw mem	ebi-a-GCST90001808	1	31686211	G	C	3657	-0.36	0.08	0.00	0.01	21.30
rs75392984	CD27 on sw mem	ebi-a-GCST90001808	1	20290573	T	G	3657	-0.17	0.04	0.00	0.01	20.74
rs12129123	CD27 on sw mem	ebi-a-GCST90001808	1	10083709	T	C	3657	0.15	0.03	0.00	0.01	23.73
rs1801274	CD27 on sw mem	ebi-a-GCST90001808	1	161479745	G	A	3657	-0.29	0.03	0.00	0.03	123.83
rs144642376	CD27 on sw mem	ebi-a-GCST90001808	3	36349691	G	A	3657	0.28	0.05	0.00	0.01	31.93
rs115933247	CD27 on sw mem	ebi-a-GCST90001808	3	107086449	T	C	3657	0.51	0.11	0.00	0.01	21.83
rs12495781	CD27 on sw mem	ebi-a-GCST90001808	3	127619207	C	T	3657	-0.12	0.03	0.00	0.01	21.19
rs35574803	CD27 on sw mem	ebi-a-GCST90001808	3	32533246	C	T	3657	0.70	0.05	0.00	0.05	173.24
rs75918255	CD27 on sw mem	ebi-a-GCST90001808	3	32945761	A	G	3657	0.48	0.07	0.00	0.01	49.72
rs7621492	CD27 on sw mem	ebi-a-GCST90001808	3	32302456	A	G	3657	0.18	0.04	0.00	0.01	20.01

rs76929865	CD27 on sw mem	ebi-a-GCST90001808	3	31134534	C	A	3657	0.45	0.09	0.00	0.01	26.90
rs116522219	CD27 on sw mem	ebi-a-GCST90001808	3	36625286	A	G	3657	0.28	0.06	0.00	0.01	20.59
rs9885107	CD27 on sw mem	ebi-a-GCST90001808	5	117207047	A	G	3657	0.23	0.05	0.00	0.01	20.88
rs112339885	CD27 on sw mem	ebi-a-GCST90001808	5	79389016	C	T	3657	0.21	0.05	0.00	0.01	19.81
rs10816146	CD27 on sw mem	ebi-a-GCST90001808	9	9594355	T	C	3657	-0.39	0.09	0.00	0.01	19.70
rs141876897	CD27 on sw mem	ebi-a-GCST90001808	9	94241794	A	T	3657	0.76	0.17	0.00	0.01	21.27
rs143164248	CD27 on sw mem	ebi-a-GCST90001808	10	28945318	A	G	3657	0.23	0.05	0.00	0.01	21.37
rs73030401	CD27 on sw mem	ebi-a-GCST90001808	11	131947318	G	A	3657	0.83	0.18	0.00	0.01	22.15
rs34139704	CD27 on sw mem	ebi-a-GCST90001808	12	106279933	C	T	3657	-0.19	0.04	0.00	0.01	21.25
rs147714617	CD27 on sw mem	ebi-a-GCST90001808	12	6605299	T	C	3657	0.30	0.04	0.00	0.02	63.64
rs61927692	CD27 on sw mem	ebi-a-GCST90001808	12	47529273	T	C	3657	0.37	0.08	0.00	0.01	21.69
rs25680	CD27 on sw mem	ebi-a-GCST90001808	12	6554628	A	G	3657	-0.31	0.03	0.00	0.02	90.18
rs7179434	CD27 on sw mem	ebi-a-GCST90001808	15	22523362	A	C	3657	0.61	0.13	0.00	0.01	21.06
rs11086984	CD27 on sw mem	ebi-a-GCST90001808	20	44511627	T	C	3657	0.28	0.03	0.00	0.02	63.39
rs1883832	CD27 on sw mem	ebi-a-GCST90001808	20	44746982	C	T	3657	-0.59	0.02	0.00	0.14	575.57
rs4810496	CD27 on sw mem	ebi-a-GCST90001808	20	44954283	A	G	3657	-0.14	0.03	0.00	0.01	23.23
rs9989924	CD27 on sw mem	ebi-a-GCST90001808	20	42019380	C	T	3657	0.13	0.03	0.00	0.01	24.89
rs973446	CD27 on sw mem	ebi-a-GCST90001808	20	44094375	G	C	3657	-0.19	0.04	0.00	0.01	26.77
rs162076	CD27 on sw mem	ebi-a-GCST90001808	20	46785499	A	G	3657	-0.16	0.03	0.00	0.01	42.34
rs2811620	CD38 on CD20-	ebi-a-GCST90001809	1	37871985	T	C	3630	-0.16	0.04	0.00	0.01	19.97
rs61742836	CD38 on CD20-	ebi-a-GCST90001809	3	100364914	A	G	3630	-0.69	0.15	0.00	0.01	21.68
rs76310795	CD38 on CD20-	ebi-a-GCST90001809	4	122189884	A	G	3630	-0.20	0.04	0.00	0.01	23.18
rs79971636	CD38 on CD20-	ebi-a-GCST90001809	4	35097278	T	C	3630	-0.15	0.03	0.00	0.01	20.11
rs56693306	CD38 on CD20-	ebi-a-GCST90001809	4	4063900	G	A	3630	-0.53	0.12	0.00	0.01	20.01
rs7679041	CD38 on CD20-	ebi-a-GCST90001809	4	13722729	A	G	3630	-0.12	0.03	0.00	0.01	20.76
rs55821920	CD38 on CD20-	ebi-a-GCST90001809	5	146552726	T	C	3630	-0.49	0.11	0.00	0.01	21.04
rs3117290	CD38 on CD20-	ebi-a-GCST90001809	6	29649944	G	T	3630	-0.15	0.03	0.00	0.01	19.63
rs28452034	CD38 on CD20-	ebi-a-GCST90001809	8	97029284	A	G	3630	-0.68	0.14	0.00	0.01	22.36
rs7018225	CD38 on CD20-	ebi-a-GCST90001809	8	131361477	T	C	3630	-0.11	0.02	0.00	0.01	20.99
rs28756677	CD38 on CD20-	ebi-a-GCST90001809	9	140135216	C	T	3630	0.14	0.03	0.00	0.01	19.91
rs55720255	CD38 on CD20-	ebi-a-GCST90001809	9	113328755	C	T	3630	0.16	0.04	0.00	0.01	20.80
rs35709687	CD38 on CD20-	ebi-a-GCST90001809	11	123396674	C	G	3630	-0.13	0.03	0.00	0.01	24.13
rs10743387	CD38 on CD20-	ebi-a-GCST90001809	12	20807481	A	C	3630	-0.12	0.03	0.00	0.01	23.97
rs117775298	CD38 on CD20-	ebi-a-GCST90001809	12	103684673	A	G	3630	0.23	0.05	0.00	0.01	19.98
rs1838357	CD38 on CD20-	ebi-a-GCST90001809	13	93740906	A	G	3630	0.12	0.03	0.00	0.01	21.48
rs34259829	CD38 on CD20-	ebi-a-GCST90001809	17	60126189	G	A	3630	0.50	0.10	0.00	0.01	24.54
rs11663828	CD38 on CD20-	ebi-a-GCST90001809	18	64848183	T	G	3630	-0.16	0.03	0.00	0.01	20.52

rs2628482	CD38 on CD20-	ebi-a-GCST90001809	20	3507317	G	A	3630	0.29	0.06	0.00	0.01	20.43
rs5996804	CD38 on CD20-	ebi-a-GCST90001809	22	25369319	T	C	3630	-0.11	0.02	0.00	0.01	20.20
rs78814315	CD38 on CD3- CD19-	ebi-a-GCST90001810	1	23729223	T	C	1834	-0.83	0.18	0.00	0.01	22.18
rs7522863	CD38 on CD3- CD19-	ebi-a-GCST90001810	1	39385086	C	A	1834	0.32	0.07	0.00	0.01	22.86
rs79113171	CD38 on CD3- CD19-	ebi-a-GCST90001810	3	145525293	A	G	1834	-0.51	0.10	0.00	0.01	26.09
rs76112278	CD38 on CD3- CD19-	ebi-a-GCST90001810	4	15915069	A	G	1834	-0.63	0.13	0.00	0.01	22.98
rs76476334	CD38 on CD3- CD19-	ebi-a-GCST90001810	4	14111959	G	A	1834	-0.91	0.18	0.00	0.01	25.90
rs9292443	CD38 on CD3- CD19-	ebi-a-GCST90001810	5	31805341	C	T	1834	0.16	0.04	0.00	0.01	20.48
rs139249541	CD38 on CD3- CD19-	ebi-a-GCST90001810	6	102294761	G	A	1834	-0.43	0.09	0.00	0.01	21.13
rs79251210	CD38 on CD3- CD19-	ebi-a-GCST90001810	6	100468602	A	G	1834	-0.46	0.09	0.00	0.02	28.80
rs3807839	CD38 on CD3- CD19-	ebi-a-GCST90001810	7	8191966	C	T	1834	-0.23	0.05	0.00	0.01	21.29
rs2050811	CD38 on CD3- CD19-	ebi-a-GCST90001810	10	128915719	A	G	1834	0.40	0.09	0.00	0.01	20.89
rs112430743	CD38 on CD3- CD19-	ebi-a-GCST90001810	10	23725269	C	A	1834	-0.74	0.16	0.00	0.01	20.03
rs7919742	CD38 on CD3- CD19-	ebi-a-GCST90001810	10	61273488	T	G	1834	0.19	0.04	0.00	0.01	20.05
rs548316	CD38 on CD3- CD19-	ebi-a-GCST90001810	11	128077683	A	G	1834	-0.20	0.03	0.00	0.02	34.02
rs1920695	CD38 on CD3- CD19-	ebi-a-GCST90001810	12	42348524	C	T	1834	-0.54	0.12	0.00	0.01	20.02
rs4781564	CD38 on CD3- CD19-	ebi-a-GCST90001810	16	14128524	T	C	1834	0.17	0.04	0.00	0.01	21.11
rs12979358	CD38 on CD3- CD19-	ebi-a-GCST90001810	19	54906099	T	C	1834	-0.16	0.04	0.00	0.01	20.57
rs62121123	CD38 on CD3- CD19-	ebi-a-GCST90001810	19	18166559	C	T	1834	-0.18	0.04	0.00	0.01	19.72
rs9637082	CD38 on CD3- CD19-	ebi-a-GCST90001810	21	21213236	T	C	1834	-0.47	0.11	0.00	0.01	20.01
rs12032479	CD38 on IgD+ CD24-	ebi-a-GCST90001811	1	194997589	T	C	3656	-0.16	0.03	0.00	0.01	22.42
rs142962704	CD38 on IgD+ CD24-	ebi-a-GCST90001811	3	128075585	T	C	3656	1.00	0.21	0.00	0.01	23.09
rs79300919	CD38 on IgD+ CD24-	ebi-a-GCST90001811	3	14288322	A	G	3656	0.39	0.09	0.00	0.01	20.21
rs572542	CD38 on IgD+ CD24-	ebi-a-GCST90001811	4	14029370	T	C	3656	-0.35	0.07	0.00	0.01	22.76
rs76112278	CD38 on IgD+ CD24-	ebi-a-GCST90001811	4	15915069	A	G	3656	-0.78	0.09	0.00	0.02	75.79
rs28393044	CD38 on IgD+ CD24-	ebi-a-GCST90001811	4	157437839	G	C	3656	0.31	0.07	0.00	0.01	19.76
rs115062208	CD38 on IgD+ CD24-	ebi-a-GCST90001811	4	15956227	G	A	3656	-0.70	0.12	0.00	0.01	33.43
rs76354299	CD38 on IgD+ CD24-	ebi-a-GCST90001811	4	15037408	A	G	3656	-0.36	0.07	0.00	0.01	26.70
rs6895789	CD38 on IgD+ CD24-	ebi-a-GCST90001811	5	91363908	T	C	3656	-0.16	0.03	0.00	0.01	22.15
rs2516708	CD38 on IgD+ CD24-	ebi-a-GCST90001811	6	30228721	A	G	3656	0.13	0.03	0.00	0.01	23.88
rs1878808	CD38 on IgD+ CD24-	ebi-a-GCST90001811	7	3020375	T	C	3656	-0.11	0.02	0.00	0.01	21.24
rs72715691	CD38 on IgD+ CD24-	ebi-a-GCST90001811	9	15034791	T	A	3656	-0.49	0.11	0.00	0.01	20.08
rs11042077	CD38 on IgD+ CD24-	ebi-a-GCST90001811	11	8825966	A	G	3656	0.12	0.03	0.00	0.01	23.83
rs9599916	CD38 on IgD+ CD24-	ebi-a-GCST90001811	13	72594895	G	A	3656	0.14	0.03	0.00	0.01	21.98
rs17179337	CD38 on IgD+ CD24-	ebi-a-GCST90001811	14	38174359	G	A	3656	0.12	0.03	0.00	0.01	22.24
rs147970068	CD38 on IgD+ CD24-	ebi-a-GCST90001811	14	87885710	T	G	3656	-0.54	0.12	0.00	0.01	19.59
rs78111008	CD38 on IgD+ CD24-	ebi-a-GCST90001811	20	12142943	C	T	3656	-0.73	0.16	0.00	0.01	20.43

rs115109055	CD38 on IgD+ CD38br	ebi-a-GCST90001812	1	17640731	T	C	3652	0.49	0.11	0.00	0.01	20.15
rs137987320	CD38 on IgD+ CD38br	ebi-a-GCST90001812	4	8469228	A	G	3652	-0.38	0.08	0.00	0.01	20.16
rs186090691	CD38 on IgD+ CD38br	ebi-a-GCST90001812	4	8970919	A	C	3652	-0.79	0.14	0.00	0.01	32.42
rs76112278	CD38 on IgD+ CD38br	ebi-a-GCST90001812	4	15915069	A	G	3652	-0.77	0.09	0.00	0.02	75.41
rs138847726	CD38 on IgD+ CD38br	ebi-a-GCST90001812	4	13020910	T	C	3652	-0.37	0.08	0.00	0.01	21.78
rs807784	CD38 on IgD+ CD38br	ebi-a-GCST90001812	4	13906853	T	G	3652	0.32	0.05	0.00	0.01	37.85
rs115062208	CD38 on IgD+ CD38br	ebi-a-GCST90001812	4	15956227	G	A	3652	-0.58	0.12	0.00	0.01	23.65
rs527979176	CD38 on IgD+ CD38br	ebi-a-GCST90001812	6	67366861	G	T	3652	-0.31	0.07	0.00	0.01	22.17
rs113933327	CD38 on IgD+ CD38br	ebi-a-GCST90001812	6	162656478	A	G	3652	-0.83	0.17	0.00	0.01	24.02
rs139833260	CD38 on IgD+ CD38br	ebi-a-GCST90001812	7	119003006	A	G	3652	0.36	0.08	0.00	0.01	21.15
rs186547410	CD38 on IgD+ CD38br	ebi-a-GCST90001812	10	30612367	A	C	3652	0.50	0.09	0.00	0.01	28.67
rs145666904	CD38 on IgD+ CD38br	ebi-a-GCST90001812	11	119050896	T	C	3652	1.09	0.24	0.00	0.01	20.39
rs4842778	CD38 on IgD+ CD38br	ebi-a-GCST90001812	12	91960674	A	T	3652	-0.11	0.02	0.00	0.01	20.03
rs7139178	CD38 on IgD+ CD38br	ebi-a-GCST90001812	12	129446340	A	G	3652	0.12	0.03	0.00	0.01	20.67
rs79666361	CD38 on IgD+ CD38br	ebi-a-GCST90001812	17	10055216	T	C	3652	-0.32	0.07	0.00	0.01	20.70
rs62060138	CD38 on IgD+ CD38br	ebi-a-GCST90001812	17	48408733	T	C	3652	-0.22	0.05	0.00	0.01	22.64
rs2058344	CD38 on IgD+ CD38br	ebi-a-GCST90001812	18	59117964	A	G	3652	-0.31	0.06	0.00	0.01	23.17
rs34022324	CD38 on IgD+ CD38br	ebi-a-GCST90001812	19	14567159	G	A	3652	-0.13	0.03	0.00	0.01	20.50
rs79277914	CD38 on IgD+ CD38br	ebi-a-GCST90001812	20	61698841	A	G	3652	-0.53	0.12	0.00	0.01	19.94
rs73367318	CD38 on IgD+ CD38br	ebi-a-GCST90001812	21	43441479	A	G	3652	-0.19	0.04	0.00	0.01	20.84
rs10737766	CD38 on IgD+ CD38br	ebi-a-GCST90001813	1	116770372	T	A	3654	-0.15	0.03	0.00	0.01	22.10
rs16858021	CD38 on IgD+ CD38br	ebi-a-GCST90001813	1	181677633	A	G	3654	0.16	0.03	0.00	0.01	21.20
rs151139674	CD38 on IgD+ CD38br	ebi-a-GCST90001813	1	36764904	T	G	3654	0.20	0.04	0.00	0.01	22.83
rs140874823	CD38 on IgD+ CD38br	ebi-a-GCST90001813	2	5755140	C	A	3654	0.43	0.10	0.00	0.01	20.55
rs55770731	CD38 on IgD+ CD38br	ebi-a-GCST90001813	2	211744617	G	A	3654	-0.12	0.03	0.00	0.01	20.28
rs16867231	CD38 on IgD+ CD38br	ebi-a-GCST90001813	2	181050023	A	G	3654	-0.56	0.12	0.00	0.01	22.36
rs115062208	CD38 on IgD+ CD38br	ebi-a-GCST90001813	4	15956227	G	A	3654	-0.90	0.12	0.00	0.01	54.68
rs76112278	CD38 on IgD+ CD38br	ebi-a-GCST90001813	4	15915069	A	G	3654	-1.07	0.09	0.00	0.04	141.93
rs115636025	CD38 on IgD+ CD38br	ebi-a-GCST90001813	4	9452383	T	A	3654	-0.62	0.14	0.00	0.01	20.69
rs76354299	CD38 on IgD+ CD38br	ebi-a-GCST90001813	4	15037408	A	G	3654	-0.50	0.07	0.00	0.01	51.65
rs78416268	CD38 on IgD+ CD38br	ebi-a-GCST90001813	4	55880433	A	G	3654	-0.22	0.05	0.00	0.01	20.98
rs572542	CD38 on IgD+ CD38br	ebi-a-GCST90001813	4	14029370	T	C	3654	-0.47	0.07	0.00	0.01	41.18
rs4235009	CD38 on IgD+ CD38br	ebi-a-GCST90001813	4	26233819	A	G	3654	0.48	0.10	0.00	0.01	21.94
rs76551277	CD38 on IgD+ CD38br	ebi-a-GCST90001813	5	91499761	C	A	3654	-0.20	0.04	0.00	0.01	20.28
rs62405562	CD38 on IgD+ CD38br	ebi-a-GCST90001813	6	32451834	G	A	3654	-0.14	0.03	0.00	0.01	23.42
rs117455593	CD38 on IgD+ CD38br	ebi-a-GCST90001813	6	169449285	A	G	3654	0.38	0.08	0.00	0.01	20.33
rs11763462	CD38 on IgD+	ebi-a-GCST90001813	7	130342978	G	A	3654	0.14	0.03	0.00	0.01	21.08

rs79340798	CD38 on IgD+	ebi-a-GCST90001813	8	90861273	A	G	3654	-0.51	0.11	0.00	0.01	19.76
rs12764658	CD38 on IgD+	ebi-a-GCST90001813	10	69890943	T	C	3654	0.16	0.03	0.00	0.01	24.16
rs79411094	CD38 on IgD+	ebi-a-GCST90001813	11	20181876	A	G	3654	0.76	0.17	0.00	0.01	20.00
rs138459438	CD38 on IgD+	ebi-a-GCST90001813	12	18290606	A	G	3654	-0.25	0.05	0.00	0.01	24.69
rs80148042	CD38 on IgD+	ebi-a-GCST90001813	13	72776004	A	C	3654	-1.27	0.27	0.00	0.01	21.74
rs1409571	CD38 on IgD+	ebi-a-GCST90001813	13	72672465	A	C	3654	-0.14	0.03	0.00	0.01	21.41
rs75416382	CD38 on IgD+	ebi-a-GCST90001813	15	89292965	C	T	3654	0.58	0.13	0.00	0.01	20.30
rs141365416	CD38 on IgD-CD38br	ebi-a-GCST90001814	1	102236814	T	C	3644	2.38	0.51	0.00	0.01	22.20
rs116152899	CD38 on IgD-CD38br	ebi-a-GCST90001814	2	1833668	T	C	3644	-1.09	0.23	0.00	0.01	22.53
rs141403650	CD38 on IgD-CD38br	ebi-a-GCST90001814	3	3381223	C	T	3644	0.95	0.21	0.00	0.01	19.99
rs115860771	CD38 on IgD-CD38br	ebi-a-GCST90001814	5	176167900	A	G	3644	-0.27	0.06	0.00	0.01	20.13
rs706295	CD38 on IgD-CD38br	ebi-a-GCST90001814	5	14767502	G	A	3644	0.11	0.03	0.00	0.01	20.44
rs145546485	CD38 on IgD-CD38br	ebi-a-GCST90001814	5	56047410	T	C	3644	3.83	0.86	0.00	0.01	20.04
rs145388152	CD38 on IgD-CD38br	ebi-a-GCST90001814	6	4347705	A	G	3644	1.94	0.39	0.00	0.01	25.21
rs144135856	CD38 on IgD-CD38br	ebi-a-GCST90001814	9	129618074	T	C	3644	-4.57	1.00	0.00	0.01	21.09
rs7933950	CD38 on IgD-CD38br	ebi-a-GCST90001814	11	97355697	G	T	3644	-0.45	0.10	0.00	0.01	19.77
rs58557469	CD38 on IgD-CD38br	ebi-a-GCST90001814	11	37862120	T	A	3644	-0.13	0.03	0.00	0.01	23.96
rs6420407	CD38 on IgD-CD38br	ebi-a-GCST90001814	16	78856580	A	C	3644	-0.13	0.03	0.00	0.01	19.90
rs145853751	CD38 on IgD-CD38br	ebi-a-GCST90001814	17	65601110	A	G	3644	-0.27	0.06	0.00	0.01	20.00
rs11668091	CD38 on IgD-CD38br	ebi-a-GCST90001814	19	51583553	C	T	3644	-0.16	0.03	0.00	0.01	21.97
rs10421176	CD38 on IgD-CD38br	ebi-a-GCST90001814	19	13425338	A	C	3644	-0.13	0.03	0.00	0.01	23.43
rs17777402	CD38 on IgD-CD38br	ebi-a-GCST90001814	20	5256339	T	C	3644	-0.13	0.03	0.00	0.01	19.99
rs35188742	CD38 on IgD-CD38dim	ebi-a-GCST90001815	2	221344098	T	A	3657	0.26	0.06	0.00	0.01	19.81
rs73230764	CD38 on IgD-CD38dim	ebi-a-GCST90001815	4	17289610	C	T	3657	-0.22	0.05	0.00	0.01	20.60
rs115062208	CD38 on IgD-CD38dim	ebi-a-GCST90001815	4	15956227	G	A	3657	-0.89	0.12	0.00	0.02	57.98
rs76112278	CD38 on IgD-CD38dim	ebi-a-GCST90001815	4	15915069	A	G	3657	-0.92	0.09	0.00	0.03	112.75
rs76354299	CD38 on IgD-CD38dim	ebi-a-GCST90001815	4	15037408	A	G	3657	-0.46	0.07	0.00	0.01	46.76
rs151006904	CD38 on IgD-CD38dim	ebi-a-GCST90001815	5	126906954	T	G	3657	-0.62	0.14	0.00	0.01	20.05
rs9378446	CD38 on IgD-CD38dim	ebi-a-GCST90001815	6	5895137	C	A	3657	0.15	0.03	0.00	0.01	20.87
rs13209828	CD38 on IgD-CD38dim	ebi-a-GCST90001815	6	92746910	C	T	3657	-0.18	0.04	0.00	0.01	25.01
rs183168900	CD38 on IgD-CD38dim	ebi-a-GCST90001815	7	22539219	C	T	3657	2.80	0.61	0.00	0.01	20.91
rs75699914	CD38 on IgD-CD38dim	ebi-a-GCST90001815	8	114698755	G	C	3657	-0.13	0.03	0.00	0.01	19.63
rs141885962	CD38 on IgD-CD38dim	ebi-a-GCST90001815	10	66791343	C	A	3657	-0.53	0.11	0.00	0.01	21.38
rs80089599	CD38 on IgD-CD38dim	ebi-a-GCST90001815	12	18183604	A	T	3657	1.25	0.27	0.00	0.01	21.92
rs143554453	CD38 on IgD-CD38dim	ebi-a-GCST90001815	12	12727024	C	T	3657	-0.79	0.16	0.00	0.01	24.65
rs74694612	CD38 on IgD-CD38dim	ebi-a-GCST90001815	13	36783592	T	C	3657	0.94	0.21	0.00	0.01	20.41
rs9544468	CD38 on IgD-CD38dim	ebi-a-GCST90001815	13	77933504	T	G	3657	-0.40	0.09	0.00	0.01	21.64

rs17410241	CD38 on IgD- CD38dim	ebi-a-GCST90001815	14	34190494	A	G	3657	-0.11	0.02	0.00	0.01	19.76
rs13331697	CD38 on IgD- CD38dim	ebi-a-GCST90001815	16	81910840	A	G	3657	-0.19	0.04	0.00	0.01	28.86
rs55943003	CD38 on IgD- CD38dim	ebi-a-GCST90001815	18	52754086	A	G	3657	-0.13	0.03	0.00	0.01	21.94
rs6115163	CD38 on IgD- CD38dim	ebi-a-GCST90001815	20	2590100	C	A	3657	-0.64	0.13	0.00	0.01	22.55
rs373925792	CD38 on IgD- CD38dim	ebi-a-GCST90001815	21	46707932	T	G	3657	-0.36	0.08	0.00	0.01	19.82
rs147563555	CD38 on IgD- CD38dim CD38 on	ebi-a-GCST90001815	22	30044036	G	C	3657	2.40	0.50	0.00	0.01	23.12
rs10737766	naive-mature B cell CD38 on	ebi-a-GCST90001816	1	116770372	T	A	3656	-0.14	0.03	0.00	0.01	20.65
rs12032479	naive-mature B cell CD38 on	ebi-a-GCST90001816	1	194997589	T	C	3656	-0.17	0.03	0.00	0.01	27.81
rs7579256	naive-mature B cell CD38 on	ebi-a-GCST90001816	2	36938218	T	C	3656	0.27	0.06	0.00	0.01	19.73
rs139476939	naive-mature B cell CD38 on	ebi-a-GCST90001816	2	28422630	C	T	3656	0.62	0.14	0.00	0.01	19.65
rs76354299	naive-mature B cell CD38 on	ebi-a-GCST90001816	4	15037408	A	G	3656	-0.42	0.07	0.00	0.01	36.51
rs115062208	naive-mature B cell CD38 on	ebi-a-GCST90001816	4	15956227	G	A	3656	-0.79	0.12	0.00	0.01	43.25
rs13118578	naive-mature B cell CD38 on	ebi-a-GCST90001816	4	26202275	G	T	3656	-0.54	0.12	0.00	0.01	20.05
rs76112278	naive-mature B cell CD38 on	ebi-a-GCST90001816	4	15915069	A	G	3656	-0.87	0.09	0.00	0.03	96.37
rs572542	naive-mature B cell CD38 on	ebi-a-GCST90001816	4	14029370	T	C	3656	-0.40	0.07	0.00	0.01	29.71
rs6895789	naive-mature B cell CD38 on	ebi-a-GCST90001816	5	91363908	T	C	3656	-0.17	0.03	0.00	0.01	22.94
rs34893127	naive-mature B cell CD38 on	ebi-a-GCST90001816	5	67123177	G	A	3656	-0.14	0.03	0.00	0.01	19.71
rs10073475	naive-mature B cell CD38 on	ebi-a-GCST90001816	5	77504427	C	T	3656	-0.12	0.03	0.00	0.01	22.45
rs78026509	naive-mature B cell CD38 on	ebi-a-GCST90001816	6	30074310	G	C	3656	-0.14	0.03	0.00	0.01	21.36
rs73012119	naive-mature B cell CD38 on	ebi-a-GCST90001816	6	158951296	G	T	3656	0.19	0.04	0.00	0.01	20.52
rs753875	naive-mature B cell CD38 on	ebi-a-GCST90001816	6	170583341	C	T	3656	0.40	0.09	0.00	0.01	20.31
rs76209777	naive-mature B cell CD38 on	ebi-a-GCST90001816	8	1277613	G	A	3656	-0.21	0.05	0.00	0.01	19.58
rs72715691	naive-mature B cell CD38 on	ebi-a-GCST90001816	9	15034791	T	A	3656	-0.49	0.11	0.00	0.01	20.33
rs146407097	naive-mature B cell CD38 on	ebi-a-GCST90001816	9	34935516	A	G	3656	-0.25	0.05	0.00	0.01	22.76
rs11042077	naive-mature B cell CD38 on	ebi-a-GCST90001816	11	8825966	A	G	3656	0.12	0.03	0.00	0.01	23.55
rs12428439	naive-mature B cell	ebi-a-GCST90001816	13	59808190	G	T	3656	0.12	0.03	0.00	0.01	22.65

rs9599916	CD38 on naive-mature B cell	ebi-a-GCST90001816	13	72594895	G	A	3656	0.14	0.03	0.00	0.01	21.77
rs77636066	CD38 on naive-mature B cell	ebi-a-GCST90001816	13	94914513	T	G	3656	2.10	0.44	0.00	0.01	22.98
rs12435334	CD38 on naive-mature B cell	ebi-a-GCST90001816	14	38169407	A	C	3656	0.11	0.03	0.00	0.01	20.31
rs11853686	CD38 on naive-mature B cell	ebi-a-GCST90001816	15	24189756	A	T	3656	0.17	0.04	0.00	0.01	20.60
rs112236163	CD38 on naive-mature B cell	ebi-a-GCST90001816	18	51428440	G	A	3656	0.16	0.03	0.00	0.01	26.74
rs78111008	CD38 on naive-mature B cell	ebi-a-GCST90001816	20	12142943	C	T	3656	-0.74	0.16	0.00	0.01	21.10
rs1801274	CD38 on PB/PC	ebi-a-GCST90001817	1	161479745	G	A	3655	-0.13	0.03	0.00	0.01	26.02
rs112012521	CD38 on PB/PC	ebi-a-GCST90001817	2	34922080	T	C	3655	-0.16	0.04	0.00	0.01	20.79
rs72878268	CD38 on PB/PC	ebi-a-GCST90001817	2	171318563	G	A	3655	0.41	0.09	0.00	0.01	21.59
rs9826331	CD38 on PB/PC	ebi-a-GCST90001817	3	139044466	C	G	3655	-0.12	0.02	0.00	0.01	22.74
rs7617631	CD38 on PB/PC	ebi-a-GCST90001817	3	67287001	G	A	3655	-0.18	0.04	0.00	0.01	21.54
rs335080	CD38 on PB/PC	ebi-a-GCST90001817	4	182981534	C	T	3655	-0.11	0.03	0.00	0.01	20.78
rs55985999	CD38 on PB/PC	ebi-a-GCST90001817	4	58491837	A	G	3655	-0.21	0.05	0.00	0.01	19.57
rs818892	CD38 on PB/PC	ebi-a-GCST90001817	9	6997867	G	C	3655	0.13	0.03	0.00	0.01	20.41
rs10991116	CD38 on PB/PC	ebi-a-GCST90001817	9	106896351	A	G	3655	0.23	0.05	0.00	0.01	25.92
rs9423546	CD38 on PB/PC	ebi-a-GCST90001817	10	4823794	A	C	3655	0.12	0.03	0.00	0.01	22.35
rs2671612	CD38 on PB/PC	ebi-a-GCST90001817	10	61489710	G	A	3655	0.12	0.02	0.00	0.01	24.42
rs1975261	CD38 on PB/PC	ebi-a-GCST90001817	13	26808803	C	G	3655	-0.12	0.03	0.00	0.01	19.87
rs141081775	CD38 on PB/PC	ebi-a-GCST90001817	14	95092885	T	C	3655	0.69	0.15	0.00	0.01	20.30
rs17621486	CD38 on PB/PC	ebi-a-GCST90001817	17	50682160	T	C	3655	-0.60	0.13	0.00	0.01	20.74
rs4789573	CD38 on PB/PC	ebi-a-GCST90001817	17	76279427	G	A	3655	-0.11	0.02	0.00	0.01	20.37
rs35436350	CD38 on PB/PC	ebi-a-GCST90001817	20	57093605	T	C	3655	-0.13	0.02	0.00	0.01	28.70
rs13305986	CD38 on I σ D+	ebi-a-GCST90001818	1	11908505	C	G	3658	-0.66	0.15	0.00	0.01	19.70
rs1164064	CD38 on I σ D+	ebi-a-GCST90001818	3	109462400	A	G	3658	0.12	0.03	0.00	0.01	22.46
rs80303855	CD38 on I σ D+	ebi-a-GCST90001818	4	64334348	C	A	3658	0.48	0.10	0.00	0.01	21.03
rs1511039	CD38 on I σ D+	ebi-a-GCST90001818	4	13905535	T	C	3658	0.18	0.04	0.00	0.01	20.62
rs76112278	CD38 on I σ D+	ebi-a-GCST90001818	4	15915069	A	G	3658	-0.61	0.09	0.00	0.01	45.27
rs34843244	CD38 on I σ D+	ebi-a-GCST90001818	5	90267368	T	A	3658	-0.33	0.07	0.00	0.01	21.90
rs74728241	CD38 on I σ D+	ebi-a-GCST90001818	6	125895275	G	A	3658	0.33	0.07	0.00	0.01	20.29
rs62405562	CD38 on I σ D+	ebi-a-GCST90001818	6	32451834	G	A	3658	-0.14	0.03	0.00	0.01	24.97
rs11763462	CD38 on I σ D+	ebi-a-GCST90001818	7	130342978	G	A	3658	0.14	0.03	0.00	0.01	22.04
rs4929931	CD38 on I σ D+	ebi-a-GCST90001818	11	8746684	A	G	3658	0.11	0.03	0.00	0.01	19.64
rs138459438	CD38 on I σ D+	ebi-a-GCST90001818	12	18290606	A	G	3658	-0.24	0.05	0.00	0.01	22.56
rs12435334	CD38 on I σ D+	ebi-a-GCST90001818	14	38169407	A	C	3658	0.12	0.03	0.00	0.01	23.79
rs3108001	CD38 on I σ D+	ebi-a-GCST90001818	18	27918590	A	G	3658	-0.11	0.03	0.00	0.01	21.02
rs150215963	CD38 on I σ D+	ebi-a-GCST90001818	18	64825222	A	G	3658	0.37	0.08	0.00	0.01	20.00
rs55685624	CD38 on I σ D+	ebi-a-GCST90001818	21	39668476	T	G	3658	0.26	0.06	0.00	0.01	19.57

rs144392728	CD38 on IgD+	ebi-a-GCST90001818	22	33029820	T	A	3658	0.24	0.05	0.00	0.01	20.77
rs41310410	CD38 on transitional	ebi-a-GCST90001819	1	19203961	T	C	3657	-0.27	0.06	0.00	0.01	20.03
rs140192272	CD38 on transitional	ebi-a-GCST90001819	1	99413231	G	A	3657	0.55	0.12	0.00	0.01	19.65
rs197429	CD38 on transitional	ebi-a-GCST90001819	1	112267500	T	C	3657	0.17	0.03	0.00	0.01	32.41
rs57408613	CD38 on transitional	ebi-a-GCST90001819	2	181635654	C	G	3657	0.15	0.03	0.00	0.01	23.65
rs78282820	CD38 on transitional	ebi-a-GCST90001819	2	170932700	G	A	3657	0.32	0.07	0.00	0.01	21.44
rs9845482	CD38 on transitional	ebi-a-GCST90001819	3	184801494	A	G	3657	-0.16	0.03	0.00	0.01	26.73
rs113248969	CD38 on transitional	ebi-a-GCST90001819	3	31815483	A	G	3657	0.24	0.05	0.00	0.01	20.55
rs2070478	CD38 on transitional	ebi-a-GCST90001819	3	37526985	T	C	3657	-0.19	0.04	0.00	0.01	20.95
rs115062208	CD38 on transitional	ebi-a-GCST90001819	4	15956227	G	A	3657	-0.91	0.12	0.00	0.02	59.30
rs76112278	CD38 on transitional	ebi-a-GCST90001819	4	15915069	A	G	3657	-1.05	0.09	0.00	0.04	140.79
rs140447118	CD38 on transitional	ebi-a-GCST90001819	4	24413705	T	A	3657	-0.43	0.09	0.00	0.01	21.89
rs572542	CD38 on transitional	ebi-a-GCST90001819	4	14029370	T	C	3657	-0.45	0.07	0.00	0.01	38.77
rs149852991	CD38 on transitional	ebi-a-GCST90001819	4	15044338	T	G	3657	-0.53	0.07	0.00	0.02	60.44
rs138612228	CD38 on transitional	ebi-a-GCST90001819	5	27458351	T	G	3657	-1.13	0.24	0.00	0.01	21.83
rs140554292	CD38 on transitional	ebi-a-GCST90001819	5	87562189	A	G	3657	0.47	0.10	0.00	0.01	21.16
rs10231147	CD38 on transitional	ebi-a-GCST90001819	7	144509395	T	G	3657	0.13	0.03	0.00	0.01	24.86
rs11005889	CD38 on transitional	ebi-a-GCST90001819	10	59422142	A	T	3657	-0.60	0.12	0.00	0.01	24.23
rs4288784	CD38 on transitional	ebi-a-GCST90001819	11	113745608	G	C	3657	0.34	0.08	0.00	0.01	19.98
rs75796463	CD38 on transitional	ebi-a-GCST90001819	14	105086574	C	T	3657	0.46	0.10	0.00	0.01	19.96
rs62002679	CD38 on transitional	ebi-a-GCST90001819	15	32004133	A	G	3657	0.17	0.03	0.00	0.01	25.18
rs62063474	CD38 on transitional	ebi-a-GCST90001819	17	6279415	T	C	3657	-0.40	0.09	0.00	0.01	20.13
rs34379433	CD38 on transitional	ebi-a-GCST90001819	18	54232162	A	G	3657	-0.23	0.05	0.00	0.01	20.62
rs2311849	CD38 on transitional	ebi-a-GCST90001819	19	47317539	C	T	3657	-0.24	0.05	0.00	0.01	20.26
rs7251792	CD38 on transitional	ebi-a-GCST90001819	19	1021725	A	C	3657	-0.12	0.03	0.00	0.01	21.90
rs147051683	IgD on IgD+ CD24+	ebi-a-GCST90001820	1	170103711	G	C	3656	-0.68	0.15	0.00	0.01	20.03
rs72871227	IgD on IgD+ CD24+	ebi-a-GCST90001820	2	151000647	T	C	3656	-0.12	0.03	0.00	0.01	20.36
rs72944511	IgD on IgD+ CD24+	ebi-a-GCST90001820	2	216742657	T	G	3656	1.28	0.29	0.00	0.01	19.96
rs144583907	IgD on IgD+ CD24+	ebi-a-GCST90001820	2	217837059	G	A	3656	0.26	0.06	0.00	0.01	19.88
rs9288041	IgD on IgD+ CD24+	ebi-a-GCST90001820	2	180583707	A	T	3656	0.13	0.03	0.00	0.01	24.67
rs12505403	IgD on IgD+ CD24+	ebi-a-GCST90001820	4	130367811	A	G	3656	0.21	0.04	0.00	0.01	28.88
rs73031919	IgD on IgD+ CD24+	ebi-a-GCST90001820	5	1980101	C	T	3656	-0.20	0.04	0.00	0.01	20.43
rs10076053	IgD on IgD+ CD24+	ebi-a-GCST90001820	5	150649861	A	G	3656	0.62	0.13	0.00	0.01	23.28
rs1794511	IgD on IgD+ CD24+	ebi-a-GCST90001820	6	32671207	G	T	3656	-0.24	0.03	0.00	0.01	51.95
rs139084170	IgD on IgD+ CD24+	ebi-a-GCST90001820	6	43351686	A	C	3656	0.36	0.06	0.00	0.01	38.67
rs9265515	IgD on IgD+ CD24+	ebi-a-GCST90001820	6	31297744	C	T	3656	-0.22	0.03	0.00	0.01	46.24
rs7746553	IgD on IgD+ CD24+	ebi-a-GCST90001820	6	31895973	G	C	3656	-0.16	0.03	0.00	0.01	28.31

rs147854460	IgD on IgD+ CD24+	ebi-a-GCST90001820	6	143010177	A	T	3656	0.73	0.15	0.00	0.01	24.03
rs112421400	IgD on IgD+ CD24+	ebi-a-GCST90001820	6	28205826	T	C	3656	-0.20	0.04	0.00	0.01	31.96
rs73022545	IgD on IgD+ CD24+	ebi-a-GCST90001820	6	164591715	A	G	3656	0.24	0.05	0.00	0.01	20.91
rs1181899	IgD on IgD+ CD24+	ebi-a-GCST90001820	7	76993184	C	T	3656	0.18	0.04	0.00	0.01	19.87
rs850492	IgD on IgD+ CD24+	ebi-a-GCST90001820	7	145314534	A	G	3656	-0.13	0.03	0.00	0.01	20.84
rs149401019	IgD on IgD+ CD24+	ebi-a-GCST90001820	7	2250057	A	G	3656	-0.22	0.05	0.00	0.01	20.20
rs80149865	IgD on IgD+ CD24+	ebi-a-GCST90001820	8	120027617	G	C	3656	0.74	0.15	0.00	0.01	23.51
rs74143009	IgD on IgD+ CD24+	ebi-a-GCST90001820	10	69860366	A	G	3656	0.73	0.16	0.00	0.01	20.04
rs55675835	IgD on IgD+ CD24+	ebi-a-GCST90001820	12	210957	A	G	3656	0.33	0.07	0.00	0.01	21.61
rs2819455	IgD on IgD+ CD24+	ebi-a-GCST90001820	14	105445412	C	G	3656	0.27	0.04	0.00	0.01	41.42
rs709589	IgD on IgD+ CD24+	ebi-a-GCST90001820	14	106306841	T	C	3656	-0.61	0.03	0.00	0.10	412.76
rs11621990	IgD on IgD+ CD24+	ebi-a-GCST90001820	14	106875768	T	C	3656	-0.24	0.04	0.00	0.01	31.04
rs58259062	IgD on IgD+ CD24+	ebi-a-GCST90001820	14	107284188	C	T	3656	0.40	0.08	0.00	0.01	25.76
rs28866515	IgD on IgD+ CD24+	ebi-a-GCST90001820	15	40971835	A	T	3656	-0.11	0.03	0.00	0.01	19.97
rs4796030	IgD on IgD+ CD24+	ebi-a-GCST90001820	17	33330150	C	A	3656	0.12	0.03	0.00	0.01	20.10
rs2630640	IgD on IgD+ CD24+	ebi-a-GCST90001820	17	68538485	A	C	3656	0.12	0.03	0.00	0.01	19.72
rs151050474	IgD on IgD+ CD24+	ebi-a-GCST90001820	19	57875874	A	G	3656	0.47	0.09	0.00	0.01	24.58
rs74720509	IgD on IgD+ CD24-	ebi-a-GCST90001821	1	11891626	G	A	3656	0.17	0.04	0.00	0.01	19.58
rs72871227	IgD on IgD+ CD24-	ebi-a-GCST90001821	2	151000647	T	C	3656	-0.12	0.03	0.00	0.01	20.28
rs933793	IgD on IgD+ CD24-	ebi-a-GCST90001821	2	106511846	C	T	3656	-0.13	0.03	0.00	0.01	21.16
rs139357193	IgD on IgD+ CD24-	ebi-a-GCST90001821	3	51971998	A	C	3656	-0.85	0.17	0.00	0.01	25.64
rs13096753	IgD on IgD+ CD24-	ebi-a-GCST90001821	3	74511065	T	C	3656	-0.36	0.08	0.00	0.01	20.69
rs56783728	IgD on IgD+ CD24-	ebi-a-GCST90001821	6	29459769	G	C	3656	-0.27	0.06	0.00	0.01	20.75
rs9467989	IgD on IgD+ CD24-	ebi-a-GCST90001821	6	27064275	T	C	3656	-0.15	0.03	0.00	0.01	26.48
rs4416670	IgD on IgD+ CD24-	ebi-a-GCST90001821	6	43950453	C	T	3656	0.12	0.03	0.00	0.01	21.15
rs9639820	IgD on IgD+ CD24-	ebi-a-GCST90001821	7	40094641	G	A	3656	0.16	0.03	0.00	0.01	38.25
rs41274268	IgD on IgD+ CD24-	ebi-a-GCST90001821	9	100886920	T	C	3656	-0.22	0.05	0.00	0.01	21.19
rs10987840	IgD on IgD+ CD24-	ebi-a-GCST90001821	9	130793178	G	A	3656	-0.15	0.03	0.00	0.01	20.89
rs72819694	IgD on IgD+ CD24-	ebi-a-GCST90001821	10	84605536	T	C	3656	-0.47	0.09	0.00	0.01	26.45
rs78102093	IgD on IgD+ CD24-	ebi-a-GCST90001821	10	12691374	G	A	3656	-0.29	0.06	0.00	0.01	20.65
rs2398397	IgD on IgD+ CD24-	ebi-a-GCST90001821	12	128804435	A	G	3656	0.13	0.03	0.00	0.01	20.76
rs11841715	IgD on IgD+ CD24-	ebi-a-GCST90001821	13	60244803	G	A	3656	-0.24	0.05	0.00	0.01	19.65
rs2403197	IgD on IgD+ CD24-	ebi-a-GCST90001821	14	104053764	T	C	3656	-0.12	0.03	0.00	0.01	21.33
rs56112295	IgD on IgD+ CD24-	ebi-a-GCST90001821	14	105877057	T	C	3656	-0.14	0.03	0.00	0.01	22.76
rs28723652	IgD on IgD+ CD24-	ebi-a-GCST90001821	14	106644507	A	C	3656	0.43	0.07	0.00	0.01	35.20
rs72715996	IgD on IgD+ CD24-	ebi-a-GCST90001821	14	105277950	A	G	3656	-0.24	0.04	0.00	0.01	28.46
rs709589	IgD on IgD+ CD24-	ebi-a-GCST90001821	14	106306841	T	C	3656	-0.66	0.03	0.00	0.12	495.50

rs78844770	IgD on IgD+ CD24-	ebi-a-GCST90001821	15	87829544	T	G	3656	-0.44	0.10	0.00	0.01	20.43
rs28634695	IgD on IgD+ CD24-	ebi-a-GCST90001821	15	40856113	A	G	3656	-0.20	0.02	0.00	0.02	66.13
rs719611	IgD on IgD+ CD24-	ebi-a-GCST90001821	15	63277356	C	T	3656	0.11	0.03	0.00	0.01	19.71
rs142302290	IgD on IgD+ CD24-	ebi-a-GCST90001821	16	55222535	A	G	3656	-0.70	0.16	0.00	0.01	19.73
rs35501848	IgD on IgD+ CD24-	ebi-a-GCST90001821	17	62021003	T	G	3656	-0.16	0.02	0.00	0.01	42.85
rs887387	IgD on IgD+ CD24-	ebi-a-GCST90001821	17	3828702	C	T	3656	0.12	0.03	0.00	0.01	19.64
rs117797158	IgD on IgD+ CD24-	ebi-a-GCST90001821	17	78954840	A	G	3656	0.33	0.07	0.00	0.01	23.64
rs2061780	IgD on IgD+ CD24-	ebi-a-GCST90001821	19	28481413	A	G	3656	0.17	0.04	0.00	0.01	20.01
rs71314904	IgD on IgD+ CD24-	ebi-a-GCST90001821	22	34855476	A	G	3656	0.36	0.08	0.00	0.01	21.42
rs28523633	IgD on IgD+ CD24-	ebi-a-GCST90001821	22	49098031	C	A	3656	-0.12	0.03	0.00	0.01	20.57
rs80179084	IgD on IgD+ CD38-	ebi-a-GCST90001822	1	168838486	T	G	3642	1.33	0.29	0.00	0.01	21.28
rs115447005	IgD on IgD+ CD38-	ebi-a-GCST90001822	2	215247577	A	G	3642	0.47	0.10	0.00	0.01	20.30
rs75131268	IgD on IgD+ CD38-	ebi-a-GCST90001822	4	179196108	A	G	3642	0.14	0.03	0.00	0.01	24.05
rs875214	IgD on IgD+ CD38-	ebi-a-GCST90001822	5	76713643	C	T	3642	-0.27	0.06	0.00	0.01	20.06
rs11759718	IgD on IgD+ CD38-	ebi-a-GCST90001822	6	112572117	T	C	3642	-0.16	0.04	0.00	0.01	20.65
rs3134971	IgD on IgD+ CD38-	ebi-a-GCST90001822	6	32654149	C	A	3642	-0.19	0.03	0.00	0.01	29.10
rs11969118	IgD on IgD+ CD38-	ebi-a-GCST90001822	6	27700822	T	C	3642	-0.16	0.04	0.00	0.01	20.57
rs2071800	IgD on IgD+ CD38-	ebi-a-GCST90001822	6	32714143	A	G	3642	-0.15	0.03	0.00	0.01	23.58
rs571829761	IgD on IgD+ CD38-	ebi-a-GCST90001822	7	47012316	T	A	3642	-1.13	0.25	0.00	0.01	19.84
rs6995633	IgD on IgD+ CD38-	ebi-a-GCST90001822	8	128440651	G	A	3642	0.33	0.07	0.00	0.01	19.59
rs12554596	IgD on IgD+ CD38-	ebi-a-GCST90001822	9	37002142	G	A	3642	-0.13	0.03	0.00	0.01	24.95
rs72743463	IgD on IgD+ CD38-	ebi-a-GCST90001822	9	96108427	A	C	3642	0.24	0.05	0.00	0.01	20.08
rs7081413	IgD on IgD+ CD38-	ebi-a-GCST90001822	10	68875634	G	A	3642	-0.22	0.05	0.00	0.01	19.79
rs875706	IgD on IgD+ CD38-	ebi-a-GCST90001822	11	126315673	C	T	3642	0.47	0.10	0.00	0.01	20.74
rs2473909	IgD on IgD+ CD38-	ebi-a-GCST90001822	11	34213286	G	C	3642	-0.15	0.03	0.00	0.01	24.64
rs73192651	IgD on IgD+ CD38-	ebi-a-GCST90001822	13	50212885	T	C	3642	-0.43	0.09	0.00	0.01	22.67
rs709589	IgD on IgD+ CD38-	ebi-a-GCST90001822	14	106306841	T	C	3642	-0.50	0.03	0.00	0.07	267.15
rs28723652	IgD on IgD+ CD38-	ebi-a-GCST90001822	14	106644507	A	C	3642	0.35	0.07	0.00	0.01	22.21
rs147653204	IgD on IgD+ CD38-	ebi-a-GCST90001822	14	107117890	A	G	3642	-0.39	0.09	0.00	0.01	20.74
rs4775581	IgD on IgD+ CD38-	ebi-a-GCST90001822	15	63267877	T	C	3642	0.11	0.03	0.00	0.01	20.32
rs7162750	IgD on IgD+ CD38-	ebi-a-GCST90001822	15	38002606	T	G	3642	-0.14	0.03	0.00	0.01	21.44
rs8033829	IgD on IgD+ CD38-	ebi-a-GCST90001822	15	41038693	T	C	3642	0.12	0.02	0.00	0.01	23.64
rs183915	IgD on IgD+ CD38-	ebi-a-GCST90001822	15	40119703	G	A	3642	0.62	0.13	0.00	0.01	21.36
rs2280736	IgD on IgD+ CD38-	ebi-a-GCST90001822	16	5323457	C	T	3642	-0.11	0.03	0.00	0.01	20.21
rs9923814	IgD on IgD+ CD38-	ebi-a-GCST90001822	16	48808506	C	T	3642	0.15	0.03	0.00	0.01	21.16
rs76252198	IgD on IgD+ CD38-	ebi-a-GCST90001822	18	61939282	T	C	3642	0.13	0.03	0.00	0.01	19.72
rs111323173	IgD on IgD+ CD38-	ebi-a-GCST90001822	19	16773301	A	G	3642	0.25	0.06	0.00	0.01	20.23

rs17733969	IgD on IgD+ CD38-	ebi-a-GCST90001822	20	51360154	T	C	3642	-0.16	0.03	0.00	0.01	22.94
rs139047	IgD on IgD+ CD38-	ebi-a-GCST90001822	22	44323074	A	G	3642	-0.12	0.03	0.00	0.01	20.93
rs568035	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	1	156110167	T	C	1834	0.19	0.04	0.00	0.01	20.89
rs7754054	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	6	29392503	G	C	1834	0.21	0.05	0.00	0.01	19.68
rs3093971	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	6	31424607	A	G	1834	-0.23	0.04	0.00	0.02	30.44
rs56247432	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	6	74955867	T	C	1834	-0.47	0.11	0.00	0.01	19.59
rs2735071	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	6	29944979	C	G	1834	-0.20	0.04	0.00	0.01	22.44
rs2040406	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	6	32603007	G	A	1834	-0.27	0.04	0.00	0.02	37.44
rs546103177	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	6	42913071	A	G	1834	0.44	0.08	0.00	0.02	29.10
rs10277136	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	7	153304156	C	T	1834	0.19	0.04	0.00	0.01	20.06
rs111505634	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	7	10147518	C	T	1834	0.27	0.06	0.00	0.01	19.62
rs919590	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	8	13061713	G	T	1834	0.15	0.03	0.00	0.01	19.67
rs10823811	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	10	73404650	T	C	1834	0.19	0.04	0.00	0.01	21.63
rs72863094	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	11	11497311	G	A	1834	0.42	0.09	0.00	0.01	20.14
rs74717895	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	11	9145922	A	G	1834	0.46	0.10	0.00	0.01	22.36
rs79841057	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	12	103294260	A	G	1834	0.18	0.04	0.00	0.01	19.73
rs709589	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	14	106306841	T	C	1834	-0.68	0.04	0.00	0.13	270.10
rs28723652	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	14	106644507	A	C	1834	0.52	0.10	0.00	0.01	25.99
rs117303087	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	14	103824600	G	C	1834	0.30	0.06	0.00	0.01	21.75
rs78288740	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	15	60339435	C	T	1834	0.41	0.09	0.00	0.01	21.35
rs539975	IgD on IgD+ CD38- unsw mem	ebi-a-GCST90001823	18	7562317	T	C	1834	0.22	0.05	0.00	0.01	19.70
rs7530780	IgD on IgD+ CD38br	ebi-a-GCST90001824	1	93130268	T	C	3656	0.12	0.03	0.00	0.01	21.57
rs1037633	IgD on IgD+ CD38br	ebi-a-GCST90001824	3	23750521	G	T	3656	0.20	0.04	0.00	0.01	28.10
rs1227420	IgD on IgD+ CD38br	ebi-a-GCST90001824	4	93132438	G	A	3656	0.16	0.04	0.00	0.01	20.60
rs139488523	IgD on IgD+ CD38br	ebi-a-GCST90001824	4	169621111	G	T	3656	-0.31	0.07	0.00	0.01	19.74
rs72757668	IgD on IgD+ CD38br	ebi-a-GCST90001824	5	67542189	A	G	3656	0.19	0.04	0.00	0.01	20.62
rs73398969	IgD on IgD+ CD38br	ebi-a-GCST90001824	6	29410258	A	C	3656	-0.30	0.07	0.00	0.01	20.98

rs200468	IgD on IgD+ CD38br	ebi-a-GCST90001824	6	27757855	G	C	3656	-0.18	0.03	0.00	0.01	35.37
rs793853	IgD on IgD+ CD38br	ebi-a-GCST90001824	6	24196925	C	T	3656	-0.14	0.03	0.00	0.01	20.36
rs62442539	IgD on IgD+ CD38br	ebi-a-GCST90001824	7	2352594	C	G	3656	0.26	0.03	0.00	0.02	88.90
rs7853163	IgD on IgD+ CD38br	ebi-a-GCST90001824	9	615904	T	G	3656	-0.39	0.08	0.00	0.01	22.54
rs76714110	IgD on IgD+ CD38br	ebi-a-GCST90001824	9	130880041	A	G	3656	0.16	0.03	0.00	0.01	21.48
rs3915868	IgD on IgD+ CD38br	ebi-a-GCST90001824	11	8833800	G	A	3656	-0.12	0.03	0.00	0.01	22.96
rs12788641	IgD on IgD+ CD38br	ebi-a-GCST90001824	11	57851179	A	G	3656	-0.20	0.04	0.00	0.01	23.04
rs149919568	IgD on IgD+ CD38br	ebi-a-GCST90001824	11	88104460	A	G	3656	0.42	0.09	0.00	0.01	20.35
rs118089299	IgD on IgD+ CD38br	ebi-a-GCST90001824	14	104674020	T	C	3656	-0.39	0.08	0.00	0.01	25.11
rs709589	IgD on IgD+ CD38br	ebi-a-GCST90001824	14	106306841	T	C	3656	-0.70	0.03	0.00	0.14	571.11
rs2018404	IgD on IgD+ CD38br	ebi-a-GCST90001824	14	105695446	T	C	3656	-0.27	0.04	0.00	0.01	52.68
rs12436535	IgD on IgD+ CD38br	ebi-a-GCST90001824	14	106407257	A	G	3656	0.25	0.05	0.00	0.01	28.31
rs2338377	IgD on IgD+ CD38br	ebi-a-GCST90001824	14	106671275	A	G	3656	0.35	0.06	0.00	0.01	33.45
rs56658995	IgD on IgD+ CD38br	ebi-a-GCST90001824	14	107056278	A	G	3656	0.18	0.04	0.00	0.01	24.34
rs28669075	IgD on IgD+ CD38br	ebi-a-GCST90001824	15	40856521	T	C	3656	-0.17	0.02	0.00	0.01	44.87
rs72764109	IgD on IgD+ CD38br	ebi-a-GCST90001824	15	87727196	A	G	3656	-0.43	0.10	0.00	0.01	20.01
rs73569760	IgD on IgD+ CD38br	ebi-a-GCST90001824	16	63997246	A	G	3656	-0.13	0.03	0.00	0.01	20.58
rs74017080	IgD on IgD+ CD38br	ebi-a-GCST90001824	16	48816092	A	G	3656	0.15	0.03	0.00	0.01	19.58
rs9614208	IgD on IgD+ CD38br	ebi-a-GCST90001824	22	44568078	A	G	3656	0.11	0.03	0.00	0.01	19.73
rs12126649	IgD on IgD+ CD38dim	ebi-a-GCST90001825	1	4153262	C	T	3656	-0.18	0.04	0.00	0.01	23.45
rs141507756	IgD on IgD+ CD38dim	ebi-a-GCST90001825	3	106999706	A	C	3656	0.37	0.08	0.00	0.01	21.43
rs77606890	IgD on IgD+ CD38dim	ebi-a-GCST90001825	3	74792288	A	G	3656	0.36	0.08	0.00	0.01	19.97
rs116643893	IgD on IgD+ CD38dim	ebi-a-GCST90001825	4	137149414	A	G	3656	-1.90	0.39	0.00	0.01	23.65
rs9443423	IgD on IgD+ CD38dim	ebi-a-GCST90001825	6	78306504	T	G	3656	-0.16	0.03	0.00	0.01	23.78
rs79925536	IgD on IgD+ CD38dim	ebi-a-GCST90001825	6	29413972	C	T	3656	-0.33	0.07	0.00	0.01	21.35
rs9639820	IgD on IgD+ CD38dim	ebi-a-GCST90001825	7	40094641	G	A	3656	0.16	0.03	0.00	0.01	37.71
rs10228863	IgD on IgD+ CD38dim	ebi-a-GCST90001825	7	20587690	C	T	3656	-0.12	0.03	0.00	0.01	20.32
rs78102093	IgD on IgD+ CD38dim	ebi-a-GCST90001825	10	12691374	G	A	3656	-0.29	0.06	0.00	0.01	20.08
rs2601762	IgD on IgD+ CD38dim	ebi-a-GCST90001825	10	33794680	A	G	3656	0.13	0.03	0.00	0.01	24.88
rs72819694	IgD on IgD+ CD38dim	ebi-a-GCST90001825	10	84605536	T	C	3656	-0.42	0.09	0.00	0.01	21.10
rs3903770	IgD on IgD+ CD38dim	ebi-a-GCST90001825	13	50394478	T	C	3656	-0.33	0.07	0.00	0.01	19.97
rs28723652	IgD on IgD+ CD38dim	ebi-a-GCST90001825	14	106644507	A	C	3656	0.41	0.07	0.00	0.01	31.72
rs72715996	IgD on IgD+ CD38dim	ebi-a-GCST90001825	14	105277950	A	G	3656	-0.24	0.04	0.00	0.01	27.96
rs7143148	IgD on IgD+ CD38dim	ebi-a-GCST90001825	14	105927433	C	T	3656	-0.13	0.03	0.00	0.01	21.97
rs709589	IgD on IgD+ CD38dim	ebi-a-GCST90001825	14	106306841	T	C	3656	-0.62	0.03	0.00	0.10	426.70
rs28669075	IgD on IgD+ CD38dim	ebi-a-GCST90001825	15	40856521	T	C	3656	-0.21	0.03	0.00	0.02	70.81
rs142302290	IgD on IgD+ CD38dim	ebi-a-GCST90001825	16	55222535	A	G	3656	-0.71	0.16	0.00	0.01	20.13

rs35501848	IgD on IgD+ CD38dim	ebi-a-GCST90001825	17	62021003	T	G	3656	-0.16	0.03	0.00	0.01	43.17
rs117797158	IgD on IgD+ CD38dim	ebi-a-GCST90001825	17	78954840	A	G	3656	0.32	0.07	0.00	0.01	21.77
rs150521764	IgD on IgD+ CD38dim	ebi-a-GCST90001825	18	67714307	C	A	3656	-0.49	0.11	0.00	0.01	21.16
rs6107127	IgD on IgD+ CD38dim	ebi-a-GCST90001825	20	25979030	G	A	3656	0.25	0.06	0.00	0.01	20.86
rs9870291	IgD on unsw mem	ebi-a-GCST90001826	3	8652528	T	A	3636	-0.12	0.03	0.00	0.01	20.81
rs78261673	IgD on unsw mem	ebi-a-GCST90001826	4	7463428	T	A	3636	0.75	0.17	0.00	0.01	20.28
rs75544266	IgD on unsw mem	ebi-a-GCST90001826	4	104584997	T	C	3636	0.31	0.06	0.00	0.01	24.62
rs55861228	IgD on unsw mem	ebi-a-GCST90001826	5	2501680	C	T	3636	0.25	0.05	0.00	0.01	23.90
rs73022545	IgD on unsw mem	ebi-a-GCST90001826	6	164591715	A	G	3636	0.24	0.05	0.00	0.01	21.10
rs9276702	IgD on unsw mem	ebi-a-GCST90001826	6	32756741	G	A	3636	0.22	0.04	0.00	0.01	39.06
rs241409	IgD on unsw mem	ebi-a-GCST90001826	6	32861920	G	A	3636	-0.20	0.03	0.00	0.01	34.58
rs3132571	IgD on unsw mem	ebi-a-GCST90001826	6	30905313	G	A	3636	0.13	0.03	0.00	0.01	19.81
rs9267517	IgD on unsw mem	ebi-a-GCST90001826	6	31573110	A	G	3636	-0.27	0.04	0.00	0.02	55.67
rs78172850	IgD on unsw mem	ebi-a-GCST90001826	6	47149877	G	A	3636	-0.20	0.05	0.00	0.01	19.97
rs139084170	IgD on unsw mem	ebi-a-GCST90001826	6	43351686	A	C	3636	0.38	0.06	0.00	0.01	43.39
rs1181899	IgD on unsw mem	ebi-a-GCST90001826	7	76993184	C	T	3636	0.19	0.04	0.00	0.01	21.38
rs2465073	IgD on unsw mem	ebi-a-GCST90001826	7	137928696	C	G	3636	0.12	0.03	0.00	0.01	21.05
rs147471736	IgD on unsw mem	ebi-a-GCST90001826	9	97195653	A	G	3636	2.16	0.48	0.00	0.01	19.86
rs11014404	IgD on unsw mem	ebi-a-GCST90001826	10	25408128	G	A	3636	0.13	0.03	0.00	0.01	21.53
rs147653204	IgD on unsw mem	ebi-a-GCST90001826	14	107117890	A	G	3636	-0.44	0.09	0.00	0.01	26.95
rs28723652	IgD on unsw mem	ebi-a-GCST90001826	14	106644507	A	C	3636	0.41	0.07	0.00	0.01	31.49
rs76784736	IgD on unsw mem	ebi-a-GCST90001826	14	71778339	A	T	3636	-0.27	0.06	0.00	0.01	21.31
rs709589	IgD on unsw mem	ebi-a-GCST90001826	14	106306841	T	C	3636	-0.59	0.03	0.00	0.10	382.37
rs9923814	IgD on unsw mem	ebi-a-GCST90001826	16	48808506	C	T	3636	0.17	0.03	0.00	0.01	25.82
rs10871327	IgD on unsw mem	ebi-a-GCST90001826	16	76820976	G	A	3636	-0.16	0.03	0.00	0.01	20.43
rs12609856	IgD on unsw mem	ebi-a-GCST90001826	19	11807010	A	C	3636	0.12	0.03	0.00	0.01	21.27
rs142964241	IgD on unsw mem	ebi-a-GCST90001826	20	20874741	T	C	3636	0.48	0.11	0.00	0.01	20.31
rs12745074	IgD on IgD+	ebi-a-GCST90001827	1	7337805	G	T	3657	0.21	0.05	0.00	0.01	21.30
rs62175190	IgD on IgD+	ebi-a-GCST90001827	2	180573329	T	C	3657	-0.13	0.03	0.00	0.01	20.05
rs11721614	IgD on IgD+	ebi-a-GCST90001827	4	1500753	C	T	3657	0.22	0.05	0.00	0.01	20.44
rs149936983	IgD on IgD+	ebi-a-GCST90001827	5	141470423	A	G	3657	-0.53	0.12	0.00	0.01	20.10
rs34312683	IgD on IgD+	ebi-a-GCST90001827	6	67018244	G	A	3657	-0.14	0.03	0.00	0.01	19.91
rs74322648	IgD on IgD+	ebi-a-GCST90001827	6	19598450	A	G	3657	-0.40	0.09	0.00	0.01	21.14
rs79925536	IgD on IgD+	ebi-a-GCST90001827	6	29413972	C	T	3657	-0.35	0.07	0.00	0.01	23.49
rs9443423	IgD on IgD+	ebi-a-GCST90001827	6	78306504	T	G	3657	-0.15	0.03	0.00	0.01	20.56
rs809558	IgD on IgD+	ebi-a-GCST90001827	7	40011350	T	C	3657	-0.13	0.03	0.00	0.01	25.80
rs403185	IgD on IgD+	ebi-a-GCST90001827	8	26476721	G	A	3657	-0.12	0.03	0.00	0.01	20.23
rs6476402	IgD on IgD+	ebi-a-GCST90001827	9	33148552	A	G	3657	-0.11	0.03	0.00	0.01	19.57
rs2601762	IgD on IgD+	ebi-a-GCST90001827	10	33794680	A	G	3657	0.12	0.03	0.00	0.01	19.60
rs75459915	IgD on IgD+	ebi-a-GCST90001827	12	24400511	A	G	3657	0.15	0.03	0.00	0.01	20.10

rs73192651	IgD on IgD+	ebi-a-GCST90001827	13	50212885	T	C	3657	-0.46	0.09	0.00	0.01	25.28
rs28723652	IgD on IgD+	ebi-a-GCST90001827	14	106644507	A	C	3657	0.39	0.07	0.00	0.01	28.12
rs709589	IgD on IgD+	ebi-a-GCST90001827	14	106306841	T	C	3657	-0.59	0.03	0.00	0.09	381.86
rs72715996	IgD on IgD+	ebi-a-GCST90001827	14	105277950	A	G	3657	-0.24	0.05	0.00	0.01	28.81
rs737562	IgD on IgD+	ebi-a-GCST90001827	15	63276177	T	A	3657	0.12	0.03	0.00	0.01	21.95
rs28669075	IgD on IgD+	ebi-a-GCST90001827	15	40856521	T	C	3657	-0.17	0.03	0.00	0.01	48.11
rs4968675	IgD on IgD+	ebi-a-GCST90001827	17	62015230	T	G	3657	-0.13	0.03	0.00	0.01	26.56
rs150521764	IgD on IgD+	ebi-a-GCST90001827	18	67714307	C	A	3657	-0.49	0.11	0.00	0.01	21.17
rs139534045	IgD on IgD+	ebi-a-GCST90001827	20	21561213	G	C	3657	0.51	0.11	0.00	0.01	19.82
rs68173597	IgD on IgD+	ebi-a-GCST90001827	21	21000598	A	G	3657	-0.18	0.04	0.00	0.01	19.98
rs11164796	IgD on transitional	ebi-a-GCST90001828	1	93144080	T	C	3657	0.12	0.03	0.00	0.01	22.72
rs4849052	IgD on transitional	ebi-a-GCST90001828	2	112948678	C	T	3657	-0.21	0.05	0.00	0.01	20.02
rs58758530	IgD on transitional	ebi-a-GCST90001828	3	181465929	T	C	3657	-0.37	0.08	0.00	0.01	21.40
rs2322165	IgD on transitional	ebi-a-GCST90001828	3	71895073	G	T	3657	0.18	0.04	0.00	0.01	20.48
rs1037633	IgD on transitional	ebi-a-GCST90001828	3	23750521	G	T	3657	0.23	0.04	0.00	0.01	37.17
rs16852581	IgD on transitional	ebi-a-GCST90001828	3	168419832	C	T	3657	-0.12	0.03	0.00	0.01	21.16
rs138793837	IgD on transitional	ebi-a-GCST90001828	4	161937169	C	T	3657	0.40	0.09	0.00	0.01	20.56
rs115835855	IgD on transitional	ebi-a-GCST90001828	4	131384142	C	A	3657	0.27	0.06	0.00	0.01	21.49
rs72919056	IgD on transitional	ebi-a-GCST90001828	4	102701632	A	T	3657	0.50	0.10	0.00	0.01	26.18
rs9369356	IgD on transitional	ebi-a-GCST90001828	6	42238899	G	T	3657	0.73	0.16	0.00	0.01	21.61
rs1392916	IgD on transitional	ebi-a-GCST90001828	6	74518202	T	C	3657	0.11	0.02	0.00	0.01	20.25
rs79924684	IgD on transitional	ebi-a-GCST90001828	6	144315102	C	T	3657	0.23	0.05	0.00	0.01	21.81
rs200474	IgD on transitional	ebi-a-GCST90001828	6	27767640	A	G	3657	-0.17	0.03	0.00	0.01	31.93
rs2819081	IgD on transitional	ebi-a-GCST90001828	6	156913511	T	C	3657	-0.13	0.03	0.00	0.01	19.87
rs646935	IgD on transitional	ebi-a-GCST90001828	6	168112848	C	G	3657	0.13	0.03	0.00	0.01	23.34
rs118108236	IgD on transitional	ebi-a-GCST90001828	6	94238065	T	C	3657	0.39	0.08	0.00	0.01	21.72
rs55871547	IgD on transitional	ebi-a-GCST90001828	7	2354352	G	C	3657	0.23	0.03	0.00	0.02	68.45
rs142817955	IgD on transitional	ebi-a-GCST90001828	7	33903759	A	G	3657	-1.20	0.25	0.00	0.01	22.89
rs6998850	IgD on transitional	ebi-a-GCST90001828	8	61848028	G	A	3657	0.12	0.03	0.00	0.01	20.53
rs34574485	IgD on transitional	ebi-a-GCST90001828	9	38587724	G	A	3657	-0.13	0.03	0.00	0.01	23.13
rs76714110	IgD on transitional	ebi-a-GCST90001828	9	130880041	A	G	3657	0.16	0.03	0.00	0.01	21.90
rs3915868	IgD on transitional	ebi-a-GCST90001828	11	8833800	G	A	3657	-0.12	0.03	0.00	0.01	21.42
rs775001	IgD on transitional	ebi-a-GCST90001828	12	24434976	C	A	3657	0.12	0.02	0.00	0.01	21.68
rs11047379	IgD on transitional	ebi-a-GCST90001828	12	24492761	G	A	3657	0.13	0.03	0.00	0.01	24.11
rs142881434	IgD on transitional	ebi-a-GCST90001828	14	107129280	T	A	3657	-0.40	0.09	0.00	0.01	22.18
rs2983767	IgD on transitional	ebi-a-GCST90001828	14	106226801	A	C	3657	-0.45	0.09	0.00	0.01	23.88
rs2018404	IgD on transitional	ebi-a-GCST90001828	14	105695446	T	C	3657	-0.24	0.04	0.00	0.01	42.23
rs709589	IgD on transitional	ebi-a-GCST90001828	14	106306841	T	C	3657	-0.57	0.03	0.00	0.09	357.19
rs7184473	IgD on transitional	ebi-a-GCST90001828	16	17732625	C	T	3657	-0.14	0.03	0.00	0.01	19.69

rs118171108	IgD on transitional	ebi-a-GCST90001828	17	3853980	C	G	3657	0.40	0.08	0.00	0.01	23.86
rs117309996	IgD on transitional	ebi-a-GCST90001828	17	59009664	C	T	3657	0.40	0.09	0.00	0.01	21.80
rs9614208	IgD on transitional	ebi-a-GCST90001828	22	44568078	A	G	3657	0.11	0.03	0.00	0.01	19.64
rs6680891	BAFF-R on B cell	ebi-a-GCST90001829	1	164083691	T	A	3660	0.14	0.03	0.00	0.01	22.45
rs72658947	BAFF-R on B cell	ebi-a-GCST90001829	1	30372026	C	G	3660	-0.41	0.09	0.00	0.01	20.56
rs1801274	BAFF-R on B cell	ebi-a-GCST90001829	1	161479745	G	A	3660	-0.17	0.03	0.00	0.01	40.81
rs149153670	BAFF-R on B cell	ebi-a-GCST90001829	2	142280835	C	T	3660	-0.54	0.12	0.00	0.01	20.23
rs2925323	BAFF-R on B cell	ebi-a-GCST90001829	3	101658926	T	C	3660	-0.13	0.03	0.00	0.01	21.82
rs116470335	BAFF-R on B cell	ebi-a-GCST90001829	4	24492147	A	G	3660	1.53	0.33	0.00	0.01	21.47
rs12529650	BAFF-R on B cell	ebi-a-GCST90001829	6	1751206	T	G	3660	0.12	0.03	0.00	0.01	20.80
rs56020760	BAFF-R on B cell	ebi-a-GCST90001829	10	72391681	T	C	3660	-0.24	0.05	0.00	0.01	20.89
rs1563991	BAFF-R on B cell	ebi-a-GCST90001829	11	37670518	T	G	3660	0.15	0.03	0.00	0.01	21.68
rs143106266	BAFF-R on B cell	ebi-a-GCST90001829	13	29908421	A	C	3660	-1.18	0.25	0.00	0.01	22.64
rs148563640	BAFF-R on B cell	ebi-a-GCST90001829	17	48145906	T	C	3660	0.38	0.09	0.00	0.01	19.83
rs5757678	BAFF-R on B cell	ebi-a-GCST90001829	22	39843409	T	C	3660	0.21	0.03	0.00	0.02	67.77
rs1894588	BAFF-R on B cell	ebi-a-GCST90001829	22	40629980	T	C	3660	-0.51	0.05	0.00	0.03	101.08
rs149806587	BAFF-R on B cell	ebi-a-GCST90001829	22	40774205	G	A	3660	-0.53	0.06	0.00	0.02	86.32
rs73165129	BAFF-R on B cell	ebi-a-GCST90001829	22	42315371	T	C	3660	-1.50	0.03	0.00	0.35	1952.13
rs149398740	BAFF-R on B cell	ebi-a-GCST90001829	22	23924845	T	C	3660	-1.09	0.24	0.00	0.01	20.59
rs117430146	BAFF-R on B cell	ebi-a-GCST90001829	22	41998660	C	G	3660	0.31	0.06	0.00	0.01	30.48
rs76146864	BAFF-R on B cell	ebi-a-GCST90001829	22	40246055	T	C	3660	-0.71	0.08	0.00	0.02	82.15
rs1081003	BAFF-R on B cell	ebi-a-GCST90001829	22	42525756	A	G	3660	-0.53	0.04	0.00	0.04	141.51
rs117705111	BAFF-R on B cell	ebi-a-GCST90001829	22	41957510	A	G	3660	-0.74	0.07	0.00	0.03	129.03
rs5759079	BAFF-R on B cell	ebi-a-GCST90001829	22	43393437	A	G	3660	-0.44	0.04	0.00	0.04	151.52
rs2066978	BAFF-R on CD20-	ebi-a-GCST90001830	1	7928759	C	T	3648	-0.14	0.03	0.00	0.01	21.89
rs35368132	BAFF-R on CD20-	ebi-a-GCST90001830	2	183179545	C	T	3648	0.15	0.03	0.00	0.01	25.21
rs72683736	BAFF-R on CD20-	ebi-a-GCST90001830	4	162422182	A	C	3648	-0.19	0.04	0.00	0.01	26.42
rs57396181	BAFF-R on CD20-	ebi-a-GCST90001830	6	155520414	C	G	3648	-1.07	0.23	0.00	0.01	21.47
rs7826226	BAFF-R on CD20-	ebi-a-GCST90001830	8	61322563	C	A	3648	-0.15	0.03	0.00	0.01	20.39
rs79373846	BAFF-R on CD20-	ebi-a-GCST90001830	8	127988956	A	T	3648	0.20	0.05	0.00	0.01	20.03
rs182211529	BAFF-R on CD20-	ebi-a-GCST90001830	11	3574110	T	C	3648	0.67	0.13	0.00	0.01	25.06
rs140785480	BAFF-R on CD20-	ebi-a-GCST90001830	13	61781933	C	A	3648	-0.43	0.09	0.00	0.01	21.71
rs145320860	BAFF-R on CD20-	ebi-a-GCST90001830	13	62765406	A	G	3648	-0.69	0.14	0.00	0.01	23.47
rs73346463	BAFF-R on CD20-	ebi-a-GCST90001830	14	100063947	T	G	3648	-0.42	0.09	0.00	0.01	20.40
rs142808203	BAFF-R on CD20-	ebi-a-GCST90001830	17	53123747	A	C	3648	-0.49	0.11	0.00	0.01	20.25
rs5996087	BAFF-R on CD20-	ebi-a-GCST90001830	22	42321591	G	A	3648	-0.42	0.04	0.00	0.03	111.54
rs149192849	BAFF-R on CD20-	ebi-a-GCST90001830	22	42270864	C	T	3648	-0.26	0.05	0.00	0.01	23.38

rs191405504	BAFF-R on CD20- CD62L on	ebi-a-GCST90001830	22	41305796	T	A	3648	-0.26	0.06	0.00	0.01	21.09
rs12724134	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	1	95075566	C	G	2872	0.14	0.03	0.00	0.01	20.07
rs2990641	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	1	170237066	G	C	2872	0.13	0.03	0.00	0.01	21.89
rs143375069	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	1	157915841	G	T	2872	-0.43	0.10	0.00	0.01	19.83
rs12075684	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	1	169620673	G	A	2872	0.19	0.03	0.00	0.01	41.93
rs6427213	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	1	169713146	G	A	2872	0.35	0.03	0.00	0.03	100.57
rs76305105	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	1	168573042	A	G	2872	0.25	0.06	0.00	0.01	20.56
rs75145851	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	2	96804588	A	G	2872	0.23	0.05	0.00	0.01	25.78
rs114141182	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	6	13173850	T	C	2872	0.74	0.17	0.00	0.01	19.70
rs2536092	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	7	151378090	G	A	2872	-0.23	0.05	0.00	0.01	21.60
rs6539095	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	12	104092085	A	G	2872	0.24	0.05	0.00	0.01	22.97
rs2038655	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	13	26228943	C	T	2872	0.12	0.03	0.00	0.01	20.31
rs58315932	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	15	79777547	A	G	2872	0.36	0.07	0.00	0.01	25.76
rs7202624	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	16	86016175	C	G	2872	-0.14	0.03	0.00	0.01	20.86
rs9890410	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	17	16279572	C	G	2872	0.20	0.04	0.00	0.01	22.00
rs7234534	CD62L+ mveloid DC CD62L on	ebi-a-GCST90001831	18	23407436	T	G	2872	0.13	0.03	0.00	0.01	23.16
rs4987358	CD62L+ plasmacytoid DC CD62L on	ebi-a-GCST90001832	1	169665551	T	G	2872	0.33	0.03	0.00	0.04	123.21
rs343813	CD62L+ plasmacytoid DC CD62L on	ebi-a-GCST90001832	1	111334781	T	A	2872	-0.21	0.03	0.00	0.01	43.42
rs3917761	CD62L+ plasmacytoid DC CD62L on	ebi-a-GCST90001832	1	169574729	T	G	2872	-0.17	0.03	0.00	0.01	34.59
rs12040885	CD62L+ plasmacytoid DC CD62L on	ebi-a-GCST90001832	1	167057553	A	G	2872	-0.12	0.03	0.00	0.01	20.37
rs140935876	CD62L+ plasmacytoid DC CD62L on	ebi-a-GCST90001832	2	50722912	C	A	2872	1.82	0.40	0.00	0.01	20.18
rs62236308	CD62L+ plasmacytoid DC	ebi-a-GCST90001832	3	31286954	T	G	2872	-0.17	0.03	0.00	0.01	25.49

rs148535663	CD62L on CD62L+ plasmacytoid DC	ebi-a-GCST90001832	3	125563415	T	C	2872	-0.20	0.04	0.00	0.01	19.91
rs17058091	CD62L on CD62L+ plasmacytoid DC	ebi-a-GCST90001832	6	98341767	C	A	2872	-1.59	0.34	0.00	0.01	21.58
rs4731265	CD62L on CD62L+ plasmacytoid DC	ebi-a-GCST90001832	7	125443474	A	G	2872	0.13	0.03	0.00	0.01	24.29
rs11773763	CD62L on CD62L+ plasmacytoid DC	ebi-a-GCST90001832	7	50271499	T	C	2872	-0.19	0.03	0.00	0.01	38.17
rs140893422	CD62L on CD62L+ plasmacytoid DC	ebi-a-GCST90001832	9	131575934	A	G	2872	-0.36	0.08	0.00	0.01	21.78
rs111528892	CD62L on CD62L+ plasmacytoid DC	ebi-a-GCST90001832	13	27228287	A	G	2872	0.40	0.08	0.00	0.01	24.28
rs12864970	CD62L on CD62L+ plasmacytoid DC	ebi-a-GCST90001832	13	26218284	A	C	2872	0.12	0.03	0.00	0.01	21.20
rs149154085	CD62L on CD62L+ plasmacytoid DC	ebi-a-GCST90001832	14	79979025	G	T	2872	-0.21	0.05	0.00	0.01	20.55
rs613872	CD62L on CD62L+ plasmacytoid DC	ebi-a-GCST90001832	18	53210302	T	G	2872	-0.19	0.04	0.00	0.01	20.07
rs150038452	CD62L on CD62L+ plasmacytoid DC	ebi-a-GCST90001832	21	27810403	C	G	2872	0.46	0.08	0.00	0.01	29.83
rs12041883	CD62L on CD62L+ DC	ebi-a-GCST90001833	1	111320129	A	C	2871	-0.20	0.04	0.00	0.01	26.37
rs742800	CD62L on CD62L+ DC	ebi-a-GCST90001833	1	29718191	T	G	2871	0.26	0.05	0.00	0.01	25.17
rs3917768	CD62L on CD62L+ DC	ebi-a-GCST90001833	1	169572947	G	T	2871	0.18	0.03	0.00	0.01	42.79
rs12040885	CD62L on CD62L+ DC	ebi-a-GCST90001833	1	167057553	A	G	2871	-0.12	0.03	0.00	0.01	21.68
rs7526645	CD62L on CD62L+ DC	ebi-a-GCST90001833	1	169728916	T	C	2871	0.17	0.03	0.00	0.01	43.38
rs11692722	CD62L on CD62L+ DC	ebi-a-GCST90001833	2	23715189	G	A	2871	-0.13	0.03	0.00	0.01	20.62
rs75943000	CD62L on CD62L+ DC	ebi-a-GCST90001833	3	56956793	C	G	2871	0.21	0.04	0.00	0.01	24.23
rs62236308	CD62L on CD62L+ DC	ebi-a-GCST90001833	3	31286954	T	G	2871	-0.16	0.03	0.00	0.01	23.38
rs113947601	CD62L on CD62L+ DC	ebi-a-GCST90001833	3	32267533	T	C	2871	0.33	0.07	0.00	0.01	19.72
rs140597204	CD62L on CD62L+ DC	ebi-a-GCST90001833	4	43926627	T	C	2871	-0.47	0.09	0.00	0.01	25.12
rs112295585	CD62L on CD62L+ DC	ebi-a-GCST90001833	4	55258914	T	C	2871	-1.24	0.26	0.00	0.01	22.89
rs115980202	CD62L on CD62L+ DC	ebi-a-GCST90001833	4	42489975	C	G	2871	0.38	0.08	0.00	0.01	21.88
rs4731265	CD62L on CD62L+ DC	ebi-a-GCST90001833	7	125443474	A	G	2871	0.12	0.03	0.00	0.01	20.33
rs11773763	CD62L on CD62L+ DC	ebi-a-GCST90001833	7	50271499	T	C	2871	-0.16	0.03	0.00	0.01	28.41
rs10435954	CD62L on CD62L+ DC	ebi-a-GCST90001833	9	90196882	T	C	2871	-0.13	0.03	0.00	0.01	22.46
rs2428305	CD62L on CD62L+ DC	ebi-a-GCST90001833	10	24651970	G	A	2871	0.27	0.05	0.00	0.01	26.94
rs72997833	CD62L on CD62L+ DC	ebi-a-GCST90001833	11	108363562	A	G	2871	0.16	0.03	0.00	0.01	21.77

rs11029935	CD62L on CD62L+ DC	ebi-a-GCST90001833	11	27337967	C	T	2871	-0.35	0.08	0.00	0.01	19.64
rs703648	CD62L on CD62L+ DC	ebi-a-GCST90001833	12	104080975	C	T	2871	0.26	0.06	0.00	0.01	22.60
rs35443755	CD62L on CD62L+ DC	ebi-a-GCST90001833	12	20469483	C	G	2871	-0.51	0.12	0.00	0.01	19.68
rs12864970	CD62L on CD62L+ DC	ebi-a-GCST90001833	13	26218284	A	C	2871	0.12	0.03	0.00	0.01	19.86
rs58315932	CD62L on CD62L+ DC	ebi-a-GCST90001833	15	79777547	A	G	2871	0.32	0.07	0.00	0.01	20.70
rs149982484	CD62L on CD62L+ DC	ebi-a-GCST90001833	20	48349220	T	C	2871	-0.29	0.06	0.00	0.01	20.57
rs75307154	CD62L on CD62L+ DC	ebi-a-GCST90001833	20	17824351	T	C	2871	-0.31	0.07	0.00	0.01	21.79
rs150038452	CD62L on CD62L+ DC	ebi-a-GCST90001833	21	27810403	C	G	2871	0.41	0.08	0.00	0.01	23.90
rs133635	CD62L on CD62L+ DC	ebi-a-GCST90001833	22	48708374	C	T	2871	0.23	0.05	0.00	0.01	19.85
rs4987369	CD62L on monocyte	ebi-a-GCST90001834	1	169662742	T	G	2848	-0.45	0.03	0.00	0.07	230.63
rs7540208	CD62L on monocyte	ebi-a-GCST90001834	1	104331283	C	T	2848	-0.39	0.09	0.00	0.01	20.05
rs4987389	CD62L on monocyte	ebi-a-GCST90001834	1	169658509	T	A	2848	0.24	0.03	0.00	0.02	46.77
rs235869	CD62L on monocyte	ebi-a-GCST90001834	1	171610959	A	C	2848	-0.13	0.03	0.00	0.01	22.47
rs10127711	CD62L on monocyte	ebi-a-GCST90001834	1	168483806	G	A	2848	0.13	0.03	0.00	0.01	21.22
rs7516777	CD62L on monocyte	ebi-a-GCST90001834	1	199788171	A	G	2848	-0.14	0.03	0.00	0.01	20.05
rs2404215	CD62L on monocyte	ebi-a-GCST90001834	1	53634228	T	C	2848	-0.30	0.07	0.00	0.01	20.35
rs6694645	CD62L on monocyte	ebi-a-GCST90001834	1	951111100	C	T	2848	0.18	0.04	0.00	0.01	24.34
rs73879235	CD62L on monocyte	ebi-a-GCST90001834	3	170626704	G	A	2848	-0.28	0.06	0.00	0.01	22.05
rs169046	CD62L on monocyte	ebi-a-GCST90001834	3	38417367	C	T	2848	0.12	0.03	0.00	0.01	19.59
rs34142414	CD62L on monocyte	ebi-a-GCST90001834	3	106555382	C	T	2848	-0.17	0.04	0.00	0.01	21.03
rs447362	CD62L on monocyte	ebi-a-GCST90001834	5	165250043	C	T	2848	-0.40	0.09	0.00	0.01	21.86
rs12215799	CD62L on monocyte	ebi-a-GCST90001834	6	164104976	T	C	2848	0.30	0.07	0.00	0.01	19.64
rs184665042	CD62L on monocyte	ebi-a-GCST90001834	6	42298065	A	C	2848	-1.01	0.23	0.00	0.01	19.60
rs79734694	CD62L on monocyte	ebi-a-GCST90001834	8	68787748	C	A	2848	-0.17	0.04	0.00	0.01	19.79
rs77224604	CD62L on monocyte	ebi-a-GCST90001834	8	137328288	G	A	2848	-0.22	0.05	0.00	0.01	20.91
rs118080101	CD62L on monocyte	ebi-a-GCST90001834	9	138899879	A	G	2848	2.68	0.60	0.00	0.01	19.94
rs117965901	CD62L on monocyte	ebi-a-GCST90001834	10	30770530	G	A	2848	0.50	0.11	0.00	0.01	19.69
rs11597201	CD62L on monocyte	ebi-a-GCST90001834	10	88469837	G	C	2848	-0.44	0.10	0.00	0.01	21.21
rs189683893	CD62L on monocyte	ebi-a-GCST90001834	10	89153882	A	C	2848	-0.96	0.22	0.00	0.01	19.69
rs7900893	CD62L on monocyte	ebi-a-GCST90001834	10	130132360	A	G	2848	-0.55	0.12	0.00	0.01	20.67
rs11225485	CD62L on monocyte	ebi-a-GCST90001834	11	102807731	G	A	2848	-0.19	0.04	0.00	0.01	19.83
rs10842393	CD62L on monocyte	ebi-a-GCST90001834	12	24831709	G	C	2848	0.13	0.03	0.00	0.01	20.53
rs73462775	CD62L on monocyte	ebi-a-GCST90001834	15	95884078	T	C	2848	-0.65	0.14	0.00	0.01	22.45
rs55633105	CD62L on monocyte	ebi-a-GCST90001834	17	72159072	G	C	2848	-0.31	0.07	0.00	0.01	20.85
rs141452540	CD62L on monocyte	ebi-a-GCST90001834	20	47237403	C	T	2848	-1.06	0.23	0.00	0.01	21.04
rs145336413	CD62L on granulocyte	ebi-a-GCST90001835	1	66609144	T	G	2849	0.52	0.12	0.00	0.01	19.64
rs295137	CD62L on granulocyte	ebi-a-GCST90001835	2	201150040	T	C	2849	0.13	0.03	0.00	0.01	20.06

rs9845059	CD62L on granulocyte	ebi-a-GCST90001835	3	35308691	T	C	2849	-0.39	0.09	0.00	0.01	21.24
rs7691737	CD62L on granulocyte	ebi-a-GCST90001835	4	108522779	T	C	2849	-0.35	0.07	0.00	0.01	21.65
rs140597204	CD62L on granulocyte	ebi-a-GCST90001835	4	43926627	T	C	2849	-0.46	0.10	0.00	0.01	22.51
rs142693862	CD62L on granulocyte	ebi-a-GCST90001835	4	154572780	C	T	2849	-0.95	0.19	0.00	0.01	23.77
rs12656231	CD62L on granulocyte	ebi-a-GCST90001835	5	8150877	G	C	2849	-0.13	0.03	0.00	0.01	20.31
rs2260907	CD62L on granulocyte	ebi-a-GCST90001835	5	134616218	A	T	2849	-0.14	0.03	0.00	0.01	20.54
rs1821205	CD62L on granulocyte	ebi-a-GCST90001835	5	57127877	C	G	2849	0.12	0.03	0.00	0.01	20.61
rs17282486	CD62L on granulocyte	ebi-a-GCST90001835	6	108320502	G	A	2849	-0.25	0.05	0.00	0.01	21.37
rs445	CD62L on granulocyte	ebi-a-GCST90001835	7	92408370	T	C	2849	0.18	0.03	0.00	0.01	29.58
rs7863065	CD62L on granulocyte	ebi-a-GCST90001835	9	16246539	C	T	2849	0.25	0.06	0.00	0.01	20.41
rs674218	CD62L on granulocyte	ebi-a-GCST90001835	11	126109060	A	G	2849	-0.18	0.04	0.00	0.01	24.79
rs138669346	CD62L on granulocyte	ebi-a-GCST90001835	13	24958892	A	G	2849	0.29	0.06	0.00	0.01	23.75
rs13336680	CD62L on granulocyte	ebi-a-GCST90001835	16	5615903	C	T	2849	-0.15	0.03	0.00	0.01	22.26
rs3826331	CD62L on granulocyte	ebi-a-GCST90001835	17	38150492	C	T	2849	0.13	0.03	0.00	0.01	22.19
rs148133987	CD62L on granulocyte	ebi-a-GCST90001835	20	56356566	A	G	2849	-0.26	0.06	0.00	0.01	20.57
rs62243093	CD62L on granulocyte	ebi-a-GCST90001835	22	35377900	C	G	2849	-0.76	0.17	0.00	0.01	19.91
rs149073662	CD66b++ mveloid cell	ebi-a-GCST90001836	1	9801707	A	G	1465	0.31	0.07	0.00	0.01	21.17
rs13006137	CD66b++ mveloid cell	ebi-a-GCST90001836	2	154986727	G	A	1465	0.47	0.11	0.00	0.01	20.02
rs139348851	CD66b++ mveloid cell	ebi-a-GCST90001836	3	50280843	G	A	1465	0.45	0.09	0.00	0.02	23.04
rs11167675	CD66b++ mveloid cell	ebi-a-GCST90001836	5	153735817	A	G	1465	0.28	0.06	0.00	0.01	19.78
rs306580	CD66b++ mveloid cell	ebi-a-GCST90001836	5	94060445	G	A	1465	-0.18	0.04	0.00	0.02	23.14
rs4361470	CD66b++ mveloid cell	ebi-a-GCST90001836	5	55418144	C	G	1465	-0.43	0.09	0.00	0.02	22.73
rs60449345	CD66b++ mveloid cell	ebi-a-GCST90001836	5	162617092	A	G	1465	1.15	0.25	0.00	0.01	20.19
rs145836694	CD66b++ mveloid cell	ebi-a-GCST90001836	6	106222810	C	T	1465	-0.55	0.12	0.00	0.01	21.55
rs12200259	CD66b++ mveloid cell	ebi-a-GCST90001836	6	12516242	G	T	1465	0.25	0.05	0.00	0.02	24.77
rs77955327	CD66b++ mveloid cell	ebi-a-GCST90001836	6	39069699	C	A	1465	-0.45	0.09	0.00	0.01	22.16
rs117312711	CD66b++ mveloid cell	ebi-a-GCST90001836	7	112322389	T	C	1465	-0.55	0.11	0.00	0.02	27.35
rs79450248	CD66b++ mveloid cell	ebi-a-GCST90001836	9	19369066	G	T	1465	0.87	0.19	0.00	0.01	20.13
rs77600362	CD66b++ mveloid cell	ebi-a-GCST90001836	11	6574904	C	T	1465	0.49	0.11	0.00	0.01	20.80
rs12146661	CD66b++ mveloid cell	ebi-a-GCST90001836	11	132240457	A	G	1465	0.26	0.05	0.00	0.02	23.88

rs149541654	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	14	64186810	G	C	1465	0.42	0.09	0.00	0.01	21.94
rs12587697	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	14	20470737	A	G	1465	0.24	0.05	0.00	0.02	24.21
rs72696815	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	14	95115530	T	C	1465	0.27	0.06	0.00	0.01	20.59
rs11632595	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	15	24995686	T	G	1465	0.20	0.04	0.00	0.01	19.86
rs12102694	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	16	76417625	G	A	1465	0.18	0.04	0.00	0.02	23.24
rs78927876	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	17	78878134	T	C	1465	0.53	0.12	0.00	0.01	20.52
rs116864786	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	18	39475934	C	T	1465	0.59	0.13	0.00	0.01	22.21
rs2160808	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	18	28147641	G	C	1465	-0.20	0.04	0.00	0.02	22.67
rs4801859	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	19	39221947	T	A	1465	0.20	0.04	0.00	0.02	23.61
rs10420273	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	19	15177126	C	A	1465	-0.42	0.09	0.00	0.01	21.98
rs62206422	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	20	36239708	C	G	1465	0.19	0.04	0.00	0.01	21.55
rs73195476	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	21	33469682	A	C	1465	-2.05	0.44	0.00	0.01	21.17
rs8143049	CD66b on CD66b++ myeloid cell	ebi-a-GCST90001836	22	43455246	T	C	1465	0.27	0.06	0.00	0.01	19.90
rs74149325	CD66b on Gr MDSC	ebi-a-GCST90001837	1	240277599	G	A	1244	0.47	0.09	0.00	0.02	24.93
rs320439	CD66b on Gr MDSC	ebi-a-GCST90001837	1	213629078	A	G	1244	-0.21	0.04	0.00	0.02	22.22
rs10864377	CD66b on Gr MDSC	ebi-a-GCST90001837	1	9066695	T	C	1244	0.19	0.04	0.00	0.02	19.90
rs56190007	CD66b on Gr MDSC	ebi-a-GCST90001837	2	62196278	G	T	1244	-0.19	0.04	0.00	0.02	22.10
rs12496184	CD66b on Gr MDSC	ebi-a-GCST90001837	3	32299237	C	G	1244	-0.19	0.04	0.00	0.02	22.38
rs1404536	CD66b on Gr MDSC	ebi-a-GCST90001837	3	65517450	T	C	1244	-0.21	0.05	0.00	0.02	19.65
rs139608920	CD66b on Gr MDSC	ebi-a-GCST90001837	5	138031822	C	G	1244	-0.80	0.18	0.00	0.02	19.70
rs181426303	CD66b on Gr MDSC	ebi-a-GCST90001837	5	141954297	A	T	1244	-0.58	0.12	0.00	0.02	22.73
rs13189938	CD66b on Gr MDSC	ebi-a-GCST90001837	5	60852845	G	A	1244	0.47	0.10	0.00	0.02	21.10
rs9296300	CD66b on Gr MDSC	ebi-a-GCST90001837	6	39458150	T	A	1244	-0.21	0.05	0.00	0.02	21.37
rs62442507	CD66b on Gr MDSC	ebi-a-GCST90001837	7	2279645	T	C	1244	-0.21	0.04	0.00	0.02	23.43
rs61194862	CD66b on Gr MDSC	ebi-a-GCST90001837	8	97223147	T	C	1244	0.53	0.12	0.00	0.02	20.78
rs11136666	CD66b on Gr MDSC	ebi-a-GCST90001837	8	3663762	A	G	1244	0.18	0.04	0.00	0.02	20.08
rs35066493	CD66b on Gr MDSC	ebi-a-GCST90001837	9	86717077	T	G	1244	-0.28	0.06	0.00	0.02	20.41
rs2724786	CD66b on Gr MDSC	ebi-a-GCST90001837	10	12451399	C	T	1244	-0.25	0.05	0.00	0.02	27.19
rs7135763	CD66b on Gr MDSC	ebi-a-GCST90001837	12	32521809	A	C	1244	-0.20	0.04	0.00	0.02	21.55
rs6489371	CD66b on Gr MDSC	ebi-a-GCST90001837	12	2563657	T	C	1244	-0.20	0.05	0.00	0.02	19.91

rs62025068	CD66b on Gr MDSC	ebi-a-GCST90001837	15	91189400	T	C	1244	-0.61	0.13	0.00	0.02	22.14
rs111896566	CD66b on Gr MDSC	ebi-a-GCST90001837	16	20551336	A	T	1244	-1.13	0.25	0.00	0.02	20.30
rs113799614	CD66b on Gr MDSC	ebi-a-GCST90001837	17	79158110	A	C	1244	-0.59	0.13	0.00	0.02	21.32
rs2160808	CD66b on Gr MDSC	ebi-a-GCST90001837	18	28147641	G	C	1244	-0.20	0.05	0.00	0.02	19.91
rs8133479	CD66b on Gr MDSC	ebi-a-GCST90001837	21	18668216	A	G	1244	0.24	0.05	0.00	0.02	20.66
rs4657430	CD3 on naive CD8br	ebi-a-GCST90001838	1	165238114	C	T	2910	0.16	0.03	0.00	0.01	21.39
rs7416513	CD3 on naive CD8br	ebi-a-GCST90001838	1	26647949	C	G	2910	0.17	0.03	0.00	0.01	24.69
rs4396110	CD3 on naive CD8br	ebi-a-GCST90001838	1	118266529	A	G	2910	-0.12	0.03	0.00	0.01	19.89
rs61814886	CD3 on naive CD8br	ebi-a-GCST90001838	1	167136405	A	G	2910	0.32	0.04	0.00	0.02	51.58
rs4657649	CD3 on naive CD8br	ebi-a-GCST90001838	1	167173140	C	T	2910	0.48	0.06	0.00	0.02	60.69
rs78132817	CD3 on naive CD8br	ebi-a-GCST90001838	1	165191695	G	T	2910	-0.50	0.08	0.00	0.01	37.54
rs4657706	CD3 on naive CD8br	ebi-a-GCST90001838	1	167728447	T	C	2910	0.19	0.03	0.00	0.01	33.32
rs2995089	CD3 on naive CD8br	ebi-a-GCST90001838	1	167431193	A	G	2910	0.62	0.03	0.00	0.17	595.34
rs12994487	CD3 on naive CD8br	ebi-a-GCST90001838	2	45448525	G	T	2910	-0.15	0.03	0.00	0.01	21.06
rs148965436	CD3 on naive CD8br	ebi-a-GCST90001838	4	53322015	C	T	2910	-0.23	0.05	0.00	0.01	21.54
rs115280990	CD3 on naive CD8br	ebi-a-GCST90001838	4	73709210	A	G	2910	0.89	0.18	0.00	0.01	23.12
rs112171230	CD3 on naive CD8br	ebi-a-GCST90001838	7	70434581	T	C	2910	0.28	0.06	0.00	0.01	20.42
rs28906376	CD3 on naive CD8br	ebi-a-GCST90001838	8	89116077	G	A	2910	-0.36	0.08	0.00	0.01	22.27
rs6479155	CD3 on naive CD8br	ebi-a-GCST90001838	9	105868652	C	T	2910	-0.13	0.03	0.00	0.01	21.41
rs74744824	CD3 on naive CD8br	ebi-a-GCST90001838	9	22044904	G	A	2910	0.39	0.08	0.00	0.01	23.63
rs111780443	CD3 on naive CD8br	ebi-a-GCST90001838	11	132210362	T	C	2910	-0.37	0.07	0.00	0.01	30.70
rs118065562	CD3 on naive CD8br	ebi-a-GCST90001838	12	2419083	A	G	2910	-0.61	0.13	0.00	0.01	21.46
rs4646296	CD3 on naive CD8br	ebi-a-GCST90001838	14	70243505	G	C	2910	-0.34	0.07	0.00	0.01	21.03
rs75624489	CD3 on naive CD8br	ebi-a-GCST90001838	14	52876003	A	G	2910	-0.55	0.12	0.00	0.01	20.98
rs12921174	CD3 on naive CD8br	ebi-a-GCST90001838	16	430304	C	T	2910	-0.19	0.03	0.00	0.01	32.36
rs62028293	CD3 on naive CD8br	ebi-a-GCST90001838	16	50264054	C	T	2910	0.24	0.05	0.00	0.01	20.54
rs2714019	CD3 on naive CD8br	ebi-a-GCST90001838	17	70789650	T	C	2910	-0.13	0.03	0.00	0.01	20.13
rs16940758	CD3 on naive CD8br	ebi-a-GCST90001838	17	44040626	T	C	2910	-0.16	0.04	0.00	0.01	20.51
rs66774667	CD3 on naive CD8br	ebi-a-GCST90001838	20	60172299	T	C	2910	-0.25	0.06	0.00	0.01	19.84
rs2413113	CD3 on naive CD8br	ebi-a-GCST90001838	22	32779227	C	T	2910	0.13	0.03	0.00	0.01	23.99
rs2480679	CD3 on EM CD8br	ebi-a-GCST90001839	1	167407517	G	A	2912	0.23	0.04	0.00	0.01	31.58
rs858545	CD3 on EM CD8br	ebi-a-GCST90001839	1	167461391	C	A	2912	-0.13	0.03	0.00	0.01	21.57
rs2988279	CD3 on EM CD8br	ebi-a-GCST90001839	1	167419839	A	G	2912	0.34	0.03	0.00	0.05	155.43
rs17879522	CD3 on EM CD8br	ebi-a-GCST90001839	2	215812660	T	C	2912	0.14	0.03	0.00	0.01	23.88
rs115636363	CD3 on EM CD8br	ebi-a-GCST90001839	4	34352645	C	G	2912	-1.00	0.22	0.00	0.01	19.90
rs139305287	CD3 on EM CD8br	ebi-a-GCST90001839	5	166579156	A	G	2912	0.35	0.08	0.00	0.01	20.13
rs7782316	CD3 on EM CD8br	ebi-a-GCST90001839	7	5305788	T	C	2912	0.44	0.10	0.00	0.01	20.36

rs817854	CD3 on EM CD8br	ebi-a-GCST90001839	9	110113919	G	A	2912	0.34	0.08	0.00	0.01	20.25
rs117820643	CD3 on EM CD8br	ebi-a-GCST90001839	10	480161	A	G	2912	-0.34	0.07	0.00	0.01	21.70
rs10838150	CD3 on EM CD8br	ebi-a-GCST90001839	11	5483133	T	C	2912	0.15	0.03	0.00	0.01	22.51
rs327018	CD3 on EM CD8br	ebi-a-GCST90001839	11	20849758	G	A	2912	-0.21	0.05	0.00	0.01	20.78
rs10893076	CD3 on EM CD8br	ebi-a-GCST90001839	11	123569986	T	C	2912	0.13	0.03	0.00	0.01	21.96
rs7300908	CD3 on EM CD8br	ebi-a-GCST90001839	12	132405421	T	C	2912	-0.28	0.06	0.00	0.01	20.27
rs516590	CD3 on EM CD8br	ebi-a-GCST90001839	12	65100884	T	C	2912	-0.13	0.03	0.00	0.01	21.41
rs10848778	CD3 on EM CD8br	ebi-a-GCST90001839	12	3170906	G	C	2912	0.17	0.04	0.00	0.01	20.73
rs10778410	CD3 on EM CD8br	ebi-a-GCST90001839	12	105926700	C	T	2912	-0.13	0.03	0.00	0.01	20.26
rs62029957	CD3 on EM CD8br	ebi-a-GCST90001839	16	50213168	A	G	2912	0.22	0.04	0.00	0.01	26.11
rs12918439	CD3 on EM CD8br	ebi-a-GCST90001839	16	50674103	T	C	2912	2.17	0.48	0.00	0.01	20.25
rs117524375	CD3 on EM CD8br	ebi-a-GCST90001839	16	1790546	T	C	2912	0.48	0.11	0.00	0.01	20.17
rs17664049	CD3 on EM CD8br	ebi-a-GCST90001839	18	48685445	T	C	2912	-0.66	0.12	0.00	0.01	30.30
rs2949669	CD3 on TD CD8br	ebi-a-GCST90001840	1	167417884	T	C	2911	0.21	0.03	0.00	0.02	58.65
rs472594	CD3 on TD CD8br	ebi-a-GCST90001840	1	228601638	C	T	2911	-0.16	0.04	0.00	0.01	21.23
rs114241106	CD3 on TD CD8br	ebi-a-GCST90001840	2	47600591	A	T	2911	-0.92	0.19	0.00	0.01	23.99
rs11678793	CD3 on TD CD8br	ebi-a-GCST90001840	2	241562105	G	A	2911	-0.14	0.03	0.00	0.01	20.24
rs116008125	CD3 on TD CD8br	ebi-a-GCST90001840	2	229111257	T	C	2911	0.26	0.06	0.00	0.01	19.67
rs6419642	CD3 on TD CD8br	ebi-a-GCST90001840	2	68100469	A	G	2911	0.27	0.06	0.00	0.01	21.14
rs141566851	CD3 on TD CD8br	ebi-a-GCST90001840	3	170163167	A	G	2911	-0.51	0.11	0.00	0.01	20.68
rs115208823	CD3 on TD CD8br	ebi-a-GCST90001840	3	101677297	T	C	2911	-0.44	0.09	0.00	0.01	22.40
rs4689428	CD3 on TD CD8br	ebi-a-GCST90001840	4	6388191	G	C	2911	-0.19	0.03	0.00	0.01	30.49
rs74596366	CD3 on TD CD8br	ebi-a-GCST90001840	4	1635134	C	T	2911	0.46	0.10	0.00	0.01	21.03
rs147934227	CD3 on TD CD8br	ebi-a-GCST90001840	4	144501508	T	C	2911	-1.26	0.27	0.00	0.01	21.60
rs72785901	CD3 on TD CD8br	ebi-a-GCST90001840	5	120282213	T	C	2911	-0.44	0.10	0.00	0.01	20.39
rs57740770	CD3 on TD CD8br	ebi-a-GCST90001840	6	32067435	G	T	2911	-0.17	0.04	0.00	0.01	23.75
rs146793472	CD3 on TD CD8br	ebi-a-GCST90001840	6	115127012	C	T	2911	-0.35	0.08	0.00	0.01	20.40
rs77727789	CD3 on TD CD8br	ebi-a-GCST90001840	9	116135431	C	G	2911	-0.25	0.06	0.00	0.01	19.73
rs7905582	CD3 on TD CD8br	ebi-a-GCST90001840	10	133327489	G	T	2911	0.24	0.05	0.00	0.01	22.07
rs6584354	CD3 on TD CD8br	ebi-a-GCST90001840	10	102007714	C	A	2911	-0.13	0.03	0.00	0.01	22.10
rs10860204	CD3 on TD CD8br	ebi-a-GCST90001840	12	97805978	A	G	2911	0.45	0.10	0.00	0.01	20.43
rs73158979	CD3 on TD CD8br	ebi-a-GCST90001840	12	132107081	C	T	2911	-0.22	0.05	0.00	0.01	20.39
rs111666485	CD3 on TD CD8br	ebi-a-GCST90001840	12	15638143	A	C	2911	0.32	0.07	0.00	0.01	21.73
rs945668	CD3 on TD CD8br	ebi-a-GCST90001840	13	23675156	T	C	2911	0.17	0.03	0.00	0.01	24.05
rs55823840	CD3 on TD CD8br	ebi-a-GCST90001840	14	21114258	A	G	2911	0.14	0.03	0.00	0.01	21.35
rs182175045	CD3 on TD CD8br	ebi-a-GCST90001840	17	276230	T	G	2911	-0.41	0.09	0.00	0.01	20.30
rs117286362	CD3 on TD CD8br	ebi-a-GCST90001840	19	31209621	T	C	2911	-0.20	0.04	0.00	0.01	20.93

rs61814872	CD3 on CM CD4+	ebi-a-GCST90001841	1	167113055	T	C	2912	0.29	0.04	0.00	0.01	41.37
rs4396110	CD3 on CM CD4+	ebi-a-GCST90001841	1	118266529	A	G	2912	-0.14	0.03	0.00	0.01	24.02
rs3753932	CD3 on CM CD4+	ebi-a-GCST90001841	1	167725004	G	C	2912	0.15	0.03	0.00	0.01	19.57
rs67402791	CD3 on CM CD4+	ebi-a-GCST90001841	1	26645970	A	T	2912	0.17	0.03	0.00	0.01	24.72
rs2949661	CD3 on CM CD4+	ebi-a-GCST90001841	1	167424924	T	C	2912	0.57	0.03	0.00	0.14	482.65
rs146780525	CD3 on CM CD4+	ebi-a-GCST90001841	1	26780027	T	C	2912	-0.31	0.07	0.00	0.01	21.81
rs1317631	CD3 on CM CD4+	ebi-a-GCST90001841	1	165904360	T	C	2912	-0.17	0.04	0.00	0.01	22.70
rs4657649	CD3 on CM CD4+	ebi-a-GCST90001841	1	167173140	C	T	2912	0.49	0.06	0.00	0.02	62.57
rs6751481	CD3 on CM CD4+	ebi-a-GCST90001841	2	38897810	C	T	2912	-0.13	0.03	0.00	0.01	21.77
rs11715223	CD3 on CM CD4+	ebi-a-GCST90001841	3	64581733	A	G	2912	0.15	0.03	0.00	0.01	20.07
rs12497487	CD3 on CM CD4+	ebi-a-GCST90001841	3	78194307	T	C	2912	-0.17	0.03	0.00	0.01	26.78
rs57319220	CD3 on CM CD4+	ebi-a-GCST90001841	3	45919992	A	G	2912	0.20	0.04	0.00	0.01	30.46
rs72666260	CD3 on CM CD4+	ebi-a-GCST90001841	4	113334844	A	G	2912	0.55	0.12	0.00	0.01	19.61
rs188669685	CD3 on CM CD4+	ebi-a-GCST90001841	5	2669391	G	C	2912	0.24	0.05	0.00	0.01	22.81
rs117466579	CD3 on CM CD4+	ebi-a-GCST90001841	7	85315630	C	A	2912	-0.76	0.16	0.00	0.01	21.05
rs144834954	CD3 on CM CD4+	ebi-a-GCST90001841	8	109416365	A	G	2912	-1.81	0.40	0.00	0.01	20.71
rs34201586	CD3 on CM CD4+	ebi-a-GCST90001841	9	110688268	T	C	2912	-0.23	0.05	0.00	0.01	19.71
rs74744824	CD3 on CM CD4+	ebi-a-GCST90001841	9	22044904	G	A	2912	0.36	0.08	0.00	0.01	20.48
rs118065562	CD3 on CM CD4+	ebi-a-GCST90001841	12	2419083	A	G	2912	-0.60	0.13	0.00	0.01	20.20
rs28649534	CD3 on CM CD4+	ebi-a-GCST90001841	13	48439005	T	C	2912	0.23	0.05	0.00	0.01	24.47
rs12884372	CD3 on CM CD4+	ebi-a-GCST90001841	14	86036273	G	T	2912	0.23	0.05	0.00	0.01	19.77
rs117171372	CD3 on CM CD4+	ebi-a-GCST90001841	15	27777649	C	T	2912	1.72	0.36	0.00	0.01	23.06
rs59302791	CD3 on CM CD4+	ebi-a-GCST90001841	16	17996315	T	C	2912	0.37	0.08	0.00	0.01	20.24
rs62035375	CD3 on CM CD4+	ebi-a-GCST90001841	16	2872116	C	G	2912	0.13	0.03	0.00	0.01	20.73
rs9925166	CD3 on CM CD4+	ebi-a-GCST90001841	16	50221264	T	C	2912	0.19	0.04	0.00	0.01	24.04
rs141467190	CD3 on CM CD4+	ebi-a-GCST90001841	17	41589741	G	T	2912	1.92	0.42	0.00	0.01	20.48
rs3809841	CD3 on CM CD4+	ebi-a-GCST90001841	17	6024786	T	G	2912	-0.13	0.03	0.00	0.01	20.25
rs62232208	CD3 on CM CD4+	ebi-a-GCST90001841	22	45187219	G	A	2912	-0.15	0.03	0.00	0.01	27.20
rs4657649	CD3 on Naive CD4+	ebi-a-GCST90001842	1	167173140	C	T	2910	0.55	0.06	0.00	0.03	81.29
rs2949661	CD3 on Naive CD4+	ebi-a-GCST90001842	1	167424924	T	C	2910	0.69	0.02	0.00	0.21	789.52
rs4396110	CD3 on Naive CD4+	ebi-a-GCST90001842	1	118266529	A	G	2910	-0.13	0.03	0.00	0.01	22.60
rs4925475	CD3 on Naive CD4+	ebi-a-GCST90001842	1	229528427	C	T	2910	0.12	0.03	0.00	0.01	19.66
rs146330992	CD3 on Naive CD4+	ebi-a-GCST90001842	1	165888466	T	C	2910	0.25	0.05	0.00	0.01	25.35
rs61814872	CD3 on Naive CD4+	ebi-a-GCST90001842	1	167113055	T	C	2910	0.34	0.04	0.00	0.02	57.49
rs7530127	CD3 on Naive CD4+	ebi-a-GCST90001842	1	165671820	C	T	2910	-0.14	0.03	0.00	0.01	24.38
rs76066554	CD3 on Naive CD4+	ebi-a-GCST90001842	1	95285730	T	C	2910	-1.04	0.22	0.00	0.01	23.15
rs139257983	CD3 on Naive CD4+	ebi-a-GCST90001842	2	56038405	G	A	2910	-0.33	0.07	0.00	0.01	20.20

rs28607988	CD3 on Naive CD4+	ebi-a-GCST90001842	3	45913338	C	A	2910	0.23	0.04	0.00	0.01	41.34
rs11715223	CD3 on Naive CD4+	ebi-a-GCST90001842	3	64581733	A	G	2910	0.15	0.03	0.00	0.01	21.38
rs28535434	CD3 on Naive CD4+	ebi-a-GCST90001842	4	183742136	C	T	2910	0.19	0.04	0.00	0.01	21.23
rs12502302	CD3 on Naive CD4+	ebi-a-GCST90001842	4	186735780	T	C	2910	0.13	0.03	0.00	0.01	21.98
rs113731203	CD3 on Naive CD4+	ebi-a-GCST90001842	6	64965028	C	T	2910	-0.49	0.11	0.00	0.01	21.29
rs62465786	CD3 on Naive CD4+	ebi-a-GCST90001842	7	51722488	T	C	2910	1.07	0.24	0.00	0.01	20.28
rs112171230	CD3 on Naive CD4+	ebi-a-GCST90001842	7	70434581	T	C	2910	0.31	0.06	0.00	0.01	26.16
rs34064330	CD3 on Naive CD4+	ebi-a-GCST90001842	7	48898926	G	T	2910	-0.13	0.03	0.00	0.01	19.66
rs74744824	CD3 on Naive CD4+	ebi-a-GCST90001842	9	22044904	G	A	2910	0.35	0.08	0.00	0.01	19.94
rs146993166	CD3 on Naive CD4+	ebi-a-GCST90001842	10	82439265	T	C	2910	0.27	0.06	0.00	0.01	19.76
rs141784254	CD3 on Naive CD4+	ebi-a-GCST90001842	11	120364753	G	A	2910	-1.12	0.21	0.00	0.01	27.05
rs74620952	CD3 on Naive CD4+	ebi-a-GCST90001842	11	117753136	C	T	2910	-1.34	0.25	0.00	0.01	29.78
rs118065562	CD3 on Naive CD4+	ebi-a-GCST90001842	12	2419083	A	G	2910	-0.60	0.13	0.00	0.01	21.37
rs9318267	CD3 on Naive CD4+	ebi-a-GCST90001842	13	75011432	G	T	2910	0.14	0.03	0.00	0.01	20.33
rs2003830	CD3 on Naive CD4+	ebi-a-GCST90001842	16	430469	G	C	2910	-0.21	0.03	0.00	0.01	39.17
rs62035375	CD3 on Naive CD4+	ebi-a-GCST90001842	16	2872116	C	G	2910	0.14	0.03	0.00	0.01	23.83
rs7502332	CD3 on Naive CD4+	ebi-a-GCST90001842	17	70790532	A	G	2910	-0.14	0.03	0.00	0.01	24.39
rs113208949	CD3 on Naive CD4+	ebi-a-GCST90001842	20	9979604	T	C	2910	0.63	0.13	0.00	0.01	23.92
rs2413113	CD3 on Naive CD4+	ebi-a-GCST90001842	22	32779227	C	T	2910	0.13	0.03	0.00	0.01	22.76
rs2213429	CD3 on Naive CD4+	ebi-a-GCST90001842	22	37217172	T	C	2910	-0.16	0.03	0.00	0.01	21.65
rs62232208	CD3 on Naive CD4+	ebi-a-GCST90001842	22	45187219	G	A	2910	-0.13	0.03	0.00	0.01	23.18
rs74139031	CD3 on EM CD4+	ebi-a-GCST90001843	1	213852620	G	A	2912	-0.63	0.14	0.00	0.01	19.71
rs6684311	CD3 on EM CD4+	ebi-a-GCST90001843	1	166485891	G	C	2912	-0.23	0.04	0.00	0.01	36.09
rs150528455	CD3 on EM CD4+	ebi-a-GCST90001843	1	26740555	A	G	2912	-0.31	0.07	0.00	0.01	21.66
rs2995089	CD3 on EM CD4+	ebi-a-GCST90001843	1	167431193	A	G	2912	0.48	0.03	0.00	0.10	337.16
rs4656440	CD3 on EM CD4+	ebi-a-GCST90001843	1	165218634	G	C	2912	-0.32	0.06	0.00	0.01	25.41
rs4657649	CD3 on EM CD4+	ebi-a-GCST90001843	1	167173140	C	T	2912	0.33	0.06	0.00	0.01	28.74
rs7519927	CD3 on EM CD4+	ebi-a-GCST90001843	1	167100361	A	G	2912	-0.15	0.03	0.00	0.01	29.46
rs4514905	CD3 on EM CD4+	ebi-a-GCST90001843	2	3469702	G	A	2912	-0.14	0.03	0.00	0.01	25.09
rs7595804	CD3 on EM CD4+	ebi-a-GCST90001843	2	8424313	C	T	2912	-0.23	0.05	0.00	0.01	19.76
rs727908	CD3 on EM CD4+	ebi-a-GCST90001843	3	64819050	C	G	2912	-0.14	0.03	0.00	0.01	19.96
rs2244434	CD3 on EM CD4+	ebi-a-GCST90001843	3	158948969	A	G	2912	-0.17	0.03	0.00	0.01	24.98
rs115265205	CD3 on EM CD4+	ebi-a-GCST90001843	4	63231400	A	G	2912	1.58	0.33	0.00	0.01	22.48
rs72940579	CD3 on EM CD4+	ebi-a-GCST90001843	11	66182450	T	C	2912	-0.14	0.03	0.00	0.01	19.83
rs4288797	CD3 on EM CD4+	ebi-a-GCST90001843	12	20796638	A	C	2912	-0.60	0.12	0.00	0.01	23.29
rs28649534	CD3 on EM CD4+	ebi-a-GCST90001843	13	48439005	T	C	2912	0.22	0.05	0.00	0.01	21.44
rs62028293	CD3 on EM CD4+	ebi-a-GCST90001843	16	50264054	C	T	2912	0.24	0.05	0.00	0.01	21.51

rs62046402	CD3 on EM CD4+	ebi-a-GCST90001843	16	18003476	A	C	2912	0.39	0.08	0.00	0.01	22.01
rs73068237	CD3 on EM CD4+	ebi-a-GCST90001843	20	4574025	C	T	2912	1.93	0.40	0.00	0.01	23.63
rs226503	CD3 on EM CD4+	ebi-a-GCST90001843	22	45705241	T	G	2912	-0.20	0.04	0.00	0.01	21.13
rs61814872	CD3 on TD CD4+	ebi-a-GCST90001844	1	167113055	T	C	2903	0.23	0.04	0.00	0.01	25.75
rs4657649	CD3 on TD CD4+	ebi-a-GCST90001844	1	167173140	C	T	2903	0.28	0.06	0.00	0.01	19.68
rs1723018	CD3 on TD CD4+	ebi-a-GCST90001844	1	167433420	G	A	2903	0.27	0.03	0.00	0.03	100.96
rs141365483	CD3 on TD CD4+	ebi-a-GCST90001844	1	215951513	G	C	2903	-0.92	0.20	0.00	0.01	20.77
rs34375977	CD3 on TD CD4+	ebi-a-GCST90001844	1	17973179	A	G	2903	0.16	0.03	0.00	0.01	21.79
rs17779587	CD3 on TD CD4+	ebi-a-GCST90001844	2	196205940	T	C	2903	-0.21	0.05	0.00	0.01	21.74
rs142679567	CD3 on TD CD4+	ebi-a-GCST90001844	2	173083726	T	C	2903	0.39	0.08	0.00	0.01	22.53
rs11124860	CD3 on TD CD4+	ebi-a-GCST90001844	2	42337670	G	A	2903	-0.13	0.03	0.00	0.01	22.23
rs116132148	CD3 on TD CD4+	ebi-a-GCST90001844	2	188910093	T	A	2903	-0.62	0.14	0.00	0.01	20.58
rs4973976	CD3 on TD CD4+	ebi-a-GCST90001844	3	41638984	A	G	2903	0.15	0.03	0.00	0.01	20.16
rs7686404	CD3 on TD CD4+	ebi-a-GCST90001844	4	110748461	C	T	2903	0.18	0.04	0.00	0.01	23.70
rs992038	CD3 on TD CD4+	ebi-a-GCST90001844	4	70674836	A	G	2903	-1.44	0.32	0.00	0.01	20.07
rs6535624	CD3 on TD CD4+	ebi-a-GCST90001844	4	149587905	A	G	2903	-0.14	0.03	0.00	0.01	24.50
rs114070694	CD3 on TD CD4+	ebi-a-GCST90001844	5	133183956	T	C	2903	-0.46	0.10	0.00	0.01	20.49
rs75334371	CD3 on TD CD4+	ebi-a-GCST90001844	5	19788744	C	T	2903	0.77	0.16	0.00	0.01	22.16
rs62475031	CD3 on TD CD4+	ebi-a-GCST90001844	7	76379476	A	G	2903	-0.14	0.03	0.00	0.01	25.09
rs2719321	CD3 on TD CD4+	ebi-a-GCST90001844	8	34186859	T	C	2903	-0.14	0.03	0.00	0.01	19.62
rs6982159	CD3 on TD CD4+	ebi-a-GCST90001844	8	33292469	T	G	2903	-0.12	0.03	0.00	0.01	19.58
rs59977015	CD3 on TD CD4+	ebi-a-GCST90001844	9	133301395	T	C	2903	0.30	0.07	0.00	0.01	20.58
rs149122933	CD3 on TD CD4+	ebi-a-GCST90001844	9	115604900	G	C	2903	1.10	0.24	0.00	0.01	20.55
rs139058742	CD3 on TD CD4+	ebi-a-GCST90001844	9	2784214	G	A	2903	1.35	0.28	0.00	0.01	23.74
rs72993540	CD3 on TD CD4+	ebi-a-GCST90001844	11	108746675	T	G	2903	0.85	0.18	0.00	0.01	23.48
rs66621175	CD3 on TD CD4+	ebi-a-GCST90001844	12	6965805	C	T	2903	0.15	0.03	0.00	0.01	23.27
rs12932298	CD3 on TD CD4+	ebi-a-GCST90001844	16	17841327	A	G	2903	-0.13	0.03	0.00	0.01	21.42
rs3922850	CD3 on TD CD4+	ebi-a-GCST90001844	16	81955238	G	A	2903	-0.13	0.03	0.00	0.01	20.89
rs141595889	CD3 on TD CD4+	ebi-a-GCST90001844	18	25077062	T	G	2903	0.62	0.14	0.00	0.01	20.73
rs71339188	CD3 on TD CD4+	ebi-a-GCST90001844	19	3484982	C	T	2903	0.14	0.03	0.00	0.01	19.73
rs4657649	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	1	167173140	C	T	2911	0.41	0.06	0.00	0.02	45.26
rs7536105	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	1	117818054	C	T	2911	0.13	0.03	0.00	0.01	22.65
rs4396110	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	1	118266529	A	G	2911	-0.13	0.03	0.00	0.01	20.82
rs1317631	CD45RA- CD4+	ebi-a-GCST90001845	1	165904360	T	C	2911	-0.18	0.04	0.00	0.01	26.16

rs2949661	CD3 on CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	1	167424924	T	C	2911	0.52	0.03	0.00	0.12	406.25
rs61814872	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	1	167113055	T	C	2911	0.27	0.04	0.00	0.01	37.23
rs12141563	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	1	26589636	G	A	2911	-0.19	0.04	0.00	0.01	24.16
rs7595804	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	2	8424313	C	T	2911	-0.25	0.05	0.00	0.01	23.24
rs12497487	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	3	78194307	T	C	2911	-0.14	0.03	0.00	0.01	19.98
rs138838112	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	3	31848405	T	C	2911	0.69	0.15	0.00	0.01	20.74
rs57319220	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	3	45919992	A	G	2911	0.19	0.04	0.00	0.01	27.60
rs1077544	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	3	158945280	T	A	2911	-0.16	0.03	0.00	0.01	21.48
rs11715223	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	3	64581733	A	G	2911	0.16	0.03	0.00	0.01	22.80
rs188669685	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	5	2669391	G	C	2911	0.23	0.05	0.00	0.01	20.98
rs62423936	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	6	168668486	T	C	2911	0.72	0.16	0.00	0.01	20.84
rs117466579	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	7	85315630	C	A	2911	-0.74	0.16	0.00	0.01	20.58
rs34201586	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	9	110688268	T	C	2911	-0.24	0.05	0.00	0.01	22.13
rs11015146	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	10	26804638	C	T	2911	-0.15	0.03	0.00	0.01	19.80
rs72940579	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	11	66182450	T	C	2911	-0.15	0.03	0.00	0.01	21.62
rs138909872	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	12	64916291	T	C	2911	-0.45	0.10	0.00	0.01	20.74
rs28649534	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	13	48439005	T	C	2911	0.24	0.05	0.00	0.01	25.96
rs12884372	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	14	86036273	G	T	2911	0.24	0.05	0.00	0.01	20.25
rs117171372	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	15	27777649	C	T	2911	1.62	0.36	0.00	0.01	20.73
rs72732798	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	15	54670902	A	G	2911	0.24	0.05	0.00	0.01	20.32
rs59302791	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	16	17996315	T	C	2911	0.41	0.08	0.00	0.01	25.06
rs9925166	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	16	50221264	T	C	2911	0.20	0.04	0.00	0.01	26.36
rs148932595	CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	16	4725694	A	C	2911	-0.61	0.13	0.00	0.01	22.42
rs3809841	CD45RA- CD4+	ebi-a-GCST90001845	17	6024786	T	G	2911	-0.13	0.03	0.00	0.01	20.93

rs141467190	CD3 on CD45RA- CD4+ CD3 on	ebi-a-GCST90001845	17	41589741	G	T	2911	1.97	0.42	0.00	0.01	22.29
rs62232208	CD45RA- CD4+ CD3 on CM	ebi-a-GCST90001845	22	45187219	G	A	2911	-0.14	0.03	0.00	0.01	25.97
rs858545	CD8br CD3 on CM	ebi-a-GCST90001846	1	167461391	C	A	2910	-0.17	0.03	0.00	0.01	38.65
rs116757920	CD8br CD3 on CM	ebi-a-GCST90001846	1	117441813	A	G	2910	0.42	0.09	0.00	0.01	21.56
rs1723018	CD8br CD3 on CM	ebi-a-GCST90001846	1	167433420	G	A	2910	0.42	0.03	0.00	0.08	268.01
rs61814886	CD8br CD3 on CM	ebi-a-GCST90001846	1	167136405	A	G	2910	0.25	0.04	0.00	0.01	34.72
rs111281575	CD8br CD3 on CM	ebi-a-GCST90001846	1	166737851	C	G	2910	0.32	0.06	0.00	0.01	27.54
rs12133696	CD8br CD3 on CM	ebi-a-GCST90001846	1	165062200	A	G	2910	0.13	0.03	0.00	0.01	19.89
rs141851092	CD8br CD3 on CM	ebi-a-GCST90001846	4	178824850	A	T	2910	0.64	0.13	0.00	0.01	24.71
rs192330157	CD8br CD3 on CM	ebi-a-GCST90001846	4	161357515	T	A	2910	-0.66	0.15	0.00	0.01	20.73
rs7710248	CD8br CD3 on CM	ebi-a-GCST90001846	5	178194669	C	T	2910	-0.13	0.03	0.00	0.01	21.05
rs34597764	CD8br CD3 on CM	ebi-a-GCST90001846	10	97262994	A	G	2910	-0.34	0.08	0.00	0.01	20.40
rs2156444	CD8br CD3 on CM	ebi-a-GCST90001846	11	123175580	G	C	2910	-0.14	0.03	0.00	0.01	20.98
rs146936815	CD8br CD3 on CM	ebi-a-GCST90001846	11	67489988	T	C	2910	-0.32	0.07	0.00	0.01	19.78
rs79117150	CD8br CD3 on CM	ebi-a-GCST90001846	14	100649692	A	G	2910	0.22	0.05	0.00	0.01	20.43
rs8024202	CD8br CD3 on CM	ebi-a-GCST90001846	15	97334659	A	G	2910	-0.13	0.03	0.00	0.01	21.28
rs62029957	CD8br CD3 on CM	ebi-a-GCST90001846	16	50213168	A	G	2910	0.23	0.04	0.00	0.01	29.33
rs3809841	CD8br CD3 on CM	ebi-a-GCST90001846	17	6024786	T	G	2910	-0.12	0.03	0.00	0.01	19.71
rs59436607	CD8br CD3 on CM	ebi-a-GCST90001846	19	21356827	T	C	2910	-0.25	0.05	0.00	0.01	20.21
rs12986020	CD8br CD3 on CM	ebi-a-GCST90001846	19	36659629	A	G	2910	0.13	0.03	0.00	0.01	20.03
rs4814102	CD8br CD3 on CM	ebi-a-GCST90001846	20	1291928	A	G	2910	0.41	0.09	0.00	0.01	21.61
rs1723018	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	1	167433420	G	A	3060	0.39	0.03	0.00	0.07	224.39
rs111281575	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	1	166737851	C	G	3060	0.29	0.06	0.00	0.01	22.41
rs12128267	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	1	222089002	G	A	3060	-0.16	0.03	0.00	0.01	21.58
rs61814886	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	1	167136405	A	G	3060	0.20	0.04	0.00	0.01	21.00
rs953808	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	1	167403844	C	G	3060	0.18	0.04	0.00	0.01	20.28
rs74723288	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	2	106644972	A	G	3060	-0.17	0.04	0.00	0.01	22.48
rs4668614	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	2	5593978	A	G	3060	0.12	0.03	0.00	0.01	21.53
rs435917	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	3	286552	C	T	3060	0.16	0.04	0.00	0.01	20.23
rs7708945	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	5	26402250	G	A	3060	-0.70	0.15	0.00	0.01	20.62
rs152772	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	5	13129431	A	C	3060	-0.12	0.03	0.00	0.01	19.57
rs181802824	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	5	40515928	G	A	3060	-0.40	0.08	0.00	0.01	23.81
rs17159201	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	7	111686301	G	A	3060	-1.17	0.25	0.00	0.01	21.45
rs78179244	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	8	5720711	G	T	3060	-3.13	0.70	0.00	0.01	20.25
rs79022968	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	8	125638873	A	G	3060	0.69	0.14	0.00	0.01	25.70
rs1955077	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	8	118278954	C	T	3060	-0.13	0.03	0.00	0.01	23.75

rs75535842	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	8	138415335	A	C	3060	-0.27	0.06	0.00	0.01	22.00
rs17605113	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	10	37182452	T	C	3060	0.94	0.19	0.00	0.01	23.98
rs73167431	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	13	21343664	T	C	3060	-1.75	0.37	0.00	0.01	22.71
rs118106483	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	13	22483321	A	G	3060	0.59	0.13	0.00	0.01	20.19
rs9318267	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	13	75011432	G	T	3060	0.13	0.03	0.00	0.01	19.86
rs28413717	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	14	94742681	T	C	3060	-0.21	0.05	0.00	0.01	19.97
rs288415	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	15	98166209	A	G	3060	0.28	0.06	0.00	0.01	25.22
rs12596540	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	16	10970476	G	A	3060	0.21	0.03	0.00	0.01	45.79
rs4889018	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	16	79773291	C	T	3060	-0.13	0.03	0.00	0.01	20.64
rs76073410	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	17	42400157	G	T	3060	0.25	0.05	0.00	0.01	21.55
rs73283178	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	17	1152909	T	C	3060	-0.28	0.06	0.00	0.01	20.68
rs75407914	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	18	65188496	A	G	3060	-0.49	0.11	0.00	0.01	19.94
rs2742060	CD3 on HLA DR+ T cell	ebi-a-GCST90001847	19	55650687	A	G	3060	0.18	0.04	0.00	0.01	26.77
rs59533906	CD3 on NKT	ebi-a-GCST90001848	1	199139803	T	A	3113	1.20	0.25	0.00	0.01	22.07
rs13009946	CD3 on NKT	ebi-a-GCST90001848	2	219007752	G	T	3113	-0.13	0.03	0.00	0.01	25.88
rs79439047	CD3 on NKT	ebi-a-GCST90001848	2	109771818	A	G	3113	-0.15	0.03	0.00	0.01	21.74
rs111570648	CD3 on NKT	ebi-a-GCST90001848	3	90325908	C	T	3113	0.33	0.07	0.00	0.01	19.57
rs115485809	CD3 on NKT	ebi-a-GCST90001848	4	174374287	T	C	3113	-0.48	0.11	0.00	0.01	20.09
rs6928357	CD3 on NKT	ebi-a-GCST90001848	6	100913553	A	C	3113	0.23	0.05	0.00	0.01	22.17
rs117913408	CD3 on NKT	ebi-a-GCST90001848	6	102173117	G	A	3113	0.43	0.08	0.00	0.01	30.65
rs79086781	CD3 on NKT	ebi-a-GCST90001848	6	100526652	T	C	3113	0.43	0.07	0.00	0.01	39.17
rs73429561	CD3 on NKT	ebi-a-GCST90001848	7	122844882	C	A	3113	0.31	0.07	0.00	0.01	21.06
rs7798325	CD3 on NKT	ebi-a-GCST90001848	7	62717148	T	A	3113	0.87	0.19	0.00	0.01	20.79
rs78369669	CD3 on NKT	ebi-a-GCST90001848	11	93085233	G	T	3113	0.52	0.12	0.00	0.01	20.57
rs489642	CD3 on NKT	ebi-a-GCST90001848	12	63783732	T	G	3113	-0.12	0.03	0.00	0.01	21.20
rs59727684	CD3 on NKT	ebi-a-GCST90001848	16	20090636	T	C	3113	-1.07	0.22	0.00	0.01	22.72
rs61572747	CD3 on NKT	ebi-a-GCST90001848	17	43460891	G	A	3113	0.13	0.03	0.00	0.01	25.25
rs7239036	CD3 on NKT	ebi-a-GCST90001848	18	52411825	A	G	3113	0.51	0.11	0.00	0.01	20.61
rs2288522	CD3 on NKT	ebi-a-GCST90001848	19	55708475	T	G	3113	0.15	0.03	0.00	0.01	19.71
rs13345102	CD3 on NKT	ebi-a-GCST90001848	19	17535188	T	C	3113	0.17	0.03	0.00	0.01	28.32
rs145799392	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	1	30362673	T	C	3060	-0.34	0.07	0.00	0.01	22.70
rs114102310	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	1	165023848	A	T	3060	-0.19	0.04	0.00	0.01	20.81
rs10753692	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	1	165805459	T	C	3060	0.12	0.03	0.00	0.01	20.81
rs1723018	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	1	167433420	G	A	3060	0.44	0.03	0.00	0.09	287.43
rs6684311	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	1	166485891	G	C	3060	-0.20	0.04	0.00	0.01	28.16
rs55952666	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	2	240269751	C	T	3060	0.25	0.06	0.00	0.01	20.89
rs10195369	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	2	3601711	A	G	3060	-0.22	0.05	0.00	0.01	20.07
rs6765892	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	3	74263840	T	C	3060	0.17	0.04	0.00	0.01	21.12
rs13072593	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	3	150288489	G	A	3060	0.14	0.03	0.00	0.01	21.41
rs10933796	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	3	104667511	A	G	3060	0.12	0.03	0.00	0.01	19.62
rs27265	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	5	50161106	T	C	3060	0.19	0.04	0.00	0.01	26.87

rs13170201	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	5	30950823	C	T	3060	-0.14	0.03	0.00	0.01	21.81
rs16867696	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	5	88794820	C	A	3060	-0.35	0.07	0.00	0.01	25.70
rs188731571	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	7	25033008	T	C	3060	0.79	0.18	0.00	0.01	20.22
rs147209445	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	8	17728096	T	C	3060	0.55	0.12	0.00	0.01	19.91
rs75535842	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	8	138415335	A	C	3060	-0.28	0.06	0.00	0.01	24.27
rs9408777	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	9	105794	T	A	3060	0.13	0.03	0.00	0.01	21.22
rs59738549	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	10	116394226	G	C	3060	0.39	0.06	0.00	0.01	40.36
rs11042750	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	11	10372959	T	C	3060	0.13	0.03	0.00	0.01	21.45
rs75771396	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	11	124869047	C	T	3060	-0.30	0.07	0.00	0.01	21.13
rs73167431	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	13	21343664	T	C	3060	-1.73	0.37	0.00	0.01	22.21
rs4787901	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	16	27027966	G	T	3060	0.13	0.03	0.00	0.01	21.28
rs113710453	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	16	89099756	A	G	3060	0.27	0.06	0.00	0.01	20.43
rs12596540	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	16	10970476	G	A	3060	0.14	0.03	0.00	0.01	21.91
rs62079658	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	17	41439784	A	G	3060	0.15	0.03	0.00	0.01	25.56
rs2010043	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	17	73735326	A	C	3060	0.22	0.04	0.00	0.01	26.08
rs2742060	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	19	55650687	A	G	3060	0.18	0.04	0.00	0.01	24.33
rs1529714	CD3 on HLA DR+ CD4+	ebi-a-GCST90001849	19	19793484	A	G	3060	-0.14	0.03	0.00	0.01	21.06
rs1773542	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	1	167432949	C	T	3060	0.28	0.03	0.00	0.04	112.82
rs12141641	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	1	167408565	T	G	3060	-0.18	0.04	0.00	0.01	20.02
rs2863272	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	1	167797924	A	G	3060	0.17	0.03	0.00	0.01	26.36
rs12032130	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	1	167156419	T	C	3060	0.14	0.03	0.00	0.01	25.44
rs56383740	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	1	29694550	C	T	3060	-0.55	0.12	0.00	0.01	19.63
rs4668614	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	2	5593978	A	G	3060	0.13	0.03	0.00	0.01	22.86
rs4608913	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	5	131760418	G	A	3060	0.21	0.05	0.00	0.01	19.82
rs181802824	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	5	40515928	G	A	3060	-0.39	0.08	0.00	0.01	22.68
rs864075	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	5	11004941	T	C	3060	-0.16	0.03	0.00	0.01	21.47
rs2036009	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	5	26389125	A	G	3060	0.63	0.13	0.00	0.01	22.39
rs57740770	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	6	32067435	G	T	3060	-0.16	0.03	0.00	0.01	20.25
rs7788673	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	7	79908084	T	A	3060	-0.16	0.03	0.00	0.01	23.20
rs7782316	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	7	5305788	T	C	3060	0.50	0.09	0.00	0.01	28.75
rs4742559	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	9	9015895	C	T	3060	0.28	0.06	0.00	0.01	20.18
rs78539923	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	9	38673280	A	C	3060	0.29	0.06	0.00	0.01	19.78
rs11233873	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	11	83711222	C	A	3060	0.24	0.05	0.00	0.01	21.66
rs76442794	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	11	122175217	G	A	3060	-0.35	0.07	0.00	0.01	23.06
rs11170960	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	12	54905021	A	G	3060	0.35	0.08	0.00	0.01	19.64
rs73167431	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	13	21343664	T	C	3060	-1.66	0.37	0.00	0.01	20.28
rs11624277	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	14	38072374	A	G	3060	-1.17	0.26	0.00	0.01	20.02

rs288415	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	15	98166209	A	G	3060	0.25	0.06	0.00	0.01	20.88
rs6498116	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	16	10969282	T	A	3060	0.14	0.03	0.00	0.01	21.26
rs8057798	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	16	25865790	T	G	3060	0.14	0.03	0.00	0.01	20.14
rs79048891	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	18	70950759	A	T	3060	0.17	0.04	0.00	0.01	20.41
rs112025123	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	18	46992743	C	T	3060	-0.49	0.10	0.00	0.01	23.93
rs116911862	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	18	755834	A	G	3060	1.01	0.22	0.00	0.01	20.33
rs115825160	CD3 on HLA DR+ CD8br	ebi-a-GCST90001850	22	22817792	A	C	3060	-0.37	0.08	0.00	0.01	19.81
rs4657649	CD3 on T cell	ebi-a-GCST90001851	1	167173140	C	T	2919	0.36	0.06	0.00	0.01	34.99
rs1617988	CD3 on T cell	ebi-a-GCST90001851	1	167436300	C	T	2919	0.43	0.03	0.00	0.08	267.29
rs114672530	CD3 on T cell	ebi-a-GCST90001851	1	168306279	A	G	2919	-0.52	0.10	0.00	0.01	24.98
rs148114970	CD3 on T cell	ebi-a-GCST90001851	1	85390287	C	A	2919	0.28	0.06	0.00	0.01	20.64
rs12729972	CD3 on T cell	ebi-a-GCST90001851	1	118256346	T	C	2919	-0.14	0.03	0.00	0.01	24.93
rs10801951	CD3 on T cell	ebi-a-GCST90001851	1	117781742	T	C	2919	-0.15	0.03	0.00	0.01	23.33
rs6684311	CD3 on T cell	ebi-a-GCST90001851	1	166485891	G	C	2919	-0.22	0.04	0.00	0.01	32.36
rs75169391	CD3 on T cell	ebi-a-GCST90001851	1	165284481	T	C	2919	-0.34	0.07	0.00	0.01	24.04
rs116128731	CD3 on T cell	ebi-a-GCST90001851	2	215390543	A	C	2919	0.46	0.10	0.00	0.01	21.63
rs75466245	CD3 on T cell	ebi-a-GCST90001851	2	44973335	C	T	2919	0.26	0.06	0.00	0.01	20.32
rs11885872	CD3 on T cell	ebi-a-GCST90001851	2	104570579	G	A	2919	-0.95	0.20	0.00	0.01	22.75
rs2122146	CD3 on T cell	ebi-a-GCST90001851	3	158951696	C	T	2919	-0.15	0.03	0.00	0.01	19.99
rs72987628	CD3 on T cell	ebi-a-GCST90001851	3	131994846	G	T	2919	0.20	0.04	0.00	0.01	19.76
rs6769221	CD3 on T cell	ebi-a-GCST90001851	3	78188083	A	G	2919	0.33	0.07	0.00	0.01	20.04
rs41289614	CD3 on T cell	ebi-a-GCST90001851	3	45972492	T	C	2919	0.16	0.03	0.00	0.01	21.58
rs4456952	CD3 on T cell	ebi-a-GCST90001851	4	20480323	T	C	2919	-0.39	0.08	0.00	0.01	21.23
rs144695228	CD3 on T cell	ebi-a-GCST90001851	5	79114377	T	C	2919	1.99	0.44	0.00	0.01	20.73
rs185805208	CD3 on T cell	ebi-a-GCST90001851	6	118163760	A	C	2919	-0.59	0.13	0.00	0.01	19.98
rs35750035	CD3 on T cell	ebi-a-GCST90001851	7	130765457	C	A	2919	0.19	0.04	0.00	0.01	20.18
rs61618798	CD3 on T cell	ebi-a-GCST90001851	7	38070274	A	C	2919	-0.17	0.03	0.00	0.01	25.35
rs28636970	CD3 on T cell	ebi-a-GCST90001851	8	75889021	G	A	2919	0.56	0.11	0.00	0.01	26.13
rs6479155	CD3 on T cell	ebi-a-GCST90001851	9	105868652	C	T	2919	-0.13	0.03	0.00	0.01	23.64
rs10996702	CD3 on T cell	ebi-a-GCST90001851	10	67597707	A	G	2919	0.15	0.03	0.00	0.01	22.17
rs113763504	CD3 on T cell	ebi-a-GCST90001851	10	81110536	A	G	2919	-0.82	0.18	0.00	0.01	22.08
rs59684757	CD3 on T cell	ebi-a-GCST90001851	14	86146234	G	T	2919	0.14	0.03	0.00	0.01	23.38
rs12591149	CD3 on T cell	ebi-a-GCST90001851	15	25176517	A	G	2919	0.13	0.03	0.00	0.01	20.85
rs17614424	CD3 on T cell	ebi-a-GCST90001851	15	36139906	T	C	2919	0.46	0.10	0.00	0.01	22.63
rs2520957	CD3 on T cell	ebi-a-GCST90001851	16	18293116	T	C	2919	-0.14	0.03	0.00	0.01	24.60
rs55799444	CD3 on T cell	ebi-a-GCST90001851	16	90107716	T	C	2919	-0.13	0.03	0.00	0.01	21.17
rs62029957	CD3 on T cell	ebi-a-GCST90001851	16	50213168	A	G	2919	0.19	0.04	0.00	0.01	19.76
rs141421236	CD3 on T cell	ebi-a-GCST90001851	16	4780201	C	G	2919	-0.71	0.14	0.00	0.01	26.64
rs1502523	CD3 on T cell	ebi-a-GCST90001851	17	51481273	A	G	2919	0.13	0.03	0.00	0.01	21.90
rs71381322	CD3 on T cell	ebi-a-GCST90001851	17	48900824	A	G	2919	1.59	0.31	0.00	0.01	25.84
rs1529714	CD3 on T cell	ebi-a-GCST90001851	19	19793484	A	G	2919	-0.14	0.03	0.00	0.01	21.56
rs704859	CD3 on CD39+ resting Treg	ebi-a-GCST90001852	1	167500815	C	T	2649	0.14	0.03	0.00	0.01	23.59
rs1723016	CD3 on CD39+ resting Treg	ebi-a-GCST90001852	1	167433056	C	T	2649	0.33	0.03	0.00	0.05	139.94

rs16859347	CD3 on CD39+ resting Treg CD3 on	ebi-a-GCST90001852	1	167603757	C	T	2649	0.21	0.04	0.00	0.01	23.86
rs143008344	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	3	64946405	T	C	2649	-0.35	0.08	0.00	0.01	20.78
rs145172244	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	4	172921509	G	A	2649	-0.40	0.09	0.00	0.01	20.18
rs73001512	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	4	174188120	G	A	2649	-0.36	0.07	0.00	0.01	28.00
rs150879948	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	6	90475932	G	C	2649	-1.46	0.33	0.00	0.01	19.67
rs12215509	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	6	16006964	A	G	2649	-0.12	0.03	0.00	0.01	19.65
rs7741756	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	6	118123272	A	G	2649	-0.28	0.06	0.00	0.01	21.91
rs185763975	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	7	30998786	A	G	2649	-0.41	0.09	0.00	0.01	20.76
rs16921089	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	9	104759303	T	G	2649	-0.73	0.16	0.00	0.01	20.60
rs16929000	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	9	9165321	A	T	2649	0.25	0.05	0.00	0.01	24.49
rs61874707	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	10	121310166	A	G	2649	-1.01	0.21	0.00	0.01	22.87
rs79844317	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	10	100127250	T	C	2649	-0.39	0.09	0.00	0.01	19.83
rs78574867	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	11	133249133	C	T	2649	-0.91	0.20	0.00	0.01	20.19
rs140395477	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	13	79717709	G	C	2649	-1.21	0.25	0.00	0.01	23.26
rs55799444	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	16	90107716	T	C	2649	-0.13	0.03	0.00	0.01	19.76
rs12449842	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	17	48077390	G	A	2649	-0.28	0.06	0.00	0.01	19.97
rs146187364	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	19	10553511	C	T	2649	-0.37	0.08	0.00	0.01	20.88
rs2832129	CD39+ resting Treg CD3 on	ebi-a-GCST90001852	21	30275535	C	G	2649	0.16	0.03	0.00	0.01	21.13
rs12138291	activated Treg CD3 on	ebi-a-GCST90001853	1	166464476	A	G	2919	-0.28	0.04	0.00	0.02	53.21
rs12401936	activated Treg CD3 on	ebi-a-GCST90001853	1	163328756	G	A	2919	0.17	0.04	0.00	0.01	21.27
rs552999	activated Treg CD3 on	ebi-a-GCST90001853	1	168700134	A	C	2919	-0.16	0.03	0.00	0.01	29.15
rs4396110	activated Treg CD3 on	ebi-a-GCST90001853	1	118266529	A	G	2919	-0.12	0.03	0.00	0.01	19.71
rs35055340	activated Treg CD3 on	ebi-a-GCST90001853	1	165314063	T	C	2919	-0.49	0.08	0.00	0.01	41.30
rs72758215	activated Treg	ebi-a-GCST90001853	1	234250218	C	T	2919	-0.14	0.03	0.00	0.01	19.58

rs2949661	CD3 on activated	ebi-a-GCST90001853	1	167424924	T	C	2919	0.62	0.03	0.00	0.17	606.11
rs114672530	Treg CD3 on activated	ebi-a-GCST90001853	1	168306279	A	G	2919	-0.62	0.10	0.00	0.01	34.85
rs4728966	Treg CD3 on activated	ebi-a-GCST90001853	7	90981869	G	A	2919	0.22	0.05	0.00	0.01	20.20
rs78694250	Treg CD3 on activated	ebi-a-GCST90001853	7	156067251	A	G	2919	-0.46	0.10	0.00	0.01	21.14
rs148303369	Treg CD3 on activated	ebi-a-GCST90001853	9	28514040	C	T	2919	0.33	0.07	0.00	0.01	23.02
rs141784254	Treg CD3 on activated	ebi-a-GCST90001853	11	120364753	G	A	2919	-0.97	0.22	0.00	0.01	19.80
rs79041458	Treg CD3 on activated	ebi-a-GCST90001853	11	30021259	A	G	2919	1.26	0.28	0.00	0.01	20.35
rs4767280	Treg CD3 on activated	ebi-a-GCST90001853	12	115363953	T	C	2919	-0.12	0.03	0.00	0.01	19.85
rs55740714	Treg CD3 on activated	ebi-a-GCST90001853	12	95185923	C	T	2919	-0.29	0.06	0.00	0.01	20.78
rs59684757	Treg CD3 on activated	ebi-a-GCST90001853	14	86146234	G	T	2919	0.14	0.03	0.00	0.01	22.66
rs78043002	Treg CD3 on activated	ebi-a-GCST90001853	15	36111764	G	T	2919	0.32	0.07	0.00	0.01	21.37
rs8024202	Treg CD3 on activated	ebi-a-GCST90001853	15	97334659	A	G	2919	-0.13	0.03	0.00	0.01	21.54
rs59302791	Treg CD3 on activated	ebi-a-GCST90001853	16	17996315	T	C	2919	0.38	0.08	0.00	0.01	21.74
rs77724325	Treg CD3 on activated	ebi-a-GCST90001853	16	52834997	T	C	2919	-0.94	0.20	0.00	0.01	22.23
rs138786273	Treg CD3 on activated	ebi-a-GCST90001853	17	21944338	A	G	2919	-0.29	0.07	0.00	0.01	19.65
rs142664794	Treg CD3 on activated	ebi-a-GCST90001853	21	37681268	T	C	2919	0.35	0.08	0.00	0.01	19.78
rs12064796	CD39+ activated	ebi-a-GCST90001854	1	20141920	A	G	2919	0.12	0.03	0.00	0.01	19.75
rs12138291	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	1	166464476	A	G	2919	-0.26	0.04	0.00	0.02	45.99
rs35055340	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	1	165314063	T	C	2919	-0.45	0.08	0.00	0.01	35.08
rs552999	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	1	168700134	A	C	2919	-0.18	0.03	0.00	0.01	33.88
rs186524272	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	1	167573289	G	C	2919	-0.34	0.07	0.00	0.01	27.21
rs12401936	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	1	163328756	G	A	2919	0.17	0.04	0.00	0.01	19.63

rs2949661	CD3 on CD39+ activated	ebi-a-GCST90001854	1	167424924	T	C	2919	0.58	0.03	0.00	0.15	530.08
rs74425152	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	2	241271589	G	A	2919	0.93	0.21	0.00	0.01	20.49
rs4685239	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	3	15202886	G	A	2919	-0.14	0.03	0.00	0.01	22.28
rs1389168	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	4	108801664	C	T	2919	-0.13	0.03	0.00	0.01	20.67
rs10491313	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	5	141216310	G	A	2919	0.16	0.04	0.00	0.01	20.79
rs140156664	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	7	70488258	T	C	2919	-0.32	0.07	0.00	0.01	24.61
rs78694250	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	7	156067251	A	G	2919	-0.46	0.10	0.00	0.01	21.54
rs2240626	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	7	151089130	C	T	2919	-0.19	0.04	0.00	0.01	20.09
rs55772918	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	8	101654508	A	G	2919	-0.21	0.05	0.00	0.01	19.65
rs7868444	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	9	28515256	G	C	2919	-0.32	0.07	0.00	0.01	21.38
rs10882659	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	10	97510704	C	T	2919	-0.22	0.03	0.00	0.02	67.27
rs79041458	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	11	30021259	A	G	2919	1.29	0.28	0.00	0.01	21.42
rs6589911	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	11	99014189	A	T	2919	-0.23	0.05	0.00	0.01	21.88
rs74377561	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	12	103510349	G	A	2919	0.19	0.04	0.00	0.01	19.70
rs55740714	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	12	95185923	C	T	2919	-0.30	0.06	0.00	0.01	22.99
rs59302791	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	16	17996315	T	C	2919	0.37	0.08	0.00	0.01	21.67
rs77724325	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	16	52834997	T	C	2919	-0.94	0.20	0.00	0.01	22.44
rs181383275	Treg CD3 on CD39+ activated	ebi-a-GCST90001854	17	3860393	T	C	2919	0.82	0.18	0.00	0.01	20.56

rs73063535	CD3 on CD39+ activated Treg	ebi-a-GCST90001854	19	49422652	T	C	2919	0.19	0.04	0.00	0.01	19.62
rs11698085	CD3 on CD39+ activated Treg	ebi-a-GCST90001854	20	62036301	C	G	2919	0.14	0.03	0.00	0.01	21.10
rs142664794	CD3 on CD39+ activated Treg	ebi-a-GCST90001854	21	37681268	T	C	2919	0.35	0.08	0.00	0.01	20.22
rs869139	CD3 on secreting	ebi-a-GCST90001855	1	26527699	C	T	2919	-0.13	0.03	0.00	0.01	21.62
rs114672530	CD3 on secreting	ebi-a-GCST90001855	1	168306279	A	G	2919	-0.68	0.11	0.00	0.01	41.63
rs2949661	CD3 on secreting	ebi-a-GCST90001855	1	167424924	T	C	2919	0.61	0.03	0.00	0.17	590.76
rs4396110	CD3 on secreting	ebi-a-GCST90001855	1	118266529	A	G	2919	-0.13	0.03	0.00	0.01	22.49
rs115839712	CD3 on secreting	ebi-a-GCST90001855	1	75888556	A	T	2919	-0.43	0.10	0.00	0.01	20.11
rs6684311	CD3 on secreting	ebi-a-GCST90001855	1	166485891	G	C	2919	-0.27	0.04	0.00	0.02	46.61
rs4656440	CD3 on secreting	ebi-a-GCST90001855	1	165218634	G	C	2919	-0.35	0.06	0.00	0.01	31.30
rs142130759	CD3 on secreting	ebi-a-GCST90001855	1	166075360	A	G	2919	0.69	0.14	0.00	0.01	25.78
rs4657649	CD3 on secreting	ebi-a-GCST90001855	1	167173140	C	T	2919	0.35	0.06	0.00	0.01	32.45
rs75466245	CD3 on secreting	ebi-a-GCST90001855	2	44973335	C	T	2919	0.26	0.06	0.00	0.01	19.94
rs57844740	CD3 on secreting	ebi-a-GCST90001855	3	127163016	A	G	2919	0.37	0.08	0.00	0.01	21.54
rs116168222	CD3 on secreting	ebi-a-GCST90001855	4	181401728	T	C	2919	-0.44	0.10	0.00	0.01	20.61
rs1324073	CD3 on secreting	ebi-a-GCST90001855	6	88822616	C	G	2919	-0.15	0.03	0.00	0.01	26.99
rs142935756	CD3 on secreting	ebi-a-GCST90001855	6	68280346	G	A	2919	-0.94	0.20	0.00	0.01	22.50
rs7094641	CD3 on secreting	ebi-a-GCST90001855	10	67598745	A	G	2919	0.14	0.03	0.00	0.01	19.68
rs74620952	CD3 on secreting	ebi-a-GCST90001855	11	117753136	C	T	2919	-1.11	0.25	0.00	0.01	19.87
rs4763361	CD3 on secreting	ebi-a-GCST90001855	12	14119860	G	C	2919	1.75	0.39	0.00	0.01	19.91
rs12884372	CD3 on secreting	ebi-a-GCST90001855	14	86036273	G	T	2919	0.26	0.05	0.00	0.01	24.13
rs78042544	CD3 on secreting	ebi-a-GCST90001855	15	36121803	G	A	2919	0.43	0.09	0.00	0.01	20.97
rs8024202	CD3 on secreting	ebi-a-GCST90001855	15	97334659	A	G	2919	-0.14	0.03	0.00	0.01	23.71
rs55799444	CD3 on secreting	ebi-a-GCST90001855	16	90107716	T	C	2919	-0.13	0.03	0.00	0.01	19.94
rs141467190	CD3 on secreting	ebi-a-GCST90001855	17	41589741	G	T	2919	1.88	0.42	0.00	0.01	20.28
rs72697323	CD39+ secreting CD3 on	ebi-a-GCST90001856	1	166617824	T	C	2919	-0.42	0.09	0.00	0.01	21.94
rs76540213	CD39+ secreting CD3 on	ebi-a-GCST90001856	1	166035343	T	C	2919	0.53	0.10	0.00	0.01	29.94
rs61814872	CD39+ secreting CD3 on	ebi-a-GCST90001856	1	167113055	T	C	2919	0.28	0.04	0.00	0.01	38.92
rs79881821	CD39+ secreting CD3 on	ebi-a-GCST90001856	1	209224498	T	C	2919	-0.25	0.05	0.00	0.01	20.82
rs75831635	CD39+ secreting CD3 on	ebi-a-GCST90001856	1	91068234	T	C	2919	0.28	0.06	0.00	0.01	20.24
rs74118738	CD39+ secreting	ebi-a-GCST90001856	1	156667074	A	G	2919	0.43	0.09	0.00	0.01	20.77

rs2949661	CD3 on CD39+ secreting CD3 on	ebi-a-GCST90001856	1	167424924	T	C	2919	0.55	0.03	0.00	0.14	455.99
rs12742947	CD39+ secreting CD3 on	ebi-a-GCST90001856	1	165193662	A	G	2919	-0.23	0.05	0.00	0.01	26.42
rs2055631	CD39+ secreting CD3 on	ebi-a-GCST90001856	2	114898402	T	C	2919	-0.16	0.03	0.00	0.01	21.57
rs11686866	CD39+ secreting CD3 on	ebi-a-GCST90001856	2	88740296	A	G	2919	-0.15	0.03	0.00	0.01	21.01
rs164962	CD39+ secreting CD3 on	ebi-a-GCST90001856	3	8690338	C	T	2919	-0.19	0.04	0.00	0.01	22.46
rs145438716	CD39+ secreting CD3 on	ebi-a-GCST90001856	3	127159039	G	A	2919	0.38	0.08	0.00	0.01	21.61
rs28547902	CD39+ secreting CD3 on	ebi-a-GCST90001856	4	7893585	C	G	2919	0.19	0.04	0.00	0.01	20.85
rs73238001	CD39+ secreting CD3 on	ebi-a-GCST90001856	4	42867440	C	T	2919	-0.43	0.09	0.00	0.01	21.93
rs12502302	CD39+ secreting CD3 on	ebi-a-GCST90001856	4	186735780	T	C	2919	0.13	0.03	0.00	0.01	22.01
rs79338266	CD39+ secreting CD3 on	ebi-a-GCST90001856	5	52158890	A	T	2919	-0.77	0.17	0.00	0.01	21.64
rs17170861	CD39+ secreting CD3 on	ebi-a-GCST90001856	7	37113953	T	C	2919	0.46	0.10	0.00	0.01	21.62
rs112692180	CD39+ secreting CD3 on	ebi-a-GCST90001856	8	19027810	C	A	2919	-0.23	0.05	0.00	0.01	20.29
rs35922476	CD39+ secreting CD3 on	ebi-a-GCST90001856	9	8934768	T	C	2919	-0.13	0.03	0.00	0.01	23.57
rs2026334	CD39+ secreting CD3 on	ebi-a-GCST90001856	9	137822101	A	G	2919	0.34	0.07	0.00	0.01	20.58
rs11188673	CD39+ secreting CD3 on	ebi-a-GCST90001856	10	97988763	A	G	2919	0.18	0.04	0.00	0.01	20.83
rs55740714	CD39+ secreting CD3 on	ebi-a-GCST90001856	12	95185923	C	T	2919	-0.29	0.06	0.00	0.01	20.03
rs138565853	CD39+ secreting CD3 on	ebi-a-GCST90001856	13	42836319	T	C	2919	0.54	0.12	0.00	0.01	20.70
rs8024202	CD39+ secreting CD3 on	ebi-a-GCST90001856	15	97334659	A	G	2919	-0.13	0.03	0.00	0.01	22.41
rs181229284	CD39+ secreting CD3 on	ebi-a-GCST90001856	17	51757682	T	C	2919	-1.12	0.23	0.00	0.01	22.69
rs113711222	CD39+ secreting CD3 on	ebi-a-GCST90001856	19	22042048	A	G	2919	0.26	0.06	0.00	0.01	21.33
rs6099186	CD39+ secreting CD3 on	ebi-a-GCST90001856	20	55107273	C	T	2919	0.13	0.03	0.00	0.01	20.83
rs6085139	CD39+ secreting CD3 on	ebi-a-GCST90001856	20	5376309	A	C	2919	-0.13	0.03	0.00	0.01	20.13
rs2949661	activated & secreting CD3 on	ebi-a-GCST90001857	1	167424924	T	C	2919	0.63	0.03	0.00	0.18	635.88
rs12138291	activated & secreting	ebi-a-GCST90001857	1	166464476	A	G	2919	-0.28	0.04	0.00	0.02	54.22

rs869139	CD3 on activated & secreting CD3 on	ebi-a-GCST90001857	1	26527699	C	T	2919	-0.13	0.03	0.00	0.01	21.43
rs35055340	activated & secreting CD3 on	ebi-a-GCST90001857	1	165314063	T	C	2919	-0.47	0.08	0.00	0.01	36.77
rs12401936	activated & secreting CD3 on	ebi-a-GCST90001857	1	163328756	G	A	2919	0.17	0.04	0.00	0.01	20.26
rs552999	activated & secreting CD3 on	ebi-a-GCST90001857	1	168700134	A	C	2919	-0.15	0.03	0.00	0.01	25.20
rs4396110	activated & secreting CD3 on	ebi-a-GCST90001857	1	118266529	A	G	2919	-0.13	0.03	0.00	0.01	21.28
rs114672530	activated & secreting CD3 on	ebi-a-GCST90001857	1	168306279	A	G	2919	-0.65	0.10	0.00	0.01	37.92
rs142394936	activated & secreting CD3 on	ebi-a-GCST90001857	3	31829907	G	T	2919	0.68	0.15	0.00	0.01	19.63
rs57844740	activated & secreting CD3 on	ebi-a-GCST90001857	3	127163016	A	G	2919	0.38	0.08	0.00	0.01	22.04
rs2595260	activated & secreting CD3 on	ebi-a-GCST90001857	3	158937938	C	T	2919	-0.15	0.03	0.00	0.01	19.89
rs78694250	activated & secreting CD3 on	ebi-a-GCST90001857	7	156067251	A	G	2919	-0.46	0.10	0.00	0.01	21.01
rs148303369	activated & secreting CD3 on	ebi-a-GCST90001857	9	28514040	C	T	2919	0.33	0.07	0.00	0.01	22.43
rs79041458	activated & secreting CD3 on	ebi-a-GCST90001857	11	30021259	A	G	2919	1.26	0.28	0.00	0.01	20.29
rs74620952	activated & secreting CD3 on	ebi-a-GCST90001857	11	117753136	C	T	2919	-1.10	0.25	0.00	0.01	19.80
rs59684757	activated & secreting CD3 on	ebi-a-GCST90001857	14	86146234	G	T	2919	0.14	0.03	0.00	0.01	22.99
rs8024202	activated & secreting CD3 on	ebi-a-GCST90001857	15	97334659	A	G	2919	-0.13	0.03	0.00	0.01	22.48
rs78043002	activated & secreting CD3 on	ebi-a-GCST90001857	15	36111764	G	T	2919	0.33	0.07	0.00	0.01	22.49
rs77724325	activated & secreting CD3 on	ebi-a-GCST90001857	16	52834997	T	C	2919	-0.94	0.20	0.00	0.01	22.15
rs59302791	activated & secreting CD3 on	ebi-a-GCST90001857	16	17996315	T	C	2919	0.37	0.08	0.00	0.01	20.53
rs55799444	activated & secreting CD3 on	ebi-a-GCST90001857	16	90107716	T	C	2919	-0.13	0.03	0.00	0.01	20.01
rs138786273	activated & secreting CD3 on	ebi-a-GCST90001857	17	21944338	A	G	2919	-0.30	0.07	0.00	0.01	20.32
rs61814872	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	1	167113055	T	C	2919	0.31	0.04	0.00	0.02	49.91
rs76066554	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	1	95285730	T	C	2919	-1.07	0.22	0.00	0.01	24.05
rs4657649	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	1	167173140	C	T	2919	0.54	0.06	0.00	0.03	78.24
rs4396110	CD45RA+ CD4+	ebi-a-GCST90001858	1	118266529	A	G	2919	-0.14	0.03	0.00	0.01	25.74

rs7530127	CD3 on CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	1	165671820	C	T	2919	-0.14	0.03	0.00	0.01	24.43
rs146330992	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	1	165888466	T	C	2919	0.22	0.05	0.00	0.01	19.57
rs2949661	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	1	167424924	T	C	2919	0.64	0.02	0.00	0.19	671.36
rs12027506	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	1	167493088	T	A	2919	0.31	0.07	0.00	0.01	22.07
rs6751481	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	2	38897810	C	T	2919	-0.13	0.03	0.00	0.01	21.65
rs7594170	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	2	51237767	G	A	2919	-0.14	0.03	0.00	0.01	20.02
rs34135810	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	2	234652185	C	T	2919	-0.67	0.15	0.00	0.01	21.18
rs79179998	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	3	45947066	A	G	2919	0.23	0.03	0.00	0.02	46.27
rs4683146	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	3	45898221	A	G	2919	-0.12	0.03	0.00	0.01	19.82
rs12512585	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	4	44375745	T	G	2919	0.18	0.04	0.00	0.01	21.61
rs143262728	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	4	137926368	T	C	2919	1.67	0.37	0.00	0.01	20.37
rs72729208	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	5	10956252	A	G	2919	0.26	0.06	0.00	0.01	21.57
rs62430462	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	6	83569632	T	C	2919	-0.17	0.04	0.00	0.01	20.15
rs150857694	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	7	76111831	C	T	2919	-0.30	0.07	0.00	0.01	19.64
rs144004160	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	8	19478029	T	C	2919	-0.90	0.20	0.00	0.01	20.20
rs2808525	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	9	101320250	T	C	2919	0.15	0.03	0.00	0.01	22.26
rs79844317	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	10	100127250	T	C	2919	-0.40	0.09	0.00	0.01	21.36
rs72817532	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	10	30531504	G	A	2919	0.41	0.08	0.00	0.01	24.52
rs74620952	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	11	117753136	C	T	2919	-1.30	0.25	0.00	0.01	27.71
rs141784254	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	11	120364753	G	A	2919	-1.02	0.22	0.00	0.01	22.15
rs76841186	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	14	102428341	C	G	2919	2.11	0.47	0.00	0.01	19.82
rs10139012	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	14	95415204	C	T	2919	-0.14	0.03	0.00	0.01	22.77
rs78042544	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	15	36121803	G	A	2919	0.42	0.09	0.00	0.01	20.71
rs62029957	CD45RA+ CD4+	ebi-a-GCST90001858	16	50213168	A	G	2919	0.20	0.04	0.00	0.01	20.12

rs62035375	CD3 on CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	16	2872116	C	G	2919	0.15	0.03	0.00	0.01	25.85
rs12921174	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	16	430304	C	T	2919	-0.20	0.03	0.00	0.01	36.74
rs2714019	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	17	70789650	T	C	2919	-0.13	0.03	0.00	0.01	19.94
rs187281020	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	19	43490062	G	A	2919	-0.48	0.10	0.00	0.01	22.83
rs2839523	CD45RA+ CD4+ CD3 on	ebi-a-GCST90001858	21	43870045	A	C	2919	-0.12	0.03	0.00	0.01	20.66
rs12132394	CD8br CD3 on	ebi-a-GCST90001859	1	235247955	A	G	2918	0.14	0.03	0.00	0.01	22.01
rs140965084	CD8br CD3 on	ebi-a-GCST90001859	1	236324551	T	C	2918	0.50	0.11	0.00	0.01	19.97
rs116757920	CD8br CD3 on	ebi-a-GCST90001859	1	117441813	A	G	2918	0.43	0.09	0.00	0.01	22.85
rs76066554	CD8br CD3 on	ebi-a-GCST90001859	1	95285730	T	C	2918	-0.99	0.22	0.00	0.01	20.16
rs10494441	CD8br CD3 on	ebi-a-GCST90001859	1	165250607	T	C	2918	-0.37	0.07	0.00	0.01	27.30
rs1723018	CD8br CD3 on	ebi-a-GCST90001859	1	167433420	G	A	2918	0.41	0.03	0.00	0.08	244.10
rs858545	CD8br CD3 on	ebi-a-GCST90001859	1	167461391	C	A	2918	-0.17	0.03	0.00	0.01	40.91
rs2949670	CD8br CD3 on	ebi-a-GCST90001859	1	167406513	T	A	2918	0.19	0.04	0.00	0.01	23.47
rs12144916	CD8br CD3 on	ebi-a-GCST90001859	1	167154534	G	A	2918	0.14	0.03	0.00	0.01	23.91
rs12476279	CD8br CD3 on	ebi-a-GCST90001859	2	229680074	A	G	2918	0.21	0.05	0.00	0.01	19.59
rs143008344	CD8br CD3 on	ebi-a-GCST90001859	3	64946405	T	C	2918	-0.34	0.07	0.00	0.01	20.10
rs76757975	CD8br CD3 on	ebi-a-GCST90001859	3	78658127	A	C	2918	1.19	0.26	0.00	0.01	21.52
rs6479155	CD8br CD3 on	ebi-a-GCST90001859	9	105868652	C	T	2918	-0.14	0.03	0.00	0.01	27.65
rs75572339	CD8br CD3 on	ebi-a-GCST90001859	10	34500210	A	G	2918	0.28	0.06	0.00	0.01	24.13
rs10828773	CD8br CD3 on	ebi-a-GCST90001859	10	18783325	A	G	2918	0.18	0.04	0.00	0.01	20.35
rs61916018	CD8br CD3 on	ebi-a-GCST90001859	11	101769251	T	C	2918	0.17	0.04	0.00	0.01	19.77
rs10083033	CD8br CD3 on	ebi-a-GCST90001859	12	105899685	C	T	2918	-0.13	0.03	0.00	0.01	20.24
rs7174332	CD8br CD3 on	ebi-a-GCST90001859	15	33309800	A	G	2918	0.13	0.03	0.00	0.01	19.65
rs142477005	CD8br CD3 on	ebi-a-GCST90001859	16	4504398	T	C	2918	-0.52	0.12	0.00	0.01	19.60
rs7195854	CD8br CD3 on	ebi-a-GCST90001859	16	83608598	G	C	2918	0.18	0.04	0.00	0.01	21.31
rs7203336	CD8br CD3 on	ebi-a-GCST90001859	16	75217897	T	C	2918	-0.13	0.03	0.00	0.01	20.48
rs71381322	CD8br CD3 on	ebi-a-GCST90001859	17	48900824	A	G	2918	1.54	0.31	0.00	0.01	24.24
rs1529714	CD8br CD3 on	ebi-a-GCST90001859	19	19793484	A	G	2918	-0.14	0.03	0.00	0.01	20.90
rs188662274	CD8br CD3 on	ebi-a-GCST90001859	22	38091241	G	A	2918	-0.35	0.07	0.00	0.01	22.37
rs2949661	CD39+ CD4+ CD3 on	ebi-a-GCST90001860	1	167424924	T	C	2919	0.64	0.02	0.00	0.19	663.65
rs4656440	CD39+ CD4+ CD3 on	ebi-a-GCST90001860	1	165218634	G	C	2919	-0.36	0.06	0.00	0.01	32.26
rs12077809	CD39+ CD4+ CD3 on	ebi-a-GCST90001860	1	167104790	A	C	2919	-0.20	0.04	0.00	0.01	27.79
rs12035159	CD39+ CD4+ CD3 on	ebi-a-GCST90001860	1	169011173	T	C	2919	-0.15	0.03	0.00	0.01	19.94
rs72697615	CD39+ CD4+ CD3 on	ebi-a-GCST90001860	1	107526739	T	C	2919	-0.23	0.05	0.00	0.01	21.55

rs12138291	CD3 on CD39+ CD4+	ebi-a-GCST90001860	1	166464476	A	G	2919	-0.28	0.04	0.00	0.02	51.73
rs858496	CD3 on CD39+ CD4+	ebi-a-GCST90001860	1	167500918	G	T	2919	0.17	0.03	0.00	0.01	36.50
rs6697436	CD3 on CD39+ CD4+	ebi-a-GCST90001860	1	26545277	C	T	2919	-0.19	0.04	0.00	0.01	19.69
rs74425152	CD3 on CD39+ CD4+	ebi-a-GCST90001860	2	241271589	G	A	2919	0.96	0.21	0.00	0.01	21.18
rs139257983	CD3 on CD39+ CD4+	ebi-a-GCST90001860	2	56038405	G	A	2919	-0.34	0.07	0.00	0.01	20.87
rs75443629	CD3 on CD39+ CD4+	ebi-a-GCST90001860	3	141971977	C	T	2919	-0.22	0.05	0.00	0.01	22.43
rs4456952	CD3 on CD39+ CD4+	ebi-a-GCST90001860	4	20480323	T	C	2919	-0.38	0.09	0.00	0.01	19.77
rs78694250	CD3 on CD39+ CD4+	ebi-a-GCST90001860	7	156067251	A	G	2919	-0.47	0.10	0.00	0.01	22.07
rs41434450	CD3 on CD39+ CD4+	ebi-a-GCST90001860	8	101646390	A	G	2919	-0.24	0.05	0.00	0.01	22.23
rs61845257	CD3 on CD39+ CD4+	ebi-a-GCST90001860	10	31348951	C	T	2919	0.36	0.08	0.00	0.01	19.90
rs141328863	CD3 on CD39+ CD4+	ebi-a-GCST90001860	10	54799428	T	C	2919	1.28	0.29	0.00	0.01	20.11
rs4763361	CD3 on CD39+ CD4+	ebi-a-GCST90001860	12	14119860	G	C	2919	1.75	0.39	0.00	0.01	19.94
rs117734680	CD3 on CD39+ CD4+	ebi-a-GCST90001860	12	12952560	G	A	2919	-1.16	0.25	0.00	0.01	21.75
rs113842802	CD3 on CD39+ CD4+	ebi-a-GCST90001860	13	67931948	T	C	2919	0.22	0.05	0.00	0.01	20.89
rs2700	CD3 on CD39+ CD4+	ebi-a-GCST90001860	14	20825965	C	A	2919	0.16	0.04	0.00	0.01	20.52
rs61991437	CD3 on CD39+ CD4+	ebi-a-GCST90001860	14	86185512	G	C	2919	-0.14	0.03	0.00	0.01	23.98
rs78042544	CD3 on CD39+ CD4+	ebi-a-GCST90001860	15	36121803	G	A	2919	0.42	0.09	0.00	0.01	20.77
rs59302791	CD3 on CD39+ CD4+	ebi-a-GCST90001860	16	17996315	T	C	2919	0.37	0.08	0.00	0.01	20.13
rs9894706	CD3 on CD39+ CD4+	ebi-a-GCST90001860	17	70796437	G	C	2919	-0.13	0.03	0.00	0.01	20.39
rs4796568	CD3 on CD39+ CD4+	ebi-a-GCST90001860	17	6001918	G	C	2919	-0.13	0.03	0.00	0.01	22.32
rs7251035	CD3 on CD39+ CD4+	ebi-a-GCST90001860	19	19866371	C	T	2919	0.13	0.03	0.00	0.01	20.11
rs142664794	CD3 on CD39+ CD4+	ebi-a-GCST90001860	21	37681268	T	C	2919	0.36	0.08	0.00	0.01	20.16
rs10483184	CD3 on CD39+ CD4+	ebi-a-GCST90001860	22	35170735	T	G	2919	-0.57	0.13	0.00	0.01	19.67
rs61814886	CD3 on CD28+ CD4+	ebi-a-GCST90001861	1	167136405	A	G	2919	0.24	0.04	0.00	0.01	29.02
rs4657649	CD3 on CD28+ CD4+	ebi-a-GCST90001861	1	167173140	C	T	2919	0.43	0.06	0.00	0.02	51.04
rs10801951	CD3 on CD28+ CD4+	ebi-a-GCST90001861	1	117781742	T	C	2919	-0.14	0.03	0.00	0.01	22.50
rs4396110	CD3 on CD28+ CD4+	ebi-a-GCST90001861	1	118266529	A	G	2919	-0.14	0.03	0.00	0.01	27.03
rs2988277	CD3 on CD28+ CD4+	ebi-a-GCST90001861	1	167431352	T	C	2919	0.47	0.03	0.00	0.10	337.80
rs1922987	CD3 on CD28+ CD4+	ebi-a-GCST90001861	1	101753101	C	T	2919	0.13	0.03	0.00	0.01	21.32
rs183817699	CD3 on CD28+ CD4+	ebi-a-GCST90001861	2	186714238	G	C	2919	-0.67	0.15	0.00	0.01	20.58
rs115423998	CD3 on CD28+ CD4+	ebi-a-GCST90001861	3	194363700	T	C	2919	0.28	0.06	0.00	0.01	20.03
rs41289614	CD3 on CD28+ CD4+	ebi-a-GCST90001861	3	45972492	T	C	2919	0.19	0.03	0.00	0.01	28.89
rs144137185	CD3 on CD28+ CD4+	ebi-a-GCST90001861	3	19582653	T	C	2919	0.25	0.05	0.00	0.01	26.96
rs75149813	CD3 on CD28+ CD4+	ebi-a-GCST90001861	3	78205852	C	T	2919	0.31	0.07	0.00	0.01	21.56
rs185805208	CD3 on CD28+ CD4+	ebi-a-GCST90001861	6	118163760	A	C	2919	-0.65	0.13	0.00	0.01	24.03
rs61618798	CD3 on CD28+ CD4+	ebi-a-GCST90001861	7	38070274	A	C	2919	-0.16	0.03	0.00	0.01	21.32
rs73147660	CD3 on CD28+ CD4+	ebi-a-GCST90001861	7	130751643	G	C	2919	0.21	0.05	0.00	0.01	20.76

rs11787185	CD3 on CD28+ CD4+	ebi-a-GCST90001861	8	4145796	C	A	2919	-0.12	0.03	0.00	0.01	19.89
rs78457979	CD3 on CD28+ CD4+	ebi-a-GCST90001861	9	101856724	G	T	2919	-0.35	0.08	0.00	0.01	21.05
rs113763504	CD3 on CD28+ CD4+	ebi-a-GCST90001861	10	81110536	A	G	2919	-0.81	0.17	0.00	0.01	21.55
rs2728811	CD3 on CD28+ CD4+	ebi-a-GCST90001861	12	17687728	G	T	2919	0.12	0.03	0.00	0.01	20.16
rs78042544	CD3 on CD28+ CD4+	ebi-a-GCST90001861	15	36121803	G	A	2919	0.49	0.09	0.00	0.01	28.97
rs62001340	CD3 on CD28+ CD4+	ebi-a-GCST90001861	15	27613525	A	G	2919	0.40	0.09	0.00	0.01	21.25
rs142628481	CD3 on CD28+ CD4+	ebi-a-GCST90001861	16	4720632	A	G	2919	-0.59	0.13	0.00	0.01	19.67
rs2520957	CD3 on CD28+ CD4+	ebi-a-GCST90001861	16	18293116	T	C	2919	-0.13	0.03	0.00	0.01	21.06
rs73048160	CD3 on CD28+ CD4+	ebi-a-GCST90001861	19	40977235	T	C	2919	0.37	0.07	0.00	0.01	24.45
rs113348527	CD3 on CD28+ CD4+	ebi-a-GCST90001861	21	24255270	A	G	2919	0.44	0.09	0.00	0.01	22.08
rs62237850	CD3 on CD28+ CD4+	ebi-a-GCST90001861	22	32030587	A	G	2919	0.19	0.04	0.00	0.01	19.70
rs851812	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	1	118123782	A	T	2918	-0.12	0.03	0.00	0.01	19.57
rs1840657	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	2	138676552	C	T	2918	0.15	0.03	0.00	0.01	20.67
rs75255002	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	4	154590624	A	G	2918	-0.44	0.10	0.00	0.01	19.57
rs115371416	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	5	89412916	C	T	2918	-0.22	0.05	0.00	0.01	19.65
rs72827833	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	6	16748948	G	T	2918	1.15	0.25	0.00	0.01	21.48
rs1264457	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	6	30458064	A	G	2918	0.14	0.03	0.00	0.01	23.26
rs117404466	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	7	148293966	A	G	2918	0.27	0.06	0.00	0.01	21.76
rs116969543	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	8	99091321	C	T	2918	0.74	0.16	0.00	0.01	22.28
rs117458787	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	10	100803548	G	A	2918	-1.35	0.30	0.00	0.01	20.42
rs61862032	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	10	124887125	C	T	2918	-1.06	0.23	0.00	0.01	20.34
rs7949056	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	11	35999988	T	C	2918	-0.13	0.03	0.00	0.01	20.99
rs113707507	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	14	78276958	G	A	2918	0.22	0.05	0.00	0.01	22.79
rs76548676	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	15	92143848	T	G	2918	2.03	0.42	0.00	0.01	23.78
rs62039948	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	16	57886567	A	G	2918	0.20	0.04	0.00	0.01	23.38
rs1406814	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	16	778024	C	T	2918	-0.18	0.04	0.00	0.01	20.60
rs192244506	CD28+ DN (CD4-CD8-) CD3 on	ebi-a-GCST90001862	18	49186824	A	G	2918	0.92	0.20	0.00	0.01	20.72
rs7257674	CD28+ DN (CD4-CD8-)	ebi-a-GCST90001862	19	4331621	A	T	2918	0.25	0.05	0.00	0.01	21.96

rs1723018	CD3 on CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	1	167433420	G	A	2919	0.37	0.03	0.00	0.06	194.38
rs6684311	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	1	166485891	G	C	2919	-0.24	0.04	0.00	0.01	39.54
rs2949670	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	1	167406513	T	A	2919	0.23	0.04	0.00	0.01	34.79
rs12132394	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	1	235247955	A	G	2919	0.15	0.03	0.00	0.01	27.09
rs12069993	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	1	167705094	G	A	2919	0.13	0.03	0.00	0.01	20.02
rs858545	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	1	167461391	C	A	2919	-0.15	0.03	0.00	0.01	30.19
rs139997835	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	2	220485977	T	C	2919	-0.37	0.08	0.00	0.01	21.05
rs17049496	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	3	8774388	A	T	2919	0.48	0.10	0.00	0.01	21.13
rs56046025	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	3	71933383	T	C	2919	0.19	0.04	0.00	0.01	22.74
rs75603751	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	6	151129499	C	T	2919	0.30	0.07	0.00	0.01	21.17
rs71522952	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	8	85083506	G	A	2919	-0.41	0.09	0.00	0.01	19.61
rs327018	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	11	20849758	G	A	2919	-0.21	0.05	0.00	0.01	20.51
rs11219278	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	11	123626762	A	G	2919	-0.13	0.03	0.00	0.01	20.92
rs78043002	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	15	36111764	G	T	2919	0.32	0.07	0.00	0.01	22.44
rs8024202	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	15	97334659	A	G	2919	-0.12	0.03	0.00	0.01	19.70
rs117524375	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	16	1790546	T	C	2919	0.50	0.10	0.00	0.01	23.80
rs62028293	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	16	50264054	C	T	2919	0.28	0.05	0.00	0.01	30.33
rs117544452	CD28+ CD45RA- CD8br	ebi-a-GCST90001863	17	21757807	A	C	2919	-0.33	0.07	0.00	0.01	20.12

rs6010775	CD3 on CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	20	61504457	C	T	2919	0.56	0.12	0.00	0.01	21.07
rs8128515	CD28+ CD45RA- CD8br CD3 on	ebi-a-GCST90001863	21	30299903	C	T	2919	0.16	0.03	0.00	0.01	23.12
rs2995089	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	1	167431193	A	G	2919	0.60	0.03	0.00	0.16	572.29
rs7519927	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	1	167100361	A	G	2919	-0.19	0.03	0.00	0.02	47.17
rs12729972	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	1	118256346	T	C	2919	-0.12	0.03	0.00	0.01	20.34
rs4656440	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	1	165218634	G	C	2919	-0.34	0.06	0.00	0.01	28.88
rs12138291	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	1	166464476	A	G	2919	-0.27	0.04	0.00	0.02	49.94
rs4657649	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	1	167173140	C	T	2919	0.45	0.06	0.00	0.02	53.28
rs12990220	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	2	45451862	A	G	2919	-0.18	0.04	0.00	0.01	23.46
rs79617518	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	2	100208697	T	C	2919	0.62	0.13	0.00	0.01	23.03
rs116266532	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	4	42485295	C	T	2919	0.32	0.06	0.00	0.01	24.13
rs2235394	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	6	11763351	G	T	2919	-0.13	0.03	0.00	0.01	22.91
rs73099996	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	7	52060488	A	G	2919	-0.26	0.06	0.00	0.01	21.07
rs6479155	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	9	105868652	C	T	2919	-0.14	0.03	0.00	0.01	25.75
rs79844317	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	10	100127250	T	C	2919	-0.39	0.09	0.00	0.01	19.74
rs111780443	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	11	132210362	T	C	2919	-0.29	0.07	0.00	0.01	19.99
rs117079896	CD28+ CD45RA+ CD8br CD3 on	ebi-a-GCST90001864	12	101971560	G	A	2919	0.78	0.16	0.00	0.01	22.76
rs140019589	CD28+ CD45RA+ CD8br	ebi-a-GCST90001864	13	62183054	T	C	2919	0.77	0.16	0.00	0.01	23.57

rs4646296	CD3 on CD28+ CD45RA+	ebi-a-GCST90001864	14	70243505	G	C	2919	-0.34	0.07	0.00	0.01	21.38
rs78043002	CD8br CD3 on CD28+ CD45RA+	ebi-a-GCST90001864	15	36111764	G	T	2919	0.35	0.07	0.00	0.01	24.98
rs62035375	CD8br CD3 on CD28+ CD45RA+	ebi-a-GCST90001864	16	2872116	C	G	2919	0.13	0.03	0.00	0.01	19.93
rs62028293	CD8br CD3 on CD28+ CD45RA+	ebi-a-GCST90001864	16	50264054	C	T	2919	0.25	0.05	0.00	0.01	23.27
rs12921174	CD8br CD3 on CD28+ CD45RA+	ebi-a-GCST90001864	16	430304	C	T	2919	-0.18	0.03	0.00	0.01	28.76
rs148876959	CD8br CD3 on CD28+ CD45RA+	ebi-a-GCST90001864	17	2592302	T	C	2919	-0.27	0.06	0.00	0.01	19.94
rs2713986	CD8br CD3 on CD28+ CD45RA+	ebi-a-GCST90001864	17	70794367	T	C	2919	-0.20	0.04	0.00	0.01	27.40
rs1442353	CD8br CD3 on CD28+ CD45RA+	ebi-a-GCST90001864	18	40992955	T	G	2919	-0.13	0.03	0.00	0.01	19.76
rs73526900	CD8br CD3 on CD28+ CD45RA+	ebi-a-GCST90001864	19	2615996	C	T	2919	0.45	0.10	0.00	0.01	22.17
rs77294768	CD8br CD3 on CD28- CD8br	ebi-a-GCST90001865	1	6861035	A	G	2919	-0.19	0.04	0.00	0.01	20.68
rs9787219	CD3 on CD28- CD8br	ebi-a-GCST90001865	1	67080159	C	G	2919	-0.13	0.03	0.00	0.01	22.21
rs2988279	CD3 on CD28- CD8br	ebi-a-GCST90001865	1	167419839	A	G	2919	0.24	0.03	0.00	0.03	77.94
rs947505	CD3 on CD28- CD8br	ebi-a-GCST90001865	1	173302097	G	A	2919	0.22	0.05	0.00	0.01	21.57
rs62293633	CD3 on CD28- CD8br	ebi-a-GCST90001865	3	163557077	G	C	2919	0.26	0.06	0.00	0.01	19.91
rs141566851	CD3 on CD28- CD8br	ebi-a-GCST90001865	3	170163167	A	G	2919	-0.52	0.11	0.00	0.01	20.88
rs4689428	CD3 on CD28- CD8br	ebi-a-GCST90001865	4	6388191	G	C	2919	-0.19	0.03	0.00	0.01	30.19
rs1542545	CD3 on CD28- CD8br	ebi-a-GCST90001865	4	189530591	C	T	2919	-0.17	0.04	0.00	0.01	21.94
rs59837469	CD3 on CD28- CD8br	ebi-a-GCST90001865	5	169629818	C	G	2919	0.36	0.08	0.00	0.01	22.31
rs10042722	CD3 on CD28- CD8br	ebi-a-GCST90001865	5	67121250	C	G	2919	-0.13	0.03	0.00	0.01	20.23
rs10280171	CD3 on CD28- CD8br	ebi-a-GCST90001865	7	155971101	C	T	2919	-0.54	0.12	0.00	0.01	21.95
rs143007860	CD3 on CD28- CD8br	ebi-a-GCST90001865	7	13007100	T	A	2919	0.29	0.06	0.00	0.01	20.57
rs62574602	CD3 on CD28- CD8br	ebi-a-GCST90001865	9	96839069	C	T	2919	-0.59	0.13	0.00	0.01	19.61
rs12570957	CD3 on CD28- CD8br	ebi-a-GCST90001865	10	101981274	A	C	2919	0.14	0.03	0.00	0.01	21.97
rs72975607	CD3 on CD28- CD8br	ebi-a-GCST90001865	11	103167130	A	G	2919	0.26	0.06	0.00	0.01	20.42
rs10861453	CD3 on CD28- CD8br	ebi-a-GCST90001865	12	105931980	G	A	2919	-0.13	0.03	0.00	0.01	21.79
rs7334537	CD3 on CD28- CD8br	ebi-a-GCST90001865	13	76014918	C	G	2919	-0.14	0.03	0.00	0.01	19.61
rs6564225	CD3 on CD28- CD8br	ebi-a-GCST90001865	16	75229833	C	A	2919	-0.16	0.03	0.00	0.01	19.96
rs6120663	CD3 on CD28- CD8br	ebi-a-GCST90001865	20	33081906	A	C	2919	-0.13	0.03	0.00	0.01	21.04

rs28620385	CD3 on CD28- CD8br	ebi-a-GCST90001865	21	46488731	C	T	2919	0.14	0.03	0.00	0.01	23.02
rs12138291	CD3 on CD39+	ebi-a-GCST90001866	1	166464476	A	G	2914	-0.20	0.04	0.00	0.01	27.52
rs1723018	CD3 on CD39+	ebi-a-GCST90001866	1	167433420	G	A	2914	0.35	0.03	0.00	0.06	174.84
rs858545	CD3 on CD39+	ebi-a-GCST90001866	1	167461391	C	A	2914	-0.15	0.03	0.00	0.01	29.18
rs10202116	CD3 on CD39+	ebi-a-GCST90001866	2	209108758	C	T	2914	-0.24	0.05	0.00	0.01	20.28
rs1918101	CD3 on CD39+	ebi-a-GCST90001866	3	73976238	T	G	2914	-0.18	0.04	0.00	0.01	19.68
rs2448966	CD3 on CD39+	ebi-a-GCST90001866	3	99129283	T	C	2914	0.17	0.03	0.00	0.01	25.72
rs6853238	CD3 on CD39+	ebi-a-GCST90001866	4	113212607	T	C	2914	0.48	0.10	0.00	0.01	21.12
rs11733367	CD3 on CD39+	ebi-a-GCST90001866	4	5078910	T	C	2914	-0.27	0.06	0.00	0.01	20.61
rs4958545	CD3 on CD39+	ebi-a-GCST90001866	5	151846830	C	T	2914	0.16	0.03	0.00	0.01	23.64
rs78061697	CD3 on CD39+	ebi-a-GCST90001866	7	105599615	T	A	2914	-0.31	0.07	0.00	0.01	22.47
rs144727554	CD3 on CD39+	ebi-a-GCST90001866	8	80078162	C	T	2914	-1.09	0.23	0.00	0.01	22.70
rs61352150	CD3 on CD39+	ebi-a-GCST90001866	9	111159988	A	G	2914	-0.35	0.08	0.00	0.01	20.69
rs7077566	CD3 on CD39+	ebi-a-GCST90001866	10	97617943	A	G	2914	-0.14	0.03	0.00	0.01	26.21
rs72638719	CD3 on CD39+	ebi-a-GCST90001866	10	7006748	G	C	2914	-0.30	0.06	0.00	0.01	26.73
rs16942056	CD3 on CD39+	ebi-a-GCST90001866	18	23583315	G	A	2914	-0.52	0.11	0.00	0.01	21.89
rs77460005	CD3 on CD39+	ebi-a-GCST90001866	22	23474579	T	C	2914	0.35	0.07	0.00	0.01	24.63
rs11803833	CD3 on CD4+	ebi-a-GCST90001867	1	166813933	A	C	2919	0.12	0.03	0.00	0.01	19.82
rs4657649	CD3 on CD4+	ebi-a-GCST90001867	1	167173140	C	T	2919	0.43	0.06	0.00	0.02	51.64
rs10801951	CD3 on CD4+	ebi-a-GCST90001867	1	117781742	T	C	2919	-0.15	0.03	0.00	0.01	23.44
rs12138291	CD3 on CD4+	ebi-a-GCST90001867	1	166464476	A	G	2919	-0.21	0.04	0.00	0.01	29.47
rs114672530	CD3 on CD4+	ebi-a-GCST90001867	1	168306279	A	G	2919	-0.53	0.10	0.00	0.01	26.31
rs1922987	CD3 on CD4+	ebi-a-GCST90001867	1	101753101	C	T	2919	0.13	0.03	0.00	0.01	20.31
rs1214596	CD3 on CD4+	ebi-a-GCST90001867	1	167427170	A	T	2919	0.46	0.03	0.00	0.10	323.72
rs4396110	CD3 on CD4+	ebi-a-GCST90001867	1	118266529	A	G	2919	-0.14	0.03	0.00	0.01	26.70
rs183817699	CD3 on CD4+	ebi-a-GCST90001867	2	186714238	G	C	2919	-0.68	0.15	0.00	0.01	21.28
rs41289614	CD3 on CD4+	ebi-a-GCST90001867	3	45972492	T	C	2919	0.19	0.03	0.00	0.01	30.33
rs115423998	CD3 on CD4+	ebi-a-GCST90001867	3	194363700	T	C	2919	0.28	0.06	0.00	0.01	20.33
rs75149813	CD3 on CD4+	ebi-a-GCST90001867	3	78205852	C	T	2919	0.31	0.07	0.00	0.01	22.08
rs144137185	CD3 on CD4+	ebi-a-GCST90001867	3	19582653	T	C	2919	0.24	0.05	0.00	0.01	24.91
rs72729208	CD3 on CD4+	ebi-a-GCST90001867	5	10956252	A	G	2919	0.25	0.06	0.00	0.01	20.20
rs1324073	CD3 on CD4+	ebi-a-GCST90001867	6	88822616	C	G	2919	-0.13	0.03	0.00	0.01	20.02
rs185805208	CD3 on CD4+	ebi-a-GCST90001867	6	118163760	A	C	2919	-0.64	0.13	0.00	0.01	23.88
rs61618798	CD3 on CD4+	ebi-a-GCST90001867	7	38070274	A	C	2919	-0.16	0.03	0.00	0.01	21.15
rs73147660	CD3 on CD4+	ebi-a-GCST90001867	7	130751643	G	C	2919	0.21	0.05	0.00	0.01	21.92
rs11787185	CD3 on CD4+	ebi-a-GCST90001867	8	4145796	C	A	2919	-0.12	0.03	0.00	0.01	20.05
rs78457979	CD3 on CD4+	ebi-a-GCST90001867	9	101856724	G	T	2919	-0.34	0.08	0.00	0.01	20.48
rs113763504	CD3 on CD4+	ebi-a-GCST90001867	10	81110536	A	G	2919	-0.77	0.17	0.00	0.01	19.78
rs2728811	CD3 on CD4+	ebi-a-GCST90001867	12	17687728	G	T	2919	0.12	0.03	0.00	0.01	20.30
rs56107218	CD3 on CD4+	ebi-a-GCST90001867	14	69787001	T	C	2919	-0.15	0.03	0.00	0.01	20.68
rs78042544	CD3 on CD4+	ebi-a-GCST90001867	15	36121803	G	A	2919	0.46	0.09	0.00	0.01	25.96
rs148932595	CD3 on CD4+	ebi-a-GCST90001867	16	4725694	A	C	2919	-0.58	0.13	0.00	0.01	21.22
rs2520957	CD3 on CD4+	ebi-a-GCST90001867	16	18293116	T	C	2919	-0.13	0.03	0.00	0.01	20.27

rs71381322	CD3 on CD4+	ebi-a-GCST90001867	17	48900824	A	G	2919	1.38	0.31	0.00	0.01	19.83
rs2713986	CD3 on CD4+	ebi-a-GCST90001867	17	70794367	T	C	2919	-0.17	0.04	0.00	0.01	19.72
rs73048160	CD3 on CD4+	ebi-a-GCST90001867	19	40977235	T	C	2919	0.35	0.07	0.00	0.01	22.69
rs113348527	CD3 on CD4+	ebi-a-GCST90001867	21	24255270	A	G	2919	0.43	0.09	0.00	0.01	21.51
rs62237850	CD3 on CD4+	ebi-a-GCST90001867	22	32030587	A	G	2919	0.19	0.04	0.00	0.01	19.94
rs6684311	CD3 on CD4 Treg	ebi-a-GCST90001868	1	166485891	G	C	2919	-0.28	0.04	0.00	0.02	51.50
rs552999	CD3 on CD4 Treg	ebi-a-GCST90001868	1	168700134	A	C	2919	-0.15	0.03	0.00	0.01	25.41
rs114672530	CD3 on CD4 Treg	ebi-a-GCST90001868	1	168306279	A	G	2919	-0.67	0.10	0.00	0.01	41.34
rs73072986	CD3 on CD4 Treg	ebi-a-GCST90001868	1	208074125	T	C	2919	-0.27	0.06	0.00	0.01	19.63
rs4396110	CD3 on CD4 Treg	ebi-a-GCST90001868	1	118266529	A	G	2919	-0.13	0.03	0.00	0.01	21.08
rs35055340	CD3 on CD4 Treg	ebi-a-GCST90001868	1	165314063	T	C	2919	-0.48	0.08	0.00	0.01	40.29
rs2949661	CD3 on CD4 Treg	ebi-a-GCST90001868	1	167424924	T	C	2919	0.63	0.02	0.00	0.18	639.75
rs6697436	CD3 on CD4 Treg	ebi-a-GCST90001868	1	26545277	C	T	2919	-0.20	0.04	0.00	0.01	23.83
rs142394936	CD3 on CD4 Treg	ebi-a-GCST90001868	3	31829907	G	T	2919	0.69	0.15	0.00	0.01	20.43
rs57844740	CD3 on CD4 Treg	ebi-a-GCST90001868	3	127163016	A	G	2919	0.38	0.08	0.00	0.01	22.92
rs2595260	CD3 on CD4 Treg	ebi-a-GCST90001868	3	158937938	C	T	2919	-0.16	0.03	0.00	0.01	20.75
rs1214596	CD3 on resting Treg	ebi-a-GCST90001869	1	167427170	A	T	2918	0.65	0.02	0.00	0.19	688.56
rs73036765	CD3 on resting Treg	ebi-a-GCST90001869	1	179457254	T	C	2918	-0.27	0.06	0.00	0.01	20.26
rs6658665	CD3 on resting Treg	ebi-a-GCST90001869	1	166460696	G	A	2918	0.15	0.03	0.00	0.01	31.35
rs73072986	CD3 on resting Treg	ebi-a-GCST90001869	1	208074125	T	C	2918	-0.29	0.06	0.00	0.01	21.74
rs61814886	CD3 on resting Treg	ebi-a-GCST90001869	1	167136405	A	G	2918	0.36	0.04	0.00	0.02	67.85
rs6668517	CD3 on resting Treg	ebi-a-GCST90001869	1	26556870	C	A	2918	-0.23	0.04	0.00	0.01	31.08
rs4657608	CD3 on resting Treg	ebi-a-GCST90001869	1	166828464	T	C	2918	0.13	0.03	0.00	0.01	21.94
rs209858	CD3 on resting Treg	ebi-a-GCST90001869	1	114732793	A	G	2918	0.35	0.07	0.00	0.01	21.64
rs12085166	CD3 on resting Treg	ebi-a-GCST90001869	1	116870434	T	C	2918	0.49	0.11	0.00	0.01	19.91
rs12096911	CD3 on resting Treg	ebi-a-GCST90001869	1	167532812	C	T	2918	-0.14	0.03	0.00	0.01	20.95
rs12752576	CD3 on resting Treg	ebi-a-GCST90001869	1	168605042	G	A	2918	-0.73	0.11	0.00	0.01	43.68
rs147902311	CD3 on resting Treg	ebi-a-GCST90001869	2	218949086	T	C	2918	0.86	0.19	0.00	0.01	20.18
rs146597227	CD3 on resting Treg	ebi-a-GCST90001869	2	57424952	T	G	2918	-0.22	0.05	0.00	0.01	21.25
rs1398059	CD3 on resting Treg	ebi-a-GCST90001869	2	188151932	T	G	2918	0.14	0.03	0.00	0.01	20.36
rs2122146	CD3 on resting Treg	ebi-a-GCST90001869	3	158951696	C	T	2918	-0.16	0.03	0.00	0.01	21.41
rs73136665	CD3 on resting Treg	ebi-a-GCST90001869	3	99600236	A	C	2918	-0.31	0.07	0.00	0.01	19.67
rs3756564	CD3 on resting Treg	ebi-a-GCST90001869	5	178423803	A	G	2918	-0.33	0.07	0.00	0.01	20.87
rs4707319	CD3 on resting Treg	ebi-a-GCST90001869	6	87510647	G	T	2918	-0.15	0.03	0.00	0.01	19.90
rs72928038	CD3 on resting Treg	ebi-a-GCST90001869	6	90976768	A	G	2918	0.18	0.03	0.00	0.01	28.39
rs1324073	CD3 on resting Treg	ebi-a-GCST90001869	6	88822616	C	G	2918	-0.14	0.03	0.00	0.01	23.85
rs631487	CD3 on resting Treg	ebi-a-GCST90001869	6	10479783	C	T	2918	-0.13	0.03	0.00	0.01	21.56
rs74863989	CD3 on resting Treg	ebi-a-GCST90001869	6	144281703	A	C	2918	1.02	0.22	0.00	0.01	21.37

rs73099996	CD3 on resting Treg	ebi-a-GCST90001869	7	52060488	A	G	2918	-0.28	0.06	0.00	0.01	23.85
rs79486472	CD3 on resting Treg	ebi-a-GCST90001869	7	70509663	G	C	2918	-0.19	0.04	0.00	0.01	21.36
rs79844317	CD3 on resting Treg	ebi-a-GCST90001869	10	100127250	T	C	2918	-0.40	0.09	0.00	0.01	21.22
rs74620952	CD3 on resting Treg	ebi-a-GCST90001869	11	117753136	C	T	2918	-1.36	0.25	0.00	0.01	30.07
rs141784254	CD3 on resting Treg	ebi-a-GCST90001869	11	120364753	G	A	2918	-1.12	0.22	0.00	0.01	26.62
rs1537547	CD3 on resting Treg	ebi-a-GCST90001869	13	67932513	A	G	2918	0.23	0.05	0.00	0.01	21.32
rs150306980	CD3 on resting Treg	ebi-a-GCST90001869	15	100531503	C	T	2918	-0.35	0.07	0.00	0.01	23.11
rs78042544	CD3 on resting Treg	ebi-a-GCST90001869	15	36121803	G	A	2918	0.45	0.09	0.00	0.01	23.65
rs55799444	CD3 on resting Treg	ebi-a-GCST90001869	16	90107716	T	C	2918	-0.13	0.03	0.00	0.01	20.76
rs115662161	CD3 on resting Treg	ebi-a-GCST90001869	16	11511391	G	A	2918	-0.19	0.04	0.00	0.01	21.70
rs2015682	CD3 on resting Treg	ebi-a-GCST90001869	16	2854907	T	C	2918	-0.15	0.03	0.00	0.01	22.47
rs181383275	CD3 on resting Treg	ebi-a-GCST90001869	17	3860393	T	C	2918	0.83	0.18	0.00	0.01	20.45
rs62084754	CD3 on resting Treg	ebi-a-GCST90001869	17	66093841	T	C	2918	-0.27	0.06	0.00	0.01	21.11
rs187281020	CD3 on resting Treg	ebi-a-GCST90001869	19	43490062	G	A	2918	-0.51	0.10	0.00	0.01	24.85
rs722898	CD3 on resting Treg	ebi-a-GCST90001869	20	40714524	G	C	2918	-0.13	0.03	0.00	0.01	19.88
rs59604901	CD3 on resting Treg	ebi-a-GCST90001869	20	25444618	C	T	2918	-0.27	0.06	0.00	0.01	20.10
rs6586224	CD3 on resting Treg	ebi-a-GCST90001869	21	43122243	C	T	2918	0.20	0.04	0.00	0.01	23.75
rs17451898	HSC CD34 on	ebi-a-GCST90001870	1	81770460	A	T	1634	-0.72	0.15	0.00	0.01	22.60
rs586030	HSC CD34 on	ebi-a-GCST90001870	1	208170487	T	C	1634	0.21	0.04	0.00	0.02	32.64
rs6427732	HSC CD34 on	ebi-a-GCST90001870	1	163371663	T	A	1634	0.24	0.05	0.00	0.01	21.06
rs139489968	HSC CD34 on	ebi-a-GCST90001870	1	208017826	A	G	1634	0.55	0.06	0.00	0.05	86.58
rs12623399	HSC CD34 on	ebi-a-GCST90001870	2	46349271	C	T	1634	-1.83	0.41	0.00	0.01	20.38
rs12621242	HSC CD34 on	ebi-a-GCST90001870	2	23022235	A	C	1634	-0.72	0.15	0.00	0.01	22.57
rs4406271	HSC CD34 on	ebi-a-GCST90001870	6	109598213	A	G	1634	-0.26	0.04	0.00	0.03	51.58
rs3735683	HSC CD34 on	ebi-a-GCST90001870	7	1025533	T	C	1634	-0.25	0.06	0.00	0.01	20.70
rs56168975	HSC CD34 on	ebi-a-GCST90001870	10	11298964	G	A	1634	-0.23	0.04	0.00	0.02	29.57
rs139622960	HSC CD34 on	ebi-a-GCST90001870	11	66287586	A	G	1634	-0.25	0.05	0.00	0.01	22.48
rs117755089	HSC CD34 on	ebi-a-GCST90001870	14	28026419	A	G	1634	0.60	0.13	0.00	0.01	20.61
rs36102158	HSC CD34 on	ebi-a-GCST90001870	15	50363583	A	G	1634	0.27	0.05	0.00	0.02	31.89
rs574328396	HSC CD34 on	ebi-a-GCST90001870	19	21062578	C	A	1634	0.75	0.15	0.00	0.01	24.41
rs11701279	HSC CD34 on	ebi-a-GCST90001870	21	44552070	C	T	1634	-0.17	0.04	0.00	0.01	20.04
rs1499672	HVEM on T cell	ebi-a-GCST90001871	1	56037629	G	A	1247	-0.19	0.04	0.00	0.02	21.21
rs1886730	HVEM on T cell	ebi-a-GCST90001871	1	2488608	C	T	1247	0.29	0.04	0.00	0.04	52.54
rs140639767	HVEM on T cell	ebi-a-GCST90001871	1	146998040	A	C	1247	-0.79	0.18	0.00	0.02	19.71
rs62140870	HVEM on T cell	ebi-a-GCST90001871	2	47713921	G	A	1247	-0.64	0.14	0.00	0.02	19.88
rs13014690	HVEM on T cell	ebi-a-GCST90001871	2	153797694	A	C	1247	0.22	0.05	0.00	0.02	22.04
rs116783256	HVEM on T cell	ebi-a-GCST90001871	2	209940257	T	C	1247	0.30	0.07	0.00	0.02	19.87
rs73227426	HVEM on T cell	ebi-a-GCST90001871	3	112068503	T	C	1247	0.98	0.22	0.00	0.02	19.94
rs9870329	HVEM on T cell	ebi-a-GCST90001871	3	126102109	T	C	1247	0.43	0.09	0.00	0.02	20.17
rs2731518	HVEM on T cell	ebi-a-GCST90001871	3	1896695	A	G	1247	0.19	0.04	0.00	0.02	19.80

rs114178658	HVEM on T cell	ebi-a-GCST90001871	4	35188325	G	A	1247	0.29	0.06	0.00	0.02	19.88
rs10008912	HVEM on T cell	ebi-a-GCST90001871	4	7148069	G	A	1247	0.20	0.04	0.00	0.02	21.47
rs7731342	HVEM on T cell	ebi-a-GCST90001871	5	104549911	T	C	1247	0.34	0.08	0.00	0.02	20.18
rs7738988	HVEM on T cell	ebi-a-GCST90001871	6	83760703	A	C	1247	0.23	0.05	0.00	0.02	23.04
rs78389375	HVEM on T cell	ebi-a-GCST90001871	7	81160961	T	C	1247	-0.52	0.11	0.00	0.02	22.56
rs6577804	HVEM on T cell	ebi-a-GCST90001871	8	138522864	C	T	1247	-0.19	0.04	0.00	0.02	20.60
rs2246952	HVEM on T cell	ebi-a-GCST90001871	10	70782592	G	A	1247	0.28	0.06	0.00	0.02	22.93
rs1552721	HVEM on T cell	ebi-a-GCST90001871	11	7000368	C	G	1247	-0.44	0.09	0.00	0.02	21.18
rs11212429	HVEM on T cell	ebi-a-GCST90001871	11	107761682	T	C	1247	-1.35	0.26	0.00	0.02	27.56
rs12284339	HVEM on T cell	ebi-a-GCST90001871	11	107699559	A	G	1247	-1.36	0.29	0.00	0.02	21.78
rs12818999	HVEM on T cell	ebi-a-GCST90001871	12	5133216	A	G	1247	0.48	0.11	0.00	0.02	20.79
rs10747856	HVEM on T cell	ebi-a-GCST90001871	12	60262116	G	A	1247	0.18	0.04	0.00	0.02	20.63
rs73449242	HVEM on T cell	ebi-a-GCST90001871	13	24033981	T	C	1247	0.29	0.06	0.00	0.02	21.21
rs3138035	HVEM on T cell	ebi-a-GCST90001871	17	32645949	T	C	1247	0.21	0.04	0.00	0.02	23.45
rs79388518	HVEM on T cell	ebi-a-GCST90001871	18	1705002	C	T	1247	-0.55	0.12	0.00	0.02	21.50
rs73049692	HVEM on T cell	ebi-a-GCST90001871	19	51995348	C	T	1247	-0.38	0.08	0.00	0.02	20.25
rs313856	HVEM on T cell	ebi-a-GCST90001871	19	47298263	C	T	1247	0.23	0.05	0.00	0.02	22.45
rs28422844	HVEM on naive CD8br	ebi-a-GCST90001872	1	28831071	G	A	1247	0.57	0.12	0.00	0.02	20.81
rs2234161	HVEM on naive CD8br	ebi-a-GCST90001872	1	2491205	T	C	1247	0.23	0.04	0.00	0.03	34.95
rs142774716	HVEM on naive CD8br	ebi-a-GCST90001872	1	95096608	A	T	1247	1.21	0.27	0.00	0.02	20.89
rs12476985	HVEM on naive CD8br	ebi-a-GCST90001872	2	184183623	C	T	1247	0.89	0.20	0.00	0.02	20.65
rs13013216	HVEM on naive CD8br	ebi-a-GCST90001872	2	153797688	A	G	1247	0.20	0.05	0.00	0.02	20.32
rs73851787	HVEM on naive CD8br	ebi-a-GCST90001872	4	117567589	G	A	1247	0.59	0.13	0.00	0.02	19.95
rs2964678	HVEM on naive CD8br	ebi-a-GCST90001872	5	116104935	T	C	1247	-0.29	0.06	0.00	0.02	23.69
rs2523589	HVEM on naive CD8br	ebi-a-GCST90001872	6	31327334	T	G	1247	0.23	0.04	0.00	0.02	29.29
rs561768	HVEM on naive CD8br	ebi-a-GCST90001872	6	168203927	G	A	1247	-0.19	0.04	0.00	0.02	21.24
rs2844594	HVEM on naive CD8br	ebi-a-GCST90001872	6	31258393	A	G	1247	-0.28	0.04	0.00	0.03	40.66
rs112421400	HVEM on naive CD8br	ebi-a-GCST90001872	6	28205826	T	C	1247	-0.25	0.05	0.00	0.02	21.20
rs17532418	HVEM on naive CD8br	ebi-a-GCST90001872	7	121741943	A	C	1247	1.40	0.29	0.00	0.02	22.65
rs11981290	HVEM on naive CD8br	ebi-a-GCST90001872	7	154686456	A	G	1247	-0.20	0.04	0.00	0.02	21.29
rs28904611	HVEM on naive CD8br	ebi-a-GCST90001872	8	89243591	G	A	1247	0.46	0.10	0.00	0.02	22.75
rs118151702	HVEM on naive CD8br	ebi-a-GCST90001872	8	138502532	T	C	1247	0.45	0.10	0.00	0.02	21.28
rs10090960	HVEM on naive CD8br	ebi-a-GCST90001872	8	136809038	G	A	1247	-0.19	0.04	0.00	0.02	21.51
rs524655	HVEM on naive CD8br	ebi-a-GCST90001872	11	107670625	G	T	1247	-1.25	0.25	0.00	0.02	25.53
rs17105684	HVEM on naive CD8br	ebi-a-GCST90001872	11	106267999	A	G	1247	-0.45	0.10	0.00	0.02	20.99
rs4898532	HVEM on naive CD8br	ebi-a-GCST90001872	12	50223579	C	T	1247	-0.19	0.04	0.00	0.02	22.04
rs1353750	HVEM on naive CD8br	ebi-a-GCST90001872	12	17510433	C	T	1247	-0.38	0.08	0.00	0.02	20.47

rs144299393	HVEM on naive CD8br	ebi-a-GCST90001872	13	109533726	A	G	1247	-2.81	0.60	0.00	0.02	21.68
rs17614093	HVEM on naive CD8br	ebi-a-GCST90001872	17	32509256	G	C	1247	0.20	0.04	0.00	0.02	20.08
rs1886730	HVEM on EM CD8br	ebi-a-GCST90001873	1	2488608	C	T	1247	0.29	0.04	0.00	0.04	52.18
rs11810872	HVEM on EM CD8br	ebi-a-GCST90001873	1	44793667	G	A	1247	0.19	0.04	0.00	0.02	20.16
rs16834073	HVEM on EM CD8br	ebi-a-GCST90001873	2	154560519	C	T	1247	-0.48	0.10	0.00	0.02	20.85
rs11707883	HVEM on EM CD8br	ebi-a-GCST90001873	3	126414066	C	T	1247	-0.24	0.05	0.00	0.02	20.97
rs73807141	HVEM on EM CD8br	ebi-a-GCST90001873	3	4772145	A	G	1247	-0.23	0.05	0.00	0.02	21.91
rs139631207	HVEM on EM CD8br	ebi-a-GCST90001873	3	136490521	A	G	1247	0.65	0.14	0.00	0.02	22.22
rs13136753	HVEM on EM CD8br	ebi-a-GCST90001873	4	17244840	G	T	1247	-0.40	0.09	0.00	0.02	22.08
rs139827714	HVEM on EM CD8br	ebi-a-GCST90001873	4	47461569	G	C	1247	0.75	0.16	0.00	0.02	22.55
rs76121075	HVEM on EM CD8br	ebi-a-GCST90001873	6	27296440	T	C	1247	-0.91	0.20	0.00	0.02	20.14
rs6918295	HVEM on EM CD8br	ebi-a-GCST90001873	6	119522751	G	A	1247	-0.38	0.08	0.00	0.02	20.25
rs28367600	HVEM on EM CD8br	ebi-a-GCST90001873	6	31266495	G	A	1247	0.25	0.05	0.00	0.02	29.59
rs7792156	HVEM on EM CD8br	ebi-a-GCST90001873	7	152855875	C	T	1247	0.32	0.07	0.00	0.02	19.67
rs28808959	HVEM on EM CD8br	ebi-a-GCST90001873	8	57257758	T	G	1247	-0.31	0.06	0.00	0.02	23.35
rs1875440	HVEM on EM CD8br	ebi-a-GCST90001873	9	2835973	C	T	1247	0.19	0.04	0.00	0.02	20.02
rs356246	HVEM on EM CD8br	ebi-a-GCST90001873	11	127449726	T	A	1247	-0.21	0.05	0.00	0.02	19.73
rs7962432	HVEM on EM CD8br	ebi-a-GCST90001873	12	105760206	T	A	1247	-0.19	0.04	0.00	0.02	21.32
rs80228817	HVEM on EM CD8br	ebi-a-GCST90001873	14	41599648	C	A	1247	-2.44	0.54	0.00	0.02	20.44
rs112619557	HVEM on EM CD8br	ebi-a-GCST90001873	15	31777164	A	G	1247	-1.01	0.22	0.00	0.02	20.70
rs72913358	HVEM on EM CD8br	ebi-a-GCST90001873	18	42590961	A	T	1247	0.57	0.13	0.00	0.02	20.14
rs2258734	HVEM on TD CD8br	ebi-a-GCST90001874	1	2483961	A	G	1247	0.22	0.04	0.00	0.02	23.07
rs74414172	HVEM on TD CD8br	ebi-a-GCST90001874	1	210532944	T	C	1247	-0.57	0.12	0.00	0.02	21.31
rs16834073	HVEM on TD CD8br	ebi-a-GCST90001874	2	154560519	C	T	1247	-0.51	0.11	0.00	0.02	23.46
rs2862874	HVEM on TD CD8br	ebi-a-GCST90001874	2	58990485	T	G	1247	0.19	0.04	0.00	0.02	20.38
rs112418980	HVEM on TD CD8br	ebi-a-GCST90001874	2	34001527	T	C	1247	0.48	0.10	0.00	0.02	21.06
rs80056411	HVEM on TD CD8br	ebi-a-GCST90001874	3	60109679	G	C	1247	0.28	0.06	0.00	0.02	20.54
rs17354029	HVEM on TD CD8br	ebi-a-GCST90001874	4	83660842	G	A	1247	-0.29	0.06	0.00	0.02	20.23
rs227452	HVEM on TD CD8br	ebi-a-GCST90001874	6	165479017	G	A	1247	-0.24	0.05	0.00	0.02	21.04
rs6903232	HVEM on TD CD8br	ebi-a-GCST90001874	6	121724473	G	T	1247	0.33	0.07	0.00	0.02	26.03
rs9489809	HVEM on TD CD8br	ebi-a-GCST90001874	6	120117845	C	A	1247	0.19	0.04	0.00	0.02	19.65
rs80235303	HVEM on TD CD8br	ebi-a-GCST90001874	6	159828798	T	C	1247	-0.38	0.08	0.00	0.02	20.68
rs111696805	HVEM on TD CD8br	ebi-a-GCST90001874	7	54565976	A	G	1247	-1.75	0.38	0.00	0.02	21.50
rs529163274	HVEM on TD CD8br	ebi-a-GCST90001874	7	34495959	G	T	1247	-1.38	0.26	0.00	0.02	27.08
rs9696823	HVEM on TD CD8br	ebi-a-GCST90001874	9	26754888	G	A	1247	-0.22	0.04	0.00	0.02	26.06
rs75776206	HVEM on TD CD8br	ebi-a-GCST90001874	9	95793215	C	T	1247	0.34	0.07	0.00	0.02	21.59
rs73597199	HVEM on TD CD8br	ebi-a-GCST90001874	11	134924887	C	T	1247	0.20	0.05	0.00	0.02	20.37

rs117738211	HVEM on TD CD8br	ebi-a-GCST90001874	11	93741127	A	G	1247	0.90	0.20	0.00	0.02	19.90
rs61622210	HVEM on TD CD8br	ebi-a-GCST90001874	11	57036822	A	G	1247	0.34	0.08	0.00	0.02	19.64
rs10842705	HVEM on TD CD8br	ebi-a-GCST90001874	12	26469016	G	A	1247	-0.25	0.05	0.00	0.02	20.51
rs4075681	HVEM on TD CD8br	ebi-a-GCST90001874	12	50214637	T	C	1247	-0.21	0.05	0.00	0.02	20.21
rs6489587	HVEM on TD CD8br	ebi-a-GCST90001874	12	638012	G	A	1247	0.20	0.05	0.00	0.02	19.93
rs2374621	HVEM on TD CD8br	ebi-a-GCST90001874	12	106929985	T	A	1247	0.19	0.04	0.00	0.02	20.34
rs76481969	HVEM on TD CD8br	ebi-a-GCST90001874	13	55625565	A	G	1247	0.41	0.09	0.00	0.02	21.68
rs1483108	HVEM on TD CD8br	ebi-a-GCST90001874	14	57322045	A	G	1247	0.19	0.04	0.00	0.02	20.48
rs78305076	HVEM on TD CD8br	ebi-a-GCST90001874	14	34314839	G	A	1247	0.86	0.18	0.00	0.02	21.79
rs140287246	HVEM on TD CD8br	ebi-a-GCST90001874	15	96917459	T	C	1247	-0.78	0.17	0.00	0.02	21.58
rs8057943	HVEM on TD CD8br	ebi-a-GCST90001874	16	80431900	A	C	1247	-0.23	0.05	0.00	0.02	20.81
rs12972416	HVEM on TD CD8br	ebi-a-GCST90001874	19	44220733	G	A	1247	-0.23	0.05	0.00	0.02	21.93
rs226073	HVEM on CD4+	ebi-a-GCST90001875	1	44835020	G	A	1247	-0.19	0.04	0.00	0.02	22.51
rs904604	HVEM on CD4+	ebi-a-GCST90001875	1	56042915	A	G	1247	-0.19	0.04	0.00	0.02	20.62
rs1886730	HVEM on CD4+	ebi-a-GCST90001875	1	2488608	C	T	1247	0.29	0.04	0.00	0.04	57.75
rs4657680	HVEM on CD4+	ebi-a-GCST90001875	1	167575104	T	C	1247	-0.19	0.04	0.00	0.02	22.17
rs1714947	HVEM on CD4+	ebi-a-GCST90001875	2	235253930	C	A	1247	-1.20	0.27	0.00	0.02	19.88
rs79573167	HVEM on CD4+	ebi-a-GCST90001875	2	33965374	C	A	1247	0.65	0.14	0.00	0.02	21.99
rs141874683	HVEM on CD4+	ebi-a-GCST90001875	2	5836918	T	C	1247	-0.41	0.09	0.00	0.02	21.54
rs62246799	HVEM on CD4+	ebi-a-GCST90001875	3	2053929	C	T	1247	-0.32	0.07	0.00	0.02	19.88
rs2074489	HVEM on CD4+	ebi-a-GCST90001875	6	31240128	T	C	1247	0.29	0.06	0.00	0.02	24.20
rs11153673	HVEM on CD4+	ebi-a-GCST90001875	6	117863943	C	T	1247	-0.46	0.10	0.00	0.02	20.57
rs62471911	HVEM on CD4+	ebi-a-GCST90001875	7	154798490	G	A	1247	0.28	0.06	0.00	0.02	21.03
rs28712645	HVEM on CD4+	ebi-a-GCST90001875	7	157863000	G	C	1247	-0.24	0.05	0.00	0.02	20.05
rs7896504	HVEM on CD4+	ebi-a-GCST90001875	10	1634042	T	C	1247	-0.26	0.05	0.00	0.02	24.87
rs12284339	HVEM on CD4+	ebi-a-GCST90001875	11	107699559	A	G	1247	-1.27	0.28	0.00	0.02	19.80
rs11212429	HVEM on CD4+	ebi-a-GCST90001875	11	107761682	T	C	1247	-1.28	0.25	0.00	0.02	26.29
rs4589374	HVEM on CD4+	ebi-a-GCST90001875	12	53204002	T	C	1247	0.42	0.09	0.00	0.02	19.97
rs144299393	HVEM on CD4+	ebi-a-GCST90001875	13	109533726	A	G	1247	-2.70	0.60	0.00	0.02	19.84
rs73449242	HVEM on CD4+	ebi-a-GCST90001875	13	24033981	T	C	1247	0.31	0.06	0.00	0.02	25.40
rs56091264	HVEM on CD4+	ebi-a-GCST90001875	16	28619179	G	A	1247	-0.21	0.04	0.00	0.02	24.96
rs79388518	HVEM on CD4+	ebi-a-GCST90001875	18	1705002	C	T	1247	-0.54	0.12	0.00	0.02	21.72
rs148349980	HVEM on CD4+	ebi-a-GCST90001875	21	15328061	T	A	1247	-0.90	0.20	0.00	0.02	19.75
rs147981351	HVEM on CM CD4+	ebi-a-GCST90001876	1	3030338	A	G	1247	-0.95	0.21	0.00	0.02	20.60
rs1886730	HVEM on CM CD4+	ebi-a-GCST90001876	1	2488608	C	T	1247	0.29	0.04	0.00	0.04	55.24
rs226073	HVEM on CM CD4+	ebi-a-GCST90001876	1	44835020	G	A	1247	-0.19	0.04	0.00	0.02	20.89
rs149830152	HVEM on CM CD4+	ebi-a-GCST90001876	2	59392272	C	T	1247	1.42	0.30	0.00	0.02	22.23

rs141874683	HVEM on CM CD4+	ebi-a-GCST90001876	2	5836918	T	C	1247	-0.40	0.09	0.00	0.02	20.83
rs143967899	HVEM on CM CD4+	ebi-a-GCST90001876	3	33728588	C	T	1247	1.68	0.36	0.00	0.02	22.01
rs3772836	HVEM on CM CD4+	ebi-a-GCST90001876	3	124535635	A	C	1247	-0.75	0.16	0.00	0.02	20.52
rs28367673	HVEM on CM CD4+	ebi-a-GCST90001876	6	31269215	C	A	1247	0.24	0.05	0.00	0.02	24.71
rs62471910	HVEM on CM CD4+	ebi-a-GCST90001876	7	154798440	G	C	1247	0.28	0.06	0.00	0.02	22.21
rs1613049	HVEM on CM CD4+	ebi-a-GCST90001876	7	152987872	A	G	1247	-0.23	0.05	0.00	0.02	20.04
rs2686206	HVEM on CM CD4+	ebi-a-GCST90001876	8	11620315	C	T	1247	0.19	0.04	0.00	0.02	19.81
rs524655	HVEM on CM CD4+	ebi-a-GCST90001876	11	107670625	G	T	1247	-1.32	0.24	0.00	0.02	28.96
rs73449242	HVEM on CM CD4+	ebi-a-GCST90001876	13	24033981	T	C	1247	0.28	0.06	0.00	0.02	20.94
rs77731409	HVEM on CM CD4+	ebi-a-GCST90001876	14	26718656	C	G	1247	0.40	0.09	0.00	0.02	19.65
rs114558014	HVEM on CM CD4+	ebi-a-GCST90001876	16	28512884	C	A	1247	-0.20	0.04	0.00	0.02	20.89
rs17542274	HVEM on CM CD4+	ebi-a-GCST90001876	17	32529159	A	G	1247	0.22	0.05	0.00	0.02	20.23
rs77231600	HVEM on CM CD4+	ebi-a-GCST90001876	18	5850612	A	G	1247	0.67	0.15	0.00	0.02	20.48
rs1579540	HVEM on CM CD4+	ebi-a-GCST90001876	18	49076557	G	A	1247	-1.75	0.36	0.00	0.02	23.02
rs75432705	HVEM on CM CD4+	ebi-a-GCST90001876	20	44951484	C	A	1247	0.74	0.17	0.00	0.02	20.14
rs2234161	HVEM on naive CD4+	ebi-a-GCST90001877	1	2491205	T	C	1247	0.25	0.04	0.00	0.03	42.46
rs13434241	HVEM on naive CD4+	ebi-a-GCST90001877	3	134924639	G	T	1247	-0.36	0.08	0.00	0.02	19.75
rs7430694	HVEM on naive CD4+	ebi-a-GCST90001877	3	129730125	T	C	1247	-0.41	0.09	0.00	0.02	19.73
rs11760108	HVEM on naive CD4+	ebi-a-GCST90001877	6	46849057	T	G	1247	-0.32	0.07	0.00	0.02	20.66
rs536853	HVEM on naive CD4+	ebi-a-GCST90001877	6	23965983	G	A	1247	0.27	0.05	0.00	0.02	24.28
rs7385030	HVEM on naive CD4+	ebi-a-GCST90001877	7	157857174	T	C	1247	-0.23	0.05	0.00	0.02	20.10
rs17532418	HVEM on naive CD4+	ebi-a-GCST90001877	7	121741943	A	C	1247	1.34	0.29	0.00	0.02	21.67
rs28904611	HVEM on naive CD4+	ebi-a-GCST90001877	8	89243591	G	A	1247	0.44	0.09	0.00	0.02	21.34
rs72730570	HVEM on naive CD4+	ebi-a-GCST90001877	9	104812918	C	A	1247	-0.40	0.08	0.00	0.02	22.19
rs7896504	HVEM on naive CD4+	ebi-a-GCST90001877	10	1634042	T	C	1247	-0.27	0.05	0.00	0.02	26.45
rs524655	HVEM on naive CD4+	ebi-a-GCST90001877	11	107670625	G	T	1247	-1.13	0.24	0.00	0.02	21.64
rs144299393	HVEM on naive CD4+	ebi-a-GCST90001877	13	109533726	A	G	1247	-2.66	0.59	0.00	0.02	20.07
rs73449242	HVEM on naive CD4+	ebi-a-GCST90001877	13	24033981	T	C	1247	0.30	0.06	0.00	0.02	25.10
rs117656327	HVEM on naive CD4+	ebi-a-GCST90001877	14	23450548	G	C	1247	0.40	0.09	0.00	0.02	19.79
rs117618257	HVEM on naive CD4+	ebi-a-GCST90001877	16	423808	A	C	1247	-0.23	0.04	0.00	0.02	26.39
rs56091264	HVEM on naive CD4+	ebi-a-GCST90001877	16	28619179	G	A	1247	-0.19	0.04	0.00	0.02	22.97
rs150797289	HVEM on naive CD4+	ebi-a-GCST90001877	17	13805082	G	A	1247	-0.42	0.10	0.00	0.02	19.70
rs62076816	HVEM on naive CD4+	ebi-a-GCST90001877	18	5843287	G	A	1247	0.24	0.05	0.00	0.02	20.28
rs1772154	HVEM on EM CD4+	ebi-a-GCST90001878	1	205745932	T	C	1247	-0.21	0.05	0.00	0.02	22.15
rs2182176	HVEM on EM CD4+	ebi-a-GCST90001878	1	2499254	A	G	1247	0.29	0.04	0.00	0.04	53.77
rs4657680	HVEM on EM CD4+	ebi-a-GCST90001878	1	167575104	T	C	1247	-0.19	0.04	0.00	0.02	20.59
rs2002586	HVEM on EM CD4+	ebi-a-GCST90001878	2	19497003	G	A	1247	-0.22	0.04	0.00	0.02	27.83

rs116838007	HVEM on EM CD4+	ebi-a-GCST90001878	2	241352278	A	G	1247	0.67	0.15	0.00	0.02	21.03
rs12053385	HVEM on EM CD4+	ebi-a-GCST90001878	2	209630745	G	C	1247	-0.24	0.05	0.00	0.02	19.92
rs73150365	HVEM on EM CD4+	ebi-a-GCST90001878	3	100152337	C	T	1247	0.44	0.10	0.00	0.02	20.60
rs115176674	HVEM on EM CD4+	ebi-a-GCST90001878	3	174773888	G	A	1247	-0.23	0.05	0.00	0.02	20.55
rs115725884	HVEM on EM CD4+	ebi-a-GCST90001878	3	139112247	T	G	1247	-1.13	0.25	0.00	0.02	20.26
rs6882776	HVEM on EM CD4+	ebi-a-GCST90001878	5	172664163	A	G	1247	0.19	0.04	0.00	0.02	20.26
rs11758857	HVEM on EM CD4+	ebi-a-GCST90001878	6	117867335	C	T	1247	-0.47	0.10	0.00	0.02	21.75
rs7754903	HVEM on EM CD4+	ebi-a-GCST90001878	6	31254496	T	G	1247	0.30	0.06	0.00	0.02	27.52
rs142133424	HVEM on EM CD4+	ebi-a-GCST90001878	6	132490260	A	G	1247	0.93	0.21	0.00	0.02	19.73
rs117761782	HVEM on EM CD4+	ebi-a-GCST90001878	8	22024980	T	G	1247	-0.45	0.09	0.00	0.02	22.62
rs2959645	HVEM on EM CD4+	ebi-a-GCST90001878	8	99010895	T	A	1247	0.19	0.04	0.00	0.02	19.72
rs7864163	HVEM on EM CD4+	ebi-a-GCST90001878	9	2029454	A	C	1247	0.56	0.12	0.00	0.02	20.56
rs61873707	HVEM on EM CD4+	ebi-a-GCST90001878	10	99831579	A	G	1247	0.55	0.12	0.00	0.02	21.84
rs524655	HVEM on EM CD4+	ebi-a-GCST90001878	11	107670625	G	T	1247	-1.28	0.25	0.00	0.02	25.76
rs74257706	HVEM on EM CD4+	ebi-a-GCST90001878	18	63124981	G	C	1247	-0.29	0.06	0.00	0.02	20.93
rs557685	HVEM on EM CD4+	ebi-a-GCST90001878	18	610273	A	G	1247	-0.33	0.07	0.00	0.02	25.09
rs4803979	HVEM on EM CD4+	ebi-a-GCST90001878	19	47040463	C	T	1247	-0.23	0.05	0.00	0.02	20.58
rs147371997	HVEM on EM CD4+	ebi-a-GCST90001878	19	36235084	G	A	1247	0.99	0.21	0.00	0.02	21.34
rs2227313	HVEM on TD CD4+	ebi-a-GCST90001879	1	2487766	C	T	1245	0.24	0.04	0.00	0.03	35.83
rs10888005	HVEM on TD CD4+	ebi-a-GCST90001879	1	17473323	C	T	1245	0.72	0.16	0.00	0.02	20.40
rs759400	HVEM on TD CD4+	ebi-a-GCST90001879	2	10709816	T	C	1245	-0.25	0.05	0.00	0.02	21.22
rs145042920	HVEM on TD CD4+	ebi-a-GCST90001879	2	88351748	A	T	1245	0.35	0.08	0.00	0.02	19.85
rs56365633	HVEM on TD CD4+	ebi-a-GCST90001879	4	164927486	C	T	1245	-0.22	0.05	0.00	0.02	20.52
rs7735724	HVEM on TD CD4+	ebi-a-GCST90001879	5	53194393	C	T	1245	0.21	0.04	0.00	0.02	24.86
rs78318630	HVEM on TD CD4+	ebi-a-GCST90001879	6	36237023	A	G	1245	0.25	0.06	0.00	0.02	20.37
rs34500563	HVEM on TD CD4+	ebi-a-GCST90001879	6	10747254	A	G	1245	2.05	0.45	0.00	0.02	20.89
rs78703228	HVEM on TD CD4+	ebi-a-GCST90001879	7	133783811	T	C	1245	-0.85	0.19	0.00	0.02	20.13
rs2158382	HVEM on TD CD4+	ebi-a-GCST90001879	7	19764946	T	G	1245	-0.20	0.04	0.00	0.02	21.90
rs1541415	HVEM on TD CD4+	ebi-a-GCST90001879	7	147205421	C	T	1245	-0.19	0.04	0.00	0.02	21.26
rs7024801	HVEM on TD CD4+	ebi-a-GCST90001879	9	93360653	T	A	1245	-0.28	0.06	0.00	0.02	20.71
rs12378405	HVEM on TD CD4+	ebi-a-GCST90001879	9	7820271	A	C	1245	-0.22	0.05	0.00	0.02	21.25
rs2382040	HVEM on TD CD4+	ebi-a-GCST90001879	9	9681323	A	T	1245	-0.20	0.04	0.00	0.02	21.31
rs76025942	HVEM on TD CD4+	ebi-a-GCST90001879	9	96367900	A	G	1245	-0.33	0.07	0.00	0.02	25.73
rs11014115	HVEM on TD CD4+	ebi-a-GCST90001879	10	24786510	A	G	1245	-0.22	0.04	0.00	0.02	26.59
rs11592466	HVEM on TD CD4+	ebi-a-GCST90001879	10	14316154	T	C	1245	-0.32	0.07	0.00	0.02	20.89
rs4880998	HVEM on TD CD4+	ebi-a-GCST90001879	10	2506524	C	T	1245	0.19	0.04	0.00	0.02	20.08
rs7918482	HVEM on TD CD4+	ebi-a-GCST90001879	10	131682181	C	T	1245	1.00	0.22	0.00	0.02	20.04

rs11232580	HVEM on TD CD4+	ebi-a-GCST90001879	11	81008355	A	G	1245	-0.21	0.05	0.00	0.02	19.94
rs7122006	HVEM on TD CD4+	ebi-a-GCST90001879	11	128827397	T	C	1245	-0.18	0.04	0.00	0.02	20.70
rs12833432	HVEM on TD CD4+	ebi-a-GCST90001879	12	130668546	T	C	1245	-0.28	0.06	0.00	0.02	24.83
rs117920606	HVEM on TD CD4+	ebi-a-GCST90001879	13	70336135	A	G	1245	-0.74	0.16	0.00	0.02	20.70
rs9549072	HVEM on TD CD4+	ebi-a-GCST90001879	13	40707448	G	A	1245	0.18	0.04	0.00	0.02	19.70
rs11659521	HVEM on TD CD4+	ebi-a-GCST90001879	18	5862557	C	A	1245	0.35	0.08	0.00	0.02	19.90
rs1399834	HVEM on TD CD4+	ebi-a-GCST90001879	19	51797326	G	A	1245	0.19	0.04	0.00	0.02	20.67
rs80147656	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	1	97830828	T	C	1247	1.00	0.22	0.00	0.02	21.44
rs4657680	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	1	167575104	T	C	1247	-0.18	0.04	0.00	0.02	20.24
rs1886730	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	1	2488608	C	T	1247	0.30	0.04	0.00	0.05	59.66
rs226073	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	1	44835020	G	A	1247	-0.19	0.04	0.00	0.02	21.21
rs904604	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	1	56042915	A	G	1247	-0.19	0.04	0.00	0.02	21.12
rs149830152	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	2	59392272	C	T	1247	1.40	0.31	0.00	0.02	20.96
rs2002586	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	2	19497003	G	A	1247	-0.20	0.04	0.00	0.02	24.63
rs792072	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	2	5593302	G	A	1247	0.20	0.04	0.00	0.02	23.17
rs141874683	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	2	5836918	T	C	1247	-0.44	0.09	0.00	0.02	24.20
rs79573167	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	2	33965374	C	A	1247	0.63	0.14	0.00	0.02	20.02
rs2074489	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	6	31240128	T	C	1247	0.30	0.06	0.00	0.02	24.52
rs11153673	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	6	117863943	C	T	1247	-0.51	0.10	0.00	0.02	25.15
rs62471911	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	7	154798490	G	A	1247	0.31	0.06	0.00	0.02	26.20
rs28712645	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	7	157863000	G	C	1247	-0.24	0.05	0.00	0.02	19.97
rs74680174	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	9	117077793	C	T	1247	0.79	0.17	0.00	0.02	20.96
rs4752368	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	10	121771245	C	T	1247	-0.21	0.05	0.00	0.02	20.57
rs524655	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	11	107670625	G	T	1247	-1.33	0.25	0.00	0.02	28.41
rs56091264	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	16	28619179	G	A	1247	-0.19	0.04	0.00	0.02	19.70
rs77231600	CD45RA- CD4+ HVEM on	ebi-a-GCST90001880	18	5850612	A	G	1247	0.70	0.15	0.00	0.02	22.20
rs147371997	CD45RA- CD4+	ebi-a-GCST90001880	19	36235084	G	A	1247	0.99	0.21	0.00	0.02	21.73

rs2227313	HVEM on CD8br	ebi-a-GCST90001881	1	2487766	C	T	1247	0.26	0.04	0.00	0.03	43.92
rs61731213	HVEM on CD8br	ebi-a-GCST90001881	1	203690537	A	G	1247	1.06	0.23	0.00	0.02	20.88
rs16834073	HVEM on CD8br	ebi-a-GCST90001881	2	154560519	C	T	1247	-0.52	0.10	0.00	0.02	26.20
rs182735817	HVEM on CD8br	ebi-a-GCST90001881	2	129316586	A	G	1247	0.65	0.15	0.00	0.02	19.64
rs150482210	HVEM on CD8br	ebi-a-GCST90001881	3	135398834	T	A	1247	0.63	0.14	0.00	0.02	21.00
rs75214693	HVEM on CD8br	ebi-a-GCST90001881	4	93244732	T	C	1247	-0.48	0.10	0.00	0.02	23.00
rs2219729	HVEM on CD8br	ebi-a-GCST90001881	5	101440775	C	T	1247	-0.19	0.04	0.00	0.02	19.83
rs35211801	HVEM on CD8br	ebi-a-GCST90001881	5	80948384	T	C	1247	1.21	0.27	0.00	0.02	20.02
rs9267111	HVEM on CD8br	ebi-a-GCST90001881	6	31416379	G	A	1247	-0.27	0.06	0.00	0.02	22.39
rs80126152	HVEM on CD8br	ebi-a-GCST90001881	7	83616304	C	A	1247	0.77	0.16	0.00	0.02	23.20
rs117761782	HVEM on CD8br	ebi-a-GCST90001881	8	22024980	T	G	1247	-0.41	0.09	0.00	0.02	19.82
rs10090960	HVEM on CD8br	ebi-a-GCST90001881	8	136809038	G	A	1247	-0.20	0.04	0.00	0.02	24.31
rs10508717	HVEM on CD8br	ebi-a-GCST90001881	10	26672328	A	G	1247	-0.19	0.04	0.00	0.02	20.68
rs2338998	HVEM on CD8br	ebi-a-GCST90001881	17	32670901	C	T	1247	0.23	0.04	0.00	0.02	28.02
rs7210730	HVEM on CD8br	ebi-a-GCST90001881	17	78629025	A	G	1247	0.20	0.04	0.00	0.02	20.34
rs9966806	HVEM on CD8br	ebi-a-GCST90001881	18	64825431	T	C	1247	0.18	0.04	0.00	0.02	19.78
rs61826205	HVEM on CM CD8br	ebi-a-GCST90001882	1	170559626	G	T	1247	0.31	0.06	0.00	0.02	26.92
rs11807062	HVEM on CM CD8br	ebi-a-GCST90001882	1	3153237	C	A	1247	0.28	0.06	0.00	0.02	21.89
rs1886730	HVEM on CM CD8br	ebi-a-GCST90001882	1	2488608	C	T	1247	0.31	0.04	0.00	0.05	64.50
rs4593803	HVEM on CM CD8br	ebi-a-GCST90001882	1	91231232	G	A	1247	-0.19	0.04	0.00	0.02	23.15
rs58461262	HVEM on CM CD8br	ebi-a-GCST90001882	2	5859854	A	G	1247	-0.39	0.08	0.00	0.02	23.28
rs62246799	HVEM on CM CD8br	ebi-a-GCST90001882	3	2053929	C	T	1247	-0.33	0.07	0.00	0.02	20.59
rs2937054	HVEM on CM CD8br	ebi-a-GCST90001882	5	116099168	T	G	1247	-0.29	0.06	0.00	0.02	22.84
rs536853	HVEM on CM CD8br	ebi-a-GCST90001882	6	23965983	G	A	1247	0.25	0.06	0.00	0.02	20.09
rs72923012	HVEM on CM CD8br	ebi-a-GCST90001882	6	98060503	T	C	1247	-0.34	0.07	0.00	0.02	25.78
rs73390208	HVEM on CM CD8br	ebi-a-GCST90001882	6	31326131	T	C	1247	0.20	0.04	0.00	0.02	21.92
rs62471910	HVEM on CM CD8br	ebi-a-GCST90001882	7	154798440	G	C	1247	0.30	0.06	0.00	0.02	23.80
rs28904611	HVEM on CM CD8br	ebi-a-GCST90001882	8	89243591	G	A	1247	0.44	0.10	0.00	0.02	20.82
rs2740433	HVEM on CM CD8br	ebi-a-GCST90001882	8	11621450	A	G	1247	0.21	0.05	0.00	0.02	20.92
rs4977976	HVEM on CM CD8br	ebi-a-GCST90001882	9	21156118	A	C	1247	-0.34	0.07	0.00	0.02	22.99
rs524655	HVEM on CM CD8br	ebi-a-GCST90001882	11	107670625	G	T	1247	-1.15	0.25	0.00	0.02	21.32
rs113260310	HVEM on CM CD8br	ebi-a-GCST90001882	11	77477036	A	G	1247	-1.25	0.28	0.00	0.02	19.91
rs9509382	HVEM on CM CD8br	ebi-a-GCST90001882	13	19256068	G	A	1247	-0.75	0.17	0.00	0.02	19.89
rs2733310	HVEM on CM CD8br	ebi-a-GCST90001882	15	57498691	G	T	1247	0.19	0.04	0.00	0.02	19.64
rs837640	HVEM on CM CD8br	ebi-a-GCST90001882	19	49283494	C	T	1247	-0.31	0.07	0.00	0.02	19.96
rs138425921	CD16-CD56 on NKT	ebi-a-GCST90001883	1	22721951	T	C	3113	-0.39	0.08	0.00	0.01	22.01
rs28411259	CD16-CD56 on NKT	ebi-a-GCST90001883	1	230179351	C	T	3113	0.22	0.05	0.00	0.01	22.26

rs114688494	CD16-CD56 on NKT	ebi-a-GCST90001883	2	23343715	C	T	3113	0.55	0.12	0.00	0.01	20.72
rs141668845	CD16-CD56 on NKT	ebi-a-GCST90001883	3	33950996	G	A	3113	-1.06	0.24	0.00	0.01	19.73
rs237883	CD16-CD56 on NKT	ebi-a-GCST90001883	3	8788485	A	T	3113	-0.19	0.04	0.00	0.01	22.48
rs115442185	CD16-CD56 on NKT	ebi-a-GCST90001883	4	109239280	G	A	3113	0.32	0.07	0.00	0.01	22.25
rs12501477	CD16-CD56 on NKT	ebi-a-GCST90001883	4	182906397	T	G	3113	0.12	0.03	0.00	0.01	20.28
rs138112111	CD16-CD56 on NKT	ebi-a-GCST90001883	6	97227252	T	C	3113	0.35	0.07	0.00	0.01	29.40
rs115536607	CD16-CD56 on NKT	ebi-a-GCST90001883	6	101417409	T	C	3113	0.28	0.06	0.00	0.01	22.89
rs9488834	CD16-CD56 on NKT	ebi-a-GCST90001883	6	97889936	A	G	3113	0.49	0.06	0.00	0.02	58.17
rs75710318	CD16-CD56 on NKT	ebi-a-GCST90001883	6	69685408	A	T	3113	-0.31	0.07	0.00	0.01	19.67
rs79251210	CD16-CD56 on NKT	ebi-a-GCST90001883	6	100468602	A	G	3113	0.45	0.07	0.00	0.01	41.29
rs117147408	CD16-CD56 on NKT	ebi-a-GCST90001883	6	101980039	G	A	3113	0.65	0.08	0.00	0.02	62.84
rs75616233	CD16-CD56 on NKT	ebi-a-GCST90001883	7	103955121	A	T	3113	0.28	0.06	0.00	0.01	23.30
rs73209471	CD16-CD56 on NKT	ebi-a-GCST90001883	8	20867564	G	T	3113	-1.09	0.23	0.00	0.01	21.71
rs532733980	CD16-CD56 on NKT	ebi-a-GCST90001883	9	138754221	C	T	3113	2.48	0.55	0.00	0.01	20.22
rs145334185	CD16-CD56 on NKT	ebi-a-GCST90001883	10	22123801	A	C	3113	0.46	0.10	0.00	0.01	20.10
rs12573757	CD16-CD56 on NKT	ebi-a-GCST90001883	10	83824559	T	C	3113	-0.12	0.03	0.00	0.01	20.24
rs11214436	CD16-CD56 on NKT	ebi-a-GCST90001883	11	112830782	T	G	3113	0.27	0.03	0.00	0.03	89.11
rs77738700	CD16-CD56 on NKT	ebi-a-GCST90001883	11	112751407	A	G	3113	-0.75	0.04	0.00	0.10	332.77
rs17729025	CD16-CD56 on NKT	ebi-a-GCST90001883	11	110827812	A	C	3113	-0.23	0.05	0.00	0.01	22.80
rs45602031	CD16-CD56 on NKT	ebi-a-GCST90001883	11	113117261	T	C	3113	-0.26	0.05	0.00	0.01	26.68
rs10219323	CD16-CD56 on NKT	ebi-a-GCST90001883	11	111984131	C	A	3113	0.23	0.05	0.00	0.01	22.99
rs192922707	CD16-CD56 on NKT	ebi-a-GCST90001883	13	40183073	T	A	3113	-1.10	0.24	0.00	0.01	21.80
rs142268019	CD16-CD56 on NKT	ebi-a-GCST90001883	13	70784181	A	G	3113	-0.65	0.15	0.00	0.01	19.86
rs7157523	CD16-CD56 on NKT	ebi-a-GCST90001883	14	93132015	T	C	3113	0.14	0.03	0.00	0.01	20.97
rs36015524	CD16-CD56 on NKT	ebi-a-GCST90001883	18	35141783	A	G	3113	-0.15	0.03	0.00	0.01	19.84
rs9950268	CD16-CD56 on NKT	ebi-a-GCST90001883	18	4925256	G	A	3113	-0.12	0.03	0.00	0.01	20.51
rs10401901	CD16-CD56 on NKT	ebi-a-GCST90001883	19	54956254	C	A	3113	0.13	0.03	0.00	0.01	23.01
rs150921517	CD16-CD56 on NKT	ebi-a-GCST90001883	21	41897898	T	C	3113	-0.86	0.18	0.00	0.01	22.03
rs146713480	CD16-CD56 on NK	ebi-a-GCST90001884	1	161121300	A	G	3113	-0.28	0.06	0.00	0.01	19.60
rs10919544	CD16-CD56 on NK	ebi-a-GCST90001884	1	161508763	C	T	3113	-0.26	0.03	0.00	0.03	86.58
rs140904849	CD16-CD56 on NK	ebi-a-GCST90001884	1	32442768	T	C	3113	-0.88	0.20	0.00	0.01	20.00
rs139795227	CD16-CD56 on NK	ebi-a-GCST90001884	1	92842367	C	A	3113	0.32	0.06	0.00	0.01	24.79
rs75586628	CD16-CD56 on NK	ebi-a-GCST90001884	3	144642201	T	C	3113	-0.33	0.07	0.00	0.01	19.57
rs144290638	CD16-CD56 on NK	ebi-a-GCST90001884	4	31794715	G	A	3113	0.28	0.06	0.00	0.01	20.44
rs143549694	CD16-CD56 on NK	ebi-a-GCST90001884	4	161858005	G	A	3113	0.54	0.11	0.00	0.01	23.55
rs12644590	CD16-CD56 on NK	ebi-a-GCST90001884	4	16657392	G	A	3113	0.39	0.08	0.00	0.01	21.96
rs75500437	CD16-CD56 on NK	ebi-a-GCST90001884	4	58092490	A	G	3113	-0.29	0.06	0.00	0.01	21.06

rs71607232	CD16-CD56 on NK	ebi-a-GCST90001884	4	60815666	A	G	3113	0.40	0.08	0.00	0.01	22.04
rs2844642	CD16-CD56 on NK	ebi-a-GCST90001884	6	31019806	A	G	3113	-0.24	0.05	0.00	0.01	21.82
rs7760353	CD16-CD56 on NK	ebi-a-GCST90001884	6	102207604	A	T	3113	0.25	0.06	0.00	0.01	19.97
rs186982732	CD16-CD56 on NK	ebi-a-GCST90001884	9	87447998	G	T	3113	-1.00	0.23	0.00	0.01	19.75
rs7023353	CD16-CD56 on NK	ebi-a-GCST90001884	9	110692719	C	T	3113	0.15	0.03	0.00	0.01	22.43
rs56341765	CD16-CD56 on NK	ebi-a-GCST90001884	10	6270618	T	A	3113	0.13	0.03	0.00	0.01	20.88
rs117655461	CD16-CD56 on NK	ebi-a-GCST90001884	11	114307356	T	C	3113	-0.30	0.07	0.00	0.01	21.73
rs111579151	CD16-CD56 on NK	ebi-a-GCST90001884	11	111848073	T	C	3113	-0.56	0.07	0.00	0.02	57.47
rs148849191	CD16-CD56 on NK	ebi-a-GCST90001884	11	113153223	T	C	3113	-0.78	0.12	0.00	0.01	41.90
rs17504675	CD16-CD56 on NK	ebi-a-GCST90001884	11	110737507	A	G	3113	-0.47	0.08	0.00	0.01	37.84
rs77291736	CD16-CD56 on NK	ebi-a-GCST90001884	11	112749800	T	C	3113	-1.08	0.04	0.00	0.20	787.94
rs117533070	CD16-CD56 on NK	ebi-a-GCST90001884	11	112710664	T	C	3113	0.29	0.05	0.00	0.01	33.51
rs61900380	CD16-CD56 on NK	ebi-a-GCST90001884	11	83760635	T	C	3113	0.58	0.13	0.00	0.01	20.33
rs117853201	CD16-CD56 on NK	ebi-a-GCST90001884	11	80035628	A	G	3113	0.72	0.16	0.00	0.01	19.90
rs182003559	CD16-CD56 on NK	ebi-a-GCST90001884	11	110491411	T	A	3113	-0.90	0.16	0.00	0.01	33.05
rs7947051	CD16-CD56 on NK	ebi-a-GCST90001884	11	129495547	G	A	3113	0.18	0.04	0.00	0.01	24.60
rs11214436	CD16-CD56 on NK	ebi-a-GCST90001884	11	112830782	T	G	3113	0.32	0.03	0.00	0.04	125.18
rs189384754	CD16-CD56 on NK	ebi-a-GCST90001884	12	122677843	G	T	3113	1.27	0.28	0.00	0.01	21.13
rs73207892	CD16-CD56 on NK	ebi-a-GCST90001884	13	69429461	G	T	3113	-0.49	0.11	0.00	0.01	20.28
rs142394087	CD16-CD56 on NK	ebi-a-GCST90001884	14	66348437	T	C	3113	-0.63	0.14	0.00	0.01	19.88
rs12944882	CD16-CD56 on NK	ebi-a-GCST90001884	17	37983492	C	T	3113	-0.13	0.03	0.00	0.01	23.64
rs151212014	CD16-CD56 on NK	ebi-a-GCST90001884	19	4195225	G	A	3113	0.68	0.15	0.00	0.01	21.34
rs147640330	on HLA DR+ NK CD16-CD56	ebi-a-GCST90001885	1	161536758	C	T	2971	0.24	0.03	0.00	0.02	59.34
rs72815294	on HLA DR+ NK CD16-CD56	ebi-a-GCST90001885	2	26780538	T	C	2971	-0.18	0.04	0.00	0.01	22.09
rs75586628	on HLA DR+ NK CD16-CD56	ebi-a-GCST90001885	3	144642201	T	C	2971	-0.35	0.07	0.00	0.01	23.24
rs62247496	on HLA DR+ NK CD16-CD56	ebi-a-GCST90001885	3	9905680	G	T	2971	0.19	0.04	0.00	0.01	21.38
rs4683278	on HLA DR+ NK CD16-CD56	ebi-a-GCST90001885	3	47026596	G	T	2971	0.16	0.03	0.00	0.01	21.39
rs13132013	on HLA DR+ NK CD16-CD56	ebi-a-GCST90001885	4	96713626	T	C	2971	-0.12	0.03	0.00	0.01	19.78
rs17146863	on HLA DR+ NK CD16-CD56	ebi-a-GCST90001885	5	119959773	T	A	2971	0.22	0.05	0.00	0.01	20.04
rs4866395	on HLA DR+ NK CD16-CD56	ebi-a-GCST90001885	5	33866241	A	G	2971	-0.13	0.03	0.00	0.01	21.75
rs2463678	on HLA DR+ NK CD16-CD56	ebi-a-GCST90001885	7	85124635	C	T	2971	-0.18	0.04	0.00	0.01	20.14
rs149897374	on HLA DR+ NK	ebi-a-GCST90001885	7	108731721	T	C	2971	-0.28	0.06	0.00	0.01	24.74

rs78309366	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	8	3406535	C	G	2971	0.38	0.08	0.00	0.01	21.91
rs72693216	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	9	2285910	A	T	2971	0.86	0.19	0.00	0.01	21.05
rs1590409	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	9	13601074	C	T	2971	-0.12	0.03	0.00	0.01	20.81
rs2260397	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	10	94163116	C	T	2971	0.12	0.03	0.00	0.01	19.71
rs4963162	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	11	769015	T	C	2971	0.96	0.21	0.00	0.01	19.89
rs78358948	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	11	112751974	A	G	2971	-0.34	0.04	0.00	0.02	64.78
rs11229021	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	11	55061239	A	G	2971	0.12	0.03	0.00	0.01	19.89
rs369336153	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	11	1119270	T	A	2971	0.97	0.21	0.00	0.01	22.04
rs12580221	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	12	125621066	C	T	2971	-0.14	0.03	0.00	0.01	24.03
rs543548673	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	12	42267311	T	C	2971	-0.25	0.05	0.00	0.01	22.71
rs79850036	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	12	5507432	C	T	2971	-0.65	0.13	0.00	0.01	25.87
rs117051465	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	14	71723360	C	T	2971	-0.26	0.06	0.00	0.01	20.13
rs11634090	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	15	100538763	T	C	2971	1.63	0.37	0.00	0.01	19.75
rs62015176	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	15	68042518	A	G	2971	-1.53	0.31	0.00	0.01	24.11
rs224230	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	16	3308357	A	G	2971	0.15	0.03	0.00	0.01	25.50
rs74783293	CD16-CD56 on HLA DR+ NK	ebi-a-GCST90001885	20	43204977	T	C	2971	1.23	0.27	0.00	0.01	20.22
rs181148368	CD28 on CD39+ activated Treg	ebi-a-GCST90001886	1	47339027	A	G	2920	-0.35	0.07	0.00	0.01	22.33
rs77594357	CD28 on CD39+ activated Treg	ebi-a-GCST90001886	2	204328474	A	T	2920	-0.16	0.03	0.00	0.01	30.28
rs702874	CD28 on CD39+ activated Treg	ebi-a-GCST90001886	2	65005540	A	G	2920	0.12	0.03	0.00	0.01	20.68
rs3116493	CD28 on CD39+ activated Treg	ebi-a-GCST90001886	2	204589281	T	G	2920	0.30	0.03	0.00	0.04	131.44
rs72968907	CD28 on CD39+ activated Treg	ebi-a-GCST90001886	3	123701658	A	G	2920	-0.56	0.12	0.00	0.01	20.08
rs75966592	CD28 on CD39+ activated Treg	ebi-a-GCST90001886	4	25806035	C	T	2920	-0.89	0.19	0.00	0.01	21.07

rs78069822	CD28 on CD39+ activated	ebi-a-GCST90001886	5	31664604	T	C	2920	-0.43	0.09	0.00	0.01	20.77
rs13170880	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	5	81137543	T	A	2920	-0.62	0.12	0.00	0.01	25.76
rs113069636	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	6	71917703	C	T	2920	-1.69	0.38	0.00	0.01	20.04
rs75477465	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	8	68794331	A	G	2920	0.24	0.05	0.00	0.01	19.68
rs79881476	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	10	86422393	T	C	2920	-0.75	0.16	0.00	0.01	21.91
rs2226163	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	10	97628994	G	A	2920	0.25	0.03	0.00	0.03	93.24
rs12146493	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	11	65547333	A	G	2920	0.13	0.03	0.00	0.01	20.07
rs144419206	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	11	24126713	T	C	2920	-2.14	0.48	0.00	0.01	19.75
rs7294586	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	12	100890455	C	T	2920	-0.40	0.09	0.00	0.01	22.01
rs111860462	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	14	82047636	T	C	2920	1.54	0.31	0.00	0.01	25.10
rs79450701	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	14	55670402	A	G	2920	0.51	0.11	0.00	0.01	20.93
rs2521501	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	15	91437388	T	A	2920	-0.14	0.03	0.00	0.01	26.46
rs137875117	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	16	25627987	A	T	2920	-0.83	0.18	0.00	0.01	21.19
rs147329602	Treg CD28 on CD39+ activated	ebi-a-GCST90001886	19	6350406	C	G	2920	-0.41	0.08	0.00	0.01	24.01
rs34460712	Treg CD28 on secreting	ebi-a-GCST90001887	2	38935236	A	G	2920	0.20	0.04	0.00	0.01	30.76
rs62183989	CD28 on secreting	ebi-a-GCST90001887	2	204609402	T	C	2920	-0.42	0.03	0.00	0.05	152.53
rs116479405	CD28 on secreting	ebi-a-GCST90001887	2	49884156	A	G	2920	-0.50	0.10	0.00	0.01	23.11
rs78066273	CD28 on secreting	ebi-a-GCST90001887	3	113291855	C	T	2920	-0.32	0.07	0.00	0.01	22.85
rs187188	CD28 on secreting	ebi-a-GCST90001887	3	55114197	G	T	2920	0.23	0.05	0.00	0.01	23.09
rs6766082	CD28 on secreting	ebi-a-GCST90001887	3	14637898	T	G	2920	0.58	0.13	0.00	0.01	21.03
rs1349999	CD28 on secreting	ebi-a-GCST90001887	4	15059988	G	A	2920	-0.12	0.03	0.00	0.01	20.67
rs139007177	CD28 on secreting	ebi-a-GCST90001887	4	83560688	A	G	2920	2.03	0.43	0.00	0.01	21.91
rs76308995	CD28 on secreting	ebi-a-GCST90001887	5	125362860	A	C	2920	-0.50	0.10	0.00	0.01	25.98

rs3757247	CD28 on secreting	ebi-a-GCST90001887	6	90957463	T	C	2920	0.15	0.03	0.00	0.01	31.34
rs144665636	CD28 on secreting	ebi-a-GCST90001887	8	51406956	C	T	2920	-3.31	0.73	0.00	0.01	20.51
rs142599237	CD28 on secreting	ebi-a-GCST90001887	10	114914004	T	C	2920	-2.30	0.52	0.00	0.01	19.90
rs4906123	CD28 on secreting	ebi-a-GCST90001887	14	101938382	C	G	2920	-0.13	0.03	0.00	0.01	20.17
rs189158196	CD28 on secreting	ebi-a-GCST90001887	14	43725613	G	T	2920	-0.35	0.07	0.00	0.01	22.18
rs2270288	CD28 on secreting	ebi-a-GCST90001887	16	8875529	T	G	2920	0.12	0.03	0.00	0.01	20.24
rs2341310	CD28 on secreting	ebi-a-GCST90001887	17	69802656	G	A	2920	-0.20	0.04	0.00	0.01	20.75
rs144535716	CD28 on secreting	ebi-a-GCST90001887	18	64170750	C	G	2920	-1.38	0.30	0.00	0.01	21.15
rs114072022	CD39+ secreting	ebi-a-GCST90001888	1	57351172	T	C	2920	0.15	0.03	0.00	0.01	20.23
rs141663136	CD39+ secreting	ebi-a-GCST90001888	2	3592725	G	A	2920	0.64	0.14	0.00	0.01	20.31
rs115086130	CD39+ secreting	ebi-a-GCST90001888	2	217086534	A	G	2920	-1.20	0.26	0.00	0.01	21.71
rs114508332	CD39+ secreting	ebi-a-GCST90001888	2	163595996	T	C	2920	-0.33	0.06	0.00	0.01	27.86
rs3116488	CD39+ secreting	ebi-a-GCST90001888	2	204586076	C	G	2920	0.23	0.03	0.00	0.02	73.54
rs115168681	CD39+ secreting	ebi-a-GCST90001888	2	92074020	T	A	2920	-2.01	0.45	0.00	0.01	20.05
rs10205835	CD39+ secreting	ebi-a-GCST90001888	2	181320278	A	G	2920	-0.12	0.03	0.00	0.01	19.93
rs142863502	CD39+ secreting	ebi-a-GCST90001888	3	78828398	G	T	2920	0.52	0.11	0.00	0.01	23.92
rs17462867	CD39+ secreting	ebi-a-GCST90001888	4	47665870	C	T	2920	0.45	0.10	0.00	0.01	19.67
rs2504703	CD39+ secreting	ebi-a-GCST90001888	6	51264082	G	A	2920	0.13	0.03	0.00	0.01	21.59
rs12778618	CD39+ secreting	ebi-a-GCST90001888	10	95633120	C	T	2920	0.42	0.06	0.00	0.01	42.35
rs112358299	CD39+ secreting	ebi-a-GCST90001888	10	95281076	A	G	2920	0.27	0.05	0.00	0.01	25.58
rs117458836	CD39+ secreting	ebi-a-GCST90001888	10	96773382	A	G	2920	0.55	0.10	0.00	0.01	28.81
rs10748649	CD39+ secreting	ebi-a-GCST90001888	10	97601703	C	A	2920	0.42	0.03	0.00	0.08	262.96
rs10882701	CD39+ secreting	ebi-a-GCST90001888	10	97741071	C	A	2920	-0.14	0.03	0.00	0.01	25.07
rs80340485	CD39+ secreting	ebi-a-GCST90001888	12	15096323	G	T	2920	-0.13	0.03	0.00	0.01	23.10
rs7301227	CD39+ secreting	ebi-a-GCST90001888	12	15687096	A	G	2920	-0.16	0.03	0.00	0.01	20.63
rs9530273	CD39+ secreting	ebi-a-GCST90001888	13	74651013	C	T	2920	0.14	0.03	0.00	0.01	23.03
rs11017	CD39+ secreting	ebi-a-GCST90001888	15	75137252	T	C	2920	0.99	0.22	0.00	0.01	20.36

rs2071382	CD28 on CD39+ secreting CD28 on	ebi-a-GCST90001888	15	91428197	C	T	2920	0.12	0.03	0.00	0.01	19.70
rs61754918	CD39+ secreting CD28 on	ebi-a-GCST90001888	16	89300425	T	C	2920	-0.27	0.06	0.00	0.01	22.63
rs72873666	CD39+ secreting CD28 on	ebi-a-GCST90001888	18	11480019	G	T	2920	-0.20	0.04	0.00	0.01	21.82
rs6998	CD39+ secreting CD28 on	ebi-a-GCST90001888	19	51363661	A	G	2920	0.16	0.03	0.00	0.01	20.62
rs71337061	CD39+ secreting CD28 on	ebi-a-GCST90001888	19	1907674	C	T	2920	0.17	0.04	0.00	0.01	19.90
rs901666	activated & secreting CD28 on	ebi-a-GCST90001889	1	245092832	A	G	2920	-0.23	0.05	0.00	0.01	20.24
rs62183989	activated & secreting CD28 on	ebi-a-GCST90001889	2	204609402	T	C	2920	-0.41	0.03	0.00	0.05	153.18
rs116479405	activated & secreting CD28 on	ebi-a-GCST90001889	2	49884156	A	G	2920	-0.49	0.10	0.00	0.01	23.40
rs145947216	activated & secreting CD28 on	ebi-a-GCST90001889	2	38596674	T	C	2920	0.33	0.07	0.00	0.01	20.80
rs4850102	activated & secreting CD28 on	ebi-a-GCST90001889	2	131733848	G	A	2920	-0.13	0.03	0.00	0.01	21.10
rs34460712	activated & secreting CD28 on	ebi-a-GCST90001889	2	38935236	A	G	2920	0.18	0.04	0.00	0.01	25.80
rs72923074	activated & secreting CD28 on	ebi-a-GCST90001889	2	203112661	T	A	2920	0.14	0.03	0.00	0.01	22.83
rs6766082	activated & secreting CD28 on	ebi-a-GCST90001889	3	14637898	T	G	2920	0.59	0.12	0.00	0.01	22.67
rs358085	activated & secreting CD28 on	ebi-a-GCST90001889	3	55114477	T	A	2920	0.23	0.05	0.00	0.01	24.60
rs188669656	activated & secreting CD28 on	ebi-a-GCST90001889	4	134181609	A	C	2920	-1.30	0.29	0.00	0.01	19.74
rs139007177	activated & secreting CD28 on	ebi-a-GCST90001889	4	83560688	A	G	2920	1.88	0.42	0.00	0.01	19.64
rs76308995	activated & secreting CD28 on	ebi-a-GCST90001889	5	125362860	A	C	2920	-0.48	0.10	0.00	0.01	24.43
rs11755527	activated & secreting CD28 on	ebi-a-GCST90001889	6	90958231	G	C	2920	0.15	0.03	0.00	0.01	30.99
rs6942910	activated & secreting CD28 on	ebi-a-GCST90001889	7	38590558	T	C	2920	-0.12	0.03	0.00	0.01	19.63
rs72639339	activated & secreting CD28 on	ebi-a-GCST90001889	8	37144660	A	G	2920	-0.25	0.05	0.00	0.01	22.10
rs142519862	activated & secreting CD28 on	ebi-a-GCST90001889	8	51447942	G	T	2920	-3.29	0.72	0.00	0.01	20.64
rs62542671	activated & secreting CD28 on	ebi-a-GCST90001889	9	27018375	A	C	2920	-0.19	0.04	0.00	0.01	22.22
rs77013534	activated & secreting CD28 on	ebi-a-GCST90001889	9	26484227	T	C	2920	-0.34	0.08	0.00	0.01	20.71
rs143888465	activated & secreting	ebi-a-GCST90001889	12	52010108	T	C	2920	-1.59	0.35	0.00	0.01	20.45

rs7304328	CD28 on activated & secreting CD28 on	ebi-a-GCST90001889	12	100887301	C	T	2920	-0.39	0.09	0.00	0.01	20.04
rs111860462	activated & secreting CD28 on	ebi-a-GCST90001889	14	82047636	T	C	2920	1.44	0.31	0.00	0.01	21.84
rs72764027	activated & secreting CD28 on	ebi-a-GCST90001889	15	96077835	A	G	2920	0.21	0.04	0.00	0.01	21.59
rs9806408	activated & secreting CD28 on	ebi-a-GCST90001889	15	101556948	T	G	2920	0.15	0.03	0.00	0.01	19.82
rs7226934	activated & secreting CD28 on	ebi-a-GCST90001889	18	76904665	C	T	2920	-0.27	0.06	0.00	0.01	19.59
rs35493791	activated & secreting CD28 on	ebi-a-GCST90001889	20	59912066	G	T	2920	0.12	0.03	0.00	0.01	19.74
rs2922755	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	2	225917580	T	G	2920	-0.13	0.03	0.00	0.01	22.45
rs115108917	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	2	173221757	G	C	2920	0.23	0.05	0.00	0.01	21.11
rs62184016	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	2	204623481	C	T	2920	-0.42	0.03	0.00	0.05	146.57
rs13091429	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	3	118956779	G	A	2920	0.20	0.04	0.00	0.01	21.49
rs4959028	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	6	32383138	G	A	2920	-0.18	0.04	0.00	0.01	24.38
rs4601112	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	6	32426271	C	T	2920	-0.17	0.04	0.00	0.01	21.77
rs72928038	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	6	90976768	A	G	2920	0.37	0.03	0.00	0.04	115.02
rs138868484	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	9	22226319	A	G	2920	-0.42	0.09	0.00	0.01	20.58
rs2804865	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	10	33808118	C	T	2920	0.85	0.16	0.00	0.01	28.29
rs112388922	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	12	106627038	A	G	2920	-0.14	0.03	0.00	0.01	21.31
rs7305693	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	12	16767167	T	G	2920	-0.13	0.03	0.00	0.01	22.41
rs140680300	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	14	40290794	A	T	2920	0.23	0.05	0.00	0.01	21.49
rs139057975	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	18	10278252	T	C	2920	0.38	0.08	0.00	0.01	21.30
rs118035444	CD45RA+ CD4+ CD28 on	ebi-a-GCST90001890	19	56365335	T	C	2920	0.24	0.05	0.00	0.01	20.45
rs62174625	CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	2	173772983	T	A	2920	-0.15	0.03	0.00	0.01	24.27
rs13390252	CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	2	204596729	G	A	2920	-0.48	0.03	0.00	0.07	204.85
rs59639671	CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	2	39003961	T	C	2920	0.20	0.04	0.00	0.01	29.96
rs72923074	CD45RA- CD4 not Treg	ebi-a-GCST90001891	2	203112661	T	A	2920	0.18	0.03	0.00	0.01	36.65

rs2889923	CD28 on CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	3	189596662	C	T	2920	-0.49	0.11	0.00	0.01	20.23
rs28591324	CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	4	29419166	A	G	2920	0.27	0.06	0.00	0.01	20.47
rs45553631	CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	6	90981657	T	C	2920	0.14	0.03	0.00	0.01	23.66
rs62542710	CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	9	27088757	G	A	2920	-0.18	0.04	0.00	0.01	22.39
rs7872397	CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	9	26516738	T	A	2920	-0.34	0.07	0.00	0.01	22.02
rs2154080	CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	10	130170037	T	C	2920	0.13	0.03	0.00	0.01	20.88
rs3133072	CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	11	134196629	C	T	2920	0.12	0.03	0.00	0.01	20.82
rs60249166	CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	13	32084901	T	C	2920	-0.16	0.03	0.00	0.01	21.35
rs9529740	CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	13	71009507	G	C	2920	-0.15	0.03	0.00	0.01	21.70
rs368620678	CD45RA- CD4 not Treg CD28 on	ebi-a-GCST90001891	14	105780514	A	G	2920	0.52	0.11	0.00	0.01	21.13
rs752641	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	1	156352013	C	T	2920	-0.54	0.11	0.00	0.01	23.94
rs147613017	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	1	17764133	A	G	2920	0.26	0.06	0.00	0.01	19.62
rs7426056	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	2	204612058	G	A	2920	0.30	0.03	0.00	0.04	115.68
rs13170880	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	5	81137543	T	A	2920	-0.56	0.13	0.00	0.01	19.67
rs78977206	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	5	125356459	A	G	2920	-0.45	0.10	0.00	0.01	20.12
rs72709963	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	8	121934830	T	C	2920	0.26	0.06	0.00	0.01	20.15
rs117458836	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	10	96773382	A	G	2920	0.69	0.10	0.00	0.01	44.25
rs79881476	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	10	86422393	T	C	2920	-0.77	0.17	0.00	0.01	21.35
rs10882701	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	10	97741071	C	A	2920	-0.16	0.03	0.00	0.01	33.51
rs7084635	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	10	97062753	G	A	2920	0.17	0.03	0.00	0.01	30.00
rs12778618	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	10	95633120	C	T	2920	0.52	0.07	0.00	0.02	62.11
rs1539433	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	10	97519645	T	C	2920	0.54	0.03	0.00	0.14	460.32
rs144419206	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	11	24126713	T	C	2920	-2.46	0.50	0.00	0.01	24.36
rs11227302	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	11	65554502	A	G	2920	0.16	0.03	0.00	0.01	20.35
rs143888465	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	12	52010108	T	C	2920	-1.60	0.36	0.00	0.01	19.73
rs7960927	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	12	100894131	T	A	2920	-0.40	0.09	0.00	0.01	20.18
rs11110796	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	12	101831141	A	T	2920	0.13	0.03	0.00	0.01	19.67
rs2427152	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	20	60089959	A	G	2920	0.13	0.03	0.00	0.01	22.85
rs34648998	CD39+ CD4+ CD28 on	ebi-a-GCST90001892	20	21432927	A	T	2920	0.23	0.05	0.00	0.01	22.03
rs11210252	CD28+ CD45RA- CD8hr	ebi-a-GCST90001893	1	73919673	A	G	2920	0.15	0.03	0.00	0.01	21.12

rs56216383	CD28 on CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	2	204631712	G	A	2920	-0.48	0.03	0.00	0.06	198.72
rs4674774	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	2	224128542	A	G	2920	0.12	0.03	0.00	0.01	21.31
rs2889923	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	3	189596662	C	T	2920	-0.49	0.11	0.00	0.01	20.21
rs116778614	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	3	834951	G	A	2920	-0.53	0.10	0.00	0.01	26.59
rs149008245	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	5	110580004	G	A	2920	-0.74	0.16	0.00	0.01	22.23
rs7725278	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	5	174760947	C	T	2920	-0.21	0.05	0.00	0.01	19.59
rs6459408	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	6	15582562	C	G	2920	-0.13	0.03	0.00	0.01	19.92
rs9353524	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	6	88837616	G	C	2920	0.13	0.03	0.00	0.01	19.89
rs17714754	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	6	17754961	T	C	2920	0.14	0.03	0.00	0.01	20.69
rs45553631	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	6	90981657	T	C	2920	0.14	0.03	0.00	0.01	25.86
rs610195	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	9	27098490	T	C	2920	-0.18	0.04	0.00	0.01	25.29
rs17056193	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	13	59815446	C	T	2920	0.18	0.04	0.00	0.01	21.41
rs4327031	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	15	101075569	T	C	2920	0.13	0.03	0.00	0.01	21.28
rs75520054	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	16	5568266	T	G	2920	1.00	0.22	0.00	0.01	20.61
rs117830609	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	17	71694056	C	T	2920	0.45	0.10	0.00	0.01	20.63
rs74859954	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	17	71726191	A	G	2920	0.20	0.04	0.00	0.01	22.57
rs1482537	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	18	65833632	A	T	2920	-0.42	0.09	0.00	0.01	21.02
rs149149608	CD28+ CD45RA- CD8br CD28 on	ebi-a-GCST90001893	19	14599430	A	G	2920	0.43	0.09	0.00	0.01	24.50
rs138089143	CD28+ CD4+	ebi-a-GCST90001894	1	32615715	C	G	2920	0.67	0.15	0.00	0.01	20.11

rs79296624	CD28 on CD28+ CD4+	ebi-a-GCST90001894	2	203870108	C	A	2920	-0.22	0.05	0.00	0.01	22.63
rs13023055	CD28 on CD28+ CD4+	ebi-a-GCST90001894	2	20856144	A	G	2920	-0.25	0.05	0.00	0.01	21.97
rs1973872	CD28 on CD28+ CD4+	ebi-a-GCST90001894	2	204631016	G	T	2920	0.39	0.03	0.00	0.06	192.04
rs360711	CD28 on CD28+ CD4+	ebi-a-GCST90001894	3	138691912	G	T	2920	-0.20	0.04	0.00	0.01	20.42
rs7685596	CD28 on CD28+ CD4+	ebi-a-GCST90001894	4	8533012	G	A	2920	0.13	0.03	0.00	0.01	19.89
rs115478283	CD28 on CD28+ CD4+	ebi-a-GCST90001894	4	13704839	G	A	2920	-0.27	0.06	0.00	0.01	22.19
rs116298583	CD28 on CD28+ CD4+	ebi-a-GCST90001894	4	24489778	T	A	2920	0.19	0.04	0.00	0.01	23.72
rs6836990	CD28 on CD28+ CD4+	ebi-a-GCST90001894	4	29416600	T	G	2920	0.29	0.06	0.00	0.01	23.76
rs77397796	CD28 on CD28+ CD4+	ebi-a-GCST90001894	5	5367152	T	C	2920	1.95	0.38	0.00	0.01	26.47
rs59159369	CD28 on CD28+ CD4+	ebi-a-GCST90001894	5	125344924	G	T	2920	-0.49	0.10	0.00	0.01	24.23
rs3128990	CD28 on CD28+ CD4+	ebi-a-GCST90001894	6	29878483	T	C	2920	-0.14	0.03	0.00	0.01	19.60
rs72928038	CD28 on CD28+ CD4+	ebi-a-GCST90001894	6	90976768	A	G	2920	0.25	0.03	0.00	0.02	54.65
rs6557390	CD28 on CD28+ CD4+	ebi-a-GCST90001894	6	155272013	G	A	2920	-0.15	0.03	0.00	0.01	21.61
rs62458220	CD28 on CD28+ CD4+	ebi-a-GCST90001894	7	43252572	C	T	2920	-0.84	0.18	0.00	0.01	21.59
rs55637775	CD28 on CD28+ CD4+	ebi-a-GCST90001894	8	72575417	A	G	2920	0.18	0.04	0.00	0.01	24.51
rs111970139	CD28 on CD28+ CD4+	ebi-a-GCST90001894	8	137644190	G	A	2920	-0.34	0.08	0.00	0.01	19.73
rs62542710	CD28 on CD28+ CD4+	ebi-a-GCST90001894	9	27088757	G	A	2920	-0.17	0.04	0.00	0.01	19.57
rs142599237	CD28 on CD28+ CD4+	ebi-a-GCST90001894	10	114914004	T	C	2920	-2.33	0.52	0.00	0.01	20.07
rs17640797	CD28 on CD28+ CD4+	ebi-a-GCST90001894	11	56654147	A	G	2920	-0.40	0.09	0.00	0.01	19.81
rs3133072	CD28 on CD28+ CD4+	ebi-a-GCST90001894	11	134196629	C	T	2920	0.12	0.03	0.00	0.01	20.33
rs11060804	CD28 on CD28+ CD4+	ebi-a-GCST90001894	12	130767902	A	G	2920	-0.28	0.06	0.00	0.01	19.72
rs117505260	CD28 on CD28+ CD4+	ebi-a-GCST90001894	13	113724248	T	G	2920	0.27	0.06	0.00	0.01	20.94
rs9516901	CD28 on CD28+ CD4+	ebi-a-GCST90001894	13	97958649	C	T	2920	0.34	0.07	0.00	0.01	21.41
rs1123285	CD28 on CD28+ CD4+	ebi-a-GCST90001894	14	57274519	G	C	2920	0.14	0.03	0.00	0.01	19.92
rs16954045	CD28 on CD28+ CD4+	ebi-a-GCST90001894	15	70299168	T	C	2920	-0.21	0.04	0.00	0.01	25.10
rs998490	CD28 on CD28+ CD4+	ebi-a-GCST90001894	21	16860484	T	G	2920	0.30	0.07	0.00	0.01	20.63
rs5751902	CD28 on CD28+ CD4+	ebi-a-GCST90001894	22	24996630	T	C	2920	0.14	0.03	0.00	0.01	24.21
rs873041	CD28+ DN (CD4-CD8-) CD28 on	ebi-a-GCST90001895	1	29718378	T	C	2919	0.24	0.05	0.00	0.01	26.16
rs79457820	CD28+ DN (CD4-CD8-) CD28 on	ebi-a-GCST90001895	1	178098674	A	G	2919	-0.19	0.04	0.00	0.01	22.38
rs2992756	CD28+ DN (CD4-CD8-) CD28 on	ebi-a-GCST90001895	1	18807339	C	T	2919	-0.13	0.03	0.00	0.01	20.50
rs75321567	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	1	231523742	T	C	2920	0.88	0.20	0.00	0.01	19.96
rs3845728	CD28+ CD45RA+ CD8br	ebi-a-GCST90001896	2	169704333	A	T	2920	2.08	0.44	0.00	0.01	22.43

rs788008	CD28 on CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	2	198232639	T	C	2920	-0.15	0.03	0.00	0.01	22.93
rs112581826	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	2	204650296	A	G	2920	-0.24	0.04	0.00	0.01	32.93
rs78307830	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	2	204596768	C	G	2920	0.48	0.06	0.00	0.02	61.64
rs74321916	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	3	148125567	T	A	2920	0.31	0.07	0.00	0.01	20.74
rs13147958	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	4	187705839	A	G	2920	-0.19	0.04	0.00	0.01	20.21
rs10447212	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	5	155756837	T	C	2920	0.14	0.03	0.00	0.01	20.61
rs72820300	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	6	9342441	C	T	2920	0.34	0.07	0.00	0.01	23.54
rs2734904	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	6	29909840	A	G	2920	0.15	0.03	0.00	0.01	24.53
rs72928038	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	6	90976768	A	G	2920	0.59	0.03	0.00	0.10	314.94
rs17521485	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	6	91423027	C	A	2920	0.20	0.04	0.00	0.01	23.11
rs4747821	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	10	9270831	C	T	2920	-0.24	0.05	0.00	0.01	22.67
rs79921170	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	15	68612190	A	C	2920	0.34	0.08	0.00	0.01	19.80
rs11074594	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	16	23973371	A	G	2920	-0.13	0.03	0.00	0.01	21.49
rs28421958	CD28+ CD45RA+ CD8br CD28 on	ebi-a-GCST90001896	19	8097404	T	C	2920	0.34	0.07	0.00	0.01	20.83
rs3116493	CD39+ CD28 on	ebi-a-GCST90001897	2	204589281	T	G	2914	0.20	0.03	0.00	0.02	51.82
rs77594357	CD39+ CD28 on	ebi-a-GCST90001897	2	204328474	A	T	2914	-0.14	0.03	0.00	0.01	22.38
rs17490604	CD39+ CD28 on	ebi-a-GCST90001897	4	11450961	C	T	2914	-0.14	0.03	0.00	0.01	20.26
rs187222855	CD39+ CD28 on	ebi-a-GCST90001897	5	71850168	A	G	2914	0.80	0.18	0.00	0.01	19.66
rs77213229	CD39+ CD28 on	ebi-a-GCST90001897	7	139869032	C	T	2914	-0.65	0.13	0.00	0.01	26.57
rs10237725	CD39+ CD28 on	ebi-a-GCST90001897	7	30558616	T	C	2914	0.13	0.03	0.00	0.01	21.97
rs79635002	CD39+ CD28 on	ebi-a-GCST90001897	9	9466703	G	A	2914	0.46	0.09	0.00	0.01	24.94
rs62533434	CD39+ CD28 on	ebi-a-GCST90001897	9	25711618	G	T	2914	0.67	0.15	0.00	0.01	20.83
rs116972489	CD39+ CD28 on	ebi-a-GCST90001897	10	69651954	T	C	2914	-0.95	0.21	0.00	0.01	20.49

rs139513469	CD28 on CD39+	ebi-a-GCST90001897	10	66332109	A	G	2914	-3.55	0.78	0.00	0.01	20.57
rs7088961	CD28 on CD39+	ebi-a-GCST90001897	10	97608114	G	C	2914	0.23	0.03	0.00	0.03	77.57
rs10847448	CD28 on CD39+	ebi-a-GCST90001897	12	128258849	C	G	2914	-0.13	0.03	0.00	0.01	20.93
rs143273680	CD28 on CD39+	ebi-a-GCST90001897	12	14071670	G	A	2914	0.49	0.10	0.00	0.01	23.94
rs902972	CD28 on CD39+	ebi-a-GCST90001897	12	62608096	T	C	2914	-0.29	0.06	0.00	0.01	21.14
rs7177745	CD28 on CD39+	ebi-a-GCST90001897	15	78148518	A	C	2914	-0.14	0.03	0.00	0.01	22.45
rs11070382	CD28 on CD39+	ebi-a-GCST90001897	15	43151911	C	A	2914	-0.24	0.05	0.00	0.01	19.65
rs151077900	CD28 on CD39+	ebi-a-GCST90001897	16	1037963	C	G	2914	-2.71	0.59	0.00	0.01	20.93
rs75380201	CD28 on CD39+	ebi-a-GCST90001897	18	39778311	T	C	2914	-1.67	0.28	0.00	0.01	35.41
rs148345105	CD28 on CD39+	ebi-a-GCST90001897	18	14441608	C	T	2914	0.44	0.10	0.00	0.01	20.18
rs72871333	CD28 on CD39+	ebi-a-GCST90001897	18	4638106	T	C	2914	0.14	0.03	0.00	0.01	21.19
rs2028827	CD28 on CD39+	ebi-a-GCST90001897	19	4024020	A	G	2914	-0.25	0.05	0.00	0.01	21.13
rs624763	CD28 on CD39+	ebi-a-GCST90001897	21	40902905	T	C	2914	-0.13	0.03	0.00	0.01	20.14
rs35771002	CD28 on CD4+	ebi-a-GCST90001898	1	117276978	G	C	2920	0.14	0.03	0.00	0.01	21.72
rs138089143	CD28 on CD4+	ebi-a-GCST90001898	1	32615715	C	G	2920	0.69	0.15	0.00	0.01	21.64
rs1973872	CD28 on CD4+	ebi-a-GCST90001898	2	204631016	G	T	2920	0.37	0.03	0.00	0.06	171.94
rs7423567	CD28 on CD4+	ebi-a-GCST90001898	2	204378226	T	C	2920	-0.15	0.03	0.00	0.01	23.61
rs4541428	CD28 on CD4+	ebi-a-GCST90001898	3	20399142	A	G	2920	-0.13	0.03	0.00	0.01	19.62
rs16823817	CD28 on CD4+	ebi-a-GCST90001898	3	115239407	A	C	2920	-0.16	0.04	0.00	0.01	20.25
rs141494298	CD28 on CD4+	ebi-a-GCST90001898	3	190052936	A	G	2920	1.11	0.23	0.00	0.01	22.61
rs62273311	CD28 on CD4+	ebi-a-GCST90001898	3	167771624	C	T	2920	0.15	0.03	0.00	0.01	19.76
rs28572519	CD28 on CD4+	ebi-a-GCST90001898	4	10975237	T	C	2920	0.16	0.03	0.00	0.01	21.04
rs115478283	CD28 on CD4+	ebi-a-GCST90001898	4	13704839	G	A	2920	-0.27	0.06	0.00	0.01	21.00
rs28591324	CD28 on CD4+	ebi-a-GCST90001898	4	29419166	A	G	2920	0.31	0.06	0.00	0.01	27.52
rs7656433	CD28 on CD4+	ebi-a-GCST90001898	4	155510224	T	A	2920	-0.48	0.10	0.00	0.01	22.44
rs59159369	CD28 on CD4+	ebi-a-GCST90001898	5	125344924	G	T	2920	-0.45	0.10	0.00	0.01	20.41
rs77397796	CD28 on CD4+	ebi-a-GCST90001898	5	5367152	T	C	2920	1.86	0.38	0.00	0.01	23.95
rs72928038	CD28 on CD4+	ebi-a-GCST90001898	6	90976768	A	G	2920	0.23	0.03	0.00	0.02	46.88
rs62458220	CD28 on CD4+	ebi-a-GCST90001898	7	43252572	C	T	2920	-0.89	0.18	0.00	0.01	24.11
rs2977738	CD28 on CD4+	ebi-a-GCST90001898	8	72600833	T	C	2920	-0.13	0.03	0.00	0.01	21.72
rs62647604	CD28 on CD4+	ebi-a-GCST90001898	11	25673248	A	C	2920	0.23	0.05	0.00	0.01	20.18
rs3133072	CD28 on CD4+	ebi-a-GCST90001898	11	134196629	C	T	2920	0.13	0.03	0.00	0.01	21.76
rs17640797	CD28 on CD4+	ebi-a-GCST90001898	11	56654147	A	G	2920	-0.40	0.09	0.00	0.01	19.84
rs10848070	CD28 on CD4+	ebi-a-GCST90001898	12	130784674	C	G	2920	-0.28	0.06	0.00	0.01	20.83
rs78883235	CD28 on CD4+	ebi-a-GCST90001898	13	39737161	T	C	2920	0.92	0.20	0.00	0.01	20.40
rs9516901	CD28 on CD4+	ebi-a-GCST90001898	13	97958649	C	T	2920	0.37	0.07	0.00	0.01	25.29
rs4779516	CD28 on CD4+	ebi-a-GCST90001898	15	31625040	C	T	2920	-0.13	0.03	0.00	0.01	21.37

rs56764046	CD28 on CD4+	ebi-a-GCST90001898	15	96648129	T	C	2920	0.14	0.03	0.00	0.01	20.74
rs16954045	CD28 on CD4+	ebi-a-GCST90001898	15	70299168	T	C	2920	-0.19	0.04	0.00	0.01	21.52
rs998490	CD28 on CD4+	ebi-a-GCST90001898	21	16860484	T	G	2920	0.34	0.07	0.00	0.01	25.48
rs5751902	CD28 on CD4+	ebi-a-GCST90001898	22	24996630	T	C	2920	0.14	0.03	0.00	0.01	22.83
rs901666	CD28 on CD4 Treg	ebi-a-GCST90001899	1	245092832	A	G	2920	-0.22	0.05	0.00	0.01	19.67
rs7552165	CD28 on CD4 Treg	ebi-a-GCST90001899	1	16461336	T	C	2920	-1.45	0.33	0.00	0.01	19.57
rs72887430	CD28 on CD4 Treg	ebi-a-GCST90001899	2	46601171	T	C	2920	-0.29	0.06	0.00	0.01	22.41
rs56209416	CD28 on CD4 Treg	ebi-a-GCST90001899	2	204627500	C	T	2920	-0.35	0.03	0.00	0.04	120.37
rs13017710	CD28 on CD4 Treg	ebi-a-GCST90001899	2	131710625	A	T	2920	-0.13	0.03	0.00	0.01	24.76
rs6722943	CD28 on CD4 Treg	ebi-a-GCST90001899	2	121025601	T	C	2920	-0.15	0.03	0.00	0.01	19.96
rs12152264	CD28 on CD4 Treg	ebi-a-GCST90001899	3	54889054	T	G	2920	0.18	0.04	0.00	0.01	21.67
rs6840739	CD28 on CD4 Treg	ebi-a-GCST90001899	4	55359146	G	A	2920	0.14	0.03	0.00	0.01	24.53
rs77455008	CD28 on CD4 Treg	ebi-a-GCST90001899	5	66383812	C	A	2920	0.53	0.12	0.00	0.01	20.69
rs11755527	CD28 on CD4 Treg	ebi-a-GCST90001899	6	90958231	G	C	2920	0.16	0.03	0.00	0.01	37.63
rs79907437	CD28 on CD4 Treg	ebi-a-GCST90001899	7	42401568	C	A	2920	-2.81	0.62	0.00	0.01	20.31
rs547142523	CD28 on CD4 Treg	ebi-a-GCST90001899	7	106446376	C	T	2920	-0.54	0.12	0.00	0.01	19.88
rs11990425	CD28 on CD4 Treg	ebi-a-GCST90001899	8	21557285	T	C	2920	-0.13	0.03	0.00	0.01	23.20
rs145288523	CD28 on CD4 Treg	ebi-a-GCST90001899	9	21854434	T	A	2920	-2.14	0.46	0.00	0.01	21.59
rs142599237	CD28 on CD4 Treg	ebi-a-GCST90001899	10	114914004	T	C	2920	-2.18	0.49	0.00	0.01	19.67
rs11246934	CD28 on CD4 Treg	ebi-a-GCST90001899	12	132036029	A	G	2920	-0.31	0.06	0.00	0.01	22.79
rs143888465	CD28 on CD4 Treg	ebi-a-GCST90001899	12	52010108	T	C	2920	-1.51	0.34	0.00	0.01	19.58
rs9603530	CD28 on CD4 Treg	ebi-a-GCST90001899	13	39958972	G	A	2920	-0.18	0.04	0.00	0.01	24.66
rs189158196	CD28 on CD4 Treg	ebi-a-GCST90001899	14	43725613	G	T	2920	-0.32	0.07	0.00	0.01	20.18
rs111860462	CD28 on CD4 Treg	ebi-a-GCST90001899	14	82047636	T	C	2920	1.35	0.30	0.00	0.01	20.23
rs758407	CD28 on CD4 Treg	ebi-a-GCST90001899	17	32944070	G	A	2920	0.12	0.03	0.00	0.01	22.26
rs8066746	CD28 on CD4 Treg	ebi-a-GCST90001899	17	4151820	C	T	2920	0.35	0.07	0.00	0.01	22.87
rs117868196	CD28 on CD4 Treg	ebi-a-GCST90001899	17	3576181	T	C	2920	0.56	0.12	0.00	0.01	20.09
rs6142835	CD28 on CD4 Treg	ebi-a-GCST90001899	20	59979495	A	G	2920	-0.12	0.03	0.00	0.01	20.15
rs78859673	CD28 on CD4 Treg	ebi-a-GCST90001899	21	16844033	C	T	2920	0.30	0.06	0.00	0.01	21.87
rs62184016	CD28 on resting Treg	ebi-a-GCST90001900	2	204623481	C	T	2919	-0.52	0.03	0.00	0.08	238.73
rs112900587	CD28 on resting Treg	ebi-a-GCST90001900	2	195082880	A	G	2919	-0.25	0.05	0.00	0.01	22.42
rs138480662	CD28 on resting Treg	ebi-a-GCST90001900	2	205918886	C	G	2919	-0.61	0.13	0.00	0.01	21.30
rs72923091	CD28 on resting Treg	ebi-a-GCST90001900	2	203143683	A	G	2919	0.14	0.03	0.00	0.01	23.69
rs79223025	CD28 on resting Treg	ebi-a-GCST90001900	3	147829547	G	A	2919	0.19	0.04	0.00	0.01	21.81
rs7665484	CD28 on resting Treg	ebi-a-GCST90001900	4	167499125	T	C	2919	0.13	0.03	0.00	0.01	21.16
rs141247369	CD39+ resting Treg	ebi-a-GCST90001901	1	3272937	A	G	2650	1.08	0.22	0.00	0.01	24.23

rs114565907	CD28 on CD39+ resting Treg CD28 on	ebi-a-GCST90001901	1	177284570	T	G	2650	0.77	0.16	0.00	0.01	22.98
rs12068559	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	1	6127983	C	T	2650	-0.16	0.03	0.00	0.01	21.33
rs115841111	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	1	242105339	G	A	2650	-4.23	0.95	0.00	0.01	19.90
rs13404978	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	2	204653886	T	C	2650	-0.18	0.03	0.00	0.01	27.28
rs12614511	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	2	39471924	G	A	2650	-0.12	0.03	0.00	0.01	19.79
rs114550156	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	4	129186460	T	C	2650	-2.60	0.57	0.00	0.01	20.40
rs78365755	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	6	13328984	C	G	2650	0.47	0.10	0.00	0.01	21.12
rs4707609	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	6	90946479	C	T	2650	0.16	0.03	0.00	0.01	35.14
rs623219	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	6	137512886	T	C	2650	-1.53	0.33	0.00	0.01	21.95
rs7846567	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	8	143612149	A	C	2650	0.13	0.03	0.00	0.01	21.66
rs117957417	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	10	96597621	A	G	2650	0.40	0.09	0.00	0.01	22.42
rs284615	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	10	61151603	G	A	2650	0.14	0.03	0.00	0.01	20.58
rs118122984	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	10	122084798	G	A	2650	-2.67	0.57	0.00	0.01	22.12
rs117653391	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	10	97551952	A	G	2650	0.45	0.07	0.00	0.02	46.87
rs138199636	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	11	37444749	T	C	2650	1.15	0.24	0.00	0.01	23.33
rs17107510	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	12	70389055	T	C	2650	-0.22	0.04	0.00	0.01	24.85
rs182187758	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	13	80391747	G	C	2650	0.99	0.19	0.00	0.01	27.62
rs447600	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	14	48325261	A	T	2650	0.12	0.03	0.00	0.01	19.70
rs114579738	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	15	87662869	T	G	2650	-0.30	0.06	0.00	0.01	28.69
rs117389073	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	16	634475	T	C	2650	0.35	0.08	0.00	0.01	20.20
rs28921682	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	17	11968129	A	G	2650	0.27	0.06	0.00	0.01	23.41
rs6008485	CD39+ resting Treg CD28 on	ebi-a-GCST90001901	22	48371416	G	A	2650	-0.24	0.05	0.00	0.01	23.22
rs9288325	activated Treg CD28 on	ebi-a-GCST90001902	2	202946868	C	T	2920	0.12	0.03	0.00	0.01	21.09
rs62183989	activated Treg	ebi-a-GCST90001902	2	204609402	T	C	2920	-0.36	0.03	0.00	0.04	121.27

rs12713441	CD28 on activated Treg	ebi-a-GCST90001902	2	21590196	T	A	2920	-0.12	0.03	0.00	0.01	20.34
rs55930426	CD28 on activated Treg	ebi-a-GCST90001902	2	46222978	G	C	2920	0.15	0.03	0.00	0.01	20.88
rs145947216	CD28 on activated Treg	ebi-a-GCST90001902	2	38596674	T	C	2920	0.32	0.07	0.00	0.01	20.52
rs72968907	CD28 on activated Treg	ebi-a-GCST90001902	3	123701658	A	G	2920	-0.58	0.12	0.00	0.01	21.83
rs468118	CD28 on activated Treg	ebi-a-GCST90001902	3	55110241	C	T	2920	0.23	0.05	0.00	0.01	24.13
rs830643	CD28 on activated Treg	ebi-a-GCST90001902	3	71667063	A	G	2920	-0.13	0.03	0.00	0.01	23.20
rs6840739	CD28 on activated Treg	ebi-a-GCST90001902	4	55359146	G	A	2920	0.12	0.03	0.00	0.01	19.71
rs76308995	CD28 on activated Treg	ebi-a-GCST90001902	5	125362860	A	C	2920	-0.43	0.09	0.00	0.01	20.80
rs11755527	CD28 on activated Treg	ebi-a-GCST90001902	6	90958231	G	C	2920	0.14	0.03	0.00	0.01	27.00
rs6942910	CD28 on activated Treg	ebi-a-GCST90001902	7	38590558	T	C	2920	-0.12	0.03	0.00	0.01	20.52
rs72639339	CD28 on activated Treg	ebi-a-GCST90001902	8	37144660	A	G	2920	-0.26	0.05	0.00	0.01	23.98
rs4877468	CD28 on activated Treg	ebi-a-GCST90001902	9	91258912	T	C	2920	0.12	0.03	0.00	0.01	19.61
rs143888465	CD28 on activated Treg	ebi-a-GCST90001902	12	52010108	T	C	2920	-1.54	0.35	0.00	0.01	19.92
rs7304328	CD28 on activated Treg	ebi-a-GCST90001902	12	100887301	C	T	2920	-0.39	0.09	0.00	0.01	21.03
rs111860462	CD28 on activated Treg	ebi-a-GCST90001902	14	82047636	T	C	2920	1.58	0.30	0.00	0.01	26.82
rs7143529	CD28 on activated Treg	ebi-a-GCST90001902	14	92878020	G	A	2920	0.14	0.03	0.00	0.01	20.93
rs72764027	CD28 on activated Treg	ebi-a-GCST90001902	15	96077835	A	G	2920	0.20	0.04	0.00	0.01	21.95
rs137875117	CD28 on activated Treg	ebi-a-GCST90001902	16	25627987	A	T	2920	-0.80	0.18	0.00	0.01	19.62
rs71632979	CD86 on myeloid DC	ebi-a-GCST90001903	1	161526397	G	A	2871	0.52	0.03	0.00	0.09	280.75
rs71639910	CD86 on myeloid DC	ebi-a-GCST90001903	1	161937774	A	G	2871	0.28	0.06	0.00	0.01	25.02
rs115805162	CD86 on myeloid DC	ebi-a-GCST90001903	1	161410253	T	C	2871	-0.17	0.04	0.00	0.01	22.26
rs11240608	CD86 on myeloid DC	ebi-a-GCST90001903	1	203575887	C	T	2871	0.31	0.07	0.00	0.01	20.40
rs6434686	CD86 on myeloid DC	ebi-a-GCST90001903	2	154380301	C	T	2871	0.18	0.04	0.00	0.01	20.74
rs7591875	CD86 on myeloid DC	ebi-a-GCST90001903	2	118023763	G	A	2871	-0.16	0.03	0.00	0.01	22.54
rs76114682	CD86 on myeloid DC	ebi-a-GCST90001903	2	234940795	T	G	2871	-0.16	0.03	0.00	0.01	21.88
rs59167197	CD86 on myeloid DC	ebi-a-GCST90001903	3	181521530	G	C	2871	0.14	0.03	0.00	0.01	22.22
rs2029226	CD86 on myeloid DC	ebi-a-GCST90001903	4	111255086	G	A	2871	-0.13	0.03	0.00	0.01	20.86
rs138596085	CD86 on myeloid DC	ebi-a-GCST90001903	4	22730743	T	C	2871	1.52	0.32	0.00	0.01	22.36

rs72822776	CD86 on myeloid DC	ebi-a-GCST90001903	5	174078104	A	T	2871	0.26	0.06	0.00	0.01	19.87
rs13232168	CD86 on myeloid DC	ebi-a-GCST90001903	7	155165806	A	C	2871	-0.13	0.03	0.00	0.01	19.90
rs79989067	CD86 on myeloid DC	ebi-a-GCST90001903	9	85770092	T	G	2871	0.64	0.13	0.00	0.01	22.51
rs1411982	CD86 on myeloid DC	ebi-a-GCST90001903	9	89242001	T	G	2871	0.13	0.03	0.00	0.01	20.22
rs4750846	CD86 on myeloid DC	ebi-a-GCST90001903	10	132853310	T	A	2871	0.13	0.03	0.00	0.01	21.57
rs11611231	CD86 on myeloid DC	ebi-a-GCST90001903	12	974326	C	G	2871	-0.28	0.06	0.00	0.01	21.99
rs143271161	CD86 on myeloid DC	ebi-a-GCST90001903	15	35493491	G	A	2871	-0.41	0.09	0.00	0.01	22.66
rs7194233	CD86 on myeloid DC	ebi-a-GCST90001903	16	64116331	C	T	2871	0.44	0.09	0.00	0.01	22.93
rs56372685	CD86 on myeloid DC	ebi-a-GCST90001903	19	18091720	G	A	2871	-0.41	0.09	0.00	0.01	22.11
rs186130451	CD86 on myeloid DC	ebi-a-GCST90001903	20	3457280	T	C	2871	0.58	0.13	0.00	0.01	20.99
rs6034780	CD86 on myeloid DC	ebi-a-GCST90001903	20	17231638	A	G	2871	-0.13	0.03	0.00	0.01	20.69
rs78643996	CD86 on myeloid DC	ebi-a-GCST90001903	20	55639856	A	G	2871	-0.51	0.11	0.00	0.01	20.26
rs8127024	CD86 on myeloid DC	ebi-a-GCST90001903	21	38835288	G	A	2871	0.14	0.03	0.00	0.01	19.77
rs12076726	CD62L+ mveloid DC	ebi-a-GCST90001904	1	38545541	T	C	2871	0.29	0.07	0.00	0.01	20.05
rs151105922	CD62L+ mveloid DC	ebi-a-GCST90001904	2	225124699	T	G	2871	-0.38	0.09	0.00	0.01	19.59
rs143092602	CD62L+ mveloid DC	ebi-a-GCST90001904	2	177306191	A	T	2871	-0.79	0.17	0.00	0.01	20.74
rs112932872	CD62L+ mveloid DC	ebi-a-GCST90001904	2	41526880	C	T	2871	1.02	0.22	0.00	0.01	20.91
rs9848900	CD62L+ mveloid DC	ebi-a-GCST90001904	3	121831497	A	G	2871	-0.18	0.04	0.00	0.01	26.89
rs9834116	CD62L+ mveloid DC	ebi-a-GCST90001904	3	186214151	C	A	2871	-0.12	0.03	0.00	0.01	19.66
rs6830352	CD62L+ mveloid DC	ebi-a-GCST90001904	4	30425631	A	T	2871	-0.26	0.06	0.00	0.01	19.72
rs76831090	CD62L+ mveloid DC	ebi-a-GCST90001904	4	165317503	A	C	2871	0.50	0.11	0.00	0.01	20.45
rs116499957	CD62L+ mveloid DC	ebi-a-GCST90001904	4	23334338	T	C	2871	-0.51	0.11	0.00	0.01	21.23
rs112834744	CD62L+ mveloid DC	ebi-a-GCST90001904	4	166364132	T	C	2871	0.77	0.15	0.00	0.01	27.63
rs116105787	CD62L+ mveloid DC	ebi-a-GCST90001904	4	167699242	T	A	2871	1.12	0.20	0.00	0.01	31.53
rs139387290	CD62L+ mveloid DC	ebi-a-GCST90001904	7	145251741	A	C	2871	-0.54	0.12	0.00	0.01	21.55
rs62469564	CD62L+ mveloid DC	ebi-a-GCST90001904	7	95016032	T	C	2871	0.81	0.17	0.00	0.01	23.21
rs72771961	CD62L+ mveloid DC	ebi-a-GCST90001904	9	138859840	A	G	2871	-0.23	0.05	0.00	0.01	23.22
rs759125	CD62L+ mveloid DC	ebi-a-GCST90001904	9	123041996	G	A	2871	0.26	0.05	0.00	0.01	29.44
rs2105590	CD62L+ mveloid DC	ebi-a-GCST90001904	11	117925668	A	G	2871	-0.15	0.03	0.00	0.01	21.48

rs7307939	CD86 on CD62L+ mveloid DC	ebi-a-GCST90001904	12	131440935	C	T	2871	-0.12	0.03	0.00	0.01	19.73
rs2737282	CD86 on CD62L+ mveloid DC	ebi-a-GCST90001904	16	78904218	G	A	2871	-0.12	0.03	0.00	0.01	19.64
rs56286676	CD86 on CD62L+ mveloid DC	ebi-a-GCST90001904	17	49364140	C	G	2871	-0.53	0.12	0.00	0.01	19.70
rs55989590	CD86 on CD62L+ mveloid DC	ebi-a-GCST90001904	18	52521534	A	G	2871	-0.20	0.04	0.00	0.01	24.30
rs112891649	CD86 on CD62L+ mveloid DC	ebi-a-GCST90001904	19	23466054	A	G	2871	0.29	0.05	0.00	0.01	29.33
rs2835746	CD86 on CD62L+ mveloid DC	ebi-a-GCST90001904	21	38815830	G	A	2871	0.14	0.03	0.00	0.01	19.61
rs76607076	CD86 on CD62L+ mveloid DC	ebi-a-GCST90001904	22	25087059	T	G	2871	-0.18	0.04	0.00	0.01	20.51
rs150649461	CD86 on monocyte	ebi-a-GCST90001905	1	92925654	C	G	2850	-0.45	0.07	0.00	0.01	39.38
rs72663570	CD86 on monocyte	ebi-a-GCST90001905	1	40095534	T	C	2850	0.16	0.04	0.00	0.01	19.66
rs7565243	CD86 on monocyte	ebi-a-GCST90001905	2	15261044	G	A	2850	-0.14	0.03	0.00	0.01	21.59
rs10169719	CD86 on monocyte	ebi-a-GCST90001905	2	124939359	T	C	2850	0.60	0.13	0.00	0.01	20.53
rs61300354	CD86 on monocyte	ebi-a-GCST90001905	3	132156322	A	G	2850	0.44	0.10	0.00	0.01	19.64
rs116524758	CD86 on monocyte	ebi-a-GCST90001905	3	118271900	T	C	2850	-0.91	0.20	0.00	0.01	20.28
rs6438880	CD86 on monocyte	ebi-a-GCST90001905	3	124834289	T	C	2850	1.16	0.26	0.00	0.01	19.89
rs143443965	CD86 on monocyte	ebi-a-GCST90001905	8	142893697	T	C	2850	0.37	0.08	0.00	0.01	21.56
rs6559641	CD86 on monocyte	ebi-a-GCST90001905	9	84351351	A	C	2850	0.56	0.11	0.00	0.01	24.46
rs56283543	CD86 on monocyte	ebi-a-GCST90001905	9	89798284	G	A	2850	0.22	0.04	0.00	0.01	25.21
rs7857137	CD86 on monocyte	ebi-a-GCST90001905	9	72328727	G	A	2850	-0.13	0.03	0.00	0.01	20.42
rs117561616	CD86 on monocyte	ebi-a-GCST90001905	10	45720975	C	T	2850	0.87	0.19	0.00	0.01	20.15
rs150328798	CD86 on monocyte	ebi-a-GCST90001905	11	123151235	C	T	2850	0.54	0.12	0.00	0.01	21.11
rs74907279	CD86 on monocyte	ebi-a-GCST90001905	12	24562705	T	C	2850	1.48	0.30	0.00	0.01	23.43
rs73592377	CD86 on monocyte	ebi-a-GCST90001905	12	658993	T	C	2850	-0.22	0.05	0.00	0.01	20.48
rs12974366	CD86 on monocyte	ebi-a-GCST90001905	19	46380610	A	G	2850	0.14	0.03	0.00	0.01	20.66
rs138552617	CD86 on monocyte	ebi-a-GCST90001905	19	47321626	T	C	2850	-0.22	0.05	0.00	0.01	22.30
rs138095875	CD86 on granulocyte	ebi-a-GCST90001906	3	98484408	T	A	2848	-0.75	0.15	0.00	0.01	26.39
rs7663443	CD86 on granulocyte	ebi-a-GCST90001906	4	15308694	C	T	2848	-0.77	0.17	0.00	0.01	20.84
rs187015	CD86 on granulocyte	ebi-a-GCST90001906	4	60840845	A	G	2848	0.14	0.03	0.00	0.01	19.84
rs74336201	CD86 on granulocyte	ebi-a-GCST90001906	6	83240504	A	G	2848	-0.74	0.16	0.00	0.01	21.15
rs915125	CD86 on granulocyte	ebi-a-GCST90001906	6	82463376	T	C	2848	0.14	0.03	0.00	0.01	23.91
rs445	CD86 on granulocyte	ebi-a-GCST90001906	7	92408370	T	C	2848	0.21	0.03	0.00	0.01	36.08
rs7002813	CD86 on granulocyte	ebi-a-GCST90001906	8	6903815	G	T	2848	-0.15	0.03	0.00	0.01	29.18
rs12675298	CD86 on granulocyte	ebi-a-GCST90001906	8	6828813	A	G	2848	-0.53	0.09	0.00	0.01	38.18
rs62493338	CD86 on granulocyte	ebi-a-GCST90001906	8	14775908	T	G	2848	-0.23	0.05	0.00	0.01	20.78

rs62546664	CD86 on granulocyte	ebi-a-GCST90001906	9	26584433	T	C	2848	-0.21	0.05	0.00	0.01	21.00
rs117974128	CD86 on granulocyte	ebi-a-GCST90001906	11	100371319	T	C	2848	-0.23	0.05	0.00	0.01	20.98
rs17473967	CD86 on granulocyte	ebi-a-GCST90001906	12	23886853	A	G	2848	0.32	0.07	0.00	0.01	21.29
rs17613315	CD86 on granulocyte	ebi-a-GCST90001906	13	59609619	G	A	2848	-0.28	0.06	0.00	0.01	20.09
rs147621180	CD86 on granulocyte	ebi-a-GCST90001906	16	4475064	T	C	2848	-1.41	0.32	0.00	0.01	19.67
rs139095969	CD86 on granulocyte	ebi-a-GCST90001906	17	55921141	T	C	2848	-0.62	0.14	0.00	0.01	20.36
rs886929	CD86 on granulocyte	ebi-a-GCST90001906	17	55800643	A	G	2848	-0.13	0.03	0.00	0.01	19.58
rs11653491	CD86 on granulocyte	ebi-a-GCST90001906	17	67953507	G	A	2848	0.16	0.03	0.00	0.01	27.73
rs114119279	CD86 on granulocyte	ebi-a-GCST90001906	18	52230593	T	G	2848	-0.57	0.13	0.00	0.01	20.54
rs62109982	CD86 on granulocyte	ebi-a-GCST90001906	19	28207523	T	C	2848	-0.38	0.09	0.00	0.01	19.74
rs6123226	CD86 on granulocyte	ebi-a-GCST90001906	20	51523530	A	G	2848	0.17	0.04	0.00	0.01	21.87
rs951076	CD86 on granulocyte	ebi-a-GCST90001906	21	21580019	T	A	2848	-0.13	0.03	0.00	0.01	21.14
rs28668175	CCR7 on naive CD4+	ebi-a-GCST90001907	1	26653983	C	A	2910	0.14	0.03	0.00	0.01	24.55
rs1515251	CCR7 on naive CD4+	ebi-a-GCST90001907	2	146831133	T	A	2910	-0.12	0.03	0.00	0.01	19.75
rs7565507	CCR7 on naive CD4+	ebi-a-GCST90001907	2	39767074	T	C	2910	-0.16	0.03	0.00	0.01	20.64
rs13013272	CCR7 on naive CD4+	ebi-a-GCST90001907	2	75011686	T	C	2910	0.20	0.04	0.00	0.01	20.45
rs62230160	CCR7 on naive CD4+	ebi-a-GCST90001907	3	3218066	A	G	2910	-0.51	0.11	0.00	0.01	21.30
rs6533756	CCR7 on naive CD4+	ebi-a-GCST90001907	4	79458537	A	C	2910	0.13	0.03	0.00	0.01	24.10
rs72732720	CCR7 on naive CD4+	ebi-a-GCST90001907	5	38890571	T	A	2910	0.21	0.04	0.00	0.01	22.46
rs77025222	CCR7 on naive CD4+	ebi-a-GCST90001907	8	26160128	C	T	2910	0.31	0.07	0.00	0.01	20.19
rs140136541	CCR7 on naive CD4+	ebi-a-GCST90001907	9	92824281	T	C	2910	-0.56	0.12	0.00	0.01	20.18
rs12217994	CCR7 on naive CD4+	ebi-a-GCST90001907	10	45253052	T	C	2910	0.13	0.03	0.00	0.01	20.02
rs61968809	CCR7 on naive CD4+	ebi-a-GCST90001907	13	106399307	A	G	2910	0.26	0.05	0.00	0.01	30.13
rs12593799	CCR7 on naive CD4+	ebi-a-GCST90001907	15	82392146	T	G	2910	0.28	0.06	0.00	0.01	19.75
rs5020353	CCR7 on naive CD4+	ebi-a-GCST90001907	16	423423	G	A	2910	-0.27	0.03	0.00	0.03	92.12
rs9934320	CCR7 on naive CD4+	ebi-a-GCST90001907	16	79755966	T	C	2910	-0.21	0.05	0.00	0.01	20.96
rs2228015	CCR7 on naive CD4+	ebi-a-GCST90001907	17	38715186	C	T	2910	0.68	0.07	0.00	0.03	99.87
rs75983909	CCR7 on naive CD4+	ebi-a-GCST90001907	17	38723925	T	C	2910	0.60	0.11	0.00	0.01	31.58
rs76868109	CCR7 on naive CD4+	ebi-a-GCST90001907	17	41776943	C	A	2910	0.53	0.12	0.00	0.01	19.79
rs189899503	CCR7 on naive CD4+	ebi-a-GCST90001907	18	74173063	A	G	2910	0.41	0.09	0.00	0.01	20.90
rs114153301	CCR7 on naive CD4+	ebi-a-GCST90001907	18	66074898	T	C	2910	-0.48	0.11	0.00	0.01	20.59
rs11665125	CCR7 on naive CD4+	ebi-a-GCST90001907	18	33295639	T	C	2910	-0.27	0.05	0.00	0.01	27.89
rs355325	CCR7 on naive CD4+	ebi-a-GCST90001907	18	33070491	A	G	2910	-0.15	0.03	0.00	0.01	21.21
rs17833525	CCR7 on naive CD4+	ebi-a-GCST90001907	18	72546030	G	A	2910	2.79	0.59	0.00	0.01	21.95
rs6076512	CCR7 on naive CD4+	ebi-a-GCST90001907	20	3347297	A	C	2910	-0.13	0.03	0.00	0.01	21.78
rs185134274	CCR7 on naive CD4+	ebi-a-GCST90001907	21	45395803	T	G	2910	-0.65	0.15	0.00	0.01	20.14
rs9614090	CCR7 on naive CD4+	ebi-a-GCST90001907	22	30269907	A	T	2910	-0.15	0.03	0.00	0.01	28.92

rs111855096	CCR7 on naive CD4+	ebi-a-GCST90001907	22	48693531	G	A	2910	0.25	0.05	0.00	0.01	21.49
rs146790974	CCR7 on naive CD8br	ebi-a-GCST90001908	2	152246402	A	G	2910	0.34	0.08	0.00	0.01	20.77
rs7629505	CCR7 on naive CD8br	ebi-a-GCST90001908	3	31921624	G	A	2910	-0.13	0.03	0.00	0.01	19.60
rs2204128	CCR7 on naive CD8br	ebi-a-GCST90001908	3	61688122	T	G	2910	-0.39	0.09	0.00	0.01	20.41
rs187179931	CCR7 on naive CD8br	ebi-a-GCST90001908	4	138000655	G	A	2910	0.46	0.10	0.00	0.01	21.57
rs114222516	CCR7 on naive CD8br	ebi-a-GCST90001908	4	137459015	T	C	2910	0.52	0.10	0.00	0.01	25.23
rs188524489	CCR7 on naive CD8br	ebi-a-GCST90001908	4	65000122	G	A	2910	0.56	0.12	0.00	0.01	20.43
rs460267	CCR7 on naive CD8br	ebi-a-GCST90001908	5	76722891	C	T	2910	-0.12	0.03	0.00	0.01	20.05
rs146494321	CCR7 on naive CD8br	ebi-a-GCST90001908	5	32490061	G	T	2910	1.08	0.24	0.00	0.01	20.70
rs6925194	CCR7 on naive CD8br	ebi-a-GCST90001908	6	156369631	C	T	2910	-0.17	0.04	0.00	0.01	21.42
rs3806092	CCR7 on naive CD8br	ebi-a-GCST90001908	6	70982817	C	A	2910	0.22	0.05	0.00	0.01	19.95
rs112171230	CCR7 on naive CD8br	ebi-a-GCST90001908	7	70434581	T	C	2910	0.29	0.06	0.00	0.01	21.36
rs13261112	CCR7 on naive CD8br	ebi-a-GCST90001908	8	82954367	A	G	2910	0.24	0.05	0.00	0.01	20.01
rs842297	CCR7 on naive CD8br	ebi-a-GCST90001908	9	7722331	G	A	2910	-0.19	0.04	0.00	0.01	23.15
rs13295814	CCR7 on naive CD8br	ebi-a-GCST90001908	9	35969765	C	A	2910	-0.13	0.03	0.00	0.01	19.68
rs7924111	CCR7 on naive CD8br	ebi-a-GCST90001908	10	3161871	T	C	2910	0.44	0.09	0.00	0.01	26.26
rs12593799	CCR7 on naive CD8br	ebi-a-GCST90001908	15	82392146	T	G	2910	0.29	0.06	0.00	0.01	22.41
rs56043797	CCR7 on naive CD8br	ebi-a-GCST90001908	15	76068559	C	T	2910	-0.14	0.03	0.00	0.01	21.11
rs139036545	CCR7 on naive CD8br	ebi-a-GCST90001908	16	86333892	A	G	2910	1.62	0.36	0.00	0.01	20.31
rs1492564	CCR7 on naive CD8br	ebi-a-GCST90001908	16	73774321	T	C	2910	-0.13	0.03	0.00	0.01	21.41
rs116872842	CCR7 on naive CD8br	ebi-a-GCST90001908	16	51249917	T	A	2910	0.27	0.06	0.00	0.01	20.49
rs5020353	CCR7 on naive CD8br	ebi-a-GCST90001908	16	423423	G	A	2910	-0.21	0.03	0.00	0.02	53.67
rs2228015	CCR7 on naive CD8br	ebi-a-GCST90001908	17	38715186	C	T	2910	0.38	0.07	0.00	0.01	31.13
rs8179096	CCR7 on naive CD8br	ebi-a-GCST90001908	17	76921649	A	G	2910	0.39	0.09	0.00	0.01	20.35
rs143859887	CCR7 on naive CD8br	ebi-a-GCST90001908	20	58399063	G	A	2910	1.59	0.34	0.00	0.01	21.63
rs9614090	CCR7 on naive CD8br	ebi-a-GCST90001908	22	30269907	A	T	2910	-0.12	0.03	0.00	0.01	19.61
rs267708	CD14+ monocvte CD45 on	ebi-a-GCST90001909	1	30445631	G	A	3112	0.13	0.03	0.00	0.01	20.47
rs12131677	CD14+ monocvte CD45 on	ebi-a-GCST90001909	1	90315734	A	G	3112	0.12	0.03	0.00	0.01	20.14
rs142767469	CD14+ monocvte CD45 on	ebi-a-GCST90001909	5	26288128	A	T	3112	-0.71	0.14	0.00	0.01	26.34
rs6884558	CD14+ monocvte CD45 on	ebi-a-GCST90001909	5	124281556	G	A	3112	0.12	0.03	0.00	0.01	20.35
rs34858919	CD14+ monocvte CD45 on	ebi-a-GCST90001909	7	66829653	A	C	3112	-0.14	0.03	0.00	0.01	23.49
rs74798265	CD14+ monocvte CD45 on	ebi-a-GCST90001909	7	29493428	G	C	3112	0.57	0.12	0.00	0.01	22.61
rs7005676	CD14+ monocvte	ebi-a-GCST90001909	8	134449939	T	C	3112	0.18	0.04	0.00	0.01	23.14

rs117509040	CD45 on CD14+ monocyte	ebi-a-GCST90001909	8	93803650	C	G	3112	1.41	0.32	0.00	0.01	19.94
rs11141907	CD45 on CD14+ monocyte	ebi-a-GCST90001909	9	90213762	G	A	3112	-0.56	0.12	0.00	0.01	20.70
rs182879147	CD45 on CD14+ monocyte	ebi-a-GCST90001909	9	127081265	A	T	3112	-1.12	0.23	0.00	0.01	23.69
rs113853911	CD45 on CD14+ monocyte	ebi-a-GCST90001909	11	5263771	C	G	3112	-0.25	0.05	0.00	0.01	22.00
rs12364299	CD45 on CD14+ monocyte	ebi-a-GCST90001909	11	5403108	T	A	3112	-0.30	0.05	0.00	0.01	34.97
rs2511241	CD45 on CD14+ monocyte	ebi-a-GCST90001909	11	72945341	T	C	3112	0.35	0.07	0.00	0.01	25.12
rs79265501	CD45 on CD14+ monocyte	ebi-a-GCST90001909	11	5747642	T	C	3112	-0.28	0.06	0.00	0.01	23.30
rs7323586	CD45 on CD14+ monocyte	ebi-a-GCST90001909	13	113478654	C	G	3112	-0.14	0.03	0.00	0.01	22.02
rs58552272	CD45 on CD14+ monocyte	ebi-a-GCST90001909	16	10871095	C	A	3112	-0.21	0.05	0.00	0.01	20.43
rs867396	CD45 on CD14+ monocyte	ebi-a-GCST90001909	17	79167116	C	G	3112	0.12	0.03	0.00	0.01	20.47
rs77687616	CD45 on CD14+ monocyte	ebi-a-GCST90001909	20	54392972	C	T	3112	-0.74	0.14	0.00	0.01	29.05
rs559835585	CD45 on B cell	ebi-a-GCST90001910	1	237699750	G	C	3112	-1.25	0.27	0.00	0.01	20.96
rs4952746	CD45 on B cell	ebi-a-GCST90001910	2	45397753	A	G	3112	0.20	0.05	0.00	0.01	19.93
rs111395861	CD45 on B cell	ebi-a-GCST90001910	2	14940150	A	G	3112	0.45	0.10	0.00	0.01	21.39
rs2517515	CD45 on B cell	ebi-a-GCST90001910	6	31029258	T	C	3112	-0.16	0.03	0.00	0.01	30.39
rs819501	CD45 on B cell	ebi-a-GCST90001910	6	47012997	C	G	3112	0.13	0.03	0.00	0.01	21.42
rs17613271	CD45 on B cell	ebi-a-GCST90001910	6	32621778	G	A	3112	-0.20	0.04	0.00	0.01	25.07
rs118055407	CD45 on B cell	ebi-a-GCST90001910	7	134999862	C	T	3112	0.34	0.08	0.00	0.01	19.58
rs13244416	CD45 on B cell	ebi-a-GCST90001910	7	98408686	G	A	3112	-0.13	0.03	0.00	0.01	19.93
rs149349110	CD45 on B cell	ebi-a-GCST90001910	7	289399	T	C	3112	0.15	0.03	0.00	0.01	19.75
rs4442111	CD45 on B cell	ebi-a-GCST90001910	8	99120383	A	T	3112	0.15	0.03	0.00	0.01	21.63
rs11830137	CD45 on B cell	ebi-a-GCST90001910	12	10379272	A	G	3112	0.22	0.05	0.00	0.01	22.73
rs7332754	CD45 on B cell	ebi-a-GCST90001910	13	106729299	C	G	3112	0.16	0.03	0.00	0.01	25.30
rs142266193	CD45 on B cell	ebi-a-GCST90001910	13	30673693	A	G	3112	-0.53	0.11	0.00	0.01	23.46
rs2440320	CD45 on B cell	ebi-a-GCST90001910	15	53075734	G	A	3112	1.17	0.26	0.00	0.01	20.22
rs11637245	CD45 on B cell	ebi-a-GCST90001910	15	40846615	T	C	3112	-0.12	0.03	0.00	0.01	20.85
rs12939172	CD45 on B cell	ebi-a-GCST90001910	17	14526450	C	G	3112	0.14	0.03	0.00	0.01	26.00
rs80231522	CD45 on B cell	ebi-a-GCST90001910	17	52584481	C	T	3112	1.64	0.35	0.00	0.01	21.59
rs138082872	CD45 on B cell	ebi-a-GCST90001910	19	44344058	T	C	3112	2.33	0.51	0.00	0.01	21.17
rs5750829	CD45 on B cell	ebi-a-GCST90001910	22	39838018	G	A	3112	-0.15	0.03	0.00	0.01	34.71
rs10917571	CD45 on NK	ebi-a-GCST90001911	1	161519411	A	C	3113	-0.14	0.03	0.00	0.01	20.15
rs183053322	CD45 on NK	ebi-a-GCST90001911	1	25076059	T	C	3113	0.51	0.07	0.00	0.02	47.40

rs75312377	CD45 on NK	ebi-a-GCST90001911	1	24836544	T	G	3113	0.58	0.11	0.00	0.01	29.23
rs6702066	CD45 on NK	ebi-a-GCST90001911	1	29711271	C	T	3113	0.23	0.05	0.00	0.01	20.11
rs2377027	CD45 on NK	ebi-a-GCST90001911	1	226420536	G	C	3113	0.16	0.03	0.00	0.01	32.34
rs150065473	CD45 on NK	ebi-a-GCST90001911	1	158359489	T	C	3113	0.54	0.12	0.00	0.01	19.95
rs181102707	CD45 on NK	ebi-a-GCST90001911	1	198147822	T	G	3113	0.30	0.06	0.00	0.01	23.17
rs2163548	CD45 on NK	ebi-a-GCST90001911	2	201226862	G	C	3113	-0.17	0.04	0.00	0.01	21.18
rs6721978	CD45 on NK	ebi-a-GCST90001911	2	232290157	C	T	3113	0.22	0.03	0.00	0.02	64.48
rs142823250	CD45 on NK	ebi-a-GCST90001911	3	17817424	A	G	3113	-0.23	0.05	0.00	0.01	20.40
rs2331416	CD45 on NK	ebi-a-GCST90001911	4	69492629	C	T	3113	-0.13	0.03	0.00	0.01	21.33
rs72756114	CD45 on NK	ebi-a-GCST90001911	5	54862828	A	C	3113	-0.13	0.03	0.00	0.01	21.03
rs72502555	CD45 on NK	ebi-a-GCST90001911	6	31234208	G	C	3113	-0.16	0.03	0.00	0.01	21.63
rs190229330	CD45 on NK	ebi-a-GCST90001911	6	82039242	T	G	3113	-1.22	0.25	0.00	0.01	23.36
rs117491214	CD45 on NK	ebi-a-GCST90001911	7	26905913	T	C	3113	1.19	0.26	0.00	0.01	21.47
rs34664922	CD45 on NK	ebi-a-GCST90001911	7	56100176	C	A	3113	-0.34	0.07	0.00	0.01	21.11
rs71576013	CD45 on NK	ebi-a-GCST90001911	8	134855565	C	G	3113	0.16	0.04	0.00	0.01	20.62
rs149803985	CD45 on NK	ebi-a-GCST90001911	8	110654552	G	A	3113	-0.48	0.11	0.00	0.01	20.32
rs3780495	CD45 on NK	ebi-a-GCST90001911	9	33125942	C	A	3113	0.12	0.03	0.00	0.01	19.83
rs150425620	CD45 on NK	ebi-a-GCST90001911	9	72572853	T	C	3113	0.46	0.10	0.00	0.01	19.78
rs10781534	CD45 on NK	ebi-a-GCST90001911	9	139933589	T	C	3113	0.14	0.03	0.00	0.01	21.03
rs1182654	CD45 on NK	ebi-a-GCST90001911	9	19731896	T	C	3113	0.13	0.03	0.00	0.01	22.15
rs10882100	CD45 on NK	ebi-a-GCST90001911	10	94460687	G	C	3113	0.13	0.03	0.00	0.01	23.07
rs751514	CD45 on NK	ebi-a-GCST90001911	10	126366931	C	T	3113	-0.16	0.03	0.00	0.01	24.50
rs11613388	CD45 on NK	ebi-a-GCST90001911	12	54342563	T	C	3113	0.17	0.04	0.00	0.01	20.03
rs72677702	CD45 on NK	ebi-a-GCST90001911	14	40030520	G	T	3113	0.14	0.03	0.00	0.01	21.88
rs146515193	CD45 on NK	ebi-a-GCST90001911	15	69715791	T	G	3113	0.81	0.18	0.00	0.01	21.10
rs12593800	CD45 on NK	ebi-a-GCST90001911	15	79575521	C	T	3113	-0.13	0.03	0.00	0.01	21.73
rs12928699	CD45 on NK	ebi-a-GCST90001911	16	5027948	T	C	3113	0.24	0.05	0.00	0.01	22.11
rs4327090	CD45 on NK	ebi-a-GCST90001911	17	43902541	G	A	3113	0.17	0.04	0.00	0.01	22.12
rs77592206	CD45 on NK	ebi-a-GCST90001911	22	39163362	T	C	3113	-0.33	0.07	0.00	0.01	21.29
rs2495272	CD45 on HLA DR+	ebi-a-GCST90001912	1	2897465	G	A	2971	0.16	0.03	0.00	0.01	22.43
rs13096090	CD45 on HLA DR+	ebi-a-GCST90001912	3	197271476	C	T	2971	0.26	0.06	0.00	0.01	19.87
rs11129873	CD45 on HLA DR+	ebi-a-GCST90001912	3	40295706	G	A	2971	0.20	0.04	0.00	0.01	20.18
rs7698455	CD45 on HLA DR+	ebi-a-GCST90001912	4	6690481	T	A	2971	0.23	0.05	0.00	0.01	21.63
rs114669227	CD45 on HLA DR+	ebi-a-GCST90001912	5	101613375	C	T	2971	-1.68	0.37	0.00	0.01	20.17
rs142947331	CD45 on HLA DR+	ebi-a-GCST90001912	6	13780175	C	G	2971	-0.32	0.07	0.00	0.01	21.66
rs116881034	CD45 on HLA DR+	ebi-a-GCST90001912	7	37661413	T	A	2971	-0.57	0.13	0.00	0.01	20.14
rs78892713	CD45 on HLA DR+	ebi-a-GCST90001912	9	77011032	T	C	2971	0.46	0.10	0.00	0.01	20.59
rs12772032	CD45 on HLA DR+	ebi-a-GCST90001912	10	125376027	T	A	2971	-0.13	0.03	0.00	0.01	21.55
rs7097637	CD45 on HLA DR+	ebi-a-GCST90001912	10	129339038	C	T	2971	0.12	0.03	0.00	0.01	19.84
rs7482118	CD45 on HLA DR+	ebi-a-GCST90001912	11	972603	G	A	2971	-0.13	0.03	0.00	0.01	20.16
rs1860345	CD45 on HLA DR+	ebi-a-GCST90001912	12	4910812	C	T	2971	-0.17	0.04	0.00	0.01	22.60
rs117580642	CD45 on HLA DR+	ebi-a-GCST90001912	18	9097811	G	C	2971	-0.25	0.05	0.00	0.01	21.35
rs77353040	CD45 on granulocyte	ebi-a-GCST90001913	1	92438297	G	A	3112	1.74	0.39	0.00	0.01	20.36
rs708772	CD45 on granulocyte	ebi-a-GCST90001913	1	226912891	C	T	3112	0.12	0.03	0.00	0.01	21.87

rs2070901	CD45 on granulocyte	ebi-a-GCST90001913	1	161185058	T	G	3112	0.17	0.03	0.00	0.01	33.89
rs76564275	CD45 on granulocyte	ebi-a-GCST90001913	1	198077256	T	G	3112	-0.24	0.05	0.00	0.01	23.02
rs12120358	CD45 on granulocyte	ebi-a-GCST90001913	1	161444369	T	A	3112	-0.16	0.03	0.00	0.01	23.31
rs141251504	CD45 on granulocyte	ebi-a-GCST90001913	2	106554170	A	G	3112	0.35	0.08	0.00	0.01	19.77
rs79009131	CD45 on granulocyte	ebi-a-GCST90001913	5	9930209	C	T	3112	-0.17	0.04	0.00	0.01	21.32
rs76530868	CD45 on granulocyte	ebi-a-GCST90001913	6	31275410	A	C	3112	-0.20	0.04	0.00	0.01	24.17
rs2523857	CD45 on granulocyte	ebi-a-GCST90001913	6	31021504	C	T	3112	0.15	0.03	0.00	0.01	19.92
rs79200728	CD45 on granulocyte	ebi-a-GCST90001913	8	2082753	G	T	3112	0.23	0.05	0.00	0.01	19.71
rs4838178	CD45 on granulocyte	ebi-a-GCST90001913	9	127220635	G	C	3112	-0.12	0.03	0.00	0.01	19.66
rs77547877	CD45 on granulocyte	ebi-a-GCST90001913	9	72613948	G	A	3112	-0.54	0.12	0.00	0.01	21.11
rs12364299	CD45 on granulocyte	ebi-a-GCST90001913	11	5403108	T	A	3112	-0.24	0.05	0.00	0.01	22.60
rs188470738	CD45 on granulocyte	ebi-a-GCST90001913	18	3276401	A	G	3112	1.38	0.31	0.00	0.01	19.66
rs11084094	CD45 on granulocyte	ebi-a-GCST90001913	19	52119546	C	T	3112	0.14	0.03	0.00	0.01	28.02
rs138030758	CD45 on granulocyte	ebi-a-GCST90001913	20	7731470	T	C	3112	0.77	0.17	0.00	0.01	21.56
rs117414770	CD45 on granulocyte	ebi-a-GCST90001913	20	40628317	C	A	3112	-0.47	0.10	0.00	0.01	20.82
rs147201606	CD45 on lymphocyte	ebi-a-GCST90001914	1	30780553	T	C	3113	0.41	0.08	0.00	0.01	23.59
rs75643253	CD45 on lymphocyte	ebi-a-GCST90001914	1	27415326	T	C	3113	0.36	0.08	0.00	0.01	20.85
rs9434622	CD45 on lymphocyte	ebi-a-GCST90001914	1	8205085	T	A	3113	-0.16	0.03	0.00	0.01	22.39
rs75954342	CD45 on lymphocyte	ebi-a-GCST90001914	2	98567907	T	C	3113	-0.37	0.07	0.00	0.01	24.61
rs11894144	CD45 on lymphocyte	ebi-a-GCST90001914	2	166034305	T	C	3113	0.12	0.03	0.00	0.01	20.33
rs143934712	CD45 on lymphocyte	ebi-a-GCST90001914	3	75826490	G	A	3113	-0.34	0.07	0.00	0.01	21.74
rs4073271	CD45 on lymphocyte	ebi-a-GCST90001914	4	1573141	C	T	3113	-0.13	0.03	0.00	0.01	20.97
rs3778139	CD45 on lymphocyte	ebi-a-GCST90001914	6	129467732	G	A	3113	-1.16	0.25	0.00	0.01	21.47
rs73160264	CD45 on lymphocyte	ebi-a-GCST90001914	7	132417677	T	C	3113	0.18	0.04	0.00	0.01	19.67
rs118021489	CD45 on lymphocyte	ebi-a-GCST90001914	7	136665573	T	C	3113	0.55	0.12	0.00	0.01	20.05
rs2517278	CD45 on lymphocyte	ebi-a-GCST90001914	8	17441115	A	T	3113	-0.12	0.03	0.00	0.01	19.59
rs34441251	CD45 on lymphocyte	ebi-a-GCST90001914	9	17678842	G	C	3113	-0.16	0.04	0.00	0.01	19.66
rs3740869	CD45 on lymphocyte	ebi-a-GCST90001914	11	106002997	C	T	3113	-0.15	0.03	0.00	0.01	20.06
rs7139068	CD45 on lymphocyte	ebi-a-GCST90001914	12	53597092	T	A	3113	0.28	0.06	0.00	0.01	21.37
rs117527144	CD45 on lymphocyte	ebi-a-GCST90001914	12	3303278	C	T	3113	0.25	0.05	0.00	0.01	21.91
rs12882220	CD45 on lymphocyte	ebi-a-GCST90001914	14	24869512	C	T	3113	0.13	0.03	0.00	0.01	20.77
rs62002014	CD45 on lymphocyte	ebi-a-GCST90001914	15	25371646	G	A	3113	-1.38	0.29	0.00	0.01	22.48
rs8040122	CD45 on lymphocyte	ebi-a-GCST90001914	15	86809852	A	G	3113	-0.17	0.04	0.00	0.01	22.41
rs17307464	CD45 on lymphocyte	ebi-a-GCST90001914	16	70755144	A	G	3113	0.12	0.03	0.00	0.01	19.65
rs75928238	CD45 on lymphocyte	ebi-a-GCST90001914	16	21089895	T	C	3113	0.30	0.07	0.00	0.01	19.69
rs34291514	CD45 on lymphocyte	ebi-a-GCST90001914	17	1058299	A	G	3113	-0.25	0.05	0.00	0.01	25.63
rs191772295	CD45 on lymphocyte	ebi-a-GCST90001914	18	21222946	C	T	3113	0.69	0.14	0.00	0.01	23.42

rs6129733	CD45 on lymphocyte	ebi-a-GCST90001914	20	39662225	C	G	3113	-0.14	0.03	0.00	0.01	22.85
rs5763842	CD45 on lymphocyte	ebi-a-GCST90001914	22	30568738	A	G	3113	0.13	0.03	0.00	0.01	21.33
rs147201606	CD45 on T cell	ebi-a-GCST90001915	1	30780553	T	C	3113	0.39	0.08	0.00	0.01	22.69
rs115861687	CD45 on T cell	ebi-a-GCST90001915	1	42697317	C	T	3113	-2.43	0.50	0.00	0.01	23.70
rs77025195	CD45 on T cell	ebi-a-GCST90001915	1	172481043	T	C	3113	-0.95	0.21	0.00	0.01	19.86
rs469141	CD45 on T cell	ebi-a-GCST90001915	1	91546799	T	A	3113	-0.26	0.05	0.00	0.01	22.39
rs41317509	CD45 on T cell	ebi-a-GCST90001915	1	186159947	G	A	3113	-1.05	0.23	0.00	0.01	20.35
rs11676095	CD45 on T cell	ebi-a-GCST90001915	2	206656142	T	C	3113	-0.23	0.05	0.00	0.01	19.69
rs3778139	CD45 on T cell	ebi-a-GCST90001915	6	129467732	G	A	3113	-1.09	0.25	0.00	0.01	19.66
rs142492586	CD45 on T cell	ebi-a-GCST90001915	6	33202756	C	T	3113	-0.17	0.04	0.00	0.01	23.27
rs7744304	CD45 on T cell	ebi-a-GCST90001915	6	32425487	T	G	3113	-0.16	0.03	0.00	0.01	22.48
rs34441251	CD45 on T cell	ebi-a-GCST90001915	9	17678842	G	C	3113	-0.17	0.03	0.00	0.01	22.35
rs7074916	CD45 on T cell	ebi-a-GCST90001915	10	8256695	T	G	3113	0.21	0.05	0.00	0.01	20.27
rs7952636	CD45 on T cell	ebi-a-GCST90001915	11	103495231	A	G	3113	0.14	0.03	0.00	0.01	20.91
rs17307464	CD45 on T cell	ebi-a-GCST90001915	16	70755144	A	G	3113	0.13	0.03	0.00	0.01	23.25
rs34291514	CD45 on T cell	ebi-a-GCST90001915	17	1058299	A	G	3113	-0.25	0.05	0.00	0.01	26.61
rs1530599	CD45 on T cell	ebi-a-GCST90001915	18	23831649	T	C	3113	0.13	0.03	0.00	0.01	20.87
rs78970139	CD45 on CD4+	ebi-a-GCST90001916	2	52204804	G	A	3113	-0.15	0.03	0.00	0.01	21.29
rs73187865	CD45 on CD4+	ebi-a-GCST90001916	3	119105402	C	T	3113	-0.19	0.04	0.00	0.01	19.90
rs11944009	CD45 on CD4+	ebi-a-GCST90001916	4	1568839	T	C	3113	0.12	0.03	0.00	0.01	21.63
rs7657718	CD45 on CD4+	ebi-a-GCST90001916	4	21222071	G	T	3113	-0.13	0.03	0.00	0.01	21.52
rs3104376	CD45 on CD4+	ebi-a-GCST90001916	6	32600003	C	T	3113	-0.21	0.03	0.00	0.01	35.92
rs113149369	CD45 on CD4+	ebi-a-GCST90001916	6	43645107	A	C	3113	0.39	0.09	0.00	0.01	19.71
rs3998189	CD45 on CD4+	ebi-a-GCST90001916	6	32450357	T	A	3113	0.18	0.03	0.00	0.01	25.93
rs9363908	CD45 on CD4+	ebi-a-GCST90001916	6	69075429	G	A	3113	-0.13	0.03	0.00	0.01	22.14
rs902920	CD45 on CD4+	ebi-a-GCST90001916	8	96301882	C	G	3113	-0.44	0.10	0.00	0.01	20.04
rs2185450	CD45 on CD4+	ebi-a-GCST90001916	14	38566955	C	T	3113	-0.14	0.03	0.00	0.01	20.17
rs17307464	CD45 on CD4+	ebi-a-GCST90001916	16	70755144	A	G	3113	0.13	0.03	0.00	0.01	22.53
rs189409686	CD45 on CD4+	ebi-a-GCST90001916	17	3612334	T	C	3113	-0.46	0.10	0.00	0.01	21.97
rs112736938	CD45 on CD4+	ebi-a-GCST90001916	18	64359675	C	T	3113	0.45	0.10	0.00	0.01	21.35
rs62120820	CD45 on CD4+	ebi-a-GCST90001916	19	56697803	G	T	3113	0.32	0.07	0.00	0.01	20.89
rs76544033	CD45 on CD8br	ebi-a-GCST90001917	1	165287038	T	C	3113	-3.88	0.85	0.00	0.01	20.67
rs116030815	CD45 on CD8br	ebi-a-GCST90001917	1	42691989	C	T	3113	-3.13	0.57	0.00	0.01	30.31
rs147201606	CD45 on CD8br	ebi-a-GCST90001917	1	30780553	T	C	3113	0.36	0.08	0.00	0.01	21.71
rs17557937	CD45 on CD8br	ebi-a-GCST90001917	1	91901382	C	T	3113	-3.87	0.87	0.00	0.01	19.98
rs4849134	CD45 on CD8br	ebi-a-GCST90001917	2	111615015	G	A	3113	-0.12	0.03	0.00	0.01	20.27
rs7559619	CD45 on CD8br	ebi-a-GCST90001917	2	38892207	G	A	3113	0.14	0.03	0.00	0.01	30.23

rs7643142	CD45 on CD8br	ebi-a-GCST90001917	3	175109345	T	C	3113	-0.24	0.05	0.00	0.01	20.59
rs11707721	CD45 on CD8br	ebi-a-GCST90001917	3	67272268	A	C	3113	0.13	0.03	0.00	0.01	22.23
rs543582225	CD45 on CD8br	ebi-a-GCST90001917	4	94602439	C	G	3113	-3.91	0.87	0.00	0.01	20.36
rs77771245	CD45 on CD8br	ebi-a-GCST90001917	4	20154192	C	A	3113	-3.86	0.87	0.00	0.01	19.90
rs11100525	CD45 on CD8br	ebi-a-GCST90001917	4	164804342	T	A	3113	0.12	0.03	0.00	0.01	19.68
rs115625722	CD45 on CD8br	ebi-a-GCST90001917	4	21411107	A	G	3113	-2.29	0.49	0.00	0.01	22.14
rs114726846	CD45 on CD8br	ebi-a-GCST90001917	4	85362264	T	C	3113	-3.91	0.87	0.00	0.01	20.00
rs2409763	CD45 on CD8br	ebi-a-GCST90001917	5	59832250	A	C	3113	-0.19	0.04	0.00	0.01	21.01
rs60321540	CD45 on CD8br	ebi-a-GCST90001917	5	143601136	T	C	3113	0.37	0.08	0.00	0.01	21.38
rs62404145	CD45 on CD8br	ebi-a-GCST90001917	6	32641178	T	A	3113	0.61	0.13	0.00	0.01	20.54
rs147779398	CD45 on CD8br	ebi-a-GCST90001917	7	42610990	C	T	3113	-0.53	0.12	0.00	0.01	21.29
rs77188735	CD45 on CD8br	ebi-a-GCST90001917	9	77312021	C	A	3113	-3.97	0.84	0.00	0.01	22.18
rs783460	CD45 on CD8br	ebi-a-GCST90001917	9	23797136	T	C	3113	-1.41	0.31	0.00	0.01	20.04
rs150904881	CD45 on CD8br	ebi-a-GCST90001917	9	68222950	T	C	3113	-4.84	1.07	0.00	0.01	20.26
rs147885318	CD45 on CD8br	ebi-a-GCST90001917	9	32795573	T	G	3113	-3.85	0.86	0.00	0.01	20.06
rs117933675	CD45 on CD8br	ebi-a-GCST90001917	10	121098011	A	T	3113	-3.86	0.87	0.00	0.01	19.82
rs7897761	CD45 on CD8br	ebi-a-GCST90001917	10	93662774	T	G	3113	-0.14	0.03	0.00	0.01	20.00
rs1015952	CD45 on CD8br	ebi-a-GCST90001917	12	77741488	T	C	3113	0.12	0.03	0.00	0.01	22.07
rs117878489	CD45 on CD8br	ebi-a-GCST90001917	12	125913115	T	C	3113	-3.88	0.87	0.00	0.01	20.00
rs7179582	CD45 on CD8br	ebi-a-GCST90001917	15	34128532	A	G	3113	-0.12	0.02	0.00	0.01	22.39
rs71357170	CD45 on CD8br	ebi-a-GCST90001917	17	1046040	A	G	3113	-0.20	0.04	0.00	0.01	20.30
rs141418004	CD45 on CD8br	ebi-a-GCST90001917	18	49028375	A	G	3113	-0.53	0.12	0.00	0.01	20.98
rs77647448	CD45 on HLA DR+ T	ebi-a-GCST90001918	1	198669823	A	G	3060	0.20	0.04	0.00	0.01	19.63
rs4287807	CD45 on HLA DR+ T	ebi-a-GCST90001918	2	1310118	G	A	3060	0.13	0.03	0.00	0.01	19.61
rs45490493	CD45 on HLA DR+ T	ebi-a-GCST90001918	3	9002572	T	C	3060	0.67	0.15	0.00	0.01	20.17
rs77299479	CD45 on HLA DR+ T	ebi-a-GCST90001918	3	195101176	A	G	3060	-1.21	0.26	0.00	0.01	21.92
rs56073410	CD45 on HLA DR+ T	ebi-a-GCST90001918	4	188847101	T	C	3060	0.33	0.08	0.00	0.01	19.64
rs76771115	CD45 on HLA DR+ T	ebi-a-GCST90001918	5	16169518	T	C	3060	0.25	0.05	0.00	0.01	21.70
rs142492586	CD45 on HLA DR+ T	ebi-a-GCST90001918	6	33202756	C	T	3060	-0.18	0.04	0.00	0.01	24.62
rs79909944	CD45 on HLA DR+ T	ebi-a-GCST90001918	6	151771153	A	G	3060	-0.42	0.09	0.00	0.01	20.02
rs71543398	CD45 on HLA DR+ T	ebi-a-GCST90001918	7	140888195	C	T	3060	-0.28	0.06	0.00	0.01	19.77
rs11195975	CD45 on HLA DR+ T	ebi-a-GCST90001918	10	114254390	T	C	3060	0.65	0.14	0.00	0.01	20.16
rs7296607	CD45 on HLA DR+ T	ebi-a-GCST90001918	12	85162390	A	G	3060	0.30	0.06	0.00	0.01	21.75
rs200751912	CD45 on HLA DR+ T	ebi-a-GCST90001918	12	63154160	A	T	3060	0.52	0.11	0.00	0.01	22.29
rs12884891	CD45 on HLA DR+ T	ebi-a-GCST90001918	14	90027519	A	C	3060	0.17	0.03	0.00	0.01	24.76
rs141959698	CD45 on HLA DR+ T	ebi-a-GCST90001918	15	81676142	A	G	3060	-1.77	0.38	0.00	0.01	21.22
rs12924236	CD45 on HLA DR+ T	ebi-a-GCST90001918	16	10974423	C	G	3060	0.29	0.03	0.00	0.03	85.25

rs34970051	CD45 on HLA DR+ T	ebi-a-GCST90001918	17	1055106	C	T	3060	-0.26	0.05	0.00	0.01	26.70
rs10411493	CD45 on HLA DR+ T	ebi-a-GCST90001918	19	30617388	G	A	3060	0.36	0.08	0.00	0.01	22.35
rs2002814	CD45 on HLA DR+ T	ebi-a-GCST90001918	22	21399278	C	T	3060	0.16	0.03	0.00	0.01	21.53
rs75454391	CD45 on NKT	ebi-a-GCST90001919	1	244910968	G	A	3113	-0.42	0.09	0.00	0.01	20.06
rs116030815	CD45 on NKT	ebi-a-GCST90001919	1	42691989	C	T	3113	-2.77	0.62	0.00	0.01	20.14
rs12145132	CD45 on NKT	ebi-a-GCST90001919	1	198636736	G	A	3113	0.21	0.04	0.00	0.01	30.33
rs147981444	CD45 on NKT	ebi-a-GCST90001919	1	155359033	A	C	3113	0.54	0.12	0.00	0.01	21.71
rs742800	CD45 on NKT	ebi-a-GCST90001919	1	29718191	T	G	3113	0.26	0.05	0.00	0.01	23.03
rs72974727	CD45 on NKT	ebi-a-GCST90001919	2	237031702	C	T	3113	-0.44	0.10	0.00	0.01	20.52
rs11676095	CD45 on NKT	ebi-a-GCST90001919	2	206656142	T	C	3113	-0.26	0.05	0.00	0.01	22.81
rs58905133	CD45 on NKT	ebi-a-GCST90001919	2	38887964	G	A	3113	0.13	0.03	0.00	0.01	21.66
rs151179737	CD45 on NKT	ebi-a-GCST90001919	3	75549506	A	G	3113	-0.52	0.10	0.00	0.01	25.70
rs141044941	CD45 on NKT	ebi-a-GCST90001919	3	168694784	T	C	3113	0.56	0.13	0.00	0.01	19.62
rs34993786	CD45 on NKT	ebi-a-GCST90001919	3	66434668	A	G	3113	-0.53	0.12	0.00	0.01	20.34
rs115618992	CD45 on NKT	ebi-a-GCST90001919	4	5432284	T	G	3113	1.42	0.30	0.00	0.01	22.15
rs60321540	CD45 on NKT	ebi-a-GCST90001919	5	143601136	T	C	3113	0.43	0.09	0.00	0.01	24.73
rs196695	CD45 on NKT	ebi-a-GCST90001919	6	80154074	G	A	3113	0.26	0.06	0.00	0.01	19.73
rs62440365	CD45 on NKT	ebi-a-GCST90001919	6	160760868	A	G	3113	-0.21	0.05	0.00	0.01	20.62
rs140611829	CD45 on NKT	ebi-a-GCST90001919	6	14271982	A	G	3113	-0.55	0.12	0.00	0.01	21.81
rs114672192	CD45 on NKT	ebi-a-GCST90001919	6	15377905	C	A	3113	-0.76	0.16	0.00	0.01	23.15
rs117697165	CD45 on NKT	ebi-a-GCST90001919	6	113791493	T	C	3113	-0.88	0.19	0.00	0.01	20.59
rs10952012	CD45 on NKT	ebi-a-GCST90001919	7	1335231	G	T	3113	0.19	0.04	0.00	0.01	24.07
rs546423	CD45 on NKT	ebi-a-GCST90001919	9	135344611	G	A	3113	0.13	0.03	0.00	0.01	20.03
rs163389	CD45 on NKT	ebi-a-GCST90001919	17	15579474	C	T	3113	-0.25	0.06	0.00	0.01	20.56
rs7217404	CD45 on NKT	ebi-a-GCST90001919	17	13490432	C	T	3113	0.15	0.03	0.00	0.01	20.36
rs62120820	CD45 on NKT	ebi-a-GCST90001919	19	56697803	G	T	3113	0.32	0.07	0.00	0.01	19.57
rs117385292	CD45 on NKT	ebi-a-GCST90001919	20	393747	T	C	3113	0.71	0.16	0.00	0.01	19.82
rs148669043	CD45 on HLA DR+	ebi-a-GCST90001920	2	133292614	G	T	3060	0.52	0.12	0.00	0.01	20.08
rs730220	CD45 on HLA DR+	ebi-a-GCST90001920	2	240672330	G	A	3060	-0.14	0.03	0.00	0.01	26.18
rs112341592	CD45 on HLA DR+	ebi-a-GCST90001920	3	87411172	C	A	3060	0.35	0.06	0.00	0.01	28.49
rs139435103	CD45 on HLA DR+	ebi-a-GCST90001920	3	9027874	A	G	3060	0.68	0.15	0.00	0.01	20.47
rs939285	CD45 on HLA DR+	ebi-a-GCST90001920	3	14647282	T	C	3060	0.12	0.03	0.00	0.01	20.02
rs117486308	CD45 on HLA DR+	ebi-a-GCST90001920	6	147964200	A	G	3060	-1.55	0.32	0.00	0.01	24.00
rs71575076	CD45 on HLA DR+	ebi-a-GCST90001920	6	156577959	T	C	3060	0.22	0.04	0.00	0.01	26.58
rs2092305	CD45 on HLA DR+	ebi-a-GCST90001920	6	33100189	G	A	3060	-0.18	0.03	0.00	0.01	32.98
rs78073915	CD45 on HLA DR+	ebi-a-GCST90001920	6	80863600	G	A	3060	2.19	0.46	0.00	0.01	22.59
rs9271376	CD45 on HLA DR+	ebi-a-GCST90001920	6	32587113	A	G	3060	-0.17	0.03	0.00	0.01	25.78
rs537480011	CD45 on HLA DR+	ebi-a-GCST90001920	6	149188427	T	C	3060	0.40	0.08	0.00	0.01	23.03
rs66546311	CD45 on HLA DR+	ebi-a-GCST90001920	7	127039480	C	T	3060	0.19	0.04	0.00	0.01	20.25
rs150842259	CD45 on HLA DR+	ebi-a-GCST90001920	9	118843067	T	C	3060	2.69	0.60	0.00	0.01	19.98
rs3764232	CD45 on HLA DR+	ebi-a-GCST90001920	15	34133130	G	A	3060	0.12	0.03	0.00	0.01	20.66
rs79583791	CD45 on HLA DR+	ebi-a-GCST90001920	15	74317702	G	A	3060	0.28	0.06	0.00	0.01	21.12

rs62032949	CD45 on HLA DR+	ebi-a-GCST90001920	16	17653439	A	G	3060	-0.23	0.05	0.00	0.01	20.58
rs72770017	CD45 on HLA DR+	ebi-a-GCST90001920	16	10973612	A	G	3060	-0.19	0.03	0.00	0.01	38.49
rs2226358	CD45 on HLA DR+	ebi-a-GCST90001920	21	39213937	C	T	3060	-0.12	0.03	0.00	0.01	20.34
rs12127496	CD45 on HLA DR+	ebi-a-GCST90001921	1	198723915	C	A	3060	0.19	0.04	0.00	0.01	19.79
rs137878176	CD45 on HLA DR+	ebi-a-GCST90001921	2	51742547	T	A	3060	2.70	0.54	0.00	0.01	24.97
rs75453573	CD45 on HLA DR+	ebi-a-GCST90001921	2	192777430	C	T	3060	-0.25	0.05	0.00	0.01	20.28
rs7559619	CD45 on HLA DR+	ebi-a-GCST90001921	2	38892207	G	A	3060	0.15	0.03	0.00	0.01	26.69
rs111625920	CD45 on HLA DR+	ebi-a-GCST90001921	3	195814264	T	C	3060	-0.12	0.03	0.00	0.01	19.64
rs2582093	CD45 on HLA DR+	ebi-a-GCST90001921	3	183533376	T	C	3060	-0.12	0.03	0.00	0.01	19.96
rs185352219	CD45 on HLA DR+	ebi-a-GCST90001921	3	129008805	T	C	3060	0.78	0.16	0.00	0.01	23.83
rs75760442	CD45 on HLA DR+	ebi-a-GCST90001921	3	122783073	A	T	3060	-0.98	0.22	0.00	0.01	20.39
rs17132647	CD45 on HLA DR+	ebi-a-GCST90001921	4	2491695	A	G	3060	-0.18	0.04	0.00	0.01	24.73
rs72773782	CD45 on HLA DR+	ebi-a-GCST90001921	5	75531539	G	A	3060	0.44	0.09	0.00	0.01	23.62
rs3116989	CD45 on HLA DR+	ebi-a-GCST90001921	6	33099538	T	G	3060	-0.15	0.03	0.00	0.01	22.58
rs578355	CD45 on HLA DR+	ebi-a-GCST90001921	8	102483098	G	A	3060	0.13	0.03	0.00	0.01	21.92
rs10105402	CD45 on HLA DR+	ebi-a-GCST90001921	8	131518417	T	C	3060	0.16	0.03	0.00	0.01	24.34
rs16925130	CD45 on HLA DR+	ebi-a-GCST90001921	9	100660122	C	T	3060	-0.49	0.10	0.00	0.01	25.74
rs12335987	CD45 on HLA DR+	ebi-a-GCST90001921	9	13235045	C	A	3060	-0.30	0.06	0.00	0.01	23.02
rs10823981	CD45 on HLA DR+	ebi-a-GCST90001921	10	53792294	T	A	3060	-0.13	0.03	0.00	0.01	21.72
rs12820360	CD45 on HLA DR+	ebi-a-GCST90001921	12	82099799	A	T	3060	-1.12	0.21	0.00	0.01	27.73
rs8010367	CD45 on HLA DR+	ebi-a-GCST90001921	14	31905918	C	T	3060	0.89	0.19	0.00	0.01	22.86
rs10151675	CD45 on HLA DR+	ebi-a-GCST90001921	14	77594914	A	T	3060	-0.15	0.03	0.00	0.01	19.97
rs141959698	CD45 on HLA DR+	ebi-a-GCST90001921	15	81676142	A	G	3060	-1.82	0.38	0.00	0.01	22.91
rs8071409	CD45 on HLA DR+	ebi-a-GCST90001921	17	36030219	G	A	3060	-0.13	0.03	0.00	0.01	22.21
rs10415710	CD45 on HLA DR+	ebi-a-GCST90001921	19	45014722	G	C	3060	-0.12	0.03	0.00	0.01	20.66
rs41302806	CD127 on T cell	ebi-a-GCST90001922	1	97280132	T	A	2920	0.22	0.05	0.00	0.01	23.22
rs7571217	CD127 on T cell	ebi-a-GCST90001922	2	192327964	T	C	2920	0.34	0.07	0.00	0.01	22.41
rs16869627	CD127 on T cell	ebi-a-GCST90001922	5	2447673	G	A	2920	-0.27	0.06	0.00	0.01	20.55
rs13176824	CD127 on T cell	ebi-a-GCST90001922	5	170977932	C	A	2920	-0.33	0.07	0.00	0.01	21.28
rs13180666	CD127 on T cell	ebi-a-GCST90001922	5	35836386	G	A	2920	-0.24	0.05	0.00	0.01	19.98
rs55748070	CD127 on T cell	ebi-a-GCST90001922	5	55194112	T	C	2920	-0.15	0.03	0.00	0.01	20.40
rs17577280	CD127 on T cell	ebi-a-GCST90001922	6	110728379	A	G	2920	0.13	0.03	0.00	0.01	21.44
rs7801342	CD127 on T cell	ebi-a-GCST90001922	7	31163003	C	T	2920	0.17	0.03	0.00	0.01	29.45
rs78487989	CD127 on T cell	ebi-a-GCST90001922	12	6408626	A	G	2920	0.26	0.06	0.00	0.01	20.42
rs2951771	CD127 on T cell	ebi-a-GCST90001922	12	11601027	G	A	2920	-0.12	0.03	0.00	0.01	20.69
rs12370077	CD127 on T cell	ebi-a-GCST90001922	12	55201765	A	G	2920	0.13	0.03	0.00	0.01	22.00
rs11627110	CD127 on T cell	ebi-a-GCST90001922	14	95845572	T	C	2920	-0.17	0.04	0.00	0.01	20.18

rs74644924	CD127 on T cell	ebi-a-GCST90001922	16	1010272	G	T	2920	0.53	0.12	0.00	0.01	20.12
rs11078935	CD127 on T cell	ebi-a-GCST90001922	17	38192137	G	T	2920	-0.14	0.03	0.00	0.01	22.32
rs116757507	CD127 on T cell	ebi-a-GCST90001922	17	5844216	T	C	2920	-0.34	0.07	0.00	0.01	22.71
rs148709019	CD127 on T cell	ebi-a-GCST90001922	19	23371494	T	G	2920	-0.33	0.07	0.00	0.01	23.01
rs117217795	CD127 on T cell	ebi-a-GCST90001922	19	49000393	G	A	2920	-0.31	0.07	0.00	0.01	20.20
rs6107545	CD127 on T cell	ebi-a-GCST90001922	20	4853544	G	A	2920	0.18	0.04	0.00	0.01	21.29
rs75904097	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	1	33089735	C	T	2920	0.44	0.10	0.00	0.01	20.15
rs6703836	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	1	174068813	A	T	2920	0.14	0.03	0.00	0.01	23.05
rs143650607	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	2	192303701	A	C	2920	0.39	0.08	0.00	0.01	21.48
rs12634099	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	3	112869208	A	G	2920	0.15	0.03	0.00	0.01	22.08
rs12513323	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	4	185517125	A	G	2920	-0.24	0.05	0.00	0.01	20.77
rs140978083	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	4	114960229	C	A	2920	0.35	0.08	0.00	0.01	21.85
rs16899999	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	5	35886731	G	C	2920	-0.25	0.04	0.00	0.01	34.27
rs62369573	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	5	64518731	T	C	2920	1.20	0.27	0.00	0.01	20.29
rs17739576	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	6	73187327	C	G	2920	0.14	0.03	0.00	0.01	22.20
rs17064297	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	8	1777571	G	A	2920	0.13	0.03	0.00	0.01	20.09
rs118179243	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	11	134914590	C	T	2920	2.49	0.55	0.00	0.01	20.22
rs112348392	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	11	47832118	T	A	2920	-0.40	0.09	0.00	0.01	21.74
rs12230438	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	12	55296757	C	A	2920	0.15	0.03	0.00	0.01	19.76
rs149514573	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	13	84155288	A	T	2920	0.30	0.07	0.00	0.01	20.67
rs3848363	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	16	370484	C	T	2920	-0.13	0.03	0.00	0.01	21.85
rs8081659	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	17	27213990	T	C	2920	0.13	0.03	0.00	0.01	20.59
rs6038366	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	20	6111569	G	A	2920	-0.13	0.03	0.00	0.01	21.10
rs5999348	CD127 on CD45RA- CD4 not Treg CD127 on	ebi-a-GCST90001923	22	34818466	T	C	2920	0.14	0.03	0.00	0.01	20.54
rs55872368	CD127 on CD28+ CD4+ CD127 on	ebi-a-GCST90001924	1	159176856	T	G	2920	-0.17	0.04	0.00	0.01	20.45
rs28680958	CD127 on CD28+ CD4+ CD127 on	ebi-a-GCST90001924	1	173848808	A	G	2920	0.19	0.03	0.00	0.01	33.23
rs12138848	CD127 on CD28+ CD4+ CD127 on	ebi-a-GCST90001924	1	210808177	C	T	2920	0.62	0.12	0.00	0.01	24.99
rs75904097	CD127 on CD28+ CD4+ CD127 on	ebi-a-GCST90001924	1	33089735	C	T	2920	0.44	0.10	0.00	0.01	20.53

rs12513323	CD127 on CD28+ CD4+	ebi-a-GCST90001924	4	185517125	A	G	2920	-0.27	0.05	0.00	0.01	24.74
rs2961796	CD127 on CD28+ CD4+	ebi-a-GCST90001924	5	3009195	T	C	2920	0.15	0.03	0.00	0.01	24.77
rs16899999	CD127 on CD28+ CD4+	ebi-a-GCST90001924	5	35886731	G	C	2920	-0.28	0.04	0.00	0.01	43.62
rs17773747	CD127 on CD28+ CD4+	ebi-a-GCST90001924	5	136145783	T	C	2920	1.26	0.28	0.00	0.01	19.77
rs17739576	CD127 on CD28+ CD4+	ebi-a-GCST90001924	6	73187327	C	G	2920	0.14	0.03	0.00	0.01	19.85
rs1551777	CD127 on CD28+ CD4+	ebi-a-GCST90001924	6	2690349	C	A	2920	-0.14	0.03	0.00	0.01	19.79
rs150735276	CD127 on CD28+ CD4+	ebi-a-GCST90001924	7	21186016	C	T	2920	1.22	0.26	0.00	0.01	21.38
rs17064297	CD127 on CD28+ CD4+	ebi-a-GCST90001924	8	1777571	G	A	2920	0.13	0.03	0.00	0.01	21.70
rs78763541	CD127 on CD28+ CD4+	ebi-a-GCST90001924	8	144226020	A	G	2920	-0.24	0.05	0.00	0.01	22.37
rs78061906	CD127 on CD28+ CD4+	ebi-a-GCST90001924	8	119499029	A	G	2920	-1.34	0.29	0.00	0.01	21.09
rs84125	CD127 on CD28+ CD4+	ebi-a-GCST90001924	8	40204262	A	C	2920	-0.13	0.03	0.00	0.01	19.78
rs72652037	CD127 on CD28+ CD4+	ebi-a-GCST90001924	8	71958635	C	T	2920	-0.29	0.06	0.00	0.01	20.96
rs149514573	CD127 on CD28+ CD4+	ebi-a-GCST90001924	13	84155288	A	T	2920	0.30	0.07	0.00	0.01	21.00
rs4426311	CD127 on CD28+ CD4+	ebi-a-GCST90001924	15	38704057	C	T	2920	-0.13	0.03	0.00	0.01	19.94
rs142123008	CD127 on CD28+ CD4+	ebi-a-GCST90001924	16	32639782	A	G	2920	1.81	0.40	0.00	0.01	19.97
rs1573734	CD127 on CD28+ CD4+	ebi-a-GCST90001924	16	423619	T	C	2920	-0.18	0.03	0.00	0.01	40.52
rs111717712	CD127 on CD28+ CD4+	ebi-a-GCST90001924	19	20758619	T	G	2920	-0.36	0.08	0.00	0.01	20.42
rs130970	CD127 on CD28+ CD4+	ebi-a-GCST90001924	22	34774585	A	C	2920	-0.13	0.03	0.00	0.01	20.92
rs72656535	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	1	28291321	T	C	2918	0.19	0.04	0.00	0.01	20.36
rs873041	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	1	29718378	T	C	2918	0.22	0.05	0.00	0.01	22.19
rs59577227	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	1	208733117	G	C	2918	0.41	0.09	0.00	0.01	19.71
rs56234206	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	2	198215995	A	T	2918	0.13	0.03	0.00	0.01	22.93
rs12995587	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	2	189302808	T	A	2918	-0.24	0.05	0.00	0.01	20.24
rs9873703	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	3	153109199	T	A	2918	0.66	0.15	0.00	0.01	20.23
rs76041591	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	3	71873670	C	G	2918	0.40	0.09	0.00	0.01	19.66
rs114486110	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	3	43667446	A	T	2918	0.78	0.17	0.00	0.01	20.81
rs4624569	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	3	175271277	G	A	2918	0.13	0.03	0.00	0.01	21.54
rs138908372	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	4	173906273	C	T	2918	0.34	0.07	0.00	0.01	23.06
rs75977566	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	4	26052897	A	T	2918	-0.46	0.10	0.00	0.01	20.49
rs1877237	CD28+ DN (CD4-CD8-)	ebi-a-GCST90001925	4	140625847	T	C	2918	0.18	0.04	0.00	0.01	20.30

rs7692704	CD127 on CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	4	118364292	T	C	2918	-0.14	0.03	0.00	0.01	20.07
rs1961426	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	5	35810561	T	C	2918	-0.13	0.03	0.00	0.01	23.00
rs117913408	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	6	102173117	G	A	2918	0.39	0.08	0.00	0.01	24.31
rs186008830	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	7	81170544	T	C	2918	-0.45	0.10	0.00	0.01	21.97
rs6964799	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	7	52158967	T	C	2918	-0.26	0.06	0.00	0.01	20.54
rs2688332	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	8	3880864	T	C	2918	-0.13	0.03	0.00	0.01	22.63
rs148451514	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	8	21213574	T	C	2918	-0.68	0.15	0.00	0.01	20.21
rs139832224	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	9	72035000	T	C	2918	-0.39	0.08	0.00	0.01	21.63
rs73183591	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	13	40745424	T	C	2918	-0.22	0.05	0.00	0.01	19.66
rs12900372	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	15	38673895	A	C	2918	-0.13	0.03	0.00	0.01	20.57
rs9806909	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	16	83933597	T	G	2918	-0.21	0.05	0.00	0.01	20.05
rs145432806	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	19	595812	G	C	2918	-0.25	0.06	0.00	0.01	19.92
rs187144484	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	19	22624919	G	A	2918	0.45	0.09	0.00	0.01	23.23
rs6038487	CD28+ DN (CD4-CD8-) CD127 on	ebi-a-GCST90001925	20	6407136	T	G	2918	0.13	0.03	0.00	0.01	21.48
rs80205330	CD127 on granulocyte	ebi-a-GCST90001926	2	133708302	A	G	2920	0.41	0.09	0.00	0.01	20.02
rs78526927	CD127 on granulocyte	ebi-a-GCST90001926	2	175370076	T	G	2920	0.39	0.08	0.00	0.01	26.03
rs3774298	CD127 on granulocyte	ebi-a-GCST90001926	3	187460099	A	G	2920	0.16	0.03	0.00	0.01	25.41
rs3857014	CD127 on granulocyte	ebi-a-GCST90001926	4	166362221	C	T	2920	-0.13	0.03	0.00	0.01	22.30
rs12659322	CD127 on granulocyte	ebi-a-GCST90001926	5	31925216	G	C	2920	-0.13	0.03	0.00	0.01	20.05
rs77648394	CD127 on granulocyte	ebi-a-GCST90001926	5	179719608	G	C	2920	0.20	0.04	0.00	0.01	20.58
rs915125	CD127 on granulocyte	ebi-a-GCST90001926	6	82463376	T	C	2920	0.13	0.03	0.00	0.01	22.27
rs73045828	CD127 on granulocyte	ebi-a-GCST90001926	6	169053049	C	T	2920	0.23	0.05	0.00	0.01	21.83
rs9376098	CD127 on granulocyte	ebi-a-GCST90001926	6	135499460	A	T	2920	-0.15	0.03	0.00	0.01	23.78
rs4272	CD127 on granulocyte	ebi-a-GCST90001926	7	92236829	G	A	2920	-0.14	0.03	0.00	0.01	19.76
rs78124306	CD127 on granulocyte	ebi-a-GCST90001926	7	22121992	T	G	2920	0.20	0.04	0.00	0.01	20.45
rs445	CD127 on granulocyte	ebi-a-GCST90001926	7	92408370	T	C	2920	0.32	0.03	0.00	0.03	85.55
rs62445273	CD127 on granulocyte	ebi-a-GCST90001926	7	21716643	T	C	2920	-0.15	0.03	0.00	0.01	19.89
rs4433170	CD127 on granulocyte	ebi-a-GCST90001926	8	6891971	G	C	2920	0.18	0.03	0.00	0.01	29.89
rs12675298	CD127 on granulocyte	ebi-a-GCST90001926	8	6828813	A	G	2920	-0.45	0.09	0.00	0.01	27.39
rs62546664	CD127 on granulocyte	ebi-a-GCST90001926	9	26584433	T	C	2920	-0.20	0.05	0.00	0.01	19.78

rs140819873	CD127 on granulocyte	ebi-a-GCST90001926	9	116014845	G	A	2920	-0.33	0.07	0.00	0.01	24.14
rs3824801	CD127 on granulocyte	ebi-a-GCST90001926	10	126356840	G	T	2920	0.15	0.03	0.00	0.01	26.61
rs74490964	CD127 on granulocyte	ebi-a-GCST90001926	12	89458555	C	G	2920	-0.35	0.07	0.00	0.01	23.42
rs959275	CD127 on granulocyte	ebi-a-GCST90001926	12	82430283	T	C	2920	-0.14	0.03	0.00	0.01	20.71
rs9519933	CD127 on granulocyte	ebi-a-GCST90001926	13	106715057	T	A	2920	-0.13	0.03	0.00	0.01	21.41
rs146130460	CD127 on granulocyte	ebi-a-GCST90001926	17	61576413	A	G	2920	-0.91	0.15	0.00	0.01	34.41
rs77771777	CD127 on granulocyte	ebi-a-GCST90001926	17	55927801	T	C	2920	-0.68	0.10	0.00	0.02	45.22
rs113425015	CD127 on granulocyte	ebi-a-GCST90001926	17	58951391	G	T	2920	-0.33	0.07	0.00	0.01	23.36
rs142587417	CD127 on granulocyte	ebi-a-GCST90001926	17	58777014	A	G	2920	-0.81	0.12	0.00	0.02	48.01
rs138284624	CD127 on granulocyte	ebi-a-GCST90001926	17	56385573	T	C	2920	-0.75	0.08	0.00	0.03	86.10
rs147173440	CD127 on granulocyte	ebi-a-GCST90001926	17	59945942	T	G	2920	-1.10	0.16	0.00	0.02	46.48
rs115426429	CD127 on granulocyte	ebi-a-GCST90001926	17	59341923	T	C	2920	-0.43	0.08	0.00	0.01	27.37
rs139132726	CD127 on granulocyte	ebi-a-GCST90001926	17	55643849	T	C	2920	-0.66	0.11	0.00	0.01	33.16
rs140712754	CD127 on granulocyte	ebi-a-GCST90001926	18	45108661	G	A	2920	-0.50	0.10	0.00	0.01	22.93
rs144728338	CD127 on granulocyte	ebi-a-GCST90001926	20	54118523	C	T	2920	-0.63	0.14	0.00	0.01	20.26
rs7533594	CD127 on CD8br	ebi-a-GCST90001927	1	205558402	G	T	2920	0.15	0.03	0.00	0.01	20.97
rs4925660	CD127 on CD8br	ebi-a-GCST90001927	1	247251150	T	C	2920	-0.21	0.05	0.00	0.01	20.19
rs72824431	CD127 on CD8br	ebi-a-GCST90001927	2	104853841	C	T	2920	-0.24	0.05	0.00	0.01	21.07
rs28869816	CD127 on CD8br	ebi-a-GCST90001927	2	116742575	T	G	2920	0.29	0.07	0.00	0.01	19.71
rs4668705	CD127 on CD8br	ebi-a-GCST90001927	2	11152503	A	G	2920	-0.12	0.03	0.00	0.01	21.52
rs7643142	CD127 on CD8br	ebi-a-GCST90001927	3	175109345	T	C	2920	0.26	0.05	0.00	0.01	22.81
rs10024641	CD127 on CD8br	ebi-a-GCST90001927	4	188051690	A	G	2920	0.11	0.03	0.00	0.01	19.77
rs1377028	CD127 on CD8br	ebi-a-GCST90001927	4	75738792	G	A	2920	-0.12	0.03	0.00	0.01	22.02
rs13165333	CD127 on CD8br	ebi-a-GCST90001927	5	82275571	T	C	2920	0.20	0.04	0.00	0.01	22.03
rs2009425	CD127 on CD8br	ebi-a-GCST90001927	5	174034800	T	C	2920	-0.32	0.07	0.00	0.01	19.58
rs457979	CD127 on CD8br	ebi-a-GCST90001927	5	2382270	A	G	2920	0.22	0.05	0.00	0.01	21.94
rs159608	CD127 on CD8br	ebi-a-GCST90001927	5	59174103	G	A	2920	0.12	0.03	0.00	0.01	19.57
rs3130901	CD127 on CD8br	ebi-a-GCST90001927	6	31419065	T	A	2920	-0.18	0.03	0.00	0.01	27.16
rs74785296	CD127 on CD8br	ebi-a-GCST90001927	7	156120842	A	C	2920	0.53	0.11	0.00	0.01	22.33
rs7801342	CD127 on CD8br	ebi-a-GCST90001927	7	31163003	C	T	2920	0.18	0.03	0.00	0.01	36.56
rs727397	CD127 on CD8br	ebi-a-GCST90001927	7	105951894	C	G	2920	-0.12	0.03	0.00	0.01	20.69
rs7813990	CD127 on CD8br	ebi-a-GCST90001927	8	37671140	T	C	2920	0.15	0.03	0.00	0.01	21.18
rs1911151	CD127 on CD8br	ebi-a-GCST90001927	11	60546636	C	T	2920	-0.20	0.04	0.00	0.01	25.21
rs117239506	CD127 on CD8br	ebi-a-GCST90001927	12	16351043	A	C	2920	1.83	0.39	0.00	0.01	21.69
rs9739743	CD127 on CD8br	ebi-a-GCST90001927	12	54596797	A	G	2920	0.13	0.03	0.00	0.01	24.15
rs73354288	CD127 on CD8br	ebi-a-GCST90001927	17	79157596	T	C	2920	-0.19	0.04	0.00	0.01	23.37
rs73561877	CD127 on CD8br	ebi-a-GCST90001927	19	6365399	C	G	2920	0.38	0.08	0.00	0.01	24.02

rs148460149	CD127 on CD8br	ebi-a-GCST90001927	20	50115542	A	G	2920	0.33	0.07	0.00	0.01	19.71
rs5770311	CD127 on CD8br	ebi-a-GCST90001927	22	49767656	G	A	2920	-0.12	0.03	0.00	0.01	20.21
rs5770659	CD127 on CD8br	ebi-a-GCST90001927	22	50083852	G	C	2920	0.13	0.03	0.00	0.01	21.71
rs541367304	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	1	198283058	A	G	2920	-1.60	0.30	0.00	0.01	28.60
rs147561645	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	2	21495577	A	G	2920	0.27	0.06	0.00	0.01	20.01
rs17822001	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	2	195873850	C	T	2920	-0.35	0.07	0.00	0.01	24.19
rs2319326	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	3	147385623	T	C	2920	-0.20	0.04	0.00	0.01	19.98
rs114103379	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	4	114954389	G	A	2920	0.24	0.05	0.00	0.01	21.13
rs116423144	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	5	174310054	A	G	2920	0.85	0.15	0.00	0.01	32.40
rs17605660	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	6	111492432	G	A	2920	-0.20	0.04	0.00	0.01	21.19
rs77111030	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	6	32023011	A	T	2920	0.48	0.11	0.00	0.01	20.54
rs139665786	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	6	21668701	C	G	2920	-0.45	0.10	0.00	0.01	20.66
rs117293308	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	11	43599281	A	G	2920	0.39	0.09	0.00	0.01	21.12
rs117562886	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	12	16449988	T	C	2920	1.97	0.44	0.00	0.01	19.70
rs8009540	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	14	20892947	A	G	2920	-0.26	0.06	0.00	0.01	20.90
rs77266206	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	15	24042401	T	A	2920	1.14	0.23	0.00	0.01	24.13
rs12597545	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	16	1394430	T	C	2920	-0.13	0.03	0.00	0.01	20.59
rs4968420	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	17	60353246	T	C	2920	-0.14	0.03	0.00	0.01	20.41
rs56062431	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	17	52131640	C	G	2920	0.32	0.07	0.00	0.01	19.64
rs11670885	CD28+ CD45RA- CD8br	ebi-a-GCST90001928	19	50552467	A	T	2920	0.25	0.05	0.00	0.01	21.43

rs7275441	CD127 on CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	21	18825905	C	G	2920	0.35	0.07	0.00	0.01	24.96
rs75934614	CD28+ CD45RA- CD8br CD127 on	ebi-a-GCST90001928	22	48129274	G	A	2920	0.56	0.12	0.00	0.01	20.64
rs4999658	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	2	117820115	C	T	2920	-0.13	0.03	0.00	0.01	20.48
rs68104921	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	2	41984318	G	C	2920	-0.14	0.03	0.00	0.01	24.63
rs191662454	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	2	74799096	T	C	2920	0.58	0.13	0.00	0.01	20.79
rs115564010	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	3	113178303	A	C	2920	0.48	0.10	0.00	0.01	23.05
rs1069981	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	3	64102768	G	A	2920	-0.17	0.04	0.00	0.01	20.03
rs9826381	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	3	72079577	A	G	2920	-0.16	0.04	0.00	0.01	19.56
rs66570838	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	5	35840724	A	T	2920	-0.32	0.04	0.00	0.02	58.28
rs3776565	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	5	36631653	C	T	2920	-0.17	0.04	0.00	0.01	20.40
rs112984211	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	6	32617889	T	G	2920	0.32	0.06	0.00	0.01	29.10
rs114609087	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	6	66170982	C	T	2920	-2.12	0.47	0.00	0.01	20.11
rs111837808	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	7	137927280	A	G	2920	0.26	0.06	0.00	0.01	19.93
rs148058371	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	9	5035205	C	G	2920	-0.43	0.09	0.00	0.01	24.27
rs10733856	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	10	71603177	A	G	2920	0.13	0.03	0.00	0.01	19.92
rs116867125	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	10	17033504	A	G	2920	0.35	0.08	0.00	0.01	19.67
rs9600216	CD28+ CD45RA+ CD8br CD127 on	ebi-a-GCST90001929	13	74575348	T	A	2920	-0.51	0.11	0.00	0.01	20.46
rs1424885	CD28+ CD45RA+ CD8br	ebi-a-GCST90001929	14	45250418	G	A	2920	0.18	0.04	0.00	0.01	20.33

rs2304993	CD127 on CD28+ CD45RA+	ebi-a-GCST90001929	15	79312330	A	G	2920	-0.17	0.04	0.00	0.01	21.36
rs117037628	CD8br CD127 on CD28+ CD45RA+	ebi-a-GCST90001929	16	423809	G	A	2920	-0.16	0.03	0.00	0.01	33.30
rs7219820	CD8br CD127 on CD28+ CD45RA+	ebi-a-GCST90001929	17	36908512	G	C	2920	-0.21	0.05	0.00	0.01	20.25
rs55767800	CD8br CD127 on CD28+ CD45RA+	ebi-a-GCST90001929	17	17674967	C	T	2920	-0.13	0.03	0.00	0.01	24.76
rs77766863	CD8br CD127 on CD28+ CD45RA+	ebi-a-GCST90001929	18	70193745	A	T	2920	-0.38	0.08	0.00	0.01	20.96
rs73364364	CD8br CD127 on CD28+ CD45RA+	ebi-a-GCST90001929	21	42236763	A	G	2920	0.29	0.06	0.00	0.01	20.37
rs62242696	CD8br CD127 on CD28+ CD45RA+	ebi-a-GCST90001929	21	18828524	G	A	2920	-0.30	0.07	0.00	0.01	20.82
rs72766093	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	1	241717927	T	C	2920	0.17	0.03	0.00	0.01	23.51
rs115849418	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	1	56800633	A	G	2920	1.50	0.32	0.00	0.01	22.01
rs12141053	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	1	28882908	G	A	2920	0.15	0.03	0.00	0.01	26.49
rs4668832	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	2	14665380	T	G	2920	0.13	0.03	0.00	0.01	21.45
rs145877418	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	2	10634848	T	C	2920	0.30	0.07	0.00	0.01	20.62
rs62166481	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	2	142337524	T	C	2920	-0.53	0.12	0.00	0.01	20.42
rs62246789	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	3	72493066	T	A	2920	0.25	0.05	0.00	0.01	23.18
rs7644746	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	3	183596184	C	T	2920	-0.14	0.03	0.00	0.01	23.31
rs9968551	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	4	84654761	T	A	2920	0.39	0.08	0.00	0.01	21.78
rs727397	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	7	105951894	C	G	2920	-0.13	0.03	0.00	0.01	20.80
rs78886869	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	7	106452071	A	G	2920	0.29	0.06	0.00	0.01	24.55
rs16939611	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	8	79036414	A	C	2920	-0.20	0.04	0.00	0.01	21.25
rs2762598	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	10	7251026	A	C	2920	-0.14	0.03	0.00	0.01	25.11
rs4760840	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	12	71279650	T	A	2920	0.13	0.03	0.00	0.01	19.95
rs117712600	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	15	29470184	T	C	2920	-0.41	0.08	0.00	0.01	23.73
rs6500257	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	16	49824897	A	G	2920	-0.13	0.03	0.00	0.01	20.40
rs8062396	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	16	88618795	A	T	2920	-0.16	0.03	0.00	0.01	33.58
rs1874014	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	16	84855516	C	A	2920	0.13	0.03	0.00	0.01	19.86
rs113302343	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	16	83299602	C	T	2920	0.17	0.04	0.00	0.01	19.87
rs56095010	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	16	3949935	G	T	2920	-0.13	0.03	0.00	0.01	20.18
rs218703	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	17	3750503	C	T	2920	-0.16	0.03	0.00	0.01	24.50
rs117467123	CD8br CD127 on CD28- CD8br	ebi-a-GCST90001930	19	16407691	A	G	2920	0.23	0.05	0.00	0.01	22.07
rs28680958	CD4+ CD127 on	ebi-a-GCST90001931	1	173848808	A	G	2920	0.17	0.03	0.00	0.01	27.06

rs12138848	CD127 on CD4+	ebi-a-GCST90001931	1	210808177	C	T	2920	0.55	0.12	0.00	0.01	19.87
rs12402082	CD127 on CD4+	ebi-a-GCST90001931	1	231966624	T	C	2920	0.26	0.06	0.00	0.01	21.22
rs930760	CD127 on CD4+	ebi-a-GCST90001931	2	20806336	T	C	2920	0.12	0.03	0.00	0.01	19.62
rs2671762	CD127 on CD4+	ebi-a-GCST90001931	3	5135111	C	T	2920	-0.19	0.04	0.00	0.01	20.12
rs12634099	CD127 on CD4+	ebi-a-GCST90001931	3	112869208	A	G	2920	0.16	0.03	0.00	0.01	22.47
rs12513323	CD127 on CD4+	ebi-a-GCST90001931	4	185517125	A	G	2920	-0.24	0.05	0.00	0.01	20.87
rs2961795	CD127 on CD4+	ebi-a-GCST90001931	5	3009377	A	C	2920	0.15	0.03	0.00	0.01	23.06
rs140742144	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	1	210874433	T	C	2920	0.57	0.13	0.00	0.01	20.04
rs6691053	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	1	173868955	T	C	2920	0.14	0.03	0.00	0.01	20.06
rs930760	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	2	20806336	T	C	2920	0.13	0.03	0.00	0.01	21.35
rs180717968	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	2	204124526	G	A	2920	0.45	0.09	0.00	0.01	23.57
rs6727096	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	2	161307677	T	A	2920	-0.16	0.04	0.00	0.01	21.28
rs115564010	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	3	113178303	A	C	2920	0.48	0.10	0.00	0.01	21.50
rs144125132	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	5	160293643	C	T	2920	0.47	0.10	0.00	0.01	20.00
rs11567754	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	5	35872190	A	T	2920	-0.30	0.04	0.00	0.02	47.09
rs138540869	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	5	62602530	T	C	2920	0.39	0.08	0.00	0.01	21.20
rs9271772	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	6	32594275	A	G	2920	0.26	0.04	0.00	0.02	54.24
rs6901175	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	6	32198527	A	G	2920	-0.18	0.03	0.00	0.01	28.07
rs3129891	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	6	32415080	A	G	2920	-0.24	0.03	0.00	0.02	47.72
rs10089520	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	8	11686089	C	T	2920	-0.18	0.04	0.00	0.01	20.47
rs7046475	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	9	21582326	C	T	2920	0.17	0.04	0.00	0.01	19.70
rs34285518	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	10	6136107	C	T	2920	-0.15	0.03	0.00	0.01	20.69
rs7115390	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	11	10757993	C	T	2920	0.18	0.04	0.00	0.01	20.19
rs2059578	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	11	60066799	C	T	2920	-0.39	0.09	0.00	0.01	20.37
rs67627362	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	12	63155497	G	A	2920	-0.20	0.04	0.00	0.01	20.16
rs6571878	CD45RA+ CD127 on CD4+	ebi-a-GCST90001932	14	39350523	C	T	2920	0.21	0.05	0.00	0.01	20.93
rs76683776	CD45RA+ CD4+	ebi-a-GCST90001932	16	20131662	C	T	2920	-0.83	0.19	0.00	0.01	19.61

rs1573735	CD127 on CD45RA+ CD4+	ebi-a-GCST90001932	16	423696	T	C	2920	-0.21	0.03	0.00	0.02	53.08
rs7264992	CD127 on CD45RA+ CD4+	ebi-a-GCST90001932	20	57814866	T	C	2920	-0.13	0.03	0.00	0.01	20.94
rs181741769	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	1	26999658	C	T	3435	1.23	0.27	0.00	0.01	20.43
rs139210967	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	1	157286941	G	A	3435	2.58	0.57	0.00	0.01	20.60
rs4669451	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	2	9898172	C	T	3435	0.14	0.03	0.00	0.01	23.37
rs35894198	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	2	9361836	A	G	3435	0.18	0.04	0.00	0.01	22.16
rs143987752	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	2	33587355	C	T	3435	-0.41	0.09	0.00	0.01	19.88
rs149326960	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	3	21012581	G	T	3435	-0.42	0.09	0.00	0.01	20.70
rs67403544	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	4	21653587	A	G	3435	0.46	0.10	0.00	0.01	22.25
rs16884012	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	5	10034219	T	C	3435	-1.60	0.34	0.00	0.01	21.63
rs9480540	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	6	151021074	G	A	3435	0.81	0.18	0.00	0.01	19.62
rs80026829	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	7	8618736	A	G	3435	1.02	0.23	0.00	0.01	19.79
rs181516190	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	7	35264731	A	T	3435	0.50	0.09	0.00	0.01	33.36
rs79062365	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	8	82262167	C	T	3435	0.46	0.10	0.00	0.01	22.19
rs61839660	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	10	6094697	T	C	3435	0.61	0.06	0.00	0.03	121.95
rs62626343	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	10	6128374	G	C	3435	0.14	0.03	0.00	0.01	19.99
rs10509573	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	10	91189221	C	T	3435	-0.13	0.03	0.00	0.01	20.04
rs116928928	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	11	32030595	C	T	3435	-0.33	0.07	0.00	0.01	25.54
rs4075635	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	11	28511643	G	A	3435	-0.12	0.03	0.00	0.01	20.41
rs118110714	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	12	16060925	A	G	3435	1.12	0.23	0.00	0.01	24.16
rs139194198	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	13	82921880	G	A	3435	0.50	0.11	0.00	0.01	19.66
rs175717	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	14	75985604	T	A	3435	-0.13	0.03	0.00	0.01	22.35
rs144239147	CD25 on CD45RA- CD4 not Treg	ebi-a-GCST90001933	17	48154668	A	G	3435	0.51	0.11	0.00	0.01	20.53
rs74553250	CD4 not Treg CD45RA- CD4 not Treg	ebi-a-GCST90001933	17	40063525	T	C	3435	-0.20	0.04	0.00	0.01	24.87

rs7406899	CD25 on CD45RA- CD4 not Treg CD25 on	ebi-a-GCST90001933	17	39766504	G	A	3435	0.20	0.04	0.00	0.01	24.82
rs145627854	CD45RA- CD4 not Treg CD25 on	ebi-a-GCST90001933	18	67524006	C	T	3435	0.84	0.18	0.00	0.01	20.57
rs1000411	CD45RA- CD4 not Treg CD25 on	ebi-a-GCST90001933	20	39634616	T	C	3435	0.13	0.03	0.00	0.01	20.92
rs4080481	CD45RA- CD4 not Treg CD25 on	ebi-a-GCST90001933	22	37905285	A	C	3435	0.13	0.03	0.00	0.01	25.08
rs74458586	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	1	167160690	G	A	3435	-0.55	0.12	0.00	0.01	22.81
rs145161741	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	1	245170523	T	C	3435	-1.09	0.25	0.00	0.01	19.71
rs1869339	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	2	75102130	G	A	3435	-0.77	0.17	0.00	0.01	21.58
rs75432369	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	2	134396058	G	A	3435	-0.39	0.09	0.00	0.01	20.10
rs55751874	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	3	143929156	A	C	3435	0.12	0.03	0.00	0.01	21.26
rs9838853	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	3	141930006	C	G	3435	-0.12	0.03	0.00	0.01	20.42
rs1385469	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	3	8390226	G	A	3435	0.15	0.03	0.00	0.01	20.01
rs35614472	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	7	18687542	T	A	3435	-1.61	0.34	0.00	0.01	22.56
rs9298702	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	9	14659034	C	T	3435	-0.12	0.03	0.00	0.01	20.41
rs34644690	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	9	137333688	G	A	3435	-0.28	0.06	0.00	0.01	20.39
rs16917989	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	9	101647469	C	A	3435	-0.16	0.04	0.00	0.01	20.35
rs10905719	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	10	6115171	A	G	3435	0.23	0.03	0.00	0.02	58.48
rs2279434	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	10	45955064	T	C	3435	0.26	0.06	0.00	0.01	20.31
rs116411520	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	10	91533071	A	G	3435	-0.35	0.07	0.00	0.01	22.50
rs79506783	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	16	85734699	C	A	3435	2.31	0.47	0.00	0.01	24.61
rs9921355	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	16	56571706	T	C	3435	0.11	0.02	0.00	0.01	20.70
rs62026958	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	16	12639025	C	G	3435	0.12	0.03	0.00	0.01	22.84
rs936056	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	17	73587784	G	A	3435	-0.13	0.03	0.00	0.01	24.19
rs34779614	CD45RA+ CD4 not Treg CD25 on	ebi-a-GCST90001934	17	43085415	T	C	3435	-0.22	0.05	0.00	0.01	20.66
rs494642	CD45RA+ CD4 not Treg	ebi-a-GCST90001934	19	5988263	T	C	3435	-0.17	0.04	0.00	0.01	19.77

rs1699228	CD25 on CD45RA+	ebi-a-GCST90001934	20	5846927	A	C	3435	0.12	0.03	0.00	0.01	19.71
rs73112886	CD25 on CD4 not Treg CD25 on CD45RA+	ebi-a-GCST90001934	20	44737407	A	T	3435	-0.23	0.05	0.00	0.01	21.96
rs6434720	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	2	195806052	G	A	3434	0.38	0.08	0.00	0.01	22.40
rs139265102	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	2	238325747	T	C	3434	-0.87	0.19	0.00	0.01	20.53
rs1506123	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	5	8180669	G	T	3434	0.12	0.03	0.00	0.01	22.69
rs209493	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	6	53183509	C	G	3434	-0.53	0.12	0.00	0.01	20.55
rs11968423	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	6	25422353	T	C	3434	0.18	0.04	0.00	0.01	24.74
rs71526028	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	7	23773150	A	G	3434	0.24	0.05	0.00	0.01	23.41
rs205775	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	7	130643318	T	C	3434	-0.12	0.03	0.00	0.01	19.79
rs113703605	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	9	136787946	A	G	3434	0.24	0.05	0.00	0.01	20.06
rs6584030	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	10	97566052	C	G	3434	-0.24	0.02	0.00	0.03	91.90
rs182193538	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	10	91754083	A	C	3434	0.44	0.09	0.00	0.01	22.23
rs7477011	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	10	6040594	A	G	3434	-0.11	0.03	0.00	0.01	19.89
rs7078614	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	10	6075831	T	G	3434	0.18	0.03	0.00	0.01	48.30
rs61960319	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	13	83537406	A	G	3434	0.52	0.12	0.00	0.01	20.46
rs17516976	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	15	96452800	A	T	3434	-0.12	0.03	0.00	0.01	21.52
rs75122374	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	16	1295355	G	C	3434	0.31	0.07	0.00	0.01	20.56
rs11861637	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	16	68656715	T	C	3434	0.32	0.07	0.00	0.01	22.47
rs1840456	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	18	11351562	C	A	3434	0.23	0.05	0.00	0.01	21.75
rs77535422	CD25 on CD39+ CD4 Treg	ebi-a-GCST90001935	20	59751404	C	A	3434	0.99	0.22	0.00	0.01	19.61
rs17602422	CD25 on CD4 Treg	ebi-a-GCST90001936	1	215125675	T	C	3435	-0.34	0.08	0.00	0.01	19.64
rs141518333	CD25 on CD4 Treg	ebi-a-GCST90001936	1	31011676	T	C	3435	1.77	0.36	0.00	0.01	23.51
rs80185999	CD25 on CD4 Treg	ebi-a-GCST90001936	2	178647768	T	C	3435	-0.52	0.11	0.00	0.01	22.66
rs7601164	CD25 on CD4 Treg	ebi-a-GCST90001936	2	14678648	C	T	3435	0.12	0.02	0.00	0.01	23.20
rs73178594	CD25 on CD4 Treg	ebi-a-GCST90001936	3	94912880	T	A	3435	0.14	0.03	0.00	0.01	20.28
rs115584720	CD25 on CD4 Treg	ebi-a-GCST90001936	4	189537163	C	T	3435	-0.62	0.14	0.00	0.01	19.63
rs115155204	CD25 on CD4 Treg	ebi-a-GCST90001936	4	91991072	T	C	3435	0.42	0.09	0.00	0.01	22.23

rs4109437	CD25 on CD4 Treg	ebi-a-GCST90001936	4	190769223	A	G	3435	-0.67	0.15	0.00	0.01	19.57
rs6939307	CD25 on CD4 Treg	ebi-a-GCST90001936	6	129838002	T	G	3435	-0.12	0.03	0.00	0.01	21.94
rs141933481	CD25 on CD4 Treg	ebi-a-GCST90001936	7	98045067	C	A	3435	-1.52	0.34	0.00	0.01	19.63
rs117223635	CD25 on CD4 Treg	ebi-a-GCST90001936	9	90443364	T	C	3435	-0.33	0.07	0.00	0.01	21.71
rs9422867	CD25 on CD4 Treg	ebi-a-GCST90001936	10	126960279	A	G	3435	0.18	0.04	0.00	0.01	22.13
rs80267112	CD25 on CD4 Treg	ebi-a-GCST90001936	10	66599595	A	C	3435	-3.29	0.72	0.00	0.01	20.64
rs11598494	CD25 on CD4 Treg	ebi-a-GCST90001936	10	6178941	C	T	3435	-0.11	0.03	0.00	0.01	20.45
rs12244238	CD25 on CD4 Treg	ebi-a-GCST90001936	10	6083239	G	A	3435	0.13	0.03	0.00	0.01	26.38
rs1601402	CD25 on CD4 Treg	ebi-a-GCST90001936	12	30968187	A	G	3435	-0.12	0.03	0.00	0.01	21.96
rs9596433	CD25 on CD4 Treg	ebi-a-GCST90001936	13	51639441	T	C	3435	-0.15	0.03	0.00	0.01	19.75
rs7324524	CD25 on CD4 Treg	ebi-a-GCST90001936	13	30357303	A	G	3435	-0.18	0.04	0.00	0.01	19.89
rs45556043	CD25 on CD4 Treg	ebi-a-GCST90001936	16	11019577	G	A	3435	0.27	0.06	0.00	0.01	21.96
rs4791980	CD25 on CD4 Treg	ebi-a-GCST90001936	17	10259440	C	T	3435	-0.11	0.02	0.00	0.01	20.18
rs75991976	CD25 on CD4 Treg	ebi-a-GCST90001936	18	70998473	T	C	3435	-0.25	0.05	0.00	0.01	22.45
rs148961261	CD25 on CD4 Treg	ebi-a-GCST90001936	20	51271541	G	A	3435	0.70	0.16	0.00	0.01	19.87
rs12692532	CD25 on resting Treg	ebi-a-GCST90001937	2	14682498	T	A	3434	0.11	0.03	0.00	0.01	19.78
rs4894809	CD25 on resting Treg	ebi-a-GCST90001937	3	171844658	T	C	3434	-0.28	0.06	0.00	0.01	20.07
rs71314568	CD25 on resting Treg	ebi-a-GCST90001937	3	140618909	A	T	3434	-0.29	0.07	0.00	0.01	20.23
rs2523882	CD25 on resting Treg	ebi-a-GCST90001937	6	31042217	T	C	3434	0.14	0.03	0.00	0.01	24.20
rs453375	CD25 on resting Treg	ebi-a-GCST90001937	6	29942487	A	G	3434	0.13	0.03	0.00	0.01	20.79
rs9265683	CD25 on resting Treg	ebi-a-GCST90001937	6	31301240	T	C	3434	-0.16	0.03	0.00	0.01	28.62
rs55877366	CD25 on resting Treg	ebi-a-GCST90001937	6	129834798	G	A	3434	-0.12	0.03	0.00	0.01	19.67
rs4871528	CD25 on resting Treg	ebi-a-GCST90001937	8	120712611	G	A	3434	-0.13	0.03	0.00	0.01	25.12
rs10819198	CD25 on resting Treg	ebi-a-GCST90001937	9	129478793	C	T	3434	-0.14	0.03	0.00	0.01	22.35
rs72780733	CD25 on resting Treg	ebi-a-GCST90001937	10	17607698	G	A	3434	1.99	0.45	0.00	0.01	19.59
rs147487472	CD25 on resting Treg	ebi-a-GCST90001937	10	6191376	A	C	3434	0.30	0.06	0.00	0.01	21.77
rs12722600	CD25 on resting Treg	ebi-a-GCST90001937	10	6054765	T	C	3434	0.32	0.05	0.00	0.01	41.88
rs10742701	CD25 on resting Treg	ebi-a-GCST90001937	11	44299909	G	C	3434	0.36	0.08	0.00	0.01	19.76
rs77326419	CD25 on resting Treg	ebi-a-GCST90001937	11	44372275	G	A	3434	-0.50	0.11	0.00	0.01	19.70
rs117486405	CD25 on resting Treg	ebi-a-GCST90001937	12	32082360	T	C	3434	-0.31	0.06	0.00	0.01	23.54
rs11631647	CD25 on resting Treg	ebi-a-GCST90001937	15	63256904	A	G	3434	0.13	0.03	0.00	0.01	24.03
rs75647790	CD25 on resting Treg	ebi-a-GCST90001937	16	48484960	A	G	3434	0.17	0.04	0.00	0.01	20.77
rs11654002	CD25 on resting Treg	ebi-a-GCST90001937	17	6630436	T	A	3434	0.17	0.04	0.00	0.01	20.06
rs8075955	CD25 on resting Treg	ebi-a-GCST90001937	17	9625559	C	T	3434	0.22	0.05	0.00	0.01	20.90
rs11661947	CD25 on resting Treg	ebi-a-GCST90001937	18	61892007	G	T	3434	0.11	0.03	0.00	0.01	19.65
rs12965398	CD25 on resting Treg	ebi-a-GCST90001937	18	33222414	T	G	3434	0.21	0.05	0.00	0.01	19.73

rs6681289	CD25 on CD39+ resting Treg CD25 on	ebi-a-GCST90001938	1	119421209	A	G	3118	-0.19	0.03	0.00	0.01	31.05
rs113948643	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	1	63568945	T	C	3118	-0.50	0.11	0.00	0.01	22.12
rs76433036	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	1	5264834	A	G	3118	-0.26	0.06	0.00	0.01	21.86
rs139668159	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	3	151248680	C	A	3118	-0.78	0.18	0.00	0.01	19.82
rs3095996	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	5	157370372	G	A	3118	0.12	0.03	0.00	0.01	19.86
rs72804108	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	5	134635583	T	C	3118	-0.49	0.11	0.00	0.01	21.31
rs6477716	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	9	112390854	G	A	3118	0.12	0.03	0.00	0.01	21.01
rs117447663	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	10	68626431	T	C	3118	-0.71	0.14	0.00	0.01	26.02
rs77328910	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	10	19334047	T	C	3118	0.24	0.05	0.00	0.01	20.03
rs540469	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	11	117346513	T	C	3118	-0.12	0.03	0.00	0.01	20.19
rs4758500	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	11	3454330	T	C	3118	0.19	0.04	0.00	0.01	23.18
rs62043866	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	16	81444190	T	C	3118	0.17	0.04	0.00	0.01	20.03
rs78950918	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	19	51786661	C	G	3118	0.63	0.14	0.00	0.01	21.08
rs28478882	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	19	49021549	T	C	3118	0.48	0.10	0.00	0.01	21.53
rs17184074	CD39+ resting Treg CD25 on	ebi-a-GCST90001938	20	37805444	A	G	3118	0.26	0.06	0.00	0.01	19.84
rs77993403	activated Treg CD25 on	ebi-a-GCST90001939	1	154316996	A	G	3435	0.32	0.07	0.00	0.01	20.38
rs113116201	activated Treg CD25 on	ebi-a-GCST90001939	1	198830942	C	T	3435	0.96	0.19	0.00	0.01	26.64
rs11578578	activated Treg CD25 on	ebi-a-GCST90001939	1	22917278	C	G	3435	-0.20	0.05	0.00	0.01	19.68
rs111871083	activated Treg CD25 on	ebi-a-GCST90001939	1	27823957	T	C	3435	0.16	0.03	0.00	0.01	21.01
rs112819427	activated Treg CD25 on	ebi-a-GCST90001939	2	38588385	G	A	3435	-0.18	0.04	0.00	0.01	21.59
rs16843666	activated Treg CD25 on	ebi-a-GCST90001939	2	159955595	T	C	3435	-0.18	0.04	0.00	0.01	20.37
rs145947216	activated Treg CD25 on	ebi-a-GCST90001939	2	38596674	T	C	3435	0.34	0.07	0.00	0.01	23.20
rs78257733	activated Treg CD25 on	ebi-a-GCST90001939	3	152588864	T	C	3435	-0.25	0.06	0.00	0.01	19.91
rs73215328	activated Treg	ebi-a-GCST90001939	4	29722257	A	G	3435	-0.16	0.03	0.00	0.01	23.63

rs76542581	CD25 on activated	ebi-a-GCST90001939	5	39250293	C	T	3435	-0.64	0.14	0.00	0.01	21.83
rs16903407	Treg CD25 on activated	ebi-a-GCST90001939	5	2165975	T	G	3435	0.45	0.10	0.00	0.01	20.09
rs6939307	Treg CD25 on activated	ebi-a-GCST90001939	6	129838002	T	G	3435	-0.13	0.03	0.00	0.01	22.88
rs114746521	Treg CD25 on activated	ebi-a-GCST90001939	6	33720059	A	G	3435	-0.49	0.11	0.00	0.01	20.84
rs1332159	Treg CD25 on activated	ebi-a-GCST90001939	9	25552600	G	T	3435	-0.13	0.03	0.00	0.01	24.37
rs7999263	Treg CD25 on activated	ebi-a-GCST90001939	13	104070037	T	C	3435	0.18	0.04	0.00	0.01	19.62
rs77205061	Treg CD25 on activated	ebi-a-GCST90001939	16	11133225	G	A	3435	0.24	0.05	0.00	0.01	20.79
rs117690070	Treg CD25 on activated	ebi-a-GCST90001939	18	11450416	T	A	3435	0.52	0.10	0.00	0.01	24.79
rs254283	Treg CD25 on activated	ebi-a-GCST90001939	19	54687334	G	C	3435	-0.11	0.03	0.00	0.01	19.86
rs76651564	CD39+ activated	ebi-a-GCST90001940	1	11771496	A	G	3435	-0.43	0.10	0.00	0.01	19.76
rs80100661	Treg CD25 on CD39+ activated	ebi-a-GCST90001940	2	200338980	A	G	3435	-0.20	0.04	0.00	0.01	20.73
rs615854	Treg CD25 on CD39+ activated	ebi-a-GCST90001940	3	61803428	C	T	3435	0.12	0.03	0.00	0.01	19.86
rs13106248	Treg CD25 on CD39+ activated	ebi-a-GCST90001940	4	5775106	G	A	3435	-1.53	0.31	0.00	0.01	23.97
rs11097003	Treg CD25 on CD39+ activated	ebi-a-GCST90001940	4	39796980	C	T	3435	0.12	0.03	0.00	0.01	22.44
rs73215328	Treg CD25 on CD39+ activated	ebi-a-GCST90001940	4	29722257	A	G	3435	-0.15	0.03	0.00	0.01	22.58
rs11968423	Treg CD25 on CD39+ activated	ebi-a-GCST90001940	6	25422353	T	C	3435	0.18	0.04	0.00	0.01	22.38
rs6584030	Treg CD25 on CD39+ activated	ebi-a-GCST90001940	10	97566052	C	G	3435	-0.23	0.03	0.00	0.02	87.79
rs7078614	Treg CD25 on CD39+ activated	ebi-a-GCST90001940	10	6075831	T	G	3435	0.17	0.03	0.00	0.01	42.13
rs117086655	Treg CD25 on CD39+ activated	ebi-a-GCST90001940	13	114821897	A	G	3435	0.30	0.06	0.00	0.01	21.09
rs145139270	Treg CD25 on CD39+ activated	ebi-a-GCST90001940	15	100841329	C	T	3435	0.38	0.09	0.00	0.01	19.69

rs62065216	CD25 on CD39+ activated	ebi-a-GCST90001940	17	38218773	A	G	3435	0.14	0.03	0.00	0.01	22.42
rs73154186	Treg CD25 on CD39+ activated	ebi-a-GCST90001940	22	26421469	A	G	3435	0.47	0.10	0.00	0.01	22.59
rs114116419	Treg CD25 on secreting	ebi-a-GCST90001941	1	24521634	C	T	3435	-0.45	0.10	0.00	0.01	21.89
rs113116201	CD25 on secreting	ebi-a-GCST90001941	1	198830942	C	T	3435	1.21	0.19	0.00	0.01	42.44
rs141518333	CD25 on secreting	ebi-a-GCST90001941	1	31011676	T	C	3435	1.64	0.37	0.00	0.01	19.79
rs76863805	CD25 on secreting	ebi-a-GCST90001941	1	226932737	G	C	3435	1.82	0.39	0.00	0.01	21.27
rs113465498	CD25 on secreting	ebi-a-GCST90001941	1	59360338	A	T	3435	0.15	0.03	0.00	0.01	27.21
rs12692532	CD25 on secreting	ebi-a-GCST90001941	2	14682498	T	A	3435	0.12	0.03	0.00	0.01	22.98
rs145947216	CD25 on secreting	ebi-a-GCST90001941	2	38596674	T	C	3435	0.34	0.07	0.00	0.01	22.19
rs16843666	CD25 on secreting	ebi-a-GCST90001941	2	159955595	T	C	3435	-0.20	0.04	0.00	0.01	24.50
rs59279177	CD25 on secreting	ebi-a-GCST90001941	6	129842380	G	C	3435	-0.13	0.03	0.00	0.01	23.05
rs148887938	CD25 on secreting	ebi-a-GCST90001941	7	131793986	A	G	3435	-0.49	0.11	0.00	0.01	20.14
rs113165806	CD25 on secreting	ebi-a-GCST90001941	7	96426791	A	C	3435	0.18	0.04	0.00	0.01	23.48
rs7809749	CD25 on secreting	ebi-a-GCST90001941	7	152731084	T	G	3435	-0.15	0.03	0.00	0.01	24.03
rs4747846	CD25 on secreting	ebi-a-GCST90001941	10	6074451	C	G	3435	0.16	0.03	0.00	0.01	38.50
rs9596433	CD25 on secreting	ebi-a-GCST90001941	13	51639441	T	C	3435	-0.16	0.03	0.00	0.01	19.77
rs78677147	CD25 on secreting	ebi-a-GCST90001941	18	61967509	A	G	3435	-0.29	0.06	0.00	0.01	22.12
rs111399540	CD25 on secreting	ebi-a-GCST90001941	18	9573841	C	T	3435	3.15	0.70	0.00	0.01	20.38
rs113116201	CD25 on	ebi-a-GCST90001942	1	198830942	C	T	3435	1.19	0.19	0.00	0.01	40.84
rs10489950	CD39+ secreting	ebi-a-GCST90001942	1	78842265	T	C	3435	-0.74	0.16	0.00	0.01	20.88
rs7366082	CD39+ secreting	ebi-a-GCST90001942	1	22048891	G	C	3435	-0.11	0.03	0.00	0.01	20.38
rs113465498	CD25 on	ebi-a-GCST90001942	1	59360338	A	T	3435	0.16	0.03	0.00	0.01	29.37
rs34645541	CD39+ secreting	ebi-a-GCST90001942	1	195875605	A	C	3435	0.60	0.14	0.00	0.01	19.70
rs114116419	CD25 on	ebi-a-GCST90001942	1	24521634	C	T	3435	-0.47	0.10	0.00	0.01	23.81
rs34394397	CD39+ secreting	ebi-a-GCST90001942	4	92182072	C	A	3435	-0.11	0.03	0.00	0.01	19.87
rs141181706	CD25 on	ebi-a-GCST90001942	6	153211456	T	C	3435	-0.61	0.14	0.00	0.01	20.19
rs1900955	CD39+ secreting	ebi-a-GCST90001942	7	96427656	G	T	3435	-0.14	0.03	0.00	0.01	20.17
rs79795219	CD25 on	ebi-a-GCST90001942	7	70613403	G	C	3435	-2.18	0.47	0.00	0.01	21.75
rs7796815	CD39+ secreting	ebi-a-GCST90001942	7	152731524	G	T	3435	-0.17	0.03	0.00	0.01	24.53

rs73554143	CD25 on CD39+ secreting CD25 on	ebi-a-GCST90001942	9	137270712	C	G	3435	0.75	0.16	0.00	0.01	20.78
rs4747846	CD39+ secreting CD25 on	ebi-a-GCST90001942	10	6074451	C	G	3435	0.14	0.03	0.00	0.01	31.09
rs80267112	CD39+ secreting CD25 on	ebi-a-GCST90001942	10	66599595	A	C	3435	-3.40	0.73	0.00	0.01	21.53
rs1871898	CD39+ secreting CD25 on	ebi-a-GCST90001942	12	129849900	G	T	3435	-0.12	0.03	0.00	0.01	20.42
rs4982176	CD39+ secreting CD25 on	ebi-a-GCST90001942	14	34867304	T	C	3435	0.19	0.04	0.00	0.01	23.03
rs61005827	CD39+ secreting CD25 on	ebi-a-GCST90001942	17	43122065	C	A	3435	-0.24	0.05	0.00	0.01	20.56
rs75991976	CD39+ secreting CD25 on	ebi-a-GCST90001942	18	70998473	T	C	3435	-0.27	0.05	0.00	0.01	26.36
rs254283	CD39+ secreting CD25 on	ebi-a-GCST90001942	19	54687334	G	C	3435	-0.12	0.03	0.00	0.01	23.76
rs7265470	CD39+ secreting CD25 on	ebi-a-GCST90001942	20	1478662	G	C	3435	-0.18	0.04	0.00	0.01	23.45
rs141518333	activated & secreting CD25 on	ebi-a-GCST90001943	1	31011676	T	C	3435	1.81	0.37	0.00	0.01	24.64
rs17602422	activated & secreting CD25 on	ebi-a-GCST90001943	1	215125675	T	C	3435	-0.36	0.08	0.00	0.01	21.74
rs76863805	activated & secreting CD25 on	ebi-a-GCST90001943	1	226932737	G	C	3435	1.79	0.39	0.00	0.01	21.19
rs113116201	activated & secreting CD25 on	ebi-a-GCST90001943	1	198830942	C	T	3435	1.07	0.18	0.00	0.01	33.45
rs80185999	activated & secreting CD25 on	ebi-a-GCST90001943	2	178647768	T	C	3435	-0.53	0.11	0.00	0.01	23.03
rs115584720	activated & secreting CD25 on	ebi-a-GCST90001943	4	189537163	C	T	3435	-0.64	0.14	0.00	0.01	20.81
rs78090485	activated & secreting CD25 on	ebi-a-GCST90001943	4	86292367	T	C	3435	0.24	0.05	0.00	0.01	19.77
rs115155204	activated & secreting CD25 on	ebi-a-GCST90001943	4	91991072	T	C	3435	0.42	0.09	0.00	0.01	22.00
rs4109437	activated & secreting CD25 on	ebi-a-GCST90001943	4	190769223	A	G	3435	-0.68	0.15	0.00	0.01	20.40
rs35769904	activated & secreting CD25 on	ebi-a-GCST90001943	5	6778750	T	G	3435	0.68	0.15	0.00	0.01	20.13
rs58024	activated & secreting CD25 on	ebi-a-GCST90001943	9	20317330	C	T	3435	-0.12	0.03	0.00	0.01	19.78
rs4747846	activated & secreting CD25 on	ebi-a-GCST90001943	10	6074451	C	G	3435	0.12	0.03	0.00	0.01	22.07
rs80267112	activated & secreting CD25 on	ebi-a-GCST90001943	10	66599595	A	C	3435	-3.23	0.73	0.00	0.01	19.88
rs927891	activated & secreting CD25 on	ebi-a-GCST90001943	10	126959090	A	G	3435	0.18	0.04	0.00	0.01	23.48
rs76076322	activated & secreting	ebi-a-GCST90001943	12	12036763	C	T	3435	-0.59	0.13	0.00	0.01	20.90

rs1601402	CD25 on activated & secreting CD25 on	ebi-a-GCST90001943	12	30968187	A	G	3435	-0.11	0.03	0.00	0.01	19.94
rs9596433	activated & secreting CD25 on	ebi-a-GCST90001943	13	51639441	T	C	3435	-0.16	0.03	0.00	0.01	21.25
rs140682448	activated & secreting CD25 on	ebi-a-GCST90001943	15	38957925	G	A	3435	-0.30	0.07	0.00	0.01	20.24
rs45556043	activated & secreting CD25 on	ebi-a-GCST90001943	16	11019577	G	A	3435	0.28	0.06	0.00	0.01	23.04
rs75991976	activated & secreting CD25 on	ebi-a-GCST90001943	18	70998473	T	C	3435	-0.26	0.05	0.00	0.01	24.54
rs148961261	activated & secreting CD123 on	ebi-a-GCST90001943	20	51271541	G	A	3435	0.71	0.16	0.00	0.01	20.47
rs79213920	plasmacytoid DC CD123 on	ebi-a-GCST90001944	1	225471349	A	G	2872	-2.21	0.48	0.00	0.01	21.26
rs149848284	plasmacytoid DC CD123 on	ebi-a-GCST90001944	2	176302664	T	C	2872	-2.50	0.56	0.00	0.01	20.16
rs75317870	plasmacytoid DC CD123 on	ebi-a-GCST90001944	2	141073584	A	G	2872	0.55	0.12	0.00	0.01	20.09
rs2324617	plasmacytoid DC CD123 on	ebi-a-GCST90001944	3	76493619	A	G	2872	-0.15	0.03	0.00	0.01	27.47
rs3119997	plasmacytoid DC CD123 on	ebi-a-GCST90001944	3	175496605	G	C	2872	0.15	0.03	0.00	0.01	21.56
rs7658518	plasmacytoid DC CD123 on	ebi-a-GCST90001944	4	84160279	A	G	2872	-0.30	0.03	0.00	0.03	99.47
rs17063892	plasmacytoid DC CD123 on	ebi-a-GCST90001944	5	174168279	C	T	2872	0.22	0.05	0.00	0.01	20.29
rs76945221	plasmacytoid DC CD123 on	ebi-a-GCST90001944	5	125054477	G	A	2872	1.55	0.34	0.00	0.01	20.95
rs10485052	plasmacytoid DC CD123 on	ebi-a-GCST90001944	6	48165228	G	C	2872	-0.17	0.04	0.00	0.01	20.14
rs62447171	plasmacytoid DC CD123 on	ebi-a-GCST90001944	7	50309890	A	G	2872	-0.22	0.03	0.00	0.01	43.61
rs78797637	plasmacytoid DC CD123 on	ebi-a-GCST90001944	7	139644484	T	C	2872	-3.85	0.86	0.00	0.01	20.17
rs73147828	plasmacytoid DC CD123 on	ebi-a-GCST90001944	7	98434427	T	C	2872	-2.34	0.52	0.00	0.01	19.85
rs147712748	plasmacytoid DC CD123 on	ebi-a-GCST90001944	8	5010714	A	G	2872	-1.49	0.33	0.00	0.01	20.03
rs4609257	plasmacytoid DC CD123 on	ebi-a-GCST90001944	9	78552389	C	T	2872	0.13	0.03	0.00	0.01	19.94
rs7099805	plasmacytoid DC CD123 on	ebi-a-GCST90001944	10	97235286	C	T	2872	-0.15	0.03	0.00	0.01	19.69
rs7334194	plasmacytoid DC CD123 on	ebi-a-GCST90001944	13	106834880	T	C	2872	-0.14	0.03	0.00	0.01	19.66
rs117840260	plasmacytoid DC CD123 on	ebi-a-GCST90001944	15	71910865	T	C	2872	1.09	0.24	0.00	0.01	21.02
rs148659293	plasmacytoid DC	ebi-a-GCST90001944	17	79284358	T	C	2872	0.40	0.08	0.00	0.01	24.88

rs79213920	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	1	225471349	A	G	2872	-2.20	0.48	0.00	0.01	21.25
rs75317870	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	2	141073584	A	G	2872	0.56	0.12	0.00	0.01	20.12
rs149848284	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	2	176302664	T	C	2872	-2.50	0.56	0.00	0.01	20.08
rs3119997	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	3	175496605	G	C	2872	0.15	0.03	0.00	0.01	21.54
rs2324617	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	3	76493619	A	G	2872	-0.15	0.03	0.00	0.01	27.79
rs7658518	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	4	84160279	A	G	2872	-0.30	0.03	0.00	0.03	97.07
rs76945221	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	5	125054477	G	A	2872	1.55	0.34	0.00	0.01	20.98
rs17063892	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	5	174168279	C	T	2872	0.22	0.05	0.00	0.01	20.31
rs10485052	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	6	48165228	G	C	2872	-0.17	0.04	0.00	0.01	20.03
rs62447171	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	7	50309890	A	G	2872	-0.22	0.03	0.00	0.01	43.30
rs73147828	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	7	98434427	T	C	2872	-2.34	0.52	0.00	0.01	19.97
rs78797637	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	7	139644484	T	C	2872	-3.85	0.86	0.00	0.01	20.19
rs147712748	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	8	5010714	A	G	2872	-1.49	0.33	0.00	0.01	20.06
rs4609257	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	9	78552389	C	T	2872	0.13	0.03	0.00	0.01	20.09
rs7099805	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	10	97235286	C	T	2872	-0.15	0.03	0.00	0.01	19.64
rs7334194	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	13	106834880	T	C	2872	-0.14	0.03	0.00	0.01	19.79
rs117840260	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	15	71910865	T	C	2872	1.10	0.24	0.00	0.01	21.30
rs148659293	CD123 on CD62L+ plasmacytoid DC	ebi-a-GCST90001945	17	79284358	T	C	2872	0.40	0.08	0.00	0.01	25.04

rs113378129	CD33 on CD14+ monocvte CD33 on	ebi-a-GCST90001946	2	72403927	C	G	1634	-0.28	0.06	0.00	0.01	20.29
rs10164761	CD14+ monocvte CD33 on	ebi-a-GCST90001946	2	220066209	T	C	1634	0.18	0.04	0.00	0.01	24.32
rs9858561	CD14+ monocvte CD33 on	ebi-a-GCST90001946	3	120507751	C	T	1634	0.39	0.09	0.00	0.01	20.41
rs2242310	CD14+ monocvte CD33 on	ebi-a-GCST90001946	4	53824071	T	C	1634	0.16	0.04	0.00	0.01	20.08
rs11741119	CD14+ monocvte CD33 on	ebi-a-GCST90001946	5	773420	A	C	1634	-0.24	0.05	0.00	0.01	20.88
rs11755998	CD14+ monocvte CD33 on	ebi-a-GCST90001946	6	82463790	T	G	1634	0.40	0.09	0.00	0.01	20.66
rs78886656	CD14+ monocvte CD33 on	ebi-a-GCST90001946	7	99777245	A	C	1634	0.45	0.10	0.00	0.01	21.33
rs12337816	CD14+ monocvte CD33 on	ebi-a-GCST90001946	9	117125236	C	T	1634	0.23	0.05	0.00	0.01	20.75
rs7047105	CD14+ monocvte CD33 on	ebi-a-GCST90001946	9	105951980	G	A	1634	-0.17	0.04	0.00	0.01	21.62
rs183353458	CD14+ monocvte CD33 on	ebi-a-GCST90001946	10	20005831	A	C	1634	1.14	0.25	0.00	0.01	20.53
rs138138479	CD14+ monocvte CD33 on	ebi-a-GCST90001946	10	22339808	T	G	1634	0.85	0.17	0.00	0.01	24.30
rs114090793	CD14+ monocvte CD33 on	ebi-a-GCST90001946	10	132935005	A	C	1634	0.36	0.08	0.00	0.01	20.16
rs75216873	CD14+ monocvte CD33 on	ebi-a-GCST90001946	14	53742598	G	A	1634	-0.35	0.07	0.00	0.01	22.10
rs139876813	CD14+ monocvte CD33 on	ebi-a-GCST90001946	17	2689271	T	C	1634	-0.27	0.06	0.00	0.01	23.49
rs78949787	CD14+ monocvte CD33 on	ebi-a-GCST90001946	19	51591138	T	C	1634	0.28	0.04	0.00	0.04	61.87
rs7351079	CD14+ monocvte CD33 on	ebi-a-GCST90001946	19	51574038	G	A	1634	-0.40	0.04	0.00	0.06	99.58
rs17828251	CD14+ monocvte CD33 on	ebi-a-GCST90001946	19	2553602	C	T	1634	0.31	0.07	0.00	0.01	19.82
rs58483275	CD14+ monocvte CD33 on	ebi-a-GCST90001946	19	51868443	T	C	1634	0.44	0.07	0.00	0.02	37.06
rs11882720	CD14+ monocvte CD33 on	ebi-a-GCST90001946	19	52897142	G	T	1634	-0.48	0.07	0.00	0.03	48.89
rs3865444	CD14+ monocvte CD33 on	ebi-a-GCST90001946	19	51727962	A	C	1634	-1.14	0.03	0.00	0.41	1143.51
rs558625031	CD14+ monocvte CD33 on	ebi-a-GCST90001946	19	51858911	A	G	1634	-0.63	0.08	0.00	0.04	59.91
rs4802858	CD14+ monocvte CD33 on	ebi-a-GCST90001946	19	52253150	C	T	1634	-0.20	0.04	0.00	0.02	31.42
rs3911857	CD14+ monocvte CD33 on	ebi-a-GCST90001946	20	58100977	C	T	1634	-0.16	0.04	0.00	0.01	20.17
rs6679331	CD33br HLA DR+ CD14dim	ebi-a-GCST90001947	1	244420967	A	C	1577	-0.62	0.13	0.00	0.01	23.18

rs2362605	CD33 on CD33br HLA DR+	ebi-a-GCST90001947	3	190480177	A	G	1577	-0.22	0.04	0.00	0.01	23.24
rs1868503	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	3	54426911	C	T	1577	-0.26	0.06	0.00	0.01	20.80
rs77738348	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	4	97655232	G	T	1577	-0.36	0.08	0.00	0.01	21.18
rs77011252	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	5	159069094	T	C	1577	-0.71	0.16	0.00	0.01	19.82
rs13181441	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	5	6869027	A	G	1577	-0.55	0.12	0.00	0.01	20.09
rs6892757	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	5	743878	G	T	1577	-0.27	0.06	0.00	0.01	21.22
rs72957739	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	6	115952566	A	T	1577	0.39	0.09	0.00	0.01	20.66
rs149970449	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	7	33577760	G	T	1577	-1.56	0.35	0.00	0.01	19.81
rs1622346	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	9	98494874	A	G	1577	-0.17	0.04	0.00	0.01	19.88
rs7047105	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	9	105951980	G	A	1577	-0.17	0.04	0.00	0.01	20.20
rs114090793	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	10	132935005	A	C	1577	0.36	0.08	0.00	0.01	20.00
rs111918250	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	10	21637249	C	A	1577	0.86	0.19	0.00	0.01	21.30
rs75216873	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	14	53742598	G	A	1577	-0.35	0.08	0.00	0.01	20.62
rs4442789	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	15	98373329	T	C	1577	0.22	0.05	0.00	0.01	20.69
rs11073171	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	15	36675994	A	G	1577	-0.17	0.04	0.00	0.01	21.53
rs140051672	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	16	86460135	A	G	1577	-1.95	0.43	0.00	0.01	20.83
rs139876813	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	17	2689271	T	C	1577	-0.29	0.06	0.00	0.02	24.06
rs11078779	CD14dim CD33br HLA DR+	ebi-a-GCST90001947	17	8952193	G	A	1577	0.20	0.04	0.00	0.02	24.91

rs1397071	CD33 on CD33br HLA DR+	ebi-a-GCST90001947	18	68477432	A	G	1577	-0.55	0.11	0.00	0.01	22.94
rs558625031	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	19	51858911	A	G	1577	-0.71	0.09	0.00	0.04	70.35
rs7351079	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	19	51574038	G	A	1577	-0.33	0.04	0.00	0.04	59.21
rs78949787	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	19	51591138	T	C	1577	0.29	0.04	0.00	0.04	60.15
rs3865444	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	19	51727962	A	C	1577	-1.21	0.04	0.00	0.41	1101.82
rs58301181	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	19	52097261	G	C	1577	-0.43	0.07	0.00	0.02	39.96
rs73051934	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	19	48582916	G	A	1577	-0.55	0.11	0.00	0.02	24.04
rs11907700	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	20	52417816	G	A	1577	0.29	0.06	0.00	0.01	20.19
rs2849905	CD14dim CD33 on CD33br HLA DR+	ebi-a-GCST90001947	21	18957035	C	G	1577	-0.18	0.04	0.00	0.01	23.76
rs1801274	CD33dim HLA DR+	ebi-a-GCST90001948	1	161479745	G	A	1633	-0.26	0.04	0.00	0.03	44.22
rs13004897	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	2	143238505	A	G	1633	0.42	0.08	0.00	0.01	24.09
rs11720960	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	3	123957942	C	T	1633	-0.26	0.06	0.00	0.01	20.14
rs9461212	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	6	25783622	T	C	1633	0.90	0.20	0.00	0.01	19.74
rs9493075	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	6	132038487	A	G	1633	-0.40	0.08	0.00	0.01	24.28
rs10953963	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	7	122553227	G	A	1633	0.16	0.04	0.00	0.01	19.84
rs113460642	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	8	66569270	T	C	1633	0.32	0.07	0.00	0.01	19.85
rs10869456	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	9	77499330	G	A	1633	-0.26	0.05	0.00	0.01	21.93
rs7047105	CD11b+ CD33dim HLA DR+	ebi-a-GCST90001948	9	105951980	G	A	1633	-0.17	0.04	0.00	0.01	21.04

rs12337816	CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	9	117125236	C	T	1633	0.24	0.05	0.00	0.01	22.58
rs114090793	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	10	132935005	A	C	1633	0.35	0.08	0.00	0.01	20.05
rs75216873	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	14	53742598	G	A	1633	-0.35	0.07	0.00	0.01	22.89
rs139876813	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	17	2689271	T	C	1633	-0.27	0.06	0.00	0.01	22.88
rs138564050	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	18	2873692	G	A	1633	-0.27	0.05	0.00	0.01	23.66
rs11882720	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	19	52897142	G	T	1633	-0.45	0.07	0.00	0.03	42.91
rs78949787	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	19	51591138	T	C	1633	0.29	0.04	0.00	0.04	66.76
rs3865444	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	19	51727962	A	C	1633	-1.14	0.03	0.00	0.41	1149.09
rs558625031	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	19	51858911	A	G	1633	-0.68	0.08	0.00	0.04	68.95
rs58483275	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	19	51868443	T	C	1633	0.49	0.07	0.00	0.03	47.92
rs4802858	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	19	52253150	C	T	1633	-0.21	0.04	0.00	0.02	32.57
rs7351079	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	19	51574038	G	A	1633	-0.39	0.04	0.00	0.05	94.70
rs17828251	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	19	2553602	C	T	1633	0.32	0.07	0.00	0.01	21.23
rs112807165	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	20	38092873	G	A	1633	0.47	0.11	0.00	0.01	19.82
rs6100482	CD11b+ CD33 on CD33dim HLA DR+	ebi-a-GCST90001948	20	58103645	G	A	1633	-0.19	0.04	0.00	0.01	21.74
rs1801274	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	1	161479745	G	A	1634	-0.26	0.04	0.00	0.03	45.74
rs11720960	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	3	123957942	C	T	1634	-0.26	0.06	0.00	0.01	20.98
rs10033650	CD11b- CD33dim HLA DR+	ebi-a-GCST90001949	4	53954014	T	G	1634	0.27	0.06	0.00	0.01	23.16

rs187981347	CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	5	172080662	T	A	1634	-0.50	0.11	0.00	0.01	22.59
rs9493075	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	6	132038487	A	G	1634	-0.39	0.08	0.00	0.01	23.74
rs7798098	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	7	36494338	T	C	1634	0.25	0.05	0.00	0.01	20.19
rs113460642	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	8	66569270	T	C	1634	0.32	0.07	0.00	0.01	19.61
rs10869456	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	9	77499330	G	A	1634	-0.25	0.05	0.00	0.01	21.42
rs35305059	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	12	128658240	G	A	1634	0.16	0.04	0.00	0.01	20.71
rs75216873	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	14	53742598	G	A	1634	-0.35	0.07	0.00	0.01	21.80
rs4442789	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	15	98373329	T	C	1634	0.21	0.05	0.00	0.01	20.42
rs139876813	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	17	2689271	T	C	1634	-0.28	0.06	0.00	0.02	25.12
rs138564050	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	18	2873692	G	A	1634	-0.25	0.05	0.00	0.01	20.57
rs73051934	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	19	48582916	G	A	1634	-0.61	0.11	0.00	0.02	33.64
rs58301181	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	19	52097261	G	C	1634	-0.41	0.06	0.00	0.02	41.12
rs7351079	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	19	51574038	G	A	1634	-0.38	0.04	0.00	0.05	92.03
rs3865444	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	19	51727962	A	C	1634	-1.12	0.03	0.00	0.40	1086.97
rs76647540	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	19	51088199	T	A	1634	-0.24	0.05	0.00	0.01	20.64
rs558625031	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	19	51858911	A	G	1634	-0.70	0.08	0.00	0.04	73.73
rs4802858	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	19	52253150	C	T	1634	-0.19	0.04	0.00	0.02	27.19
rs78949787	CD11b- CD33dim HLA DR+	ebi-a-GCST90001949	19	51591138	T	C	1634	0.30	0.04	0.00	0.04	69.80

rs6100482	CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	20	58103645	G	A	1634	-0.20	0.04	0.00	0.02	25.31
rs112807165	CD11b- CD33 on CD33dim HLA DR+	ebi-a-GCST90001949	20	38092873	G	A	1634	0.49	0.11	0.00	0.01	21.32
rs2243196	CD11b- CD33 on Gr MDSC	ebi-a-GCST90001950	1	207011019	A	C	1244	-0.73	0.16	0.00	0.02	22.33
rs138913343	CD33 on Gr MDSC	ebi-a-GCST90001950	2	109128545	A	G	1244	-0.84	0.19	0.00	0.02	20.64
rs60467414	CD33 on Gr MDSC	ebi-a-GCST90001950	4	163340178	T	A	1244	-0.25	0.06	0.00	0.02	20.13
rs4148886	CD33 on Gr MDSC	ebi-a-GCST90001950	4	100064649	C	T	1244	0.24	0.05	0.00	0.02	19.93
rs7729727	CD33 on Gr MDSC	ebi-a-GCST90001950	5	73692240	T	C	1244	-0.31	0.07	0.00	0.02	20.64
rs74725916	CD33 on Gr MDSC	ebi-a-GCST90001950	6	116418776	C	T	1244	0.43	0.09	0.00	0.02	20.92
rs11762203	CD33 on Gr MDSC	ebi-a-GCST90001950	7	120912956	T	C	1244	0.62	0.13	0.00	0.02	21.35
rs149890580	CD33 on Gr MDSC	ebi-a-GCST90001950	9	123280236	C	T	1244	0.90	0.20	0.00	0.02	19.69
rs10759715	CD33 on Gr MDSC	ebi-a-GCST90001950	9	117277295	T	C	1244	-0.34	0.07	0.00	0.02	26.05
rs72833791	CD33 on Gr MDSC	ebi-a-GCST90001950	10	115406173	A	G	1244	-0.99	0.22	0.00	0.02	19.95
rs1164675	CD33 on Gr MDSC	ebi-a-GCST90001950	11	49325972	T	C	1244	0.23	0.05	0.00	0.02	22.38
rs1466426	CD33 on Gr MDSC	ebi-a-GCST90001950	11	10518289	C	T	1244	-0.27	0.06	0.00	0.02	20.38
rs10876353	CD33 on Gr MDSC	ebi-a-GCST90001950	12	53217056	A	G	1244	0.20	0.04	0.00	0.02	23.09
rs71468862	CD33 on Gr MDSC	ebi-a-GCST90001950	15	37805271	C	T	1244	-0.95	0.21	0.00	0.02	19.72
rs139876813	CD33 on Gr MDSC	ebi-a-GCST90001950	17	2689271	T	C	1244	-0.30	0.07	0.00	0.02	20.80
rs7351079	CD33 on Gr MDSC	ebi-a-GCST90001950	19	51574038	G	A	1244	-0.28	0.05	0.00	0.03	34.48
rs558625031	CD33 on Gr MDSC	ebi-a-GCST90001950	19	51858911	A	G	1244	-0.45	0.10	0.00	0.02	20.92
rs12459503	CD33 on Gr MDSC	ebi-a-GCST90001950	19	52161035	C	T	1244	0.23	0.05	0.00	0.02	24.11
rs78949787	CD33 on Gr MDSC	ebi-a-GCST90001950	19	51591138	T	C	1244	0.23	0.04	0.00	0.02	30.93
rs7245846	CD33 on Gr MDSC	ebi-a-GCST90001950	19	51731176	A	G	1244	-0.84	0.05	0.00	0.19	290.12
rs77246389	CD33 on CD66b++ myeloid cell	ebi-a-GCST90001951	1	45733581	T	C	1464	-0.70	0.15	0.00	0.01	20.25
rs76026141	CD33 on CD66b++ myeloid cell	ebi-a-GCST90001951	1	88174972	A	G	1464	0.28	0.06	0.00	0.02	22.37
rs79910465	CD33 on CD66b++ myeloid cell	ebi-a-GCST90001951	1	233086394	G	C	1464	0.27	0.06	0.00	0.02	23.04
rs144205288	CD33 on CD66b++ myeloid cell	ebi-a-GCST90001951	2	34988773	C	T	1464	-1.03	0.23	0.00	0.01	20.75
rs10510189	CD33 on CD66b++ myeloid cell	ebi-a-GCST90001951	3	1316884	G	A	1464	0.33	0.07	0.00	0.01	19.68
rs139845236	CD33 on CD66b++ myeloid cell	ebi-a-GCST90001951	3	187673519	A	G	1464	1.22	0.25	0.00	0.02	24.52
rs17409678	CD33 on CD66b++ myeloid cell	ebi-a-GCST90001951	6	76105426	A	G	1464	0.78	0.17	0.00	0.01	21.06
rs7853685	CD33 on CD66b++ myeloid cell	ebi-a-GCST90001951	9	77507034	G	A	1464	-0.26	0.06	0.00	0.01	21.23

rs61900137	CD33 on CD66b++ myeloid cell CD33 on	ebi-a-GCST90001951	11	83237517	T	C	1464	-0.69	0.15	0.00	0.01	22.23
rs72681960	CD66b++ myeloid cell CD33 on	ebi-a-GCST90001951	14	23350478	A	G	1464	-0.51	0.11	0.00	0.01	20.81
rs139876813	CD66b++ myeloid cell CD33 on	ebi-a-GCST90001951	17	2689271	T	C	1464	-0.28	0.06	0.00	0.01	21.37
rs4802858	CD66b++ myeloid cell CD33 on	ebi-a-GCST90001951	19	52253150	C	T	1464	-0.19	0.04	0.00	0.02	25.50
rs12459503	CD66b++ myeloid cell CD33 on	ebi-a-GCST90001951	19	52161035	C	T	1464	0.27	0.04	0.00	0.03	41.29
rs78949787	CD66b++ myeloid cell CD33 on	ebi-a-GCST90001951	19	51591138	T	C	1464	0.27	0.04	0.00	0.03	49.73
rs73026163	CD66b++ myeloid cell CD33 on	ebi-a-GCST90001951	19	31994813	C	G	1464	-0.38	0.08	0.00	0.02	23.53
rs7351079	CD66b++ myeloid cell CD33 on	ebi-a-GCST90001951	19	51574038	G	A	1464	-0.31	0.04	0.00	0.03	51.62
rs76647540	CD66b++ myeloid cell CD33 on	ebi-a-GCST90001951	19	51088199	T	A	1464	-0.26	0.06	0.00	0.01	21.56
rs3865444	CD66b++ myeloid cell CD33 on	ebi-a-GCST90001951	19	51727962	A	C	1464	-0.95	0.04	0.00	0.28	580.21
rs558625031	CD66b++ myeloid cell CD33 on Mo	ebi-a-GCST90001951	19	51858911	A	G	1464	-0.61	0.09	0.00	0.03	48.87
rs10164761	MDSC CD33 on Mo	ebi-a-GCST90001952	2	220066209	T	C	1569	0.19	0.04	0.00	0.01	22.95
rs2362605	MDSC CD33 on Mo	ebi-a-GCST90001952	3	190480177	A	G	1569	-0.20	0.04	0.00	0.01	20.83
rs9867350	MDSC CD33 on Mo	ebi-a-GCST90001952	3	129451519	A	G	1569	0.22	0.05	0.00	0.01	20.23
rs403286	MDSC CD33 on Mo	ebi-a-GCST90001952	3	55264003	A	G	1569	0.18	0.04	0.00	0.01	22.11
rs6828373	MDSC CD33 on Mo	ebi-a-GCST90001952	4	154476924	C	T	1569	0.23	0.05	0.00	0.02	24.21
rs10022829	MDSC CD33 on Mo	ebi-a-GCST90001952	4	506471	A	G	1569	-0.17	0.04	0.00	0.01	20.75
rs6879785	MDSC CD33 on Mo	ebi-a-GCST90001952	5	75450373	G	A	1569	0.19	0.04	0.00	0.01	20.51
rs73015201	MDSC CD33 on Mo	ebi-a-GCST90001952	6	148351645	T	C	1569	-0.20	0.04	0.00	0.01	20.37
rs6974483	MDSC CD33 on Mo	ebi-a-GCST90001952	7	52705752	A	T	1569	0.18	0.04	0.00	0.01	20.68
rs7047105	MDSC CD33 on Mo	ebi-a-GCST90001952	9	105951980	G	A	1569	-0.19	0.04	0.00	0.02	25.07
rs138138479	MDSC CD33 on Mo	ebi-a-GCST90001952	10	22339808	T	G	1569	0.79	0.18	0.00	0.01	20.51
rs4747079	MDSC CD33 on Mo	ebi-a-GCST90001952	10	72466435	A	G	1569	0.38	0.08	0.00	0.01	19.77
rs73259850	MDSC CD33 on Mo	ebi-a-GCST90001952	10	56897405	C	A	1569	-0.38	0.08	0.00	0.02	25.82
rs10861528	MDSC CD33 on Mo	ebi-a-GCST90001952	12	106266488	A	C	1569	0.18	0.04	0.00	0.01	19.99
rs117150385	MDSC CD33 on Mo	ebi-a-GCST90001952	17	9157491	A	G	1569	-0.89	0.20	0.00	0.01	19.88
rs58301181	MDSC CD33 on Mo	ebi-a-GCST90001952	19	52097261	G	C	1569	-0.38	0.07	0.00	0.02	31.84
rs3865444	MDSC CD33 on Mo	ebi-a-GCST90001952	19	51727962	A	C	1569	-1.15	0.04	0.00	0.36	877.08
rs8108687	MDSC CD33 on Mo	ebi-a-GCST90001952	19	927971	G	A	1569	-0.18	0.04	0.00	0.01	21.57
rs7351079	MDSC CD33 on Mo	ebi-a-GCST90001952	19	51574038	G	A	1569	-0.37	0.04	0.00	0.05	75.39
rs62114147	MDSC CD33 on Mo	ebi-a-GCST90001952	19	51588018	T	C	1569	0.26	0.04	0.00	0.03	49.70

rs73051934	CD33 on Mo MDSC	ebi-a-GCST90001952	19	48582916	G	A	1569	-0.52	0.11	0.00	0.01	21.28
rs79349965	CD33dim	ebi-a-GCST90001953	1	248009263	C	G	1558	0.31	0.07	0.00	0.01	20.84
rs56043070	HLA DR- CD33 on	ebi-a-GCST90001953	1	247719769	A	G	1558	0.50	0.08	0.00	0.03	40.72
rs57883729	CD33dim	ebi-a-GCST90001953	2	162100169	A	C	1558	-0.68	0.15	0.00	0.01	20.64
rs4709427	HLA DR- CD33 on	ebi-a-GCST90001953	6	158023339	G	A	1558	0.16	0.04	0.00	0.01	19.64
rs11762203	CD33dim	ebi-a-GCST90001953	7	120912956	T	C	1558	0.55	0.12	0.00	0.01	20.02
rs6974483	HLA DR- CD33 on	ebi-a-GCST90001953	7	52705752	A	T	1558	0.19	0.04	0.00	0.01	21.27
rs6979650	CD33dim	ebi-a-GCST90001953	7	36536896	A	G	1558	0.44	0.10	0.00	0.01	19.75
rs3807849	HLA DR- CD33 on	ebi-a-GCST90001953	7	8157710	T	G	1558	-0.45	0.10	0.00	0.01	19.67
rs58337014	CD33dim	ebi-a-GCST90001953	10	53354043	A	C	1558	-0.44	0.09	0.00	0.01	22.74
rs117140964	HLA DR- CD33 on	ebi-a-GCST90001953	10	101609403	T	C	1558	0.43	0.09	0.00	0.01	23.43
rs34497847	CD33dim	ebi-a-GCST90001953	11	76766923	A	G	1558	-0.50	0.11	0.00	0.01	20.01
rs4567661	HLA DR- CD33 on	ebi-a-GCST90001953	15	38786114	C	A	1558	-0.18	0.04	0.00	0.01	21.10
rs77635331	CD33dim	ebi-a-GCST90001953	16	8691661	T	C	1558	-0.28	0.06	0.00	0.01	21.81
rs8069226	HLA DR- CD33 on	ebi-a-GCST90001953	17	8938562	T	C	1558	0.16	0.04	0.00	0.01	20.32
rs548194341	CD33dim	ebi-a-GCST90001953	17	9130998	G	C	1558	-2.15	0.48	0.00	0.01	20.16
rs3865444	HLA DR- CD33 on	ebi-a-GCST90001953	19	51727962	A	C	1558	-1.14	0.04	0.00	0.34	818.98
rs11669394	CD33dim	ebi-a-GCST90001953	19	53262327	A	G	1558	-0.26	0.04	0.00	0.03	44.07
rs11882720	HLA DR- CD33 on	ebi-a-GCST90001953	19	52897142	G	T	1558	-0.38	0.07	0.00	0.02	28.06
rs75773078	CD33dim	ebi-a-GCST90001953	19	51742145	A	G	1558	-0.49	0.07	0.00	0.03	48.77
rs138712525	HLA DR- CD33 on	ebi-a-GCST90001953	19	51544665	A	G	1558	0.34	0.05	0.00	0.03	55.91
rs7351079	CD33dim	ebi-a-GCST90001953	19	51574038	G	A	1558	-0.36	0.04	0.00	0.05	74.90
rs56043070	HLA DR- CD33 on	ebi-a-GCST90001954	1	247719769	A	G	1555	0.49	0.08	0.00	0.02	38.66
rs79349965	basophil	ebi-a-GCST90001954	1	248009263	C	G	1555	0.30	0.07	0.00	0.01	20.26
rs57883729	CD33 on	ebi-a-GCST90001954	2	162100169	A	C	1555	-0.69	0.15	0.00	0.01	20.82
rs72640540	basophil	ebi-a-GCST90001954	4	67038487	A	G	1555	-2.86	0.64	0.00	0.01	19.62

rs1836704	CD33 on basophil	ebi-a-GCST90001954	4	30413400	C	A	1555	-0.18	0.04	0.00	0.01	19.78
rs10040068	CD33 on basophil	ebi-a-GCST90001954	5	17802169	T	C	1555	0.19	0.04	0.00	0.01	19.61
rs6974483	CD33 on basophil	ebi-a-GCST90001954	7	52705752	A	T	1555	0.19	0.04	0.00	0.01	21.85
rs6979650	CD33 on basophil	ebi-a-GCST90001954	7	36536896	A	G	1555	0.44	0.10	0.00	0.01	20.01
rs58337014	CD33 on basophil	ebi-a-GCST90001954	10	53354043	A	C	1555	-0.41	0.09	0.00	0.01	19.95
rs117140964	CD33 on basophil	ebi-a-GCST90001954	10	101609403	T	C	1555	0.41	0.09	0.00	0.01	21.05
rs4567661	CD33 on basophil	ebi-a-GCST90001954	15	38786114	C	A	1555	-0.18	0.04	0.00	0.01	21.49
rs77635331	CD33 on basophil	ebi-a-GCST90001954	16	8691661	T	C	1555	-0.30	0.06	0.00	0.02	24.58
rs462331	CD33 on basophil	ebi-a-GCST90001954	16	83832299	T	A	1555	-0.23	0.05	0.00	0.01	19.67
rs548194341	CD33 on basophil	ebi-a-GCST90001954	17	9130998	G	C	1555	-2.21	0.48	0.00	0.01	21.42
rs8069226	CD33 on basophil	ebi-a-GCST90001954	17	8938562	T	C	1555	0.17	0.04	0.00	0.01	20.32
rs111695695	CD33 on basophil	ebi-a-GCST90001954	19	51897760	A	C	1555	-0.55	0.07	0.00	0.04	64.27
rs79377141	CD33 on basophil	ebi-a-GCST90001954	19	51538952	A	G	1555	0.34	0.05	0.00	0.03	55.82
rs7245846	CD33 on basophil	ebi-a-GCST90001954	19	51731176	A	G	1555	-1.13	0.04	0.00	0.36	856.97
rs75773078	CD33 on basophil	ebi-a-GCST90001954	19	51742145	A	G	1555	-0.49	0.07	0.00	0.03	48.59
rs114475810	CD33 on basophil	ebi-a-GCST90001954	19	36056431	A	G	1555	-2.11	0.47	0.00	0.01	20.49
rs141122591	CD33 on basophil	ebi-a-GCST90001954	19	51900858	C	T	1555	0.49	0.10	0.00	0.01	23.47
rs7351079	CD33 on basophil	ebi-a-GCST90001954	19	51574038	G	A	1555	-0.36	0.04	0.00	0.05	74.49
rs58483275	CD33 on basophil	ebi-a-GCST90001954	19	51868443	T	C	1555	0.52	0.07	0.00	0.03	51.07
rs56043070	CD33 on Im MDSC	ebi-a-GCST90001955	1	247719769	A	G	1554	0.42	0.08	0.00	0.02	27.78
rs2722603	CD33 on Im MDSC	ebi-a-GCST90001955	2	5890815	G	C	1554	0.18	0.04	0.00	0.01	22.41
rs74707127	CD33 on Im MDSC	ebi-a-GCST90001955	2	174284380	C	G	1554	0.42	0.09	0.00	0.01	23.27
rs10022829	CD33 on Im MDSC	ebi-a-GCST90001955	4	506471	A	G	1554	-0.17	0.04	0.00	0.01	20.18
rs10040068	CD33 on Im MDSC	ebi-a-GCST90001955	5	17802169	T	C	1554	0.19	0.04	0.00	0.01	20.17
rs11765781	CD33 on Im MDSC	ebi-a-GCST90001955	7	4764861	A	G	1554	0.18	0.04	0.00	0.01	20.97
rs117140964	CD33 on Im MDSC	ebi-a-GCST90001955	10	101609403	T	C	1554	0.42	0.09	0.00	0.01	22.29
rs1922127	CD33 on Im MDSC	ebi-a-GCST90001955	10	53348048	T	C	1554	-0.38	0.08	0.00	0.01	20.02
rs77040155	CD33 on Im MDSC	ebi-a-GCST90001955	11	5402836	G	C	1554	-0.38	0.08	0.00	0.01	19.73
rs1421461	CD33 on Im MDSC	ebi-a-GCST90001955	12	106320886	C	T	1554	0.20	0.05	0.00	0.01	19.88
rs1218959	CD33 on Im MDSC	ebi-a-GCST90001955	13	28193877	A	C	1554	0.17	0.04	0.00	0.01	19.69
rs79965644	CD33 on Im MDSC	ebi-a-GCST90001955	13	79484369	G	T	1554	0.48	0.11	0.00	0.01	20.57
rs4567661	CD33 on Im MDSC	ebi-a-GCST90001955	15	38786114	C	A	1554	-0.19	0.04	0.00	0.01	21.81
rs77635331	CD33 on Im MDSC	ebi-a-GCST90001955	16	8691661	T	C	1554	-0.28	0.06	0.00	0.01	20.41
rs548194341	CD33 on Im MDSC	ebi-a-GCST90001955	17	9130998	G	C	1554	-2.40	0.48	0.00	0.02	25.07
rs1397071	CD33 on Im MDSC	ebi-a-GCST90001955	18	68477432	A	G	1554	-0.54	0.11	0.00	0.01	21.86
rs79377141	CD33 on Im MDSC	ebi-a-GCST90001955	19	51538952	A	G	1554	0.34	0.05	0.00	0.03	54.03
rs7351079	CD33 on Im MDSC	ebi-a-GCST90001955	19	51574038	G	A	1554	-0.34	0.04	0.00	0.04	62.38

rs75773078	CD33 on Im MDSC	ebi-a-GCST90001955	19	51742145	A	G	1554	-0.53	0.07	0.00	0.03	55.32
rs141122591	CD33 on Im MDSC	ebi-a-GCST90001955	19	51900858	C	T	1554	0.51	0.10	0.00	0.02	25.70
rs8105208	CD33 on Im MDSC	ebi-a-GCST90001955	19	29522573	T	A	1554	-0.17	0.04	0.00	0.01	21.20
rs7245846	CD33 on Im MDSC	ebi-a-GCST90001955	19	51731176	A	G	1554	-1.12	0.04	0.00	0.34	803.91
rs58483275	CD33 on Im MDSC	ebi-a-GCST90001955	19	51868443	T	C	1554	0.50	0.07	0.00	0.03	48.30
rs111695695	CD33 on Im MDSC	ebi-a-GCST90001955	19	51897760	A	C	1554	-0.51	0.07	0.00	0.03	56.20
rs117893093	CD33 on Im MDSC	ebi-a-GCST90001955	20	36543774	T	G	1554	0.44	0.09	0.00	0.01	21.91
rs6679331	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	1	244420967	A	C	1579	-0.59	0.13	0.00	0.01	21.07
rs6679371	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	1	246566874	C	T	1579	0.22	0.05	0.00	0.01	20.28
rs1868503	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	3	54426911	C	T	1579	-0.25	0.06	0.00	0.01	20.82
rs2362605	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	3	190480177	A	G	1579	-0.20	0.04	0.00	0.01	20.70
rs17580821	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	4	114358371	T	C	1579	-0.27	0.06	0.00	0.01	22.47
rs6892757	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	5	743878	G	T	1579	-0.27	0.06	0.00	0.01	21.61
rs72957739	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	6	115952566	A	T	1579	0.40	0.09	0.00	0.01	21.35
rs77462109	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	7	33186065	G	T	1579	-0.28	0.06	0.00	0.01	19.93
rs7047105	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	9	105951980	G	A	1579	-0.18	0.04	0.00	0.01	22.11
rs114090793	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	10	132935005	A	C	1579	0.37	0.08	0.00	0.01	20.88
rs111918250	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	10	21637249	C	A	1579	0.84	0.19	0.00	0.01	20.40
rs75216873	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	14	53742598	G	A	1579	-0.36	0.08	0.00	0.01	22.24
rs4442789	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	15	98373329	T	C	1579	0.22	0.05	0.00	0.01	21.54
rs140051672	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	16	86460135	A	G	1579	-1.90	0.43	0.00	0.01	19.88
rs139876813	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	17	2689271	T	C	1579	-0.28	0.06	0.00	0.01	23.22
rs11078779	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	17	8952193	G	A	1579	0.20	0.04	0.00	0.02	24.46
rs1397071	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	18	68477432	A	G	1579	-0.54	0.11	0.00	0.01	22.33
rs558625031	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	19	51858911	A	G	1579	-0.71	0.08	0.00	0.04	69.85
rs78949787	CD33br HLA DR+ CD33 on	ebi-a-GCST90001956	19	51591138	T	C	1579	0.29	0.04	0.00	0.04	63.11
rs58301181	CD33br HLA DR+	ebi-a-GCST90001956	19	52097261	G	C	1579	-0.43	0.07	0.00	0.03	41.02

rs7351079	CD33 on CD33br HLA ebi-a-GCST90001956	19	51574038	G	A	1579	-0.34	0.04	0.00	0.04	63.78
rs3865444	DR+ CD33 on CD33br HLA ebi-a-GCST90001956	19	51727962	A	C	1579	-1.22	0.04	0.00	0.42	1128.14
rs73051934	DR+ CD33 on CD33br HLA ebi-a-GCST90001956	19	48582916	G	A	1579	-0.54	0.11	0.00	0.01	23.13
rs2849905	DR+ CD33 on CD33br HLA ebi-a-GCST90001956	21	18957035	C	G	1579	-0.17	0.04	0.00	0.01	20.62
rs6679331	DR+ CD33 on CD33br HLA ebi-a-GCST90001957	1	244420967	A	C	1578	-0.58	0.13	0.00	0.01	19.92
rs1868503	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	3	54426911	C	T	1578	-0.26	0.06	0.00	0.01	21.25
rs2362605	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	3	190480177	A	G	1578	-0.20	0.04	0.00	0.01	19.93
rs17580821	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	4	114358371	T	C	1578	-0.27	0.06	0.00	0.01	22.17
rs6892757	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	5	743878	G	T	1578	-0.26	0.06	0.00	0.01	21.25
rs72957739	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	6	115952566	A	T	1578	0.39	0.09	0.00	0.01	20.96
rs77462109	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	7	33186065	G	T	1578	-0.28	0.06	0.00	0.01	20.11
rs7047105	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	9	105951980	G	A	1578	-0.18	0.04	0.00	0.01	22.98
rs111918250	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	10	21637249	C	A	1578	0.84	0.19	0.00	0.01	20.13
rs114090793	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	10	132935005	A	C	1578	0.37	0.08	0.00	0.01	21.43
rs78521312	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	11	132496896	G	A	1578	0.38	0.08	0.00	0.01	20.29
rs75216873	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	14	53742598	G	A	1578	-0.36	0.08	0.00	0.01	22.04
rs4442789	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	15	98373329	T	C	1578	0.22	0.05	0.00	0.01	22.46
rs139876813	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	17	2689271	T	C	1578	-0.27	0.06	0.00	0.01	22.28
rs11078779	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	17	8952193	G	A	1578	0.19	0.04	0.00	0.01	23.58
rs1397071	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	18	68477432	A	G	1578	-0.52	0.11	0.00	0.01	20.75
rs7351079	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	19	51574038	G	A	1578	-0.34	0.04	0.00	0.04	65.54
rs558625031	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	19	51858911	A	G	1578	-0.72	0.08	0.00	0.04	72.09
rs58301181	DR+ CD14- CD33 on CD33br HLA ebi-a-GCST90001957	19	52097261	G	C	1578	-0.44	0.07	0.00	0.03	43.20
rs3865444	DR+ CD14- CD33br HLA ebi-a-GCST90001957	19	51727962	A	C	1578	-1.22	0.04	0.00	0.42	1139.95

rs73051934	CD33 on CD33br HLA DR+ CD14- CD33 on	ebi-a-GCST90001957	19	48582916	G	A	1578	-0.53	0.11	0.00	0.01	22.09
rs78949787	CD33br HLA DR+ CD14- CD4 on	ebi-a-GCST90001957	19	51591138	T	C	1578	0.29	0.04	0.00	0.04	62.81
rs56754976	monocyte CD4 on	ebi-a-GCST90001958	1	180568712	T	G	3112	0.35	0.08	0.00	0.01	21.54
rs661686	monocyte CD4 on	ebi-a-GCST90001958	1	85909210	C	T	3112	-0.14	0.03	0.00	0.01	23.24
rs1801274	monocyte CD4 on	ebi-a-GCST90001958	1	161479745	G	A	3112	-0.14	0.03	0.00	0.01	22.52
rs1365928	monocyte CD4 on	ebi-a-GCST90001958	2	19779555	C	A	3112	-0.17	0.03	0.00	0.01	25.43
rs116366652	monocyte CD4 on	ebi-a-GCST90001958	2	160856904	T	A	3112	-0.18	0.04	0.00	0.01	21.23
rs34551852	monocyte CD4 on	ebi-a-GCST90001958	4	23605540	C	T	3112	0.13	0.03	0.00	0.01	21.89
rs150579420	monocyte CD4 on	ebi-a-GCST90001958	4	154119021	A	G	3112	-0.88	0.18	0.00	0.01	22.90
rs4073463	monocyte CD4 on	ebi-a-GCST90001958	4	65562649	A	G	3112	-0.12	0.03	0.00	0.01	19.99
rs141048893	monocyte CD4 on	ebi-a-GCST90001958	5	175815591	G	A	3112	0.83	0.18	0.00	0.01	22.55
rs112496462	monocyte CD4 on	ebi-a-GCST90001958	6	34155071	A	G	3112	-1.60	0.35	0.00	0.01	21.30
rs11225443	monocyte CD4 on	ebi-a-GCST90001958	11	102742951	T	C	3112	-1.18	0.26	0.00	0.01	20.21
rs7976804	monocyte CD4 on	ebi-a-GCST90001958	12	6467961	G	A	3112	0.15	0.03	0.00	0.01	27.44
rs7296859	monocyte CD4 on	ebi-a-GCST90001958	12	6894164	G	C	3112	-0.43	0.03	0.00	0.08	277.43
rs9302635	monocyte CD4 on	ebi-a-GCST90001958	16	72144174	C	T	3112	0.30	0.03	0.00	0.02	76.87
rs117535998	monocyte CD4 on	ebi-a-GCST90001958	16	71579132	T	C	3112	0.20	0.04	0.00	0.01	22.07
rs78206220	monocyte CD4 on	ebi-a-GCST90001958	18	27682817	G	C	3112	0.66	0.14	0.00	0.01	20.69
rs10518646	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	1	81127816	T	C	3060	0.51	0.11	0.00	0.01	19.82
rs10047088	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	1	228004140	C	T	3060	0.19	0.04	0.00	0.01	21.66
rs10179730	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	2	188410351	A	G	3060	0.20	0.04	0.00	0.01	19.81
rs11929631	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	3	164980538	A	T	3060	-0.27	0.06	0.00	0.01	20.57
rs13316780	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	3	108851829	C	T	3060	0.56	0.12	0.00	0.01	20.99
rs17002700	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	4	78417537	G	T	3060	0.15	0.03	0.00	0.01	20.02
rs184989157	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	4	4214108	T	C	3060	-0.32	0.07	0.00	0.01	19.78
rs10517576	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	4	154561623	C	T	3060	0.58	0.12	0.00	0.01	21.61
rs35032648	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	5	3225418	C	T	3060	0.12	0.03	0.00	0.01	20.14
rs166223	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	5	86031019	A	T	3060	0.12	0.03	0.00	0.01	20.00
rs9357097	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	6	30285121	T	C	3060	0.17	0.03	0.00	0.01	35.69
rs10946649	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	6	23957018	T	C	3060	0.26	0.06	0.00	0.01	22.89
rs2524081	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	6	31242083	C	G	3060	0.16	0.03	0.00	0.01	25.06
rs4371876	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	6	31067550	A	G	3060	0.18	0.03	0.00	0.01	40.70
rs17088862	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	8	22835142	A	T	3060	0.41	0.09	0.00	0.01	20.70
rs7819104	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	8	121748105	T	A	3060	-0.14	0.03	0.00	0.01	19.70
rs12684941	DR+ CD4+ CD4 on HLA	ebi-a-GCST90001959	9	37654930	G	A	3060	-0.12	0.03	0.00	0.01	20.51
rs75559970	DR+ CD4+	ebi-a-GCST90001959	10	100518962	T	G	3060	0.53	0.11	0.00	0.01	25.21

rs72822577	CD4 on HLA DR+ CD4+	ebi-a-GCST90001959	10	97168100	A	T	3060	0.73	0.16	0.00	0.01	20.08
rs11614716	CD4 on HLA DR+ CD4+	ebi-a-GCST90001959	12	6904146	G	T	3060	-0.15	0.03	0.00	0.01	24.74
rs35996890	CD4 on HLA DR+ CD4+	ebi-a-GCST90001959	15	50180635	T	A	3060	0.12	0.03	0.00	0.01	19.61
rs75036101	CD4 on HLA DR+ CD4+	ebi-a-GCST90001959	16	66348814	A	T	3060	-0.25	0.06	0.00	0.01	19.59
rs12095517	CD25 on CD4+	ebi-a-GCST90001960	1	11797186	C	T	2920	-0.15	0.03	0.00	0.01	27.08
rs71673415	CD25 on CD4+	ebi-a-GCST90001960	1	111786150	T	C	2920	-0.64	0.14	0.00	0.01	21.31
rs16860924	CD25 on CD4+	ebi-a-GCST90001960	2	14031175	C	T	2920	0.36	0.08	0.00	0.01	21.06
rs13060740	CD25 on CD4+	ebi-a-GCST90001960	3	151674909	G	T	2920	-0.20	0.04	0.00	0.01	20.56
rs906242	CD25 on CD4+	ebi-a-GCST90001960	4	11050147	A	T	2920	0.12	0.03	0.00	0.01	19.68
rs79647440	CD25 on CD4+	ebi-a-GCST90001960	7	142438302	T	C	2920	-3.82	0.82	0.00	0.01	21.97
rs112393619	CD25 on CD4+	ebi-a-GCST90001960	7	21800888	A	C	2920	0.23	0.05	0.00	0.01	21.11
rs72666777	CD25 on CD4+	ebi-a-GCST90001960	8	69587840	C	A	2920	0.43	0.10	0.00	0.01	19.81
rs80020399	CD25 on CD4+	ebi-a-GCST90001960	9	124757711	T	C	2920	0.31	0.06	0.00	0.01	24.31
rs17814462	CD25 on CD4+	ebi-a-GCST90001960	9	4598881	T	G	2920	0.29	0.06	0.00	0.01	20.76
rs77506115	CD25 on CD4+	ebi-a-GCST90001960	9	35553793	A	G	2920	0.30	0.07	0.00	0.01	21.18
rs61839660	CD25 on CD4+	ebi-a-GCST90001960	10	6094697	T	C	2920	0.39	0.06	0.00	0.02	45.99
rs61875444	CD25 on CD4+	ebi-a-GCST90001960	11	12418190	T	C	2920	0.39	0.09	0.00	0.01	19.74
rs118110714	CD25 on CD4+	ebi-a-GCST90001960	12	16060925	A	G	2920	1.09	0.24	0.00	0.01	21.35
rs9603769	CD25 on CD4+	ebi-a-GCST90001960	13	41104740	G	A	2920	0.15	0.03	0.00	0.01	20.16
rs661825	CD25 on CD4+	ebi-a-GCST90001960	19	7616474	G	C	2920	-0.13	0.03	0.00	0.01	22.54
rs142428460	CD25 on CD4+	ebi-a-GCST90001960	20	12005003	G	A	2920	-0.57	0.13	0.00	0.01	20.67
rs143264473	CD25 on CD39+ CD4+	ebi-a-GCST90001961	1	226979781	A	G	2920	-0.14	0.03	0.00	0.01	20.04
rs72753706	CD25 on CD39+ CD4+	ebi-a-GCST90001961	1	234064576	C	G	2920	-2.20	0.48	0.00	0.01	20.68
rs115446744	CD25 on CD39+ CD4+	ebi-a-GCST90001961	1	206716987	T	G	2920	0.60	0.13	0.00	0.01	22.71
rs28763878	CD25 on CD39+ CD4+	ebi-a-GCST90001961	2	189868535	A	T	2920	-0.96	0.21	0.00	0.01	21.28
rs56048248	CD25 on CD39+ CD4+	ebi-a-GCST90001961	3	118862208	T	G	2920	0.57	0.13	0.00	0.01	19.96
rs6841503	CD25 on CD39+ CD4+	ebi-a-GCST90001961	4	25987977	G	A	2920	0.15	0.03	0.00	0.01	22.44
rs77797161	CD25 on CD39+ CD4+	ebi-a-GCST90001961	7	158434884	C	A	2920	0.41	0.09	0.00	0.01	21.09
rs36066449	CD25 on CD39+ CD4+	ebi-a-GCST90001961	8	140875665	A	G	2920	-0.16	0.04	0.00	0.01	19.66
rs10964730	CD25 on CD39+ CD4+	ebi-a-GCST90001961	9	20826029	G	A	2920	-0.17	0.04	0.00	0.01	19.93
rs148377476	CD25 on CD39+ CD4+	ebi-a-GCST90001961	10	86408004	C	T	2920	-0.39	0.08	0.00	0.01	22.48
rs141109119	CD25 on CD39+ CD4+	ebi-a-GCST90001961	10	93071426	T	C	2920	0.63	0.14	0.00	0.01	20.32
rs11187515	CD25 on CD39+ CD4+	ebi-a-GCST90001961	10	95327429	T	C	2920	-0.22	0.04	0.00	0.01	30.92
rs4075310	CD25 on CD39+ CD4+	ebi-a-GCST90001961	10	97574689	T	C	2920	-0.72	0.02	0.00	0.23	882.82
rs7079761	CD25 on CD39+ CD4+	ebi-a-GCST90001961	10	97842115	A	G	2920	-0.48	0.06	0.00	0.02	59.82
rs35025323	CD25 on CD39+ CD4+	ebi-a-GCST90001961	10	97089991	C	T	2920	-0.30	0.03	0.00	0.03	79.63
rs113594239	CD25 on CD39+ CD4+	ebi-a-GCST90001961	10	98103215	T	C	2920	-0.60	0.07	0.00	0.02	67.88

rs12778618	CD25 on CD39+ CD4+	ebi-a-GCST90001961	10	95633120	C	T	2920	-0.65	0.07	0.00	0.03	95.55
rs116354946	CD25 on CD39+ CD4+	ebi-a-GCST90001961	11	9339804	G	C	2920	0.27	0.06	0.00	0.01	19.94
rs142179684	CD25 on CD39+ CD4+	ebi-a-GCST90001961	15	80416513	T	C	2920	-0.43	0.09	0.00	0.01	20.66
rs112207505	CD25 on CD39+ CD4+	ebi-a-GCST90001961	16	87927291	A	G	2920	0.63	0.13	0.00	0.01	22.46
rs9892509	CD25 on CD39+ CD4+	ebi-a-GCST90001961	17	60434343	T	C	2920	-0.14	0.03	0.00	0.01	20.19
rs74821035	CD25 on CD39+ CD4+	ebi-a-GCST90001961	18	42881701	C	T	2920	0.97	0.22	0.00	0.01	19.99
rs1618134	CD25 on CD39+ CD4+	ebi-a-GCST90001961	21	25490355	G	A	2920	1.71	0.38	0.00	0.01	19.98
rs115939244	CD25 on CD28+ CD4+	ebi-a-GCST90001962	1	3165628	G	A	2920	-0.19	0.04	0.00	0.01	26.32
rs71673415	CD25 on CD28+ CD4+	ebi-a-GCST90001962	1	111786150	T	C	2920	-0.61	0.13	0.00	0.01	20.46
rs7535297	CD25 on CD28+ CD4+	ebi-a-GCST90001962	1	25513931	G	C	2920	-0.23	0.05	0.00	0.01	23.59
rs4632330	CD25 on CD28+ CD4+	ebi-a-GCST90001962	2	220737809	G	C	2920	-0.13	0.03	0.00	0.01	21.58
rs13060740	CD25 on CD28+ CD4+	ebi-a-GCST90001962	3	151674909	G	T	2920	-0.19	0.04	0.00	0.01	20.00
rs55971447	FSC-A on myeloid DC	ebi-a-GCST90001963	1	161515326	T	C	2872	-0.28	0.03	0.00	0.03	74.02
rs180827789	FSC-A on myeloid DC	ebi-a-GCST90001963	2	205277145	A	G	2872	0.53	0.11	0.00	0.01	22.98
rs1837001	FSC-A on myeloid DC	ebi-a-GCST90001963	2	5717130	A	G	2872	0.13	0.03	0.00	0.01	20.26
rs72926952	FSC-A on myeloid DC	ebi-a-GCST90001963	2	203485086	T	G	2872	0.34	0.03	0.00	0.05	148.55
rs114452046	FSC-A on myeloid DC	ebi-a-GCST90001963	2	109542930	T	C	2872	-0.28	0.06	0.00	0.01	21.55
rs4456651	FSC-A on myeloid DC	ebi-a-GCST90001963	2	236068863	A	C	2872	0.14	0.03	0.00	0.01	19.62
rs1364526	FSC-A on myeloid DC	ebi-a-GCST90001963	2	57315946	G	T	2872	0.16	0.03	0.00	0.01	22.43
rs73187869	FSC-A on myeloid DC	ebi-a-GCST90001963	3	119113344	A	G	2872	-0.19	0.04	0.00	0.01	19.79
rs34437438	FSC-A on myeloid DC	ebi-a-GCST90001963	3	95531331	A	G	2872	0.26	0.05	0.00	0.01	23.58
rs28424875	FSC-A on myeloid DC	ebi-a-GCST90001963	4	42664508	C	A	2872	-0.32	0.06	0.00	0.01	30.46
rs66968042	FSC-A on myeloid DC	ebi-a-GCST90001963	7	82021397	A	G	2872	0.15	0.03	0.00	0.01	20.15
rs4278118	FSC-A on myeloid DC	ebi-a-GCST90001963	8	127712638	C	T	2872	-0.13	0.03	0.00	0.01	22.12
rs12680377	FSC-A on myeloid DC	ebi-a-GCST90001963	8	5739227	A	C	2872	-0.30	0.06	0.00	0.01	23.57
rs17457355	FSC-A on myeloid DC	ebi-a-GCST90001963	9	132098004	C	A	2872	-0.50	0.11	0.00	0.01	21.16
rs117740023	FSC-A on myeloid DC	ebi-a-GCST90001963	10	52741522	C	T	2872	1.02	0.21	0.00	0.01	23.50
rs117292692	FSC-A on myeloid DC	ebi-a-GCST90001963	10	72720949	A	G	2872	0.38	0.08	0.00	0.01	23.35
rs149524008	FSC-A on myeloid DC	ebi-a-GCST90001963	12	104048446	T	G	2872	1.95	0.42	0.00	0.01	21.42
rs10492689	FSC-A on myeloid DC	ebi-a-GCST90001963	13	39544533	A	G	2872	3.02	0.61	0.00	0.01	24.19
rs1163654	FSC-A on myeloid DC	ebi-a-GCST90001963	13	112246767	C	G	2872	0.13	0.03	0.00	0.01	23.54
rs4769841	FSC-A on myeloid DC	ebi-a-GCST90001963	13	31108727	C	T	2872	0.13	0.03	0.00	0.01	19.90
rs2956237	FSC-A on myeloid DC	ebi-a-GCST90001963	15	101268827	A	G	2872	-0.14	0.03	0.00	0.01	19.92
rs146943490	plasmacytoid DC	ebi-a-GCST90001964	1	218248849	A	G	2872	-0.61	0.13	0.00	0.01	20.68
rs74664695	plasmacytoid DC	ebi-a-GCST90001964	1	102643305	G	T	2872	0.73	0.16	0.00	0.01	20.86

rs77019448	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	2	4345667	A	C	2872	-0.20	0.04	0.00	0.01	21.47
rs115700682	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	2	11423312	T	G	2872	1.20	0.27	0.00	0.01	20.05
rs112068187	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	2	34890769	A	G	2872	-0.46	0.10	0.00	0.01	21.28
rs2084848	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	2	169211909	C	G	2872	0.13	0.03	0.00	0.01	22.86
rs2289321	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	2	111870220	C	T	2872	-0.21	0.05	0.00	0.01	19.75
rs4431216	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	4	84150313	C	T	2872	-0.15	0.03	0.00	0.01	27.62
rs149624533	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	5	174332776	T	C	2872	1.10	0.23	0.00	0.01	22.64
rs9293809	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	5	79565071	C	T	2872	-0.13	0.03	0.00	0.01	21.05
rs116474260	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	5	151202476	T	C	2872	-0.46	0.10	0.00	0.01	19.92
rs77658339	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	5	107075296	C	A	2872	0.38	0.09	0.00	0.01	19.74
rs57869679	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	7	142512769	T	C	2872	0.18	0.04	0.00	0.01	19.62
rs73219706	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	7	89767780	T	C	2872	1.22	0.27	0.00	0.01	19.79
rs4317514	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	7	127095652	T	A	2872	0.16	0.03	0.00	0.01	21.61
rs2618014	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	9	26317973	C	A	2872	0.14	0.03	0.00	0.01	20.20
rs79205010	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	12	103996660	T	A	2872	1.69	0.38	0.00	0.01	19.91
rs9519437	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	13	105303025	G	A	2872	-0.16	0.04	0.00	0.01	20.30
rs142005014	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	13	64051675	T	G	2872	0.80	0.16	0.00	0.01	23.68
rs242761	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	14	90077960	C	T	2872	0.13	0.03	0.00	0.01	22.55
rs62045817	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	16	89045233	T	C	2872	-0.21	0.04	0.00	0.01	34.26
rs59715840	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	16	79180312	C	T	2872	0.34	0.07	0.00	0.01	26.21
rs722926	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	17	8677215	T	C	2872	0.15	0.03	0.00	0.01	30.46
rs144843975	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	17	63066415	T	C	2872	0.37	0.06	0.00	0.01	35.17
rs117067704	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	17	62128083	G	A	2872	0.64	0.09	0.00	0.02	51.72
rs4801716	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	19	56858865	G	A	2872	0.13	0.03	0.00	0.01	21.75

rs35534776	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	19	55107308	C	G	2872	0.32	0.06	0.00	0.01	26.62
rs9626174	FSC-A on plasmacytoid DC	ebi-a-GCST90001964	22	45991939	T	C	2872	0.38	0.08	0.00	0.01	20.65
rs150649461	FSC-A on monocyte	ebi-a-GCST90001965	1	92925654	C	G	2850	-0.37	0.07	0.00	0.01	26.03
rs7519224	FSC-A on monocyte	ebi-a-GCST90001965	1	15559482	T	C	2850	0.14	0.03	0.00	0.01	23.74
rs7557343	FSC-A on monocyte	ebi-a-GCST90001965	2	5733323	C	T	2850	-0.13	0.03	0.00	0.01	20.78
rs112698900	FSC-A on monocyte	ebi-a-GCST90001965	2	175649304	T	C	2850	0.28	0.06	0.00	0.01	23.00
rs77762937	FSC-A on monocyte	ebi-a-GCST90001965	2	203467470	T	G	2850	0.17	0.03	0.00	0.01	36.31
rs535652693	FSC-A on monocyte	ebi-a-GCST90001965	3	6519552	G	A	2850	0.42	0.09	0.00	0.01	20.00
rs2013828	FSC-A on monocyte	ebi-a-GCST90001965	3	1262474	C	T	2850	-0.13	0.03	0.00	0.01	19.65
rs12646158	FSC-A on monocyte	ebi-a-GCST90001965	4	14345720	C	A	2850	-0.17	0.04	0.00	0.01	21.27
rs28424875	FSC-A on monocyte	ebi-a-GCST90001965	4	42664508	C	A	2850	-0.29	0.06	0.00	0.01	25.69
rs76378762	FSC-A on monocyte	ebi-a-GCST90001965	5	87683717	A	G	2850	0.18	0.04	0.00	0.01	21.33
rs116492121	FSC-A on monocyte	ebi-a-GCST90001965	5	20399	C	T	2850	-1.31	0.29	0.00	0.01	19.64
rs77658339	FSC-A on monocyte	ebi-a-GCST90001965	5	107075296	C	A	2850	0.39	0.09	0.00	0.01	20.59
rs532311082	FSC-A on monocyte	ebi-a-GCST90001965	6	108592381	C	T	2850	0.33	0.08	0.00	0.01	19.73
rs2106353	FSC-A on monocyte	ebi-a-GCST90001965	7	126506598	T	G	2850	0.17	0.04	0.00	0.01	22.88
rs141889079	FSC-A on monocyte	ebi-a-GCST90001965	8	68736534	T	C	2850	0.39	0.07	0.00	0.01	27.43
rs4910344	FSC-A on monocyte	ebi-a-GCST90001965	11	11450673	A	G	2850	0.21	0.04	0.00	0.01	21.11
rs1800973	FSC-A on monocyte	ebi-a-GCST90001965	12	69744014	A	C	2850	-0.28	0.05	0.00	0.01	32.08
rs35241999	FSC-A on monocyte	ebi-a-GCST90001965	12	11184504	G	A	2850	-0.33	0.07	0.00	0.01	19.76
rs12868834	FSC-A on monocyte	ebi-a-GCST90001965	13	103681773	A	G	2850	-0.23	0.05	0.00	0.01	19.76
rs10492689	FSC-A on monocyte	ebi-a-GCST90001965	13	39544533	A	G	2850	2.88	0.60	0.00	0.01	22.73
rs2326401	FSC-A on monocyte	ebi-a-GCST90001965	16	84929974	T	A	2850	-0.13	0.03	0.00	0.01	22.64
rs3787199	FSC-A on monocyte	ebi-a-GCST90001965	20	50096687	C	T	2850	-0.17	0.04	0.00	0.01	22.01
rs58985199	FSC-A on granulocyte	ebi-a-GCST90001966	1	37569165	A	G	2850	0.21	0.04	0.00	0.01	21.19
rs145847454	FSC-A on granulocyte	ebi-a-GCST90001966	2	241090399	A	G	2850	-0.18	0.04	0.00	0.01	21.19
rs3179891	FSC-A on granulocyte	ebi-a-GCST90001966	2	43319978	A	G	2850	0.15	0.03	0.00	0.01	27.16
rs13411484	FSC-A on granulocyte	ebi-a-GCST90001966	2	147467507	T	C	2850	-0.14	0.03	0.00	0.01	20.68
rs112157475	FSC-A on granulocyte	ebi-a-GCST90001966	2	195118976	T	C	2850	-0.24	0.05	0.00	0.01	24.35
rs72615608	FSC-A on granulocyte	ebi-a-GCST90001966	3	145320303	T	G	2850	0.20	0.04	0.00	0.01	20.97
rs12486053	FSC-A on granulocyte	ebi-a-GCST90001966	3	186182741	G	C	2850	-0.32	0.07	0.00	0.01	22.39
rs146287173	FSC-A on granulocyte	ebi-a-GCST90001966	4	14288498	C	T	2850	0.37	0.08	0.00	0.01	19.96
rs153514	FSC-A on granulocyte	ebi-a-GCST90001966	5	142980181	C	T	2850	-0.13	0.03	0.00	0.01	21.39
rs915125	FSC-A on granulocyte	ebi-a-GCST90001966	6	82463376	T	C	2850	0.13	0.03	0.00	0.01	20.32
rs445	FSC-A on granulocyte	ebi-a-GCST90001966	7	92408370	T	C	2850	0.45	0.03	0.00	0.06	171.79
rs80177268	FSC-A on granulocyte	ebi-a-GCST90001966	7	90911672	G	A	2850	0.56	0.11	0.00	0.01	25.90

rs42031	FSC-A on granulocyte	ebi-a-GCST90001966	7	92237396	T	A	2850	-0.19	0.03	0.00	0.01	35.92
rs12675298	FSC-A on granulocyte	ebi-a-GCST90001966	8	6828813	A	G	2850	-0.42	0.09	0.00	0.01	24.00
rs2978899	FSC-A on granulocyte	ebi-a-GCST90001966	8	6691598	G	C	2850	-0.14	0.03	0.00	0.01	24.68
rs2306975	FSC-A on granulocyte	ebi-a-GCST90001966	8	48353258	T	C	2850	0.13	0.03	0.00	0.01	20.54
rs113949273	FSC-A on granulocyte	ebi-a-GCST90001966	12	115749077	A	G	2850	0.63	0.14	0.00	0.01	21.73
rs142088303	FSC-A on granulocyte	ebi-a-GCST90001966	13	40929342	C	T	2850	0.49	0.11	0.00	0.01	19.90
rs144666992	FSC-A on granulocyte	ebi-a-GCST90001966	13	45184855	C	T	2850	-0.96	0.21	0.00	0.01	20.45
rs72821867	FSC-A on granulocyte	ebi-a-GCST90001966	17	38833815	A	G	2850	0.24	0.05	0.00	0.01	19.67
rs73016817	FSC-A on granulocyte	ebi-a-GCST90001966	19	30803794	A	G	2850	0.18	0.04	0.00	0.01	20.49
rs421685	FSC-A on granulocyte	ebi-a-GCST90001966	19	54768528	A	C	2850	-0.74	0.17	0.00	0.01	20.12
rs11697729	FSC-A on granulocyte	ebi-a-GCST90001966	20	45732252	G	A	2850	-0.19	0.04	0.00	0.01	20.21
rs192378299	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	2	40719499	G	A	3112	0.19	0.04	0.00	0.01	21.33
rs144745307	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	3	1506086	C	T	3112	-0.39	0.09	0.00	0.01	20.07
rs74558876	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	3	180757108	G	A	3112	1.48	0.33	0.00	0.01	19.65
rs139494294	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	3	27837769	G	A	3112	0.60	0.13	0.00	0.01	20.46
rs115639631	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	4	157594374	A	C	3112	0.24	0.05	0.00	0.01	20.22
rs10488833	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	4	97953756	G	C	3112	-0.20	0.04	0.00	0.01	20.56
rs2501623	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	6	118068345	C	T	3112	-0.12	0.03	0.00	0.01	20.18
rs529563	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	6	148252713	A	G	3112	0.12	0.03	0.00	0.01	19.95
rs34880703	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	6	102985583	T	C	3112	0.18	0.04	0.00	0.01	20.65
rs55914843	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	7	21111081	G	C	3112	0.15	0.03	0.00	0.01	20.21
rs143798663	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	8	129392532	T	A	3112	0.55	0.12	0.00	0.01	20.43
rs309859	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	8	29876365	C	G	3112	-0.14	0.03	0.00	0.01	25.22
rs7894142	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	10	15158267	C	T	3112	0.19	0.04	0.00	0.01	19.86
rs142456232	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	11	4960640	T	C	3112	-0.33	0.06	0.00	0.01	32.14
rs78736654	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	11	5544477	G	T	3112	-0.34	0.07	0.00	0.01	22.47
rs12364299	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	11	5403108	T	A	3112	-0.26	0.05	0.00	0.01	25.87
rs28659991	CD14+ monocyte	ebi-a-GCST90001967	11	68878311	C	A	3112	-0.17	0.03	0.00	0.01	26.36

rs117045193	FSC-A on CD14+ monocyte FSC-A on	ebi-a-GCST90001967	13	49315399	T	G	3112	-0.64	0.14	0.00	0.01	19.95
rs142074591	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	13	59830957	G	A	3112	-1.35	0.30	0.00	0.01	19.93
rs150082330	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	15	24528125	T	A	3112	-0.63	0.13	0.00	0.01	24.08
rs682039	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	15	22527143	C	T	3112	0.86	0.19	0.00	0.01	19.73
rs72801520	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	16	84971669	G	A	3112	0.22	0.05	0.00	0.01	21.04
rs72843128	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	17	65761112	G	A	3112	-0.26	0.06	0.00	0.01	20.16
rs11652123	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	17	18870524	C	G	3112	0.12	0.03	0.00	0.01	20.76
rs6082136	CD14+ monocyte FSC-A on	ebi-a-GCST90001967	20	20725119	T	C	3112	-0.38	0.09	0.00	0.01	20.18
rs3787953	CD14+ monocyte FSC-A on B cell	ebi-a-GCST90001967	21	43175027	C	T	3112	0.19	0.04	0.00	0.01	21.02
rs12073480	FSC-A on B cell	ebi-a-GCST90001968	1	166711398	C	A	3112	-0.19	0.04	0.00	0.01	20.43
rs116325392	FSC-A on B cell	ebi-a-GCST90001968	1	4629608	T	C	3112	-0.63	0.14	0.00	0.01	20.85
rs75166756	FSC-A on B cell	ebi-a-GCST90001968	3	150053008	T	C	3112	-0.35	0.08	0.00	0.01	19.96
rs72616681	FSC-A on B cell	ebi-a-GCST90001968	3	149784568	G	A	3112	0.16	0.03	0.00	0.01	20.29
rs113029775	FSC-A on B cell	ebi-a-GCST90001968	5	98524035	C	T	3112	1.12	0.25	0.00	0.01	20.53
rs12214648	FSC-A on B cell	ebi-a-GCST90001968	6	144814850	C	A	3112	0.14	0.03	0.00	0.01	19.66
rs36071966	FSC-A on B cell	ebi-a-GCST90001968	7	48174275	A	G	3112	0.32	0.07	0.00	0.01	20.74
rs74680712	FSC-A on B cell	ebi-a-GCST90001968	7	97313850	C	A	3112	-0.37	0.08	0.00	0.01	21.73
rs7076599	FSC-A on B cell	ebi-a-GCST90001968	10	26815673	A	C	3112	-0.19	0.04	0.00	0.01	19.94
rs7119012	FSC-A on B cell	ebi-a-GCST90001968	11	134632636	C	G	3112	0.16	0.04	0.00	0.01	20.16
rs73462585	FSC-A on B cell	ebi-a-GCST90001968	11	21126948	A	G	3112	-0.35	0.08	0.00	0.01	19.78
rs9666963	FSC-A on B cell	ebi-a-GCST90001968	11	69213299	C	T	3112	-0.26	0.06	0.00	0.01	21.10
rs78092605	FSC-A on B cell	ebi-a-GCST90001968	11	4806674	A	G	3112	0.44	0.10	0.00	0.01	21.13
rs117694934	FSC-A on B cell	ebi-a-GCST90001968	12	106509867	T	C	3112	0.21	0.05	0.00	0.01	20.00
rs8000574	FSC-A on B cell	ebi-a-GCST90001968	13	109364348	T	C	3112	-0.13	0.03	0.00	0.01	21.33
rs11861296	FSC-A on B cell	ebi-a-GCST90001968	16	71850632	C	T	3112	0.12	0.03	0.00	0.01	19.90
rs6030209	FSC-A on B cell	ebi-a-GCST90001968	20	41026002	T	C	3112	0.22	0.05	0.00	0.01	19.82
rs6096232	FSC-A on B cell	ebi-a-GCST90001968	20	49637974	G	A	3112	-0.38	0.08	0.00	0.01	21.64
rs6041273	FSC-A on B cell	ebi-a-GCST90001968	20	12321372	A	G	3112	0.13	0.03	0.00	0.01	23.82
rs78491019	FSC-A on B cell	ebi-a-GCST90001968	22	49819964	A	G	3112	-0.97	0.22	0.00	0.01	20.18
rs10919543	FSC-A on NK	ebi-a-GCST90001969	1	161508617	G	A	3113	-0.15	0.03	0.00	0.01	30.83
rs6694654	FSC-A on NK	ebi-a-GCST90001969	1	86178676	T	A	3113	0.14	0.03	0.00	0.01	19.96
rs2774933	FSC-A on NK	ebi-a-GCST90001969	1	62637062	A	G	3113	0.14	0.03	0.00	0.01	23.51
rs2068330	FSC-A on NK	ebi-a-GCST90001969	2	163237390	G	C	3113	-0.12	0.03	0.00	0.01	21.04

rs73112545	FSC-A on NK	ebi-a-GCST90001969	3	2699329	T	C	3113	-0.14	0.03	0.00	0.01	22.45
rs145419574	FSC-A on NK	ebi-a-GCST90001969	6	17386586	T	C	3113	1.10	0.24	0.00	0.01	21.16
rs1735091	FSC-A on NK	ebi-a-GCST90001969	7	152996005	T	C	3113	-0.17	0.04	0.00	0.01	21.11
rs12542554	FSC-A on NK	ebi-a-GCST90001969	8	5579734	T	C	3113	0.21	0.04	0.00	0.01	22.31
rs79678187	FSC-A on NK	ebi-a-GCST90001969	9	91859293	C	G	3113	-0.16	0.03	0.00	0.01	23.63
rs1006368	FSC-A on NK	ebi-a-GCST90001969	10	126346603	T	C	3113	0.39	0.04	0.00	0.03	94.37
rs146765347	FSC-A on NK	ebi-a-GCST90001969	11	11413255	T	C	3113	-0.29	0.06	0.00	0.01	20.89
rs12425743	FSC-A on NK	ebi-a-GCST90001969	12	86546401	G	A	3113	0.88	0.18	0.00	0.01	23.30
rs78273995	FSC-A on NK	ebi-a-GCST90001969	14	79113570	G	A	3113	0.14	0.03	0.00	0.01	20.00
rs16970975	FSC-A on NK	ebi-a-GCST90001969	17	33770706	A	G	3113	-0.17	0.04	0.00	0.01	22.27
rs34700818	FSC-A on NK	ebi-a-GCST90001969	17	48945753	T	C	3113	0.13	0.03	0.00	0.01	19.56
rs9912354	FSC-A on NK	ebi-a-GCST90001969	17	33805730	T	C	3113	0.16	0.03	0.00	0.01	35.86
rs117893932	FSC-A on NK	ebi-a-GCST90001969	18	56570039	G	A	3113	0.28	0.06	0.00	0.01	20.96
rs111460281	FSC-A on NK	ebi-a-GCST90001969	21	46437156	A	G	3113	0.28	0.06	0.00	0.01	20.71
rs55708007	FSC-A on NK	ebi-a-GCST90001969	21	46813143	G	C	3113	0.31	0.06	0.00	0.01	23.05
rs5768144	FSC-A on NK	ebi-a-GCST90001969	22	48307233	G	A	3113	-0.19	0.04	0.00	0.01	20.89
rs569911	FSC-A on HLA DR+	ebi-a-GCST90001970	1	160798209	C	T	2971	-0.16	0.03	0.00	0.01	31.06
rs113248693	FSC-A on HLA DR+	ebi-a-GCST90001970	1	157464822	G	A	2971	-0.77	0.16	0.00	0.01	21.98
rs115805162	FSC-A on HLA DR+	ebi-a-GCST90001970	1	161410253	T	C	2971	0.24	0.03	0.00	0.02	49.83
rs71632979	FSC-A on HLA DR+	ebi-a-GCST90001970	1	161526397	G	A	2971	-0.55	0.03	0.00	0.10	325.41
rs13416971	FSC-A on HLA DR+	ebi-a-GCST90001970	2	87833081	C	A	2971	-0.21	0.05	0.00	0.01	20.31
rs11891318	FSC-A on HLA DR+	ebi-a-GCST90001970	2	130608376	G	C	2971	0.24	0.04	0.00	0.01	29.93
rs35536653	FSC-A on HLA DR+	ebi-a-GCST90001970	2	60291461	G	T	2971	0.14	0.03	0.00	0.01	22.95
rs12524004	FSC-A on HLA DR+	ebi-a-GCST90001970	6	144027987	C	T	2971	-0.41	0.09	0.00	0.01	21.29
rs56365312	FSC-A on HLA DR+	ebi-a-GCST90001970	9	82500743	A	G	2971	1.09	0.24	0.00	0.01	20.24
rs117063850	FSC-A on HLA DR+	ebi-a-GCST90001970	9	7361263	A	G	2971	1.46	0.33	0.00	0.01	19.60
rs118133760	FSC-A on HLA DR+	ebi-a-GCST90001970	10	131453508	C	T	2971	-0.20	0.04	0.00	0.01	20.33
rs1255169	FSC-A on HLA DR+	ebi-a-GCST90001970	11	95513497	C	G	2971	-0.24	0.06	0.00	0.01	19.70
rs61896987	FSC-A on HLA DR+	ebi-a-GCST90001970	11	72765846	C	A	2971	-0.55	0.12	0.00	0.01	21.21
rs147173736	FSC-A on HLA DR+	ebi-a-GCST90001970	11	512255	G	A	2971	-0.28	0.06	0.00	0.01	19.87
rs35620656	FSC-A on HLA DR+	ebi-a-GCST90001970	12	125629103	T	G	2971	0.14	0.03	0.00	0.01	23.09
rs78518201	FSC-A on HLA DR+	ebi-a-GCST90001970	14	91817389	T	C	2971	-0.54	0.11	0.00	0.01	22.69
rs34649904	FSC-A on HLA DR+	ebi-a-GCST90001970	14	60029747	C	T	2971	-2.32	0.51	0.00	0.01	20.90
rs141070453	FSC-A on HLA DR+	ebi-a-GCST90001970	15	29516794	G	A	2971	-0.39	0.08	0.00	0.01	22.18
rs11074932	FSC-A on HLA DR+	ebi-a-GCST90001970	16	10968336	C	T	2971	-0.15	0.03	0.00	0.01	25.07
rs7206658	FSC-A on HLA DR+	ebi-a-GCST90001970	16	68916118	C	G	2971	-0.19	0.04	0.00	0.01	20.23
rs139392177	FSC-A on HLA DR+	ebi-a-GCST90001970	22	18954840	C	A	2971	-0.70	0.16	0.00	0.01	19.82
rs190188611	FSC-A on lymphocyte	ebi-a-GCST90001971	1	177556743	C	T	3113	-1.88	0.41	0.00	0.01	21.11
rs10169473	FSC-A on lymphocyte	ebi-a-GCST90001971	2	224307687	A	G	3113	0.12	0.02	0.00	0.01	22.83
rs10191966	FSC-A on lymphocyte	ebi-a-GCST90001971	2	58932674	G	A	3113	0.16	0.04	0.00	0.01	20.06
rs76883038	FSC-A on lymphocyte	ebi-a-GCST90001971	2	115150773	T	G	3113	-0.18	0.04	0.00	0.01	21.03

rs146445010	FSC-A on lymphocyte	ebi-a-GCST90001971	2	6597596	C	G	3113	-0.44	0.10	0.00	0.01	20.32
rs3104369	FSC-A on lymphocyte	ebi-a-GCST90001971	6	32602482	C	T	3113	-0.14	0.03	0.00	0.01	21.11
rs143298995	FSC-A on lymphocyte	ebi-a-GCST90001971	7	48232877	G	A	3113	-0.14	0.03	0.00	0.01	25.33
rs144027086	FSC-A on lymphocyte	ebi-a-GCST90001971	7	15148913	A	G	3113	2.42	0.51	0.00	0.01	22.80
rs1842502	FSC-A on lymphocyte	ebi-a-GCST90001971	8	136208763	T	C	3113	0.11	0.02	0.00	0.01	19.91
rs2252167	FSC-A on lymphocyte	ebi-a-GCST90001971	10	10534818	A	T	3113	0.14	0.03	0.00	0.01	24.49
rs142476157	FSC-A on lymphocyte	ebi-a-GCST90001971	11	101727658	T	G	3113	0.28	0.06	0.00	0.01	21.29
rs77789294	FSC-A on lymphocyte	ebi-a-GCST90001971	14	29178686	C	T	3113	0.21	0.04	0.00	0.01	25.56
rs7213345	FSC-A on lymphocyte	ebi-a-GCST90001971	17	30211831	T	G	3113	-0.52	0.12	0.00	0.01	20.02
rs1823592	FSC-A on lymphocyte	ebi-a-GCST90001971	18	22484814	C	T	3113	-0.12	0.02	0.00	0.01	22.98
rs192157885	FSC-A on lymphocyte	ebi-a-GCST90001971	20	25983166	C	T	3113	-0.61	0.13	0.00	0.01	21.06
rs12166583	FSC-A on lymphocyte	ebi-a-GCST90001971	22	30483964	A	C	3113	-0.13	0.03	0.00	0.01	26.21
rs35851175	FSC-A on lymphocyte	ebi-a-GCST90001971	22	37462632	G	C	3113	0.16	0.03	0.00	0.01	20.60
rs190188611	FSC-A on T cell	ebi-a-GCST90001972	1	177556743	C	T	3113	-1.92	0.42	0.00	0.01	21.22
rs115752428	FSC-A on T cell	ebi-a-GCST90001972	1	205560814	A	G	3113	0.38	0.08	0.00	0.01	21.24
rs75668319	FSC-A on T cell	ebi-a-GCST90001972	2	60404215	T	C	3113	0.20	0.04	0.00	0.01	21.32
rs10191966	FSC-A on T cell	ebi-a-GCST90001972	2	58932674	G	A	3113	0.16	0.04	0.00	0.01	20.09
rs76883038	FSC-A on T cell	ebi-a-GCST90001972	2	115150773	T	G	3113	-0.19	0.04	0.00	0.01	22.22
rs10169473	FSC-A on T cell	ebi-a-GCST90001972	2	224307687	A	G	3113	0.12	0.03	0.00	0.01	22.33
rs35313751	FSC-A on T cell	ebi-a-GCST90001972	2	129026457	A	G	3113	-1.30	0.29	0.00	0.01	19.98
rs9825166	FSC-A on T cell	ebi-a-GCST90001972	3	72227397	G	A	3113	-0.49	0.10	0.00	0.01	21.64
rs7451962	FSC-A on T cell	ebi-a-GCST90001972	6	32582435	A	G	3113	-0.13	0.03	0.00	0.01	23.29
rs17071867	FSC-A on T cell	ebi-a-GCST90001972	6	110886518	G	T	3113	-0.76	0.16	0.00	0.01	21.53
rs143298995	FSC-A on T cell	ebi-a-GCST90001972	7	48232877	G	A	3113	-0.15	0.03	0.00	0.01	25.75
rs144027086	FSC-A on T cell	ebi-a-GCST90001972	7	15148913	A	G	3113	2.45	0.52	0.00	0.01	22.65
rs1842502	FSC-A on T cell	ebi-a-GCST90001972	8	136208763	T	C	3113	0.12	0.03	0.00	0.01	20.82
rs10786450	FSC-A on T cell	ebi-a-GCST90001972	10	100399366	A	C	3113	0.46	0.10	0.00	0.01	20.57
rs1910504	FSC-A on T cell	ebi-a-GCST90001972	11	11109296	C	T	3113	-0.13	0.03	0.00	0.01	20.26
rs12434214	FSC-A on T cell	ebi-a-GCST90001972	14	98114570	C	G	3113	0.20	0.04	0.00	0.01	19.86
rs77789294	FSC-A on T cell	ebi-a-GCST90001972	14	29178686	C	T	3113	0.21	0.04	0.00	0.01	23.96
rs11652705	FSC-A on T cell	ebi-a-GCST90001972	17	41761741	G	A	3113	0.15	0.03	0.00	0.01	19.78
rs1823592	FSC-A on T cell	ebi-a-GCST90001972	18	22484814	C	T	3113	-0.11	0.03	0.00	0.01	20.67
rs145826240	FSC-A on T cell	ebi-a-GCST90001972	19	41158229	A	G	3113	-0.45	0.10	0.00	0.01	20.53
rs192157885	FSC-A on T cell	ebi-a-GCST90001972	20	25983166	C	T	3113	-0.60	0.13	0.00	0.01	19.85
rs12166583	FSC-A on T cell	ebi-a-GCST90001972	22	30483964	A	C	3113	-0.13	0.03	0.00	0.01	24.42
rs190188611	FSC-A on CD4+	ebi-a-GCST90001973	1	177556743	C	T	3113	-1.90	0.42	0.00	0.01	20.39
rs76585217	FSC-A on CD4+	ebi-a-GCST90001973	2	72027474	A	G	3113	0.52	0.12	0.00	0.01	19.83

rs62142825	FSC-A on CD4+	ebi-a-GCST90001973	2	60508669	G	A	3113	0.17	0.04	0.00	0.01	19.82
rs10169473	FSC-A on CD4+	ebi-a-GCST90001973	2	224307687	A	G	3113	0.12	0.03	0.00	0.01	22.63
rs114801141	FSC-A on CD4+	ebi-a-GCST90001973	3	191847125	C	T	3113	-1.43	0.32	0.00	0.01	19.68
rs11571882	FSC-A on CD4+	ebi-a-GCST90001973	3	42298834	C	G	3113	-1.10	0.24	0.00	0.01	20.08
rs114690517	FSC-A on CD4+	ebi-a-GCST90001973	3	116324393	C	T	3113	0.54	0.11	0.00	0.01	25.62
rs13191523	FSC-A on CD4+	ebi-a-GCST90001973	6	31009094	G	A	3113	0.28	0.05	0.00	0.01	36.45
rs9271673	FSC-A on CD4+	ebi-a-GCST90001973	6	32592833	G	C	3113	-0.21	0.03	0.00	0.01	40.78
rs6922309	FSC-A on CD4+	ebi-a-GCST90001973	6	31321238	C	G	3113	0.19	0.04	0.00	0.01	23.57
rs7745305	FSC-A on CD4+	ebi-a-GCST90001973	6	30913475	C	T	3113	0.21	0.04	0.00	0.01	30.06
rs143298995	FSC-A on CD4+	ebi-a-GCST90001973	7	48232877	G	A	3113	-0.14	0.03	0.00	0.01	22.85
rs144027086	FSC-A on CD4+	ebi-a-GCST90001973	7	15148913	A	G	3113	2.44	0.52	0.00	0.01	22.10
rs1842502	FSC-A on CD4+	ebi-a-GCST90001973	8	136208763	T	C	3113	0.12	0.03	0.00	0.01	20.22
rs41294719	FSC-A on CD4+	ebi-a-GCST90001973	10	6085227	G	A	3113	-0.25	0.06	0.00	0.01	19.78
rs117287835	FSC-A on CD4+	ebi-a-GCST90001973	11	96273624	A	T	3113	-2.44	0.52	0.00	0.01	21.86
rs12434214	FSC-A on CD4+	ebi-a-GCST90001973	14	98114570	C	G	3113	0.21	0.05	0.00	0.01	21.05
rs6564958	FSC-A on CD4+	ebi-a-GCST90001973	16	82051115	A	G	3113	0.12	0.03	0.00	0.01	19.62
rs11652705	FSC-A on CD4+	ebi-a-GCST90001973	17	41761741	G	A	3113	0.15	0.03	0.00	0.01	19.90
rs112736938	FSC-A on CD4+	ebi-a-GCST90001973	18	64359675	C	T	3113	0.44	0.09	0.00	0.01	21.54
rs34362479	FSC-A on CD4+	ebi-a-GCST90001973	18	35106736	G	C	3113	-0.20	0.05	0.00	0.01	19.58
rs192157885	FSC-A on CD4+	ebi-a-GCST90001973	20	25983166	C	T	3113	-0.61	0.14	0.00	0.01	20.06
rs62204954	FSC-A on CD4+	ebi-a-GCST90001973	20	56276822	A	T	3113	-0.84	0.19	0.00	0.01	19.69
rs2154499	FSC-A on CD4+	ebi-a-GCST90001973	21	33538451	C	G	3113	-0.17	0.04	0.00	0.01	21.88
rs12166583	FSC-A on CD4+	ebi-a-GCST90001973	22	30483964	A	C	3113	-0.13	0.03	0.00	0.01	24.68
rs78269918	FSC-A on CD8br	ebi-a-GCST90001974	1	166494041	G	A	3113	-0.26	0.06	0.00	0.01	19.99
rs1891421	FSC-A on CD8br	ebi-a-GCST90001974	1	208036644	C	T	3113	-0.19	0.04	0.00	0.01	22.50
rs7556141	FSC-A on CD8br	ebi-a-GCST90001974	1	44947308	C	T	3113	0.43	0.10	0.00	0.01	19.87
rs2629824	FSC-A on CD8br	ebi-a-GCST90001974	1	114687316	G	A	3113	0.14	0.03	0.00	0.01	21.23
rs10191966	FSC-A on CD8br	ebi-a-GCST90001974	2	58932674	G	A	3113	0.15	0.03	0.00	0.01	20.05
rs10183338	FSC-A on CD8br	ebi-a-GCST90001974	2	111610816	T	G	3113	-0.13	0.03	0.00	0.01	19.58
rs115682796	FSC-A on CD8br	ebi-a-GCST90001974	2	127997576	T	C	3113	0.47	0.10	0.00	0.01	20.63
rs10433403	FSC-A on CD8br	ebi-a-GCST90001974	3	117827774	T	C	3113	-0.27	0.06	0.00	0.01	19.77
rs144027086	FSC-A on CD8br	ebi-a-GCST90001974	7	15148913	A	G	3113	2.49	0.49	0.00	0.01	25.64
rs143298995	FSC-A on CD8br	ebi-a-GCST90001974	7	48232877	G	A	3113	-0.14	0.03	0.00	0.01	24.55
rs343066	FSC-A on CD8br	ebi-a-GCST90001974	7	35557420	C	A	3113	-0.11	0.02	0.00	0.01	23.65
rs7852045	FSC-A on CD8br	ebi-a-GCST90001974	9	91833343	A	G	3113	-0.11	0.02	0.00	0.01	21.48
rs75425029	FSC-A on CD8br	ebi-a-GCST90001974	9	95851910	G	A	3113	0.14	0.03	0.00	0.01	20.58
rs10786450	FSC-A on CD8br	ebi-a-GCST90001974	10	100399366	A	C	3113	0.45	0.10	0.00	0.01	21.76

rs240534	FSC-A on CD8br	ebi-a-GCST90001974	11	126214363	G	C	3113	0.12	0.03	0.00	0.01	19.94
rs77789294	FSC-A on CD8br	ebi-a-GCST90001974	14	29178686	C	T	3113	0.22	0.04	0.00	0.01	29.97
rs7503544	FSC-A on CD8br	ebi-a-GCST90001974	17	16876852	T	G	3113	-0.13	0.03	0.00	0.01	20.49
rs855786	FSC-A on CD8br	ebi-a-GCST90001974	22	37474713	C	T	3113	-0.12	0.02	0.00	0.01	26.64
rs10183967	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	2	71797176	C	A	3060	-0.14	0.03	0.00	0.01	28.67
rs720390	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	3	185548683	A	G	3060	-0.12	0.03	0.00	0.01	20.16
rs3114972	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	3	175507453	G	T	3060	0.15	0.03	0.00	0.01	21.42
rs144027086	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	7	15148913	A	G	3060	2.55	0.56	0.00	0.01	20.94
rs144869562	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	7	33734811	G	A	3060	3.05	0.62	0.00	0.01	24.36
rs73715304	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	7	101194461	A	C	3060	0.15	0.03	0.00	0.01	19.98
rs80093546	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	7	148433716	G	T	3060	0.37	0.08	0.00	0.01	21.92
rs182033296	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	7	88712897	G	A	3060	1.71	0.34	0.00	0.01	25.04
rs66481406	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	7	48817681	C	T	3060	-0.14	0.03	0.00	0.01	21.83
rs76260706	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	7	5250140	G	A	3060	0.99	0.22	0.00	0.01	21.04
rs942133	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	9	14376836	T	A	3060	-0.12	0.03	0.00	0.01	20.48
rs3008396	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	10	134996013	A	G	3060	0.80	0.18	0.00	0.01	20.65
rs788291	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	10	43358147	T	A	3060	-0.13	0.03	0.00	0.01	20.04
rs117916891	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	12	40564222	A	G	3060	0.38	0.08	0.00	0.01	20.22
rs7964408	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	12	95304634	C	T	3060	0.14	0.03	0.00	0.01	19.91
rs10142082	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	14	32375359	G	A	3060	-0.15	0.03	0.00	0.01	20.84
rs568499003	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	17	2596832	G	C	3060	-0.38	0.08	0.00	0.01	23.07
rs2467240	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	17	72491040	C	T	3060	-0.16	0.04	0.00	0.01	20.40
rs797969	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	17	27648638	C	G	3060	-0.21	0.04	0.00	0.01	21.70
rs62074942	FSC-A on HLA DR+ T cell	ebi-a-GCST90001975	18	3130089	A	G	3060	-0.17	0.03	0.00	0.01	23.27
rs55723607	NKT FSC-A on	ebi-a-GCST90001976	1	39487995	A	G	3113	0.59	0.13	0.00	0.01	20.37
rs200789118	NKT FSC-A on	ebi-a-GCST90001976	1	62675673	T	G	3113	-0.33	0.07	0.00	0.01	21.45
rs17861816	NKT FSC-A on	ebi-a-GCST90001976	4	118297081	G	T	3113	0.23	0.05	0.00	0.01	20.56

rs4705195	FSC-A on NKT	ebi-a-GCST90001976	5	147171592	G	A	3113	-0.15	0.03	0.00	0.01	20.56
rs56310961	FSC-A on NKT	ebi-a-GCST90001976	5	63593803	A	G	3113	0.22	0.05	0.00	0.01	21.18
rs140611829	FSC-A on NKT	ebi-a-GCST90001976	6	14271982	A	G	3113	-0.51	0.11	0.00	0.01	20.06
rs802242	FSC-A on NKT	ebi-a-GCST90001976	6	124532234	T	C	3113	-0.15	0.03	0.00	0.01	20.08
rs7458202	FSC-A on NKT	ebi-a-GCST90001976	7	156136658	G	A	3113	0.13	0.03	0.00	0.01	21.05
rs6469957	FSC-A on NKT	ebi-a-GCST90001976	8	121855078	T	A	3113	0.17	0.04	0.00	0.01	20.35
rs113047054	FSC-A on NKT	ebi-a-GCST90001976	9	12210926	C	G	3113	-0.27	0.06	0.00	0.01	23.80
rs10739941	FSC-A on NKT	ebi-a-GCST90001976	9	95767562	G	A	3113	0.16	0.03	0.00	0.01	21.68
rs60499622	FSC-A on NKT	ebi-a-GCST90001976	10	126551228	T	C	3113	0.23	0.04	0.00	0.01	30.35
rs7124198	FSC-A on NKT	ebi-a-GCST90001976	11	5552904	G	C	3113	-0.29	0.06	0.00	0.01	20.28
rs144044889	FSC-A on NKT	ebi-a-GCST90001976	11	94415091	C	T	3113	0.30	0.07	0.00	0.01	19.66
rs146765347	FSC-A on NKT	ebi-a-GCST90001976	11	11413255	T	C	3113	-0.33	0.06	0.00	0.01	30.03
rs9560551	FSC-A on NKT	ebi-a-GCST90001976	13	90739532	C	A	3113	0.78	0.18	0.00	0.01	19.71
rs2216310	FSC-A on NKT	ebi-a-GCST90001976	14	77533344	A	G	3113	0.12	0.03	0.00	0.01	20.44
rs149563576	FSC-A on NKT	ebi-a-GCST90001976	14	29143463	A	G	3113	0.28	0.06	0.00	0.01	19.90
rs12442698	FSC-A on NKT	ebi-a-GCST90001976	15	93856756	G	T	3113	-0.12	0.03	0.00	0.01	20.17
rs75087849	FSC-A on NKT	ebi-a-GCST90001976	16	20171265	A	G	3113	-0.31	0.07	0.00	0.01	19.99
rs8079387	FSC-A on NKT	ebi-a-GCST90001976	17	43926777	T	A	3113	-0.13	0.03	0.00	0.01	20.28
rs10425426	FSC-A on NKT	ebi-a-GCST90001976	19	8782089	T	G	3113	-0.20	0.05	0.00	0.01	19.88
rs111953444	FSC-A on NKT	ebi-a-GCST90001976	21	36130326	T	C	3113	0.35	0.08	0.00	0.01	19.92
rs146688461	HLA DR+ CD4+ FSC-A on	ebi-a-GCST90001977	1	204545064	G	A	3060	0.32	0.07	0.00	0.01	19.88
rs150750018	HLA DR+ CD4+ FSC-A on	ebi-a-GCST90001977	1	242338190	A	G	3060	0.69	0.15	0.00	0.01	20.20
rs2379150	HLA DR+ CD4+ FSC-A on	ebi-a-GCST90001977	1	11494512	T	C	3060	0.12	0.03	0.00	0.01	19.69
rs4950037	HLA DR+ CD4+ FSC-A on	ebi-a-GCST90001977	1	97950934	T	G	3060	-0.13	0.03	0.00	0.01	23.53
rs112728592	HLA DR+ CD4+ FSC-A on	ebi-a-GCST90001977	2	179019068	T	C	3060	0.28	0.06	0.00	0.01	21.45
rs7582130	HLA DR+ CD4+ FSC-A on	ebi-a-GCST90001977	2	71779032	A	G	3060	-0.12	0.03	0.00	0.01	19.58
rs142882340	HLA DR+ CD4+ FSC-A on	ebi-a-GCST90001977	3	98779043	G	A	3060	-0.83	0.17	0.00	0.01	24.92
rs113508249	HLA DR+ CD4+ FSC-A on	ebi-a-GCST90001977	4	82455099	G	A	3060	0.32	0.07	0.00	0.01	23.11
rs76260706	HLA DR+ CD4+ FSC-A on	ebi-a-GCST90001977	7	5250140	G	A	3060	1.02	0.21	0.00	0.01	22.92
rs57276252	HLA DR+ CD4+ FSC-A on	ebi-a-GCST90001977	7	104411433	T	C	3060	0.14	0.03	0.00	0.01	23.02
rs75929528	HLA DR+ CD4+	ebi-a-GCST90001977	9	15258639	C	T	3060	-0.21	0.04	0.00	0.01	23.13

rs142909976	FSC-A on HLA DR+ CD4+	ebi-a-GCST90001977	9	31120417	A	T	3060	-0.65	0.13	0.00	0.01	24.40
rs7939069	FSC-A on HLA DR+ CD4+	ebi-a-GCST90001977	11	47688459	A	G	3060	-0.81	0.18	0.00	0.01	20.39
rs2946832	FSC-A on HLA DR+ CD4+	ebi-a-GCST90001977	12	102718009	T	C	3060	-0.23	0.05	0.00	0.01	21.20
rs142667430	FSC-A on HLA DR+ CD4+	ebi-a-GCST90001977	13	19454846	T	C	3060	1.85	0.41	0.00	0.01	20.65
rs147422381	FSC-A on HLA DR+ CD4+	ebi-a-GCST90001977	15	38054883	A	G	3060	-0.50	0.11	0.00	0.01	21.96
rs12482528	FSC-A on HLA DR+ CD4+	ebi-a-GCST90001977	21	15710293	T	C	3060	-0.23	0.04	0.00	0.01	27.99
rs142804909	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	1	64510605	A	G	3060	0.55	0.12	0.00	0.01	19.90
rs149994217	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	1	157817340	T	A	3060	0.70	0.16	0.00	0.01	19.68
rs6660527	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	1	194357571	T	C	3060	0.59	0.13	0.00	0.01	21.50
rs190188611	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	1	177556743	C	T	3060	-2.10	0.44	0.00	0.01	22.38
rs116744406	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	2	117613346	T	A	3060	-0.14	0.03	0.00	0.01	24.03
rs73175547	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	3	185327012	T	C	3060	-0.17	0.03	0.00	0.01	25.13
rs116220030	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	4	68602634	A	C	3060	-0.42	0.09	0.00	0.01	21.08
rs12500764	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	4	164276557	A	G	3060	-0.52	0.12	0.00	0.01	19.62
rs12662469	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	6	107248127	C	T	3060	2.23	0.50	0.00	0.01	20.09
rs75917881	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	7	101528077	G	A	3060	0.28	0.06	0.00	0.01	19.74
rs2135750	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	8	59118408	C	T	3060	0.12	0.03	0.00	0.01	20.29
rs79034032	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	10	125629883	C	G	3060	0.23	0.05	0.00	0.01	19.83
rs11232360	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	11	80547943	A	G	3060	1.52	0.33	0.00	0.01	20.97
rs1398442	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	12	85809907	G	T	3060	-0.12	0.03	0.00	0.01	19.95
rs35237896	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	13	75021456	A	G	3060	1.71	0.36	0.00	0.01	21.94
rs62058363	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	17	13012605	T	C	3060	0.38	0.08	0.00	0.01	20.91
rs62074941	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	18	3123416	G	A	3060	-0.17	0.03	0.00	0.01	28.32
rs6513961	FSC-A on HLA DR+ CD8br	ebi-a-GCST90001978	20	35824589	G	A	3060	0.14	0.03	0.00	0.01	20.94

rs12239946	CD16 on CD14- CD16+ CD16 on	ebi-a-GCST90001979	1	160319055	C	T	3620	0.24	0.05	0.00	0.01	28.28
rs61806480	CD14- CD16+ CD16 on	ebi-a-GCST90001979	1	175775602	A	G	3620	-0.52	0.11	0.00	0.01	20.29
rs12737621	CD14- CD16+ CD16 on	ebi-a-GCST90001979	1	18698947	G	T	3620	-0.12	0.02	0.00	0.01	23.57
rs74341264	CD14- CD16+ CD16 on	ebi-a-GCST90001979	1	161561151	A	G	3620	0.52	0.04	0.00	0.05	191.13
rs112655418	CD14- CD16+ CD16 on	ebi-a-GCST90001979	1	56261771	C	A	3620	-0.17	0.04	0.00	0.01	20.26
rs17400517	CD14- CD16+ CD16 on	ebi-a-GCST90001979	1	161485259	T	G	3620	-1.15	0.02	0.00	0.40	2434.47
rs4644525	CD14- CD16+ CD16 on	ebi-a-GCST90001979	1	61954826	C	A	3620	-0.24	0.05	0.00	0.01	20.78
rs140966292	CD14- CD16+ CD16 on	ebi-a-GCST90001979	1	175408164	C	A	3620	-0.55	0.10	0.00	0.01	27.88
rs6671271	CD14- CD16+ CD16 on	ebi-a-GCST90001979	1	162250009	A	G	3620	-0.55	0.07	0.00	0.01	53.78
rs3856266	CD14- CD16+ CD16 on	ebi-a-GCST90001979	1	157973889	G	T	3620	-0.23	0.04	0.00	0.01	42.15
rs72700199	CD14- CD16+ CD16 on	ebi-a-GCST90001979	1	162324646	T	C	3620	-0.26	0.04	0.00	0.01	51.95
rs2502806	CD14- CD16+ CD16 on	ebi-a-GCST90001979	1	161135559	G	A	3620	0.21	0.03	0.00	0.02	66.30
rs78804199	CD14- CD16+ CD16 on	ebi-a-GCST90001979	2	37732880	T	C	3620	0.41	0.08	0.00	0.01	26.90
rs35804175	CD14- CD16+ CD16 on	ebi-a-GCST90001979	3	82492118	A	T	3620	0.20	0.05	0.00	0.01	19.59
rs2638546	CD14- CD16+ CD16 on	ebi-a-GCST90001979	6	118994715	A	G	3620	0.21	0.05	0.00	0.01	20.13
rs2184197	CD14- CD16+ CD16 on	ebi-a-GCST90001979	6	170194467	G	C	3620	-0.11	0.03	0.00	0.01	19.62
rs78639067	CD14- CD16+ CD16 on	ebi-a-GCST90001979	8	41217478	G	A	3620	-0.59	0.13	0.00	0.01	21.20
rs17817999	CD14- CD16+ CD16 on	ebi-a-GCST90001979	8	25869608	C	T	3620	0.14	0.03	0.00	0.01	19.91
rs139731096	CD14- CD16+ CD16 on	ebi-a-GCST90001979	9	140753656	C	G	3620	0.12	0.03	0.00	0.01	23.54
rs11860582	CD14- CD16+ CD16 on	ebi-a-GCST90001979	16	62812389	A	T	3620	-0.14	0.03	0.00	0.01	19.70
rs79433597	CD14- CD16+ CD16 on	ebi-a-GCST90001979	19	35015143	A	G	3620	0.39	0.09	0.00	0.01	20.42
rs139085673	CD14- CD16+ CD16 on	ebi-a-GCST90001979	21	37863897	G	A	3620	-1.47	0.32	0.00	0.01	20.57
rs73152567	CD14- CD16+ CD40 on	ebi-a-GCST90001979	22	25105502	C	T	3620	2.33	0.51	0.00	0.01	20.64
rs77869433	CD14+ CD16-	ebi-a-GCST90001980	1	23199772	A	G	3629	0.31	0.07	0.00	0.01	21.46

rs3813611	CD40 on CD14+	ebi-a-GCST90001980	1	161068240	A	G	3629	0.14	0.03	0.00	0.01	29.35
rs1801274	CD16- CD40 on CD14+	ebi-a-GCST90001980	1	161479745	G	A	3629	0.44	0.03	0.00	0.07	289.33
rs149990497	CD16- CD40 on CD14+	ebi-a-GCST90001980	1	163990105	G	A	3629	-0.57	0.13	0.00	0.01	20.54
rs6713465	CD16- CD40 on CD14+	ebi-a-GCST90001980	2	231251562	A	C	3629	0.14	0.03	0.00	0.01	28.77
rs116203109	CD16- CD40 on CD14+	ebi-a-GCST90001980	2	5943436	A	G	3629	-0.31	0.07	0.00	0.01	21.74
rs4894541	CD16- CD40 on CD14+	ebi-a-GCST90001980	3	172015532	G	C	3629	-0.11	0.02	0.00	0.01	19.96
rs188101908	CD16- CD40 on CD14+	ebi-a-GCST90001980	6	87886806	A	G	3629	0.70	0.16	0.00	0.01	19.59
rs117608122	CD16- CD40 on CD14+	ebi-a-GCST90001980	7	152197572	C	T	3629	-0.49	0.10	0.00	0.01	25.21
rs78012242	CD16- CD40 on CD14+	ebi-a-GCST90001980	9	94713706	T	G	3629	-1.75	0.35	0.00	0.01	25.07
rs60629714	CD16- CD40 on CD14+	ebi-a-GCST90001980	9	95889160	C	T	3629	0.19	0.03	0.00	0.01	34.51
rs3780804	CD16- CD40 on CD14+	ebi-a-GCST90001980	9	136598128	G	T	3629	0.17	0.04	0.00	0.01	20.57
rs10887024	CD16- CD40 on CD14+	ebi-a-GCST90001980	10	123688152	T	A	3629	-0.14	0.03	0.00	0.01	26.77
rs76949305	CD16- CD40 on CD14+	ebi-a-GCST90001980	10	24729568	C	T	3629	-0.19	0.04	0.00	0.01	20.90
rs118170720	CD16- CD40 on CD14+	ebi-a-GCST90001980	11	26568364	T	C	3629	0.26	0.06	0.00	0.01	20.14
rs112876754	CD16- CD40 on CD14+	ebi-a-GCST90001980	12	54934521	G	A	3629	0.32	0.07	0.00	0.01	23.84
rs144545136	CD16- CD40 on CD14+	ebi-a-GCST90001980	17	31062466	A	G	3629	1.11	0.24	0.00	0.01	20.86
rs9954245	CD16- CD40 on CD14+	ebi-a-GCST90001980	18	73881725	C	T	3629	-0.15	0.03	0.00	0.01	20.49
rs111929038	CD16- CD40 on CD14+	ebi-a-GCST90001980	19	2660053	T	C	3629	1.26	0.27	0.00	0.01	21.79
rs34658867	CD16- CD40 on CD14+	ebi-a-GCST90001980	20	44977184	C	A	3629	0.31	0.06	0.00	0.01	27.24
rs57041960	CD16- CD40 on CD14+	ebi-a-GCST90001980	20	44074651	C	A	3629	-0.16	0.03	0.00	0.01	25.62
rs75309031	CD16- CD40 on CD14+	ebi-a-GCST90001980	20	44305107	G	C	3629	-0.26	0.06	0.00	0.01	20.27
rs745307	CD16- CD40 on CD14+	ebi-a-GCST90001980	20	44747086	A	G	3629	0.66	0.03	0.00	0.10	394.29
rs117295081	CD16- CD40 on CD14+	ebi-a-GCST90001980	20	45333273	G	A	3629	0.55	0.10	0.00	0.01	32.48
rs1801274	CD16+ monocvte	ebi-a-GCST90001981	1	161479745	G	A	3618	0.46	0.03	0.00	0.08	328.67

rs72927495	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	1	17880459	C	T	3618	0.35	0.08	0.00	0.01	20.11
rs6687275	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	1	161515638	G	T	3618	0.20	0.03	0.00	0.01	48.89
rs113063605	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	1	161246613	G	A	3618	0.19	0.04	0.00	0.01	23.60
rs77649171	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	3	171098461	T	C	3618	0.51	0.11	0.00	0.01	21.30
rs60072425	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	4	77781605	C	A	3618	1.12	0.23	0.00	0.01	23.43
rs12517933	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	5	173665451	C	T	3618	-0.14	0.03	0.00	0.01	21.00
rs138540869	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	5	62602530	T	C	3618	0.39	0.08	0.00	0.01	23.68
rs141130258	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	7	101436472	T	G	3618	0.45	0.10	0.00	0.01	21.06
rs149632680	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	8	24034923	G	A	3618	0.85	0.19	0.00	0.01	20.99
rs11992049	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	8	78906008	T	C	3618	0.19	0.04	0.00	0.01	20.60
rs186177055	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	15	81421309	T	A	3618	1.05	0.22	0.00	0.01	22.35
rs139839882	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	15	30291728	T	C	3618	0.30	0.06	0.00	0.01	24.45
rs72749639	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	15	70326266	A	C	3618	1.57	0.32	0.00	0.01	24.06
rs12443555	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	16	81615369	A	G	3618	1.31	0.26	0.00	0.01	25.04
rs117572234	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	16	59420596	C	T	3618	0.42	0.09	0.00	0.01	19.97
rs745307	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	20	44747086	A	G	3618	0.70	0.03	0.00	0.11	439.13
rs148922794	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	20	44930372	T	C	3618	0.26	0.05	0.00	0.01	28.79
rs11906777	CD40 on CD14+ CD16+ monocvte	ebi-a-GCST90001981	20	39374731	A	G	3618	0.20	0.04	0.00	0.01	26.41

rs2664523	CD40 on CD14+ CD16+ monocvte CD40 on	ebi-a-GCST90001981	20	45318042	A	G	3618	0.36	0.06	0.00	0.01	32.91
rs4810481	CD14+ CD16+ monocvte CCR2 on	ebi-a-GCST90001981	20	44571079	G	T	3618	-0.42	0.09	0.00	0.01	20.19
rs75340063	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	1	162034572	T	C	3621	-1.42	0.30	0.00	0.01	22.48
rs144126567	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	1	161510516	G	C	3621	0.27	0.03	0.00	0.02	68.23
rs71645288	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	1	176456030	A	G	3621	-0.23	0.05	0.00	0.01	19.65
rs78823993	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	1	38868362	A	G	3621	1.51	0.31	0.00	0.01	24.35
rs1752020	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	1	15572133	G	A	3621	-0.13	0.03	0.00	0.01	19.60
rs76650090	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	1	237415220	C	T	3621	0.27	0.06	0.00	0.01	21.00
rs62167242	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	2	146135036	C	T	3621	0.21	0.05	0.00	0.01	19.84
rs12614991	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	2	45342215	A	C	3621	2.32	0.52	0.00	0.01	19.69
rs7623367	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	3	192230559	C	A	3621	0.23	0.05	0.00	0.01	21.92
rs6768910	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	3	74574226	T	A	3621	0.25	0.05	0.00	0.01	24.14
rs142752828	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	4	14542063	T	C	3621	0.95	0.19	0.00	0.01	24.67
rs148775569	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	4	9727374	G	A	3621	-0.21	0.05	0.00	0.01	20.17
rs116231488	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	5	101620120	G	A	3621	1.94	0.43	0.00	0.01	19.97
rs2053045	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	5	145612264	G	T	3621	-0.15	0.03	0.00	0.01	24.26
rs12193797	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	6	41748352	G	A	3621	0.16	0.03	0.00	0.01	25.02
rs59470545	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	6	5974506	C	G	3621	-0.12	0.03	0.00	0.01	20.69
rs2296509	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	6	158489778	T	C	3621	-0.15	0.03	0.00	0.01	20.66
rs112619771	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	7	143427146	C	T	3621	0.29	0.06	0.00	0.01	22.34
rs148096757	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	8	11715710	T	C	3621	1.46	0.31	0.00	0.01	22.30
rs117062237	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	11	20572262	G	A	3621	-0.55	0.12	0.00	0.01	20.95
rs1800973	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	12	69744014	A	C	3621	-0.24	0.05	0.00	0.01	27.33
rs139922750	CD14- CD16+	ebi-a-GCST90001982	12	64437951	A	C	3621	2.60	0.58	0.00	0.01	19.95

rs55808110	CCR2 on CD14- CD16+ CCR2 on	ebi-a-GCST90001982	13	90652564	A	T	3621	-0.15	0.03	0.00	0.01	20.09
rs187783209	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	13	70642363	T	C	3621	0.66	0.14	0.00	0.01	22.74
rs149322792	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	14	95498399	T	C	3621	0.50	0.11	0.00	0.01	19.89
rs1545208	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	16	60271139	C	T	3621	-0.13	0.03	0.00	0.01	22.99
rs72792415	CD14- CD16+ CCR2 on	ebi-a-GCST90001982	16	58686602	G	A	3621	-0.18	0.04	0.00	0.01	22.33
rs143246579	CD14- CD16+ CD14 on	ebi-a-GCST90001982	18	64589063	C	G	3621	-0.86	0.19	0.00	0.01	20.67
rs61759062	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	1	30558818	G	T	3618	0.18	0.04	0.00	0.01	23.29
rs6671847	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	1	161478810	A	G	3618	0.18	0.03	0.00	0.01	43.51
rs10071982	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	5	62703251	G	A	3618	-0.12	0.02	0.00	0.01	21.36
rs71586370	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	5	102625786	C	T	3618	-0.76	0.16	0.00	0.01	21.83
rs26894	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	5	80417663	C	T	3618	-0.12	0.02	0.00	0.01	21.45
rs2569177	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	5	139992162	T	G	3618	0.16	0.03	0.00	0.01	38.28
rs190803173	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	6	378290	T	C	3618	-0.39	0.08	0.00	0.01	21.97
rs13248932	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	8	58311929	C	T	3618	0.17	0.04	0.00	0.01	21.07
rs9406865	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	9	25219707	T	A	3618	-0.24	0.05	0.00	0.01	21.11
rs12262055	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	10	7633337	T	C	3618	-0.14	0.03	0.00	0.01	20.20
rs4291738	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	12	40611618	T	G	3618	0.21	0.04	0.00	0.01	23.43
rs61922057	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	12	12505767	T	C	3618	-0.19	0.04	0.00	0.01	22.33
rs17111403	CD14+ CD16+ monocvte CD14 on	ebi-a-GCST90001983	14	41540685	T	C	3618	-0.24	0.05	0.00	0.01	19.69
rs12593041	CD14+ CD16+ monocvte	ebi-a-GCST90001983	15	52443107	T	C	3618	0.17	0.04	0.00	0.01	22.44

rs62037895	CD14 on CD14+ CD16+	ebi-a-GCST90001983	15	31653646	G	A	3618	-0.15	0.03	0.00	0.01	19.63
rs117306778	monocvte CD14 on CD14+ CD16+	ebi-a-GCST90001983	16	77769277	T	G	3618	-0.26	0.06	0.00	0.01	20.72
rs13043397	monocvte CD14 on CD14+ CD16+	ebi-a-GCST90001983	20	42848689	T	C	3618	0.12	0.03	0.00	0.01	21.42
rs2297606	monocvte HLA DR on CD14- CD16+	ebi-a-GCST90001984	1	154321084	T	G	3621	-0.14	0.03	0.00	0.01	22.76
rs139411978	HLA DR on CD14- CD16+	ebi-a-GCST90001984	2	16339295	A	G	3621	-0.12	0.03	0.00	0.01	19.59
rs6808893	HLA DR on CD14- CD16+	ebi-a-GCST90001984	3	188133439	T	C	3621	-0.20	0.02	0.00	0.02	67.23
rs13076004	HLA DR on CD14- CD16+	ebi-a-GCST90001984	3	34698655	G	A	3621	-0.16	0.03	0.00	0.01	21.11
rs577546	HLA DR on CD14- CD16+	ebi-a-GCST90001984	5	6557042	C	T	3621	-0.14	0.03	0.00	0.01	20.43
rs142856632	HLA DR on CD14- CD16+	ebi-a-GCST90001984	5	150300374	T	G	3621	0.37	0.08	0.00	0.01	20.62
rs6917212	HLA DR on CD14- CD16+	ebi-a-GCST90001984	6	32583005	G	C	3621	-0.48	0.03	0.00	0.06	221.01
rs61742525	HLA DR on CD14- CD16+	ebi-a-GCST90001984	6	33072522	A	G	3621	0.31	0.05	0.00	0.01	42.13
rs9269109	HLA DR on CD14- CD16+	ebi-a-GCST90001984	6	32443266	C	T	3621	0.35	0.03	0.00	0.04	144.40
rs7748976	HLA DR on CD14- CD16+	ebi-a-GCST90001984	6	33890451	A	G	3621	0.17	0.04	0.00	0.01	20.57
rs116671810	HLA DR on CD14- CD16+	ebi-a-GCST90001984	6	31450274	A	G	3621	0.32	0.06	0.00	0.01	34.47
rs412492	HLA DR on CD14- CD16+	ebi-a-GCST90001984	6	32213831	T	A	3621	-0.30	0.03	0.00	0.02	77.66
rs118138479	HLA DR on CD14- CD16+	ebi-a-GCST90001984	10	122312157	A	G	3621	0.90	0.20	0.00	0.01	20.40
rs74970695	HLA DR on CD14- CD16+	ebi-a-GCST90001984	12	27651592	A	T	3621	0.21	0.05	0.00	0.01	21.76
rs7297160	HLA DR on CD14- CD16+	ebi-a-GCST90001984	12	92681286	T	C	3621	-0.12	0.03	0.00	0.01	20.32
rs9652602	HLA DR on CD14- CD16+	ebi-a-GCST90001984	16	11338086	A	T	3621	0.24	0.05	0.00	0.01	20.33
rs8057874	HLA DR on CD14- CD16+	ebi-a-GCST90001984	16	10706593	C	G	3621	0.15	0.03	0.00	0.01	31.50
rs73499473	HLA DR on CD14- CD16+	ebi-a-GCST90001984	16	10978885	T	C	3621	0.38	0.03	0.00	0.05	171.93
rs56353032	HLA DR on CD14- CD16+	ebi-a-GCST90001984	20	17369072	T	A	3621	-0.18	0.04	0.00	0.01	23.80
rs77869433	CD40 on monocytes	ebi-a-GCST90001985	1	23199772	A	G	3629	0.31	0.07	0.00	0.01	22.45
rs1801274	monocytes	ebi-a-GCST90001985	1	161479745	G	A	3629	0.51	0.03	0.00	0.10	396.81

rs2070901	CD40 on monocytes	ebi-a-GCST90001985	1	161185058	T	G	3629	-0.14	0.03	0.00	0.01	24.29
rs113063605	CD40 on monocytes	ebi-a-GCST90001985	1	161246613	G	A	3629	0.22	0.04	0.00	0.01	30.36
rs78882596	CD40 on monocytes	ebi-a-GCST90001985	3	111702977	T	G	3629	1.37	0.29	0.00	0.01	21.86
rs140379607	CD40 on monocytes	ebi-a-GCST90001985	3	4758271	T	C	3629	-0.52	0.11	0.00	0.01	20.98
rs6816965	CD40 on monocytes	ebi-a-GCST90001985	4	180975530	C	T	3629	-4.57	0.96	0.00	0.01	22.61
rs55662279	CD40 on monocytes	ebi-a-GCST90001985	5	175204768	T	C	3629	-0.40	0.09	0.00	0.01	21.86
rs80264041	CD40 on monocytes	ebi-a-GCST90001985	7	49695025	T	C	3629	-0.24	0.05	0.00	0.01	21.33
rs117608122	CD40 on monocytes	ebi-a-GCST90001985	7	152197572	C	T	3629	-0.46	0.10	0.00	0.01	21.99
rs113231250	CD40 on monocytes	ebi-a-GCST90001985	8	107146016	A	G	3629	-1.46	0.32	0.00	0.01	21.45
rs60629714	CD40 on monocytes	ebi-a-GCST90001985	9	95889160	C	T	3629	0.16	0.03	0.00	0.01	23.84
rs10887024	CD40 on monocytes	ebi-a-GCST90001985	10	123688152	T	A	3629	-0.15	0.03	0.00	0.01	31.11
rs61548896	CD40 on monocytes	ebi-a-GCST90001985	10	75300277	C	G	3629	-0.33	0.07	0.00	0.01	21.51
rs118170720	CD40 on monocytes	ebi-a-GCST90001985	11	26568364	T	C	3629	0.28	0.06	0.00	0.01	24.65
rs12225010	CD40 on monocytes	ebi-a-GCST90001985	11	75378674	C	A	3629	-0.11	0.02	0.00	0.01	20.00
rs112876754	CD40 on monocytes	ebi-a-GCST90001985	12	54934521	G	A	3629	0.29	0.07	0.00	0.01	19.64
rs76003695	CD40 on monocytes	ebi-a-GCST90001985	15	82406919	A	G	3629	1.10	0.23	0.00	0.01	23.41
rs117799048	CD40 on monocytes	ebi-a-GCST90001985	16	80007142	A	G	3629	-0.42	0.09	0.00	0.01	19.86
rs144545136	CD40 on monocytes	ebi-a-GCST90001985	17	31062466	A	G	3629	1.11	0.25	0.00	0.01	20.57
rs9954245	CD40 on monocytes	ebi-a-GCST90001985	18	73881725	C	T	3629	-0.15	0.03	0.00	0.01	20.89
rs113466200	CD40 on monocytes	ebi-a-GCST90001985	19	54250532	T	C	3629	0.24	0.05	0.00	0.01	20.96
rs111929038	CD40 on monocytes	ebi-a-GCST90001985	19	2660053	T	C	3629	1.20	0.27	0.00	0.01	19.70
rs117295081	CD40 on monocytes	ebi-a-GCST90001985	20	45333273	G	A	3629	0.52	0.10	0.00	0.01	28.62
rs57041960	CD40 on monocytes	ebi-a-GCST90001985	20	44074651	C	A	3629	-0.17	0.03	0.00	0.01	27.89
rs34658867	CD40 on monocytes	ebi-a-GCST90001985	20	44977184	C	A	3629	0.37	0.06	0.00	0.01	36.60
rs745307	CD40 on monocytes	ebi-a-GCST90001985	20	44747086	A	G	3629	0.72	0.03	0.00	0.11	458.02
rs144062689	CD40 on monocytes	ebi-a-GCST90001985	22	25308118	G	A	3629	1.53	0.32	0.00	0.01	22.71
rs41298798	CD40 on monocytes	ebi-a-GCST90001985	22	19749508	G	C	3629	1.13	0.25	0.00	0.01	20.71
rs4660041	CD14+ CD16- CD14 on	ebi-a-GCST90001986	1	241344611	A	G	3629	0.13	0.03	0.00	0.01	21.12
rs2040433	CD14+ CD16- CD14 on	ebi-a-GCST90001986	1	7448154	C	T	3629	0.19	0.04	0.00	0.01	22.69
rs567921813	CD14+ CD16- CD14 on	ebi-a-GCST90001986	1	1095620	C	G	3629	0.28	0.06	0.00	0.01	22.75
rs6713968	CD14+ CD16- CD14 on	ebi-a-GCST90001986	2	78616884	T	C	3629	0.30	0.07	0.00	0.01	21.03
rs58027502	CD14+ CD16- CD14 on	ebi-a-GCST90001986	5	139978241	T	C	3629	-0.26	0.03	0.00	0.01	54.87
rs26894	CD14+ CD16-	ebi-a-GCST90001986	5	80417663	C	T	3629	-0.12	0.02	0.00	0.01	25.05

rs4128876	CD14 on CD14+ CD16- CD14 on	ebi-a-GCST90001986	6	156303873	G	A	3629	-0.11	0.02	0.00	0.01	19.71
rs9481732	CD14+ CD16- CD14 on	ebi-a-GCST90001986	6	118124789	C	T	3629	-0.21	0.04	0.00	0.01	22.37
rs12663127	CD14+ CD16- CD14 on	ebi-a-GCST90001986	6	139560140	A	C	3629	-0.25	0.06	0.00	0.01	19.80
rs77624779	CD14+ CD16- CD14 on	ebi-a-GCST90001986	9	122726431	G	A	3629	-0.86	0.19	0.00	0.01	21.21
rs117925981	CD14+ CD16- CD14 on	ebi-a-GCST90001986	10	112247155	T	C	3629	-0.23	0.05	0.00	0.01	22.76
rs1041345	CD14+ CD16- CD14 on	ebi-a-GCST90001986	12	41197785	A	G	3629	-0.12	0.02	0.00	0.01	21.80
rs139408196	CD14+ CD16- CD14 on	ebi-a-GCST90001986	12	40575173	T	C	3629	0.24	0.04	0.00	0.01	27.88
rs111820782	CD14+ CD16- CD14 on	ebi-a-GCST90001986	14	28914556	T	C	3629	1.10	0.24	0.00	0.01	21.11
rs79186565	CD14+ CD16- CD14 on	ebi-a-GCST90001986	14	23677385	T	C	3629	0.14	0.03	0.00	0.01	19.57
rs76903175	CD14+ CD16- CD64 on	ebi-a-GCST90001986	18	73892447	G	C	3629	-0.20	0.04	0.00	0.01	21.03
rs144823175	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	149858520	G	C	3622	0.89	0.11	0.00	0.02	64.14
rs76405727	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	119909416	T	A	3622	0.17	0.04	0.00	0.01	19.82
rs1801274	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	161479745	G	A	3622	0.43	0.03	0.00	0.07	274.63
rs116275309	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	150863650	A	G	3622	0.84	0.11	0.00	0.02	58.86
rs116004327	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	117459175	T	G	3622	0.61	0.13	0.00	0.01	23.51
rs150145799	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	149738590	C	T	3622	0.78	0.04	0.00	0.12	473.25
rs12135207	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	160944691	T	C	3622	0.40	0.08	0.00	0.01	25.76
rs112755578	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	149716369	G	A	3622	-0.51	0.05	0.00	0.03	108.92
rs188268415	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	150401679	T	C	3622	-0.60	0.06	0.00	0.03	103.92
rs587759315	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	121480104	T	G	3622	-0.71	0.12	0.00	0.01	36.04
rs192899694	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	146480265	C	T	3622	-0.34	0.07	0.00	0.01	23.19
rs766041	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	165432190	C	A	3622	-0.44	0.10	0.00	0.01	19.63
rs72475593	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	146529499	C	G	3622	-0.48	0.10	0.00	0.01	25.47
rs145828126	CD14+ CD16-	ebi-a-GCST90001987	1	120233380	A	G	3622	-0.34	0.06	0.00	0.01	32.81

rs610249	CD64 on CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	109692641	A	G	3622	-0.12	0.03	0.00	0.01	20.76
rs72705789	CD14+ CD16- CD64 on	ebi-a-GCST90001987	1	162501593	T	G	3622	0.17	0.04	0.00	0.01	20.90
rs139244126	CD14+ CD16- CD64 on	ebi-a-GCST90001987	2	69117194	A	G	3622	0.50	0.11	0.00	0.01	19.64
rs6780007	CD14+ CD16- CD64 on	ebi-a-GCST90001987	3	55074425	T	A	3622	-0.13	0.03	0.00	0.01	19.72
rs1560982	CD14+ CD16- CD64 on	ebi-a-GCST90001987	4	184826026	A	G	3622	0.11	0.02	0.00	0.01	20.67
rs11934532	CD14+ CD16- CD64 on	ebi-a-GCST90001987	4	182164089	G	A	3622	0.14	0.03	0.00	0.01	21.97
rs140329252	CD14+ CD16- CD64 on	ebi-a-GCST90001987	4	131026425	G	C	3622	-0.31	0.07	0.00	0.01	22.17
rs190928917	CD14+ CD16- CD64 on	ebi-a-GCST90001987	6	157071062	T	A	3622	0.71	0.14	0.00	0.01	25.18
rs79003328	CD14+ CD16- CD64 on	ebi-a-GCST90001987	6	71947935	A	G	3622	3.93	0.88	0.00	0.01	19.71
rs142811849	CD14+ CD16- CD64 on	ebi-a-GCST90001987	6	45627057	A	G	3622	3.94	0.88	0.00	0.01	19.88
rs192225504	CD14+ CD16- CD64 on	ebi-a-GCST90001987	7	1597362	T	C	3622	-1.87	0.38	0.00	0.01	24.49
rs80178684	CD14+ CD16- CD64 on	ebi-a-GCST90001987	8	59726631	G	A	3622	-0.64	0.12	0.00	0.01	30.14
rs1919458	CD14+ CD16- CD64 on	ebi-a-GCST90001987	10	13876322	C	A	3622	0.14	0.03	0.00	0.01	19.64
rs6480509	CD14+ CD16- CD64 on	ebi-a-GCST90001987	10	73071462	C	A	3622	0.29	0.06	0.00	0.01	24.17
rs627319	CD14+ CD16- CD64 on	ebi-a-GCST90001987	11	62247621	C	G	3622	0.27	0.06	0.00	0.01	21.06
rs1146114	CD14+ CD16- CD64 on	ebi-a-GCST90001987	12	63713121	C	T	3622	0.12	0.03	0.00	0.01	20.09
rs58902422	CD14+ CD16- CD64 on	ebi-a-GCST90001987	14	39342923	G	A	3622	-0.28	0.05	0.00	0.01	27.04
rs1320440	CD14+ CD16- CD64 on	ebi-a-GCST90001987	14	101333700	C	T	3622	0.20	0.04	0.00	0.01	21.78
rs72774507	CD14+ CD16- CD64 on	ebi-a-GCST90001987	16	6170178	T	C	3622	6.25	1.37	0.00	0.01	20.92
rs16960068	CD14+ CD16- CD64 on	ebi-a-GCST90001987	17	64692068	A	G	3622	0.27	0.06	0.00	0.01	20.04
rs406130	CD14+ CD16- HLA DR on	ebi-a-GCST90001987	19	11940761	A	G	3622	-0.12	0.03	0.00	0.01	21.70
rs150649461	CD14+ CD16- HLA DR on	ebi-a-GCST90001988	1	92925654	C	G	3629	-0.29	0.06	0.00	0.01	20.62
rs148974843	CD14+ CD16- HLA DR on	ebi-a-GCST90001988	1	237971715	G	C	3629	0.27	0.06	0.00	0.01	21.50
rs146897285	CD14+ CD16-	ebi-a-GCST90001988	1	213984208	A	C	3629	0.98	0.21	0.00	0.01	22.33

rs112651313	HLA DR on CD14+	ebi-a-GCST90001988	2	212886345	C	T	3629	0.18	0.04	0.00	0.01	20.04
rs113337372	CD16- HLA DR on CD14+	ebi-a-GCST90001988	2	121677690	A	G	3629	-0.31	0.07	0.00	0.01	19.77
rs113555953	CD16- HLA DR on CD14+	ebi-a-GCST90001988	4	97898706	A	C	3629	0.51	0.11	0.00	0.01	20.59
rs13168479	CD16- HLA DR on CD14+	ebi-a-GCST90001988	5	164249532	T	C	3629	-0.59	0.13	0.00	0.01	19.78
rs146479897	CD16- HLA DR on CD14+	ebi-a-GCST90001988	5	65595525	G	C	3629	0.47	0.10	0.00	0.01	21.45
rs2394447	CD16- HLA DR on CD14+	ebi-a-GCST90001988	6	30826835	T	C	3629	0.17	0.03	0.00	0.01	27.27
rs9469245	CD16- HLA DR on CD14+	ebi-a-GCST90001988	6	32692084	T	C	3629	-0.27	0.03	0.00	0.02	90.95
rs9271768	CD16- HLA DR on CD14+	ebi-a-GCST90001988	6	32594188	G	A	3629	-0.53	0.03	0.00	0.08	319.81
rs80032720	CD16- HLA DR on CD14+	ebi-a-GCST90001988	6	32384933	A	G	3629	0.43	0.05	0.00	0.02	60.86
rs9270585	CD16- HLA DR on CD14+	ebi-a-GCST90001988	6	32561300	T	C	3629	-0.61	0.03	0.00	0.11	470.58
rs150542843	CD16- HLA DR on CD14+	ebi-a-GCST90001988	6	33677931	T	C	3629	-0.31	0.07	0.00	0.01	19.87
rs9261756	CD16- HLA DR on CD14+	ebi-a-GCST90001988	6	30372414	G	A	3629	-0.17	0.03	0.00	0.01	26.22
rs184592417	CD16- HLA DR on CD14+	ebi-a-GCST90001988	8	140310541	C	T	3629	1.34	0.30	0.00	0.01	20.57
rs11788133	CD16- HLA DR on CD14+	ebi-a-GCST90001988	9	137907399	A	G	3629	-0.16	0.03	0.00	0.01	21.75
rs35848415	CD16- HLA DR on CD14+	ebi-a-GCST90001988	11	102879843	G	A	3629	-0.27	0.06	0.00	0.01	21.24
rs143858253	CD16- HLA DR on CD14+	ebi-a-GCST90001988	12	54497116	C	T	3629	0.18	0.04	0.00	0.01	20.22
rs1800973	CD16- HLA DR on CD14+	ebi-a-GCST90001988	12	69744014	A	C	3629	-0.31	0.05	0.00	0.01	46.49
rs62005962	CD16- HLA DR on CD14+	ebi-a-GCST90001988	15	54040290	A	G	3629	-0.12	0.03	0.00	0.01	20.49
rs8043889	CD16- HLA DR on CD14+	ebi-a-GCST90001988	16	27733429	T	C	3629	-0.13	0.03	0.00	0.01	22.52
rs188394267	CD16- CD40 on CD14+	ebi-a-GCST90001988	19	12466408	T	C	3629	-0.21	0.05	0.00	0.01	20.05
rs148765873	CD16+ CD40 on CD14-	ebi-a-GCST90001989	1	161221713	C	T	3621	-0.35	0.06	0.00	0.01	31.04
rs6687275	CD16+ CD40 on CD14-	ebi-a-GCST90001989	1	161515638	G	T	3621	0.34	0.03	0.00	0.04	145.25
rs12122366	CD16+ CD40 on CD14-	ebi-a-GCST90001989	1	162563661	T	C	3621	0.21	0.04	0.00	0.01	26.33
rs139376787	CD16+ CD14-	ebi-a-GCST90001989	1	161847528	A	G	3621	-0.31	0.05	0.00	0.01	42.81

rs61784602	CD40 on CD14- CD16+ CD40 on	ebi-a-GCST90001989	1	46796909	C	T	3621	1.40	0.31	0.00	0.01	20.02
rs1801274	CD14- CD16+ CD40 on	ebi-a-GCST90001989	1	161479745	G	A	3621	0.53	0.03	0.00	0.11	431.12
rs12233381	CD14- CD16+ CD40 on	ebi-a-GCST90001989	3	194232621	A	G	3621	0.19	0.04	0.00	0.01	20.49
rs77649171	CD14- CD16+ CD40 on	ebi-a-GCST90001989	3	171098461	T	C	3621	0.53	0.11	0.00	0.01	22.55
rs55872505	CD14- CD16+ CD40 on	ebi-a-GCST90001989	3	87076367	G	T	3621	0.60	0.14	0.00	0.01	19.56
rs75698615	CD14- CD16+ CD40 on	ebi-a-GCST90001989	3	186653458	A	T	3621	-0.26	0.06	0.00	0.01	21.67
rs60072425	CD14- CD16+ CD40 on	ebi-a-GCST90001989	4	77781605	C	A	3621	1.10	0.23	0.00	0.01	23.10
rs56330830	CD14- CD16+ CD40 on	ebi-a-GCST90001989	4	19891513	C	T	3621	0.18	0.04	0.00	0.01	23.49
rs146963227	CD14- CD16+ CD40 on	ebi-a-GCST90001989	4	17530633	A	G	3621	-0.50	0.10	0.00	0.01	24.37
rs78824072	CD14- CD16+ CD40 on	ebi-a-GCST90001989	5	96185002	T	G	3621	0.19	0.04	0.00	0.01	20.56
rs77774351	CD14- CD16+ CD40 on	ebi-a-GCST90001989	6	22713558	G	C	3621	0.37	0.07	0.00	0.01	31.36
rs35989582	CD14- CD16+ CD40 on	ebi-a-GCST90001989	6	170460783	A	G	3621	0.14	0.03	0.00	0.01	19.99
rs10762188	CD14- CD16+ CD40 on	ebi-a-GCST90001989	10	69876930	A	G	3621	0.12	0.03	0.00	0.01	19.61
rs11032433	CD14- CD16+ CD40 on	ebi-a-GCST90001989	11	33895527	C	T	3621	-0.14	0.03	0.00	0.01	21.78
rs139922750	CD14- CD16+ CD40 on	ebi-a-GCST90001989	12	64437951	A	C	3621	2.55	0.56	0.00	0.01	20.79
rs4766578	CD14- CD16+ CD40 on	ebi-a-GCST90001989	12	111904371	A	T	3621	-0.14	0.03	0.00	0.01	26.92
rs78162364	CD14- CD16+ CD40 on	ebi-a-GCST90001989	14	98109448	T	G	3621	0.44	0.10	0.00	0.01	20.21
rs140839053	CD14- CD16+ CD40 on	ebi-a-GCST90001989	16	21541396	T	C	3621	0.31	0.07	0.00	0.01	20.82
rs745307	CD14- CD16+ CD40 on	ebi-a-GCST90001989	20	44747086	A	G	3621	0.71	0.03	0.00	0.11	448.62
rs34658867	CD14- CD16+ CD40 on	ebi-a-GCST90001989	20	44977184	C	A	3621	0.40	0.06	0.00	0.01	44.41
rs143602490	CD14- CD16+ CD40 on	ebi-a-GCST90001989	20	44010127	T	A	3621	0.61	0.13	0.00	0.01	21.96
rs6073077	CD14- CD16+ CD40 on	ebi-a-GCST90001989	20	42024411	A	G	3621	0.25	0.05	0.00	0.01	20.52
rs6032211	CD14- CD16+ CD40 on	ebi-a-GCST90001989	20	44092301	A	G	3621	0.19	0.03	0.00	0.01	34.01
rs111436326	CD14- CD16+	ebi-a-GCST90001989	20	42701487	T	C	3621	0.41	0.07	0.00	0.01	35.60

rs3788395	CD40 on CD14- CD16+ CD64 on	ebi-a-GCST90001989	22	26738732	A	G	3621	0.13	0.03	0.00	0.01	20.42
rs34710782	CD14- CD16+ CD64 on	ebi-a-GCST90001990	1	11903241	C	T	3614	0.15	0.03	0.00	0.01	22.71
rs150375532	CD14- CD16+ CD64 on	ebi-a-GCST90001990	1	38146353	A	G	3614	1.12	0.25	0.00	0.01	20.93
rs115383270	CD14- CD16+ CD64 on	ebi-a-GCST90001990	1	161531340	A	G	3614	0.29	0.03	0.00	0.02	77.68
rs150145799	CD14- CD16+ CD64 on	ebi-a-GCST90001990	1	149738590	C	T	3614	0.29	0.04	0.00	0.02	58.63
rs2197098	CD14- CD16+ CD64 on	ebi-a-GCST90001990	2	154685822	C	T	3614	-0.15	0.03	0.00	0.01	23.70
rs4681723	CD14- CD16+ CD64 on	ebi-a-GCST90001990	3	57213255	C	G	3614	-0.12	0.02	0.00	0.01	22.52
rs146963227	CD14- CD16+ CD64 on	ebi-a-GCST90001990	4	17530633	A	G	3614	-0.47	0.10	0.00	0.01	21.47
rs10036919	CD14- CD16+ CD64 on	ebi-a-GCST90001990	5	160219464	A	G	3614	-0.13	0.03	0.00	0.01	23.52
rs13161932	CD14- CD16+ CD64 on	ebi-a-GCST90001990	5	42074341	G	A	3614	-0.21	0.05	0.00	0.01	19.86
rs111279951	CD14- CD16+ CD64 on	ebi-a-GCST90001990	5	18068020	A	C	3614	0.30	0.06	0.00	0.01	22.36
rs117283705	CD14- CD16+ CD64 on	ebi-a-GCST90001990	6	102881264	A	G	3614	0.56	0.12	0.00	0.01	20.57
rs9467953	CD14- CD16+ CD64 on	ebi-a-GCST90001990	6	26965804	T	C	3614	-0.12	0.03	0.00	0.01	21.00
rs11772145	CD14- CD16+ CD64 on	ebi-a-GCST90001990	7	67584032	A	C	3614	-0.18	0.04	0.00	0.01	20.98
rs35944461	CD14- CD16+ CD64 on	ebi-a-GCST90001990	8	990572	T	C	3614	0.20	0.04	0.00	0.01	21.33
rs35309480	CD14- CD16+ CD64 on	ebi-a-GCST90001990	8	97002090	G	T	3614	0.16	0.03	0.00	0.01	20.03
rs947853	CD14- CD16+ CD64 on	ebi-a-GCST90001990	11	70567194	T	C	3614	0.12	0.03	0.00	0.01	22.32
rs11065979	CD14- CD16+ CD64 on	ebi-a-GCST90001990	12	112059557	T	C	3614	0.12	0.03	0.00	0.01	21.11
rs74970695	CD14- CD16+ CD64 on	ebi-a-GCST90001990	12	27651592	A	T	3614	0.22	0.05	0.00	0.01	23.64
rs1932805	CD14- CD16+ CD64 on	ebi-a-GCST90001990	13	82498699	T	C	3614	0.21	0.04	0.00	0.01	26.70
rs1333255	CD14- CD16+ CD64 on	ebi-a-GCST90001990	13	94844743	A	G	3614	-0.16	0.04	0.00	0.01	20.00
rs1138358	CD14- CD16+ CD64 on	ebi-a-GCST90001990	15	80263345	C	A	3614	0.14	0.03	0.00	0.01	22.92
rs117446496	CD14- CD16+ HLA DR on	ebi-a-GCST90001990	17	78773924	G	A	3614	-0.27	0.06	0.00	0.01	20.69
rs146897285	CD14+ monocvte	ebi-a-GCST90001991	1	213984208	A	C	3629	0.95	0.21	0.00	0.01	20.95

rs148974843	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	1	237971715	G	C	3629	0.27	0.06	0.00	0.01	21.33
rs113337372	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	2	121677690	A	G	3629	-0.32	0.07	0.00	0.01	20.97
rs112651313	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	2	212886345	C	T	3629	0.18	0.04	0.00	0.01	19.93
rs113555953	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	4	97898706	A	C	3629	0.52	0.11	0.00	0.01	20.84
rs11737889	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	4	64395080	A	G	3629	0.14	0.03	0.00	0.01	21.07
rs146479897	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	5	65595525	G	C	3629	0.46	0.10	0.00	0.01	20.97
rs13168479	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	5	164249532	T	C	3629	-0.59	0.13	0.00	0.01	19.63
rs9261756	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	6	30372414	G	A	3629	-0.17	0.03	0.00	0.01	24.35
rs9270585	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	6	32561300	T	C	3629	-0.59	0.03	0.00	0.11	438.16
rs9271768	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	6	32594188	G	A	3629	-0.51	0.03	0.00	0.08	297.45
rs80032720	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	6	32384933	A	G	3629	0.41	0.05	0.00	0.02	57.60
rs9469245	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	6	32692084	T	C	3629	-0.26	0.03	0.00	0.02	86.33
rs2394447	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	6	30826835	T	C	3629	0.17	0.03	0.00	0.01	25.00
rs184592417	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	8	140310541	C	T	3629	1.32	0.30	0.00	0.01	19.76
rs147628007	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	9	81009018	G	A	3629	0.29	0.06	0.00	0.01	19.97
rs11788133	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	9	137907399	A	G	3629	-0.16	0.03	0.00	0.01	22.33
rs35848415	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	11	102879843	G	A	3629	-0.27	0.06	0.00	0.01	20.44
rs143858253	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	12	54497116	C	T	3629	0.18	0.04	0.00	0.01	20.32
rs1800973	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	12	69744014	A	C	3629	-0.32	0.05	0.00	0.01	47.13
rs62005962	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	15	54040290	A	G	3629	-0.12	0.03	0.00	0.01	20.05
rs8043889	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	16	27733429	T	C	3629	-0.13	0.03	0.00	0.01	22.16
rs188394267	HLA DR on CD14+ monocyte	ebi-a-GCST90001991	19	12466408	T	C	3629	-0.21	0.05	0.00	0.01	20.21
rs115383270	CCR2 on CD14+ CD16+	ebi-a-GCST90001992	1	161531340	A	G	3618	0.26	0.03	0.00	0.02	62.00
rs74890470	CCR2 on CD14+ CD16+	ebi-a-GCST90001992	1	236911296	A	T	3618	2.97	0.60	0.00	0.01	24.21

rs144845257	CCR2 on CD14+ CD16+	ebi-a-GCST90001992	2	227026744	A	T	3618	0.37	0.08	0.00	0.01	20.25
rs114766366	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	2	1326700	T	C	3618	-0.36	0.07	0.00	0.01	23.49
rs139144024	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	2	88635490	A	G	3618	0.43	0.09	0.00	0.01	22.95
rs2036234	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	3	1261465	C	T	3618	-0.12	0.03	0.00	0.01	20.39
rs2361832	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	3	190260037	A	G	3618	0.18	0.04	0.00	0.01	20.93
rs9850642	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	3	46200823	C	A	3618	0.12	0.03	0.00	0.01	19.77
rs77927026	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	4	159974748	T	C	3618	-0.24	0.05	0.00	0.01	22.39
rs34162749	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	5	171532755	A	C	3618	0.40	0.09	0.00	0.01	21.42
rs75117507	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	5	102937489	C	T	3618	1.60	0.36	0.00	0.01	19.93
rs9312875	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	5	14909219	G	A	3618	-0.12	0.02	0.00	0.01	24.21
rs116231488	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	5	101620120	G	A	3618	2.04	0.43	0.00	0.01	22.92
rs9397486	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	6	152449900	A	G	3618	0.12	0.02	0.00	0.01	24.03
rs2745595	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	6	1604845	C	A	3618	-0.11	0.03	0.00	0.01	20.28
rs11753009	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	6	123999692	C	T	3618	0.30	0.07	0.00	0.01	20.64
rs78093069	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	7	147981012	G	A	3618	1.94	0.39	0.00	0.01	25.26
rs146496206	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	7	116000806	A	G	3618	-0.37	0.08	0.00	0.01	19.80
rs117427319	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	7	69208295	T	A	3618	2.86	0.61	0.00	0.01	22.12
rs117340589	monocvte CD14+ CD16+	ebi-a-GCST90001992	8	138634227	G	A	3618	1.70	0.34	0.00	0.01	24.49

rs76641435	CCR2 on CD14+ CD16+	ebi-a-GCST90001992	9	1393540	T	C	3618	0.59	0.13	0.00	0.01	20.42
rs11592564	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	10	115126137	C	T	3618	0.41	0.09	0.00	0.01	22.84
rs76082466	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	11	43196874	T	C	3618	-0.27	0.06	0.00	0.01	20.12
rs1019348	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	12	127402727	C	T	3618	0.33	0.07	0.00	0.01	19.85
rs2046587	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	12	32360576	T	C	3618	0.13	0.03	0.00	0.01	20.79
rs75270021	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	13	70725465	G	A	3618	0.64	0.14	0.00	0.01	19.78
rs72653608	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	13	103344593	A	G	3618	0.90	0.20	0.00	0.01	20.89
rs17351300	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	15	82273904	T	C	3618	-1.73	0.37	0.00	0.01	21.55
rs62042644	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	16	58478227	G	A	3618	0.36	0.08	0.00	0.01	23.26
rs77640671	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	16	58607804	T	C	3618	0.35	0.06	0.00	0.01	31.36
rs139288206	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	17	14094524	T	G	3618	0.44	0.09	0.00	0.01	23.48
rs34205394	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	17	55095409	A	G	3618	-0.51	0.11	0.00	0.01	19.91
rs4547380	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	17	32670982	G	A	3618	-0.12	0.03	0.00	0.01	22.13
rs111661013	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	18	25869222	C	T	3618	0.28	0.06	0.00	0.01	20.37
rs72951070	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	18	30847362	C	T	3618	-0.22	0.05	0.00	0.01	19.97
rs140019375	monocvte CCR2 on CD14+ CD16+	ebi-a-GCST90001992	19	54863920	T	C	3618	1.63	0.33	0.00	0.01	24.25
rs34690145	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001992	19	3759702	C	T	3618	1.23	0.25	0.00	0.01	24.21
rs62126479	CD14+ CD16- PDL-1 on	ebi-a-GCST90001993	2	19062526	T	C	3629	-0.14	0.03	0.00	0.01	21.74
rs143930325	CD14+ CD16-	ebi-a-GCST90001993	4	146544530	G	A	3629	0.49	0.11	0.00	0.01	21.39

rs778582	PDL-1 on CD14+	ebi-a-GCST90001993	5	140004816	T	C	3629	0.15	0.03	0.00	0.01	30.62
rs148958034	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	6	140202191	G	C	3629	-0.57	0.12	0.00	0.01	22.47
rs10281189	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	7	5422545	G	T	3629	-0.20	0.04	0.00	0.01	20.02
rs147810622	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	7	151910695	G	C	3629	-0.51	0.10	0.00	0.01	25.97
rs10276990	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	7	16903052	A	C	3629	0.18	0.04	0.00	0.01	19.94
rs140886794	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	10	44984983	C	A	3629	0.13	0.03	0.00	0.01	19.76
rs72779216	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	16	1400283	C	A	3629	-0.55	0.12	0.00	0.01	20.09
rs740026	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	17	63561681	A	G	3629	0.11	0.03	0.00	0.01	19.65
rs12953239	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	17	35199795	A	G	3629	-0.39	0.08	0.00	0.01	21.04
rs8089422	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	18	54525353	A	G	3629	-0.24	0.05	0.00	0.01	21.80
rs149793797	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	19	1781867	C	G	3629	-0.31	0.06	0.00	0.01	22.83
rs112555198	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	19	2147301	A	G	3629	-0.39	0.09	0.00	0.01	20.57
rs144941477	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	19	47853865	T	C	3629	1.56	0.34	0.00	0.01	21.04
rs150687633	CD16- PDL-1 on CD14+	ebi-a-GCST90001993	20	49270830	G	A	3629	0.28	0.06	0.00	0.01	21.78
rs6661135	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	1	150999414	T	C	3590	0.62	0.14	0.00	0.01	20.57
rs139062294	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	1	35600792	C	A	3590	1.62	0.36	0.00	0.01	20.36
rs144126567	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	1	161510516	G	C	3590	0.51	0.03	0.00	0.07	262.14
rs61801809	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	1	161557512	T	C	3590	-0.18	0.04	0.00	0.01	24.63
rs4648363	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	1	3052501	T	C	3590	-0.13	0.03	0.00	0.01	25.65
rs12614991	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	2	45342215	A	C	3590	2.31	0.52	0.00	0.01	19.71
rs35579164	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	2	20818883	C	G	3590	0.37	0.08	0.00	0.01	21.20
rs115232009	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	2	181113420	G	T	3590	1.54	0.33	0.00	0.01	22.30
rs146027392	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	3	143772423	C	T	3590	-0.45	0.10	0.00	0.01	20.55
rs9823718	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	3	39293757	G	C	3590	-0.21	0.04	0.00	0.01	35.18
rs6813694	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	4	187112141	C	A	3590	-0.84	0.18	0.00	0.01	22.37
rs34331363	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	6	32568439	T	C	3590	0.27	0.06	0.00	0.01	21.82
rs62435155	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	6	164012301	A	C	3590	2.07	0.46	0.00	0.01	20.64
rs117377596	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	6	69443667	C	T	3590	0.27	0.06	0.00	0.01	19.92
rs876036	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	7	50307710	C	T	3590	0.17	0.03	0.00	0.01	34.33
rs71521373	CX3CR1 on CD14- CD16-	ebi-a-GCST90001994	8	30021461	G	C	3590	-0.16	0.04	0.00	0.01	19.65

rs61847551	CX3CR1 on CD14- CD16- CX3CR1 on	ebi-a-GCST90001994	10	53766414	G	A	3590	0.19	0.04	0.00	0.01	21.11
rs17672079	CX3CR1 on CD14- CD16- CX3CR1 on	ebi-a-GCST90001994	16	10331360	A	T	3590	0.21	0.05	0.00	0.01	20.80
rs3826742	CX3CR1 on CD14- CD16- CX3CR1 on	ebi-a-GCST90001994	19	7913752	T	C	3590	-0.11	0.02	0.00	0.01	20.14
rs147571616	CX3CR1 on CD14- CD16- CX3CR1 on	ebi-a-GCST90001994	19	36362737	A	T	3590	-1.41	0.30	0.00	0.01	21.95
rs117379843	CX3CR1 on CD14- CD16- CX3CR1 on	ebi-a-GCST90001994	19	56718736	G	C	3590	0.37	0.08	0.00	0.01	24.07
rs1801274	CX3CR1 on monocyte	ebi-a-GCST90001995	1	161479745	G	A	3590	-0.41	0.03	0.00	0.06	247.96
rs6666038	CX3CR1 on monocyte	ebi-a-GCST90001995	1	162640142	C	T	3590	0.26	0.06	0.00	0.01	20.82
rs4622126	CX3CR1 on monocyte	ebi-a-GCST90001995	1	228017395	G	A	3590	-0.20	0.04	0.00	0.01	23.65
rs6726288	CX3CR1 on monocyte	ebi-a-GCST90001995	2	158585869	C	T	3590	-0.41	0.09	0.00	0.01	20.94
rs17556553	CX3CR1 on monocyte	ebi-a-GCST90001995	2	170821289	A	G	3590	-0.32	0.06	0.00	0.01	27.38
rs77705296	CX3CR1 on monocyte	ebi-a-GCST90001995	2	158703713	A	G	3590	-0.31	0.07	0.00	0.01	22.27
rs73056479	CX3CR1 on monocyte	ebi-a-GCST90001995	3	38700237	T	G	3590	0.55	0.11	0.00	0.01	22.94
rs9823718	CX3CR1 on monocyte	ebi-a-GCST90001995	3	39293757	G	C	3590	-0.41	0.04	0.00	0.03	126.24
rs72865957	CX3CR1 on monocyte	ebi-a-GCST90001995	3	39355919	A	G	3590	0.24	0.03	0.00	0.02	70.54
rs9879669	CX3CR1 on monocyte	ebi-a-GCST90001995	3	7682013	T	C	3590	-0.15	0.03	0.00	0.01	21.86
rs17736094	CX3CR1 on monocyte	ebi-a-GCST90001995	5	5711054	T	C	3590	-0.32	0.07	0.00	0.01	20.27
rs17521541	CX3CR1 on monocyte	ebi-a-GCST90001995	5	24624788	A	T	3590	0.82	0.16	0.00	0.01	25.76
rs115689956	CX3CR1 on monocyte	ebi-a-GCST90001995	7	78974417	G	A	3590	0.20	0.04	0.00	0.01	23.76
rs10951824	CX3CR1 on monocyte	ebi-a-GCST90001995	7	45618083	C	G	3590	-0.13	0.03	0.00	0.01	22.66
rs4548126	CX3CR1 on monocyte	ebi-a-GCST90001995	7	167799	C	T	3590	0.15	0.03	0.00	0.01	22.38
rs28428470	CX3CR1 on monocyte	ebi-a-GCST90001995	8	139593211	C	T	3590	-0.13	0.03	0.00	0.01	20.41
rs41307457	CX3CR1 on monocyte	ebi-a-GCST90001995	9	90340916	A	C	3590	-0.42	0.09	0.00	0.01	22.58
rs17095454	CX3CR1 on monocyte	ebi-a-GCST90001995	10	113333619	C	T	3590	-1.07	0.22	0.00	0.01	22.94
rs117498337	CX3CR1 on monocyte	ebi-a-GCST90001995	11	123076792	G	C	3590	-0.16	0.04	0.00	0.01	20.93
rs9584784	CX3CR1 on monocyte	ebi-a-GCST90001995	13	98918942	G	A	3590	0.12	0.03	0.00	0.01	20.93
rs61957406	CX3CR1 on monocyte	ebi-a-GCST90001995	13	23374374	T	C	3590	0.24	0.05	0.00	0.01	20.18
rs8026803	CX3CR1 on monocyte	ebi-a-GCST90001995	15	80260014	C	T	3590	-0.14	0.03	0.00	0.01	20.39
rs8039434	CX3CR1 on monocyte	ebi-a-GCST90001995	15	33869977	G	A	3590	0.17	0.04	0.00	0.01	19.72
rs75827471	CX3CR1 on monocyte	ebi-a-GCST90001995	16	4267170	A	G	3590	0.40	0.09	0.00	0.01	21.28
rs71387414	CX3CR1 on monocyte	ebi-a-GCST90001995	17	53769223	A	C	3590	0.19	0.04	0.00	0.01	21.18
rs6039829	CX3CR1 on monocyte	ebi-a-GCST90001995	20	10289371	A	G	3590	0.11	0.03	0.00	0.01	19.91
rs1801274	CD14+ CD16+ monocyte CX3CR1 on	ebi-a-GCST90001996	1	161479745	G	A	3579	-0.46	0.03	0.00	0.08	323.34
rs16843658	CD14+ CD16+ monocyte CX3CR1 on	ebi-a-GCST90001996	1	162672134	T	C	3579	-0.36	0.07	0.00	0.01	23.97
rs149100	CD14+ CD16+ monocyte	ebi-a-GCST90001996	1	162441037	G	T	3579	-0.13	0.03	0.00	0.01	28.78

rs1376624	CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	2	187771135	C	T	3579	0.14	0.03	0.00	0.01	21.38
rs62170788	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	2	170958389	T	C	3579	-0.28	0.06	0.00	0.01	20.92
rs72918158	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	3	87078837	A	G	3579	-1.50	0.31	0.00	0.01	23.44
rs58215329	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	3	196465812	T	C	3579	0.18	0.04	0.00	0.01	21.60
rs143002526	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	3	184649632	A	T	3579	-0.55	0.11	0.00	0.01	23.80
rs28491136	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	3	106964051	T	C	3579	-0.16	0.04	0.00	0.01	20.18
rs9823718	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	3	39293757	G	C	3579	-0.33	0.04	0.00	0.02	80.22
rs2649752	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	3	39351805	A	C	3579	0.16	0.03	0.00	0.01	30.50
rs10011142	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	4	5015486	T	C	3579	-0.14	0.03	0.00	0.01	19.67
rs4957969	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	5	110958260	G	A	3579	-0.25	0.05	0.00	0.01	22.57
rs372655475	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	6	68886782	T	G	3579	-0.28	0.06	0.00	0.01	19.72
rs11768517	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	7	54919768	T	G	3579	0.13	0.03	0.00	0.01	24.27
rs10499824	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	7	75171091	T	C	3579	0.44	0.10	0.00	0.01	20.46
rs6952061	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	7	30459852	T	C	3579	0.21	0.05	0.00	0.01	19.95
rs7791415	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	7	44433778	T	C	3579	-0.46	0.10	0.00	0.01	22.99
rs148057702	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	7	97552526	T	C	3579	-0.34	0.07	0.00	0.01	21.31
rs117940302	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	8	123834904	A	G	3579	0.40	0.09	0.00	0.01	22.40
rs117871360	monocvte CD14+ CD16+	ebi-a-GCST90001996	8	3690065	G	A	3579	-0.73	0.16	0.00	0.01	19.88

rs16867973	CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	8	102610279	G	A	3579	0.15	0.03	0.00	0.01	19.91
rs17095454	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	10	113333619	C	T	3579	-1.15	0.22	0.00	0.01	26.25
rs74574092	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	11	100513751	C	T	3579	0.20	0.04	0.00	0.01	22.09
rs894107	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	11	71019939	C	T	3579	0.20	0.04	0.00	0.01	26.07
rs117043578	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	13	104381481	T	C	3579	2.53	0.57	0.00	0.01	19.58
rs9542786	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	13	72514633	C	A	3579	-0.27	0.06	0.00	0.01	21.91
rs12372861	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	14	96662640	G	C	3579	-1.14	0.25	0.00	0.01	20.46
rs182244806	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	15	68651749	T	C	3579	-0.73	0.16	0.00	0.01	20.27
rs59871438	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	15	97432077	C	T	3579	-0.96	0.21	0.00	0.01	20.50
rs17549676	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	16	63344732	A	G	3579	-0.19	0.04	0.00	0.01	20.02
rs112450242	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	17	75272996	T	C	3579	-1.11	0.24	0.00	0.01	21.28
rs117896307	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	18	70433020	C	T	3579	-0.26	0.06	0.00	0.01	19.90
rs139952138	monocvte CX3CR1 on CD14+ CD16+	ebi-a-GCST90001996	22	33593799	T	G	3579	-0.35	0.08	0.00	0.01	20.69
rs141845371	monocvte CX3CR1 on CD14+ CD16- CX3CR1 on	ebi-a-GCST90001997	1	194738786	A	T	3590	0.53	0.11	0.00	0.01	24.40
rs1801274	CD14+ CD16- CX3CR1 on	ebi-a-GCST90001997	1	161479745	G	A	3590	-0.45	0.03	0.00	0.08	298.77
rs67252300	CD14+ CD16- CX3CR1 on	ebi-a-GCST90001997	1	82669375	A	G	3590	0.48	0.10	0.00	0.01	20.94
rs4622126	CD14+ CD16- CX3CR1 on	ebi-a-GCST90001997	1	228017395	G	A	3590	-0.22	0.04	0.00	0.01	28.11
rs12023218	CD14+ CD16- CX3CR1 on	ebi-a-GCST90001997	1	161269897	G	A	3590	0.13	0.03	0.00	0.01	25.44
rs62172045	CD14+ CD16- CX3CR1 on	ebi-a-GCST90001997	2	170899008	A	G	3590	-0.31	0.06	0.00	0.01	25.63
rs77705296	CD14+ CD16-	ebi-a-GCST90001997	2	158703713	A	G	3590	-0.31	0.07	0.00	0.01	21.27

rs13396271	CX3CR1 on CD14+	ebi-a-GCST90001997	2	17055946	G	A	3590	0.16	0.03	0.00	0.01	21.06
rs115129679	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	2	77793865	C	T	3590	1.29	0.29	0.00	0.01	19.70
rs9823718	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	3	39293757	G	C	3590	-0.41	0.04	0.00	0.03	126.91
rs72865957	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	3	39355919	A	G	3590	0.28	0.03	0.00	0.03	98.62
rs73056479	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	3	38700237	T	G	3590	0.60	0.12	0.00	0.01	26.86
rs143813477	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	3	44507750	A	C	3590	-0.15	0.03	0.00	0.01	21.37
rs9879669	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	3	7682013	T	C	3590	-0.15	0.03	0.00	0.01	21.26
rs6414558	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	3	63548238	T	C	3590	0.13	0.03	0.00	0.01	19.91
rs4957969	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	5	110958260	G	A	3590	-0.24	0.05	0.00	0.01	20.71
rs17736094	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	5	5711054	T	C	3590	-0.32	0.07	0.00	0.01	19.74
rs17521541	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	5	24624788	A	T	3590	0.81	0.16	0.00	0.01	24.78
rs4729041	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	7	92063500	T	G	3590	0.17	0.04	0.00	0.01	20.58
rs10951824	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	7	45618083	C	G	3590	-0.13	0.03	0.00	0.01	24.50
rs115689956	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	7	78974417	G	A	3590	0.19	0.04	0.00	0.01	20.76
rs17095454	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	10	113333619	C	T	3590	-1.13	0.22	0.00	0.01	25.50
rs1571526	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	13	98918488	C	T	3590	0.13	0.03	0.00	0.01	22.65
rs72770576	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	16	22948093	T	C	3590	-0.27	0.06	0.00	0.01	22.52
rs75827471	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	16	4267170	A	G	3590	0.41	0.09	0.00	0.01	22.25
rs8064010	CD16- CX3CR1 on CD14+	ebi-a-GCST90001997	16	78685218	T	C	3590	0.16	0.04	0.00	0.01	20.43
rs146719695	CD16- PDL-1 on CD14+	ebi-a-GCST90001997	22	44817424	T	A	3590	-0.36	0.08	0.00	0.01	19.87
rs12025396	CD16+ monocvte PDL-1 on CD14+	ebi-a-GCST90001998	1	107729118	T	C	3618	0.19	0.04	0.00	0.01	20.31
rs61782288	CD16+ monocvte PDL-1 on CD14+	ebi-a-GCST90001998	1	67561056	T	C	3618	0.41	0.09	0.00	0.01	21.56
rs61759109	CD16+ monocvte CD14+	ebi-a-GCST90001998	1	30574812	A	G	3618	0.17	0.03	0.00	0.01	25.27

rs1801274	PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	1	161479745	G	A	3618	0.14	0.03	0.00	0.01	30.35
rs142118225	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	2	173198472	G	A	3618	-1.04	0.23	0.00	0.01	20.93
rs191830506	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	2	218615431	C	G	3618	0.38	0.08	0.00	0.01	22.36
rs74782463	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	3	190713424	G	A	3618	-0.25	0.05	0.00	0.01	22.90
rs1402451	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	3	132795714	A	G	3618	0.23	0.05	0.00	0.01	24.90
rs342002	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	3	5307071	G	A	3618	-1.75	0.38	0.00	0.01	20.93
rs11952327	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	5	32672017	A	G	3618	0.20	0.05	0.00	0.01	19.75
rs139016775	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	5	172936151	C	T	3618	2.04	0.43	0.00	0.01	22.72
rs62477578	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	7	75430887	G	A	3618	-0.24	0.05	0.00	0.01	20.88
rs1419935	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	7	151327301	A	G	3618	-0.19	0.04	0.00	0.01	21.38
rs4737476	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	8	58709282	C	T	3618	-0.14	0.03	0.00	0.01	21.43
rs6992027	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	8	136670964	A	G	3618	0.14	0.03	0.00	0.01	20.16
rs28509412	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	8	138210917	T	C	3618	0.18	0.04	0.00	0.01	24.50
rs34805084	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	9	71230197	A	G	3618	0.18	0.04	0.00	0.01	24.88
rs4750710	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	10	130347772	C	T	3618	0.15	0.03	0.00	0.01	23.54
rs12793538	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	11	103476499	G	A	3618	0.12	0.03	0.00	0.01	19.66
rs61932869	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	12	74304374	G	A	3618	0.24	0.05	0.00	0.01	19.99
rs17261924	monocvte CD14+ CD16+	ebi-a-GCST90001998	13	38290910	T	C	3618	-0.59	0.12	0.00	0.01	22.64

rs9527890	PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	13	59355631	G	A	3618	-0.12	0.03	0.00	0.01	23.00
rs77640671	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	16	58607804	T	C	3618	0.28	0.06	0.00	0.01	19.64
rs16950913	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	17	14952998	C	T	3618	-0.12	0.03	0.00	0.01	22.42
rs8089422	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	18	54525353	A	G	3618	-0.23	0.05	0.00	0.01	19.80
rs144426024	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	18	56897917	T	C	3618	-0.53	0.12	0.00	0.01	19.85
rs34690145	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	19	3759702	C	T	3618	1.22	0.25	0.00	0.01	23.24
rs35585770	monocvte PDL-1 on CD14+ CD16+	ebi-a-GCST90001998	20	3634123	T	G	3618	0.18	0.04	0.00	0.01	20.70
rs150839274	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	1	63779172	T	C	3621	0.44	0.09	0.00	0.01	22.86
rs35384695	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	1	233457799	G	T	3621	0.22	0.05	0.00	0.01	23.08
rs74341264	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	1	161561151	A	G	3621	0.24	0.04	0.00	0.01	39.90
rs71632989	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	1	161533055	G	T	3621	-0.55	0.03	0.00	0.10	387.90
rs1883578	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	1	176446562	A	G	3621	0.31	0.07	0.00	0.01	20.06
rs72700199	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	1	162324646	T	C	3621	-0.18	0.04	0.00	0.01	24.16
rs113565695	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	2	175008676	G	A	3621	-0.40	0.09	0.00	0.01	19.76
rs200614043	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	2	79447312	G	A	3621	-2.26	0.51	0.00	0.01	19.71
rs114864027	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	5	152958194	T	C	3621	0.83	0.18	0.00	0.01	21.74
rs12524781	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	6	154891396	A	G	3621	-0.19	0.04	0.00	0.01	22.16
rs4737476	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	8	58709282	C	T	3621	-0.14	0.03	0.00	0.01	20.63
rs7841427	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	8	142112218	T	C	3621	-0.13	0.03	0.00	0.01	19.80
rs72766757	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	10	1716746	T	C	3621	0.25	0.05	0.00	0.01	23.77
rs72882056	CD14- CD16+ PDL-1 on	ebi-a-GCST90001999	11	5740015	A	G	3621	-0.50	0.11	0.00	0.01	19.84
rs117552079	CD14- CD16+	ebi-a-GCST90001999	11	73714261	A	G	3621	0.26	0.06	0.00	0.01	21.43

rs111824642	PDL-1 on CD14- CD16+	ebi-a-GCST90001999	12	120526148	A	G	3621	0.72	0.16	0.00	0.01	20.07
rs12367061	PDL-1 on CD14- CD16+	ebi-a-GCST90001999	12	119294464	A	G	3621	-0.45	0.10	0.00	0.01	21.37
rs11107060	PDL-1 on CD14- CD16+	ebi-a-GCST90001999	12	93916757	G	A	3621	0.15	0.03	0.00	0.01	22.86
rs710697	PDL-1 on CD14- CD16+	ebi-a-GCST90001999	12	70371053	C	T	3621	0.24	0.05	0.00	0.01	24.75
rs74363387	PDL-1 on CD14- CD16+	ebi-a-GCST90001999	20	48899907	T	C	3621	0.19	0.04	0.00	0.01	27.28
rs113887836	PDL-1 on CD14- CD16+	ebi-a-GCST90001999	22	46233179	T	G	3621	0.52	0.12	0.00	0.01	19.64
rs139529340	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	1	161563554	G	A	3629	0.15	0.03	0.00	0.01	28.11
rs12042800	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	1	245930713	C	T	3629	0.13	0.03	0.00	0.01	20.23
rs77455113	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	1	198518569	A	T	3629	-2.00	0.44	0.00	0.01	20.24
rs9728174	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	1	240600690	A	T	3629	0.21	0.05	0.00	0.01	19.66
rs62649771	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	2	5649823	T	A	3629	-0.29	0.06	0.00	0.01	28.05
rs72928949	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	2	203570761	C	G	3629	0.11	0.02	0.00	0.01	20.96
rs4973409	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	2	232311871	T	C	3629	-0.12	0.03	0.00	0.01	20.91
rs149427550	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	2	240353586	T	C	3629	1.88	0.38	0.00	0.01	25.00
rs6770996	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	3	147470053	C	T	3629	-0.13	0.03	0.00	0.01	23.62
rs719508	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	3	65696503	A	G	3629	0.26	0.06	0.00	0.01	20.01
rs77153881	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	3	38673487	T	A	3629	-0.26	0.06	0.00	0.01	21.92
rs183608856	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	4	77258306	T	G	3629	0.47	0.10	0.00	0.01	21.04
rs139016879	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	4	77737913	C	T	3629	0.59	0.13	0.00	0.01	22.28
rs2654849	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	4	100396690	T	G	3629	0.11	0.02	0.00	0.01	21.33
rs143753691	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	4	80579882	T	C	3629	0.32	0.07	0.00	0.01	20.50
rs35141864	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	4	7148099	T	C	3629	-0.11	0.02	0.00	0.01	21.04
rs78511754	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	7	78911065	A	T	3629	-0.32	0.07	0.00	0.01	20.59
rs73168946	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	7	138590465	A	T	3629	-0.16	0.03	0.00	0.01	21.50
rs2969497	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	7	4926535	C	T	3629	-0.18	0.04	0.00	0.01	20.75
rs682812	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	8	2821756	T	C	3629	2.57	0.58	0.00	0.01	19.67
rs143917558	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	9	106448354	G	T	3629	0.52	0.11	0.00	0.01	22.48
rs12256905	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	10	32700539	C	A	3629	-0.16	0.03	0.00	0.01	21.85
rs4980645	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	11	70616492	T	C	3629	0.38	0.08	0.00	0.01	23.94
rs1800973	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	12	69744014	A	C	3629	-0.28	0.04	0.00	0.01	40.35
rs1628382	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	13	95764061	T	C	3629	0.13	0.03	0.00	0.01	20.43
rs4885909	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	13	84709903	G	A	3629	0.16	0.04	0.00	0.01	19.68
rs73516783	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	13	70618933	C	G	3629	0.59	0.12	0.00	0.01	22.69
rs79262480	PDL-1 on CD14- CD16-	ebi-a-GCST90002000	15	70503605	T	C	3629	-0.31	0.07	0.00	0.01	20.53

rs2331414	PDL-1 on CD14- CD16- CD64 on	ebi-a-GCST90002000	17	62161454	C	T	3629	-0.26	0.06	0.00	0.01	20.32
rs150145799	CD14- CD16- CD64 on	ebi-a-GCST90002001	1	149738590	C	T	3622	0.29	0.04	0.00	0.02	62.27
rs72930744	CD14- CD16- CD64 on	ebi-a-GCST90002001	2	203597269	T	C	3622	0.13	0.02	0.00	0.01	26.84
rs4077641	CD14- CD16- CD64 on	ebi-a-GCST90002001	2	161551327	A	G	3622	0.19	0.04	0.00	0.01	20.68
rs9830508	CD14- CD16- CD64 on	ebi-a-GCST90002001	3	177553362	T	C	3622	0.18	0.04	0.00	0.01	19.88
rs6834422	CD14- CD16- CD64 on	ebi-a-GCST90002001	4	131175275	T	C	3622	-0.13	0.03	0.00	0.01	21.46
rs7714855	CD14- CD16- CD64 on	ebi-a-GCST90002001	5	147431095	G	T	3622	-0.56	0.13	0.00	0.01	19.59
rs558721	CD14- CD16- CD64 on	ebi-a-GCST90002001	6	32570573	T	C	3622	0.33	0.06	0.00	0.01	31.93
rs183506865	CD14- CD16- CD64 on	ebi-a-GCST90002001	6	137921821	A	G	3622	2.97	0.64	0.00	0.01	21.78
rs7002380	CD14- CD16- CD64 on	ebi-a-GCST90002001	8	124722391	T	C	3622	-0.26	0.06	0.00	0.01	19.69
rs189868170	CD14- CD16- CD64 on	ebi-a-GCST90002001	9	8755271	G	T	3622	-0.36	0.08	0.00	0.01	20.28
rs74149061	CD14- CD16- CD64 on	ebi-a-GCST90002001	10	92919256	T	G	3622	-0.20	0.04	0.00	0.01	19.56
rs116872398	CD14- CD16- CD64 on	ebi-a-GCST90002001	11	108805701	C	T	3622	-0.69	0.16	0.00	0.01	19.59
rs1566303	CD14- CD16- CD64 on	ebi-a-GCST90002001	12	63704970	T	C	3622	0.11	0.02	0.00	0.01	21.35
rs1800973	CD14- CD16- CD64 on	ebi-a-GCST90002001	12	69744014	A	C	3622	-0.23	0.04	0.00	0.01	26.25
rs189043718	CD14- CD16- CD64 on	ebi-a-GCST90002001	13	28118710	A	C	3622	0.43	0.09	0.00	0.01	24.37
rs9597833	CD14- CD16- CD64 on	ebi-a-GCST90002001	13	59334076	G	T	3622	-0.14	0.03	0.00	0.01	30.47
rs112698696	CD14- CD16- CD64 on	ebi-a-GCST90002001	17	25745048	A	G	3622	0.28	0.06	0.00	0.01	21.17
rs4908637	PDL-1 on monocyte	ebi-a-GCST90002002	1	7482757	A	G	3629	0.33	0.07	0.00	0.01	20.27
rs9427401	PDL-1 on monocyte	ebi-a-GCST90002002	1	161492175	G	C	3629	-0.27	0.03	0.00	0.02	87.28
rs2569177	PDL-1 on monocyte	ebi-a-GCST90002002	5	139992162	T	G	3629	0.13	0.03	0.00	0.01	23.29
rs74538501	PDL-1 on monocyte	ebi-a-GCST90002002	5	23367000	T	C	3629	-1.39	0.29	0.00	0.01	23.33
rs10276990	PDL-1 on monocyte	ebi-a-GCST90002002	7	16903052	A	C	3629	0.20	0.04	0.00	0.01	23.09
rs73160029	PDL-1 on monocyte	ebi-a-GCST90002002	7	151523758	C	T	3629	-0.53	0.12	0.00	0.01	21.15
rs147810622	PDL-1 on monocyte	ebi-a-GCST90002002	7	151910695	G	C	3629	-0.59	0.10	0.00	0.01	34.71
rs10103683	PDL-1 on monocyte	ebi-a-GCST90002002	8	106272376	C	G	3629	-0.12	0.03	0.00	0.01	20.83
rs11038817	PDL-1 on monocyte	ebi-a-GCST90002002	11	46226004	T	C	3629	0.29	0.06	0.00	0.01	21.02
rs578253340	PDL-1 on monocyte	ebi-a-GCST90002002	16	57140525	T	A	3629	-0.24	0.05	0.00	0.01	20.81
rs17851876	PDL-1 on monocyte	ebi-a-GCST90002002	16	67979423	T	G	3629	0.29	0.07	0.00	0.01	20.13
rs12953239	PDL-1 on monocyte	ebi-a-GCST90002002	17	35199795	A	G	3629	-0.40	0.08	0.00	0.01	22.28
rs10454715	PDL-1 on monocyte	ebi-a-GCST90002002	18	48996522	C	T	3629	-0.59	0.13	0.00	0.01	20.18
rs8089422	PDL-1 on monocyte	ebi-a-GCST90002002	18	54525353	A	G	3629	-0.24	0.05	0.00	0.01	20.82
rs75567064	PDL-1 on monocyte	ebi-a-GCST90002002	20	48898441	A	G	3629	0.19	0.04	0.00	0.01	25.04
rs4809811	PDL-1 on monocyte	ebi-a-GCST90002002	20	49351740	T	C	3629	-0.12	0.03	0.00	0.01	21.35
rs146537837	CCR2 on CD14- CD16-	ebi-a-GCST90002003	1	98705577	A	G	3629	0.74	0.17	0.00	0.01	19.72
rs17608966	CCR2 on CD14- CD16-	ebi-a-GCST90002003	2	15278190	C	G	3629	-0.11	0.02	0.00	0.01	19.72
rs762789	CCR2 on CD14- CD16-	ebi-a-GCST90002003	3	46402627	A	G	3629	-0.19	0.02	0.00	0.02	55.84

rs28692786	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	3	119522753	T	C	3629	0.87	0.20	0.00	0.01	19.86
rs9825805	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	3	177552702	T	C	3629	0.18	0.04	0.00	0.01	19.72
rs144199265	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	4	63222990	T	C	3629	-0.46	0.10	0.00	0.01	19.75
rs2973741	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	5	177821665	G	A	3629	0.11	0.02	0.00	0.01	20.59
rs188482110	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	5	68260933	T	C	3629	-0.33	0.07	0.00	0.01	19.74
rs77465361	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	5	159009803	T	G	3629	0.46	0.08	0.00	0.01	33.41
rs3793333	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	7	156801023	C	T	3629	-0.20	0.04	0.00	0.01	20.87
rs117383806	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	8	140934719	T	C	3629	0.48	0.10	0.00	0.01	21.60
rs7131521	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	11	108956889	A	G	3629	-0.31	0.07	0.00	0.01	19.66
rs144044548	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	12	30923098	G	A	3629	0.24	0.05	0.00	0.01	20.62
rs1800973	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	12	69744014	A	C	3629	-0.25	0.04	0.00	0.01	30.94
rs11655786	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	17	21074153	A	C	3629	-0.13	0.03	0.00	0.01	19.60
rs139270458	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	17	16283736	G	A	3629	0.39	0.09	0.00	0.01	19.92
rs6417105	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	18	47013723	T	A	3629	0.13	0.03	0.00	0.01	23.01
rs141988029	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	18	61962829	A	G	3629	1.70	0.38	0.00	0.01	20.39
rs140264318	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	19	29692512	C	T	3629	-0.91	0.18	0.00	0.01	24.58
rs12981940	CCR2 on CD14- CD16- CCR2 on	ebi-a-GCST90002003	19	35789377	G	A	3629	-0.12	0.02	0.00	0.01	22.24
rs114744368	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	1	240779226	T	C	3629	-0.64	0.14	0.00	0.01	20.34
rs12613485	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	2	102154764	A	G	3629	-0.19	0.04	0.00	0.01	19.69
rs2683681	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	2	67747535	A	G	3629	0.11	0.02	0.00	0.01	20.14
rs2160337	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	2	36964751	G	T	3629	0.13	0.03	0.00	0.01	20.06
rs116078872	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	2	239553302	T	G	3629	-0.85	0.19	0.00	0.01	19.64
rs1386098	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	3	97446764	A	G	3629	-1.24	0.28	0.00	0.01	19.70
rs4683184	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	3	46187707	A	G	3629	0.25	0.03	0.00	0.02	87.82
rs79825014	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	3	46880193	T	G	3629	-0.42	0.07	0.00	0.01	37.46
rs13060505	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	3	46968023	G	C	3629	0.42	0.08	0.00	0.01	26.77
rs2270454	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	3	10292140	T	C	3629	-0.25	0.05	0.00	0.01	20.82
rs141411805	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	3	53544015	G	C	3629	-0.60	0.10	0.00	0.01	34.03
rs184445588	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	3	47210979	T	G	3629	0.72	0.16	0.00	0.01	21.21
rs777404	CD14+ CD16-	ebi-a-GCST90002004	4	71016615	A	G	3629	2.41	0.50	0.00	0.01	23.63

rs62327180	CCR2 on CD14+ CD16- CCR2 on	ebi-a-GCST90002004	4	103540762	A	G	3629	-0.12	0.03	0.00	0.01	19.96
rs111162334	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	7	51430245	T	C	3629	0.11	0.02	0.00	0.01	21.30
rs28561969	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	7	231461	T	C	3629	-0.11	0.02	0.00	0.01	20.90
rs7000391	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	8	12709650	C	T	3629	0.16	0.03	0.00	0.01	21.13
rs56407854	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	8	136669344	A	G	3629	0.15	0.03	0.00	0.01	21.24
rs147404212	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	9	100014987	A	G	3629	1.96	0.43	0.00	0.01	20.44
rs10081735	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	9	105486830	A	G	3629	0.20	0.04	0.00	0.01	22.90
rs190371975	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	9	106439903	G	C	3629	0.45	0.10	0.00	0.01	19.78
rs7896883	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	10	98787354	C	T	3629	0.17	0.04	0.00	0.01	20.05
rs78109162	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	11	129986854	A	G	3629	-0.28	0.06	0.00	0.01	21.01
rs10878258	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	12	40641692	G	A	3629	-0.13	0.03	0.00	0.01	27.95
rs12185230	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	17	79591388	A	G	3629	2.96	0.66	0.00	0.01	20.41
rs112976913	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	17	69699532	C	T	3629	2.63	0.58	0.00	0.01	20.40
rs79049673	CD14+ CD16- CCR2 on	ebi-a-GCST90002004	19	3274527	T	C	3629	0.35	0.08	0.00	0.01	21.72
rs2426939	CD14+ CD16- CD16 on	ebi-a-GCST90002004	20	59484022	C	A	3629	-0.11	0.02	0.00	0.01	20.26
rs71632979	CD14+ CD16+ monocvte CD16 on	ebi-a-GCST90002005	1	161526397	G	A	3617	-0.85	0.03	0.00	0.23	1084.61
rs115805162	CD14+ CD16+ monocvte CD16 on	ebi-a-GCST90002005	1	161410253	T	C	3617	0.31	0.03	0.00	0.03	96.32
rs187197560	CD14+ CD16+ monocvte CD16 on	ebi-a-GCST90002005	1	161006723	T	C	3617	-0.53	0.08	0.00	0.01	44.71
rs147678401	CD14+ CD16+ monocvte CD16 on	ebi-a-GCST90002005	1	161035780	A	G	3617	-0.35	0.06	0.00	0.01	30.41
rs143140559	CD14+ CD16+ monocvte CD16 on	ebi-a-GCST90002005	1	160972255	T	C	3617	-0.65	0.13	0.00	0.01	25.35
rs73008073	CD14+ CD16+ monocvte CD16 on	ebi-a-GCST90002005	1	149241581	T	C	3617	0.23	0.05	0.00	0.01	22.11
rs71639910	CD14+ CD16+ monocvte	ebi-a-GCST90002005	1	161937774	A	G	3617	-0.38	0.05	0.00	0.02	59.18

rs113857680	CD16 on CD14+ CD16+	ebi-a-GCST90002005	1	56634923	T	C	3617	-0.26	0.06	0.00	0.01	22.16
rs35583090	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	1	160450885	A	G	3617	-0.31	0.07	0.00	0.01	21.84
rs3842968	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	1	95320281	C	G	3617	0.13	0.03	0.00	0.01	22.63
rs250957	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	2	234992975	T	C	3617	-0.17	0.04	0.00	0.01	20.76
rs73976590	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	2	173072824	T	C	3617	0.26	0.06	0.00	0.01	21.60
rs2342702	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	2	45411188	C	T	3617	0.14	0.03	0.00	0.01	22.23
rs79338412	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	3	41079463	C	T	3617	0.86	0.19	0.00	0.01	20.66
rs13361130	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	5	177378903	A	G	3617	-1.15	0.24	0.00	0.01	23.26
rs141952082	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	6	35411155	T	C	3617	0.18	0.04	0.00	0.01	22.58
rs6899613	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	6	148553992	A	G	3617	-0.14	0.03	0.00	0.01	24.21
rs6955633	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	7	71270245	G	A	3617	0.25	0.05	0.00	0.01	22.15
rs817258	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	8	2779954	T	C	3617	-0.29	0.06	0.00	0.01	22.27
rs117725134	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	11	106624331	C	T	3617	0.12	0.03	0.00	0.01	19.91
rs72778152	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	16	3741396	T	A	3617	0.17	0.04	0.00	0.01	20.05
rs8052828	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	16	1526293	C	T	3617	-0.11	0.03	0.00	0.01	19.66
rs112843603	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	19	52648160	G	A	3617	0.19	0.04	0.00	0.01	20.45
rs75068893	monocvte CD16 on CD14+ CD16+	ebi-a-GCST90002005	19	55794439	C	A	3617	-0.34	0.07	0.00	0.01	20.13
rs12023218	monocvte CD64 on monocyte	ebi-a-GCST90002006	1	161269897	G	A	3622	-0.11	0.03	0.00	0.01	19.64
rs3007144	monocvte CD64 on monocyte	ebi-a-GCST90002006	1	160929890	T	C	3622	0.15	0.03	0.00	0.01	20.96
rs587759315	monocvte CD64 on monocyte	ebi-a-GCST90002006	1	121480104	T	G	3622	-0.64	0.12	0.00	0.01	28.30

rs192899694	CD64 on monocyte	ebi-a-GCST90002006	1	146480265	C	T	3622	-0.33	0.07	0.00	0.01	21.31
rs141156871	CD64 on monocyte	ebi-a-GCST90002006	1	150447458	G	T	3622	0.26	0.06	0.00	0.01	20.41
rs145828126	CD64 on monocyte	ebi-a-GCST90002006	1	120233380	A	G	3622	-0.32	0.06	0.00	0.01	29.94
rs188268415	CD64 on monocyte	ebi-a-GCST90002006	1	150401679	T	C	3622	-0.56	0.06	0.00	0.02	87.74
rs1801274	CD64 on monocyte	ebi-a-GCST90002006	1	161479745	G	A	3622	0.39	0.03	0.00	0.06	227.00
rs144823175	CD64 on monocyte	ebi-a-GCST90002006	1	149858520	G	C	3622	0.87	0.11	0.00	0.02	60.40
rs150145799	CD64 on monocyte	ebi-a-GCST90002006	1	149738590	C	T	3622	0.72	0.04	0.00	0.10	393.51
rs116004327	CD64 on monocyte	ebi-a-GCST90002006	1	117459175	T	G	3622	0.62	0.13	0.00	0.01	24.25
rs112755578	CD64 on monocyte	ebi-a-GCST90002006	1	149716369	G	A	3622	-0.45	0.05	0.00	0.02	81.20
rs116770889	CD64 on monocyte	ebi-a-GCST90002006	1	116993158	T	C	3622	-0.56	0.12	0.00	0.01	21.74
rs116275309	CD64 on monocyte	ebi-a-GCST90002006	1	150863650	A	G	3622	0.82	0.11	0.00	0.02	55.53
rs114066620	CD64 on monocyte	ebi-a-GCST90002006	2	67612820	A	G	3622	2.32	0.50	0.00	0.01	21.56
rs76258977	CD64 on monocyte	ebi-a-GCST90002006	2	219052326	A	T	3622	-0.23	0.05	0.00	0.01	20.04
rs6780007	CD64 on monocyte	ebi-a-GCST90002006	3	55074425	T	A	3622	-0.14	0.03	0.00	0.01	21.91
rs11934532	CD64 on monocyte	ebi-a-GCST90002006	4	182164089	G	A	3622	0.15	0.03	0.00	0.01	25.15
rs190928917	CD64 on monocyte	ebi-a-GCST90002006	6	157071062	T	A	3622	0.65	0.14	0.00	0.01	20.48
rs192225504	CD64 on monocyte	ebi-a-GCST90002006	7	1597362	T	C	3622	-1.87	0.38	0.00	0.01	24.03
rs10276990	CD64 on monocyte	ebi-a-GCST90002006	7	16903052	A	C	3622	0.19	0.04	0.00	0.01	20.53
rs192997418	CD64 on monocyte	ebi-a-GCST90002006	8	99553474	A	G	3622	0.89	0.20	0.00	0.01	20.30
rs80178684	CD64 on monocyte	ebi-a-GCST90002006	8	59726631	G	A	3622	-0.65	0.12	0.00	0.01	30.46
rs6480509	CD64 on monocyte	ebi-a-GCST90002006	10	73071462	C	A	3622	0.27	0.06	0.00	0.01	20.34
rs142408635	CD64 on monocyte	ebi-a-GCST90002006	11	92180250	C	T	3622	-0.39	0.08	0.00	0.01	23.35
rs11065979	CD64 on monocyte	ebi-a-GCST90002006	12	112059557	T	C	3622	0.13	0.03	0.00	0.01	24.19
rs58902422	CD64 on monocyte	ebi-a-GCST90002006	14	39342923	G	A	3622	-0.27	0.05	0.00	0.01	25.23
rs16960068	CD64 on monocyte	ebi-a-GCST90002006	17	64692068	A	G	3622	0.30	0.06	0.00	0.01	24.21
rs9941795	CD64 on monocyte	ebi-a-GCST90002006	21	19063114	A	C	3622	0.18	0.04	0.00	0.01	23.34
rs7514594	HLA DR on CD14+ CD16+	ebi-a-GCST90002007	1	209819061	G	C	3618	0.23	0.05	0.00	0.01	26.83
rs77131320	HLA DR on CD14+ CD16+	ebi-a-GCST90002007	1	191529098	A	C	3618	0.19	0.04	0.00	0.01	19.74
rs144126567	HLA DR on CD14+ CD16+	ebi-a-GCST90002007	1	161510516	G	C	3618	-0.31	0.03	0.00	0.02	84.78
rs62176112	HLA DR on CD14+ CD16+	ebi-a-GCST90002007	2	179315726	A	G	3618	-0.50	0.11	0.00	0.01	20.08
rs1015298	HLA DR on CD14+ CD16+	ebi-a-GCST90002007	3	8652215	C	T	3618	0.25	0.06	0.00	0.01	19.62

rs6772253	HLA DR on CD14+ CD16+	ebi-a-GCST90002007	3	151060301	C	A	3618	2.09	0.43	0.00	0.01	23.18
rs12485444	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	3	188135783	A	T	3618	0.11	0.02	0.00	0.01	20.43
rs147095653	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	3	42422119	T	C	3618	-0.50	0.11	0.00	0.01	21.94
rs1044722	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	4	164447976	A	C	3618	-0.12	0.03	0.00	0.01	21.32
rs118167703	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	6	131880206	T	C	3618	0.26	0.06	0.00	0.01	21.04
rs6934244	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	6	33024032	A	C	3618	0.41	0.04	0.00	0.03	112.79
rs12198220	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	6	21330293	T	G	3618	-0.13	0.03	0.00	0.01	21.04
rs9275511	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	6	32674329	A	G	3618	0.37	0.03	0.00	0.04	158.77
rs6917212	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	6	32583005	G	C	3618	-0.52	0.03	0.00	0.07	267.56
rs9275639	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	6	32684831	T	A	3618	0.28	0.03	0.00	0.02	76.02
rs62395272	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	6	31394424	T	C	3618	-0.26	0.03	0.00	0.02	62.35
rs12196486	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	6	3041467	T	C	3618	-3.03	0.62	0.00	0.01	23.64
rs4918496	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	10	112087579	A	G	3618	0.38	0.08	0.00	0.01	22.37
rs117870500	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	10	111066806	T	C	3618	0.68	0.15	0.00	0.01	20.89
rs60924036	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	15	35035866	G	A	3618	-1.42	0.30	0.00	0.01	22.15
rs74525750	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	16	82812242	A	G	3618	-0.77	0.16	0.00	0.01	22.01
rs12930083	monocvte HLA DR on CD14+ CD16+	ebi-a-GCST90002007	16	26883757	T	G	3618	-0.25	0.06	0.00	0.01	20.63
rs74124962	monocvte CCR2 on monocyte	ebi-a-GCST90002008	1	161408398	G	T	3629	-0.16	0.03	0.00	0.01	26.16
rs17017001	monocvte CCR2 on monocyte	ebi-a-GCST90002008	1	207019530	A	C	3629	-0.14	0.03	0.00	0.01	19.96
rs149527001	monocvte CCR2 on monocyte	ebi-a-GCST90002008	1	4901170	A	G	3629	1.52	0.34	0.00	0.01	19.86

rs12613485	CCR2 on monocyte	ebi-a-GCST90002008	2	102154764	A	G	3629	-0.21	0.04	0.00	0.01	21.66
rs35526800	CCR2 on monocyte	ebi-a-GCST90002008	2	6628808	T	A	3629	0.45	0.10	0.00	0.01	20.14
rs4683184	CCR2 on monocyte	ebi-a-GCST90002008	3	46187707	A	G	3629	0.22	0.03	0.00	0.02	70.39
rs147120184	CCR2 on monocyte	ebi-a-GCST90002008	3	189165767	T	A	3629	0.30	0.07	0.00	0.01	20.71
rs13060505	CCR2 on monocyte	ebi-a-GCST90002008	3	46968023	G	C	3629	0.38	0.08	0.00	0.01	21.44
rs141411805	CCR2 on monocyte	ebi-a-GCST90002008	3	53544015	G	C	3629	-0.56	0.10	0.00	0.01	29.10
rs79641389	CCR2 on monocyte	ebi-a-GCST90002008	3	46882338	C	A	3629	-0.41	0.07	0.00	0.01	35.27
rs78246754	CCR2 on monocyte	ebi-a-GCST90002008	3	133776890	T	C	3629	0.32	0.07	0.00	0.01	20.52
rs777415	CCR2 on monocyte	ebi-a-GCST90002008	4	71028584	C	T	3629	2.35	0.50	0.00	0.01	21.86
rs150805883	CCR2 on monocyte	ebi-a-GCST90002008	6	30200969	C	T	3629	-0.59	0.13	0.00	0.01	19.91
rs144682094	CCR2 on monocyte	ebi-a-GCST90002008	7	6359771	A	G	3629	2.50	0.55	0.00	0.01	20.96
rs192191749	CCR2 on monocyte	ebi-a-GCST90002008	8	9002502	T	C	3629	1.02	0.23	0.00	0.01	20.23
rs113111100	CCR2 on monocyte	ebi-a-GCST90002008	10	129087440	A	G	3629	-0.44	0.09	0.00	0.01	21.99
rs625761	CCR2 on monocyte	ebi-a-GCST90002008	11	100644569	A	G	3629	0.13	0.03	0.00	0.01	20.94
rs11606662	CCR2 on monocyte	ebi-a-GCST90002008	11	75224900	G	T	3629	-0.14	0.03	0.00	0.01	19.65
rs10878258	CCR2 on monocyte	ebi-a-GCST90002008	12	40641692	G	A	3629	-0.14	0.03	0.00	0.01	28.86
rs34463381	CCR2 on monocyte	ebi-a-GCST90002008	12	131501922	G	A	3629	0.17	0.04	0.00	0.01	20.44
rs116966304	CCR2 on monocyte	ebi-a-GCST90002008	14	101368491	A	G	3629	-0.42	0.09	0.00	0.01	20.57
rs12185230	CCR2 on monocyte	ebi-a-GCST90002008	17	79591388	A	G	3629	3.05	0.66	0.00	0.01	21.32
rs77772425	CCR2 on monocyte	ebi-a-GCST90002008	17	30219703	T	G	3629	-0.24	0.05	0.00	0.01	21.29
rs187328631	CCR2 on monocyte	ebi-a-GCST90002008	19	16862057	G	A	3629	0.40	0.08	0.00	0.01	21.74
rs79049673	CCR2 on monocyte	ebi-a-GCST90002008	19	3274527	T	C	3629	0.34	0.08	0.00	0.01	20.46
rs12466446	HLA DR on CD14- CD16-	ebi-a-GCST90002009	2	212326642	C	A	3629	0.16	0.03	0.00	0.01	21.03
rs113688693	HLA DR on CD14- CD16-	ebi-a-GCST90002009	2	235115726	C	A	3629	-1.31	0.29	0.00	0.01	20.38
rs62176112	HLA DR on CD14- CD16-	ebi-a-GCST90002009	2	179315726	A	G	3629	-0.50	0.11	0.00	0.01	19.64
rs17486987	HLA DR on CD14- CD16-	ebi-a-GCST90002009	3	169164828	T	A	3629	-0.14	0.03	0.00	0.01	26.78
rs139738120	HLA DR on CD14- CD16-	ebi-a-GCST90002009	3	167150368	A	G	3629	-0.40	0.09	0.00	0.01	20.28
rs6790767	HLA DR on CD14- CD16-	ebi-a-GCST90002009	3	39296105	G	A	3629	-0.12	0.03	0.00	0.01	21.53
rs17008807	HLA DR on CD14- CD16-	ebi-a-GCST90002009	4	91154964	G	T	3629	0.46	0.10	0.00	0.01	22.12
rs72502555	HLA DR on CD14- CD16-	ebi-a-GCST90002009	6	31234208	G	C	3629	0.23	0.03	0.00	0.01	52.35
rs9268430	HLA DR on CD14- CD16-	ebi-a-GCST90002009	6	32345429	C	A	3629	-0.48	0.03	0.00	0.06	215.56
rs1415809	HLA DR on CD14- CD16-	ebi-a-GCST90002009	6	145648573	C	T	3629	-0.36	0.08	0.00	0.01	20.46
rs10485346	HLA DR on CD14- CD16-	ebi-a-GCST90002009	6	33866059	A	G	3629	-0.12	0.03	0.00	0.01	21.44
rs34291045	HLA DR on CD14- CD16-	ebi-a-GCST90002009	6	32560385	T	A	3629	0.81	0.04	0.00	0.10	394.90
rs116683794	HLA DR on CD14- CD16-	ebi-a-GCST90002009	6	33034114	G	A	3629	0.33	0.05	0.00	0.01	51.34
rs111407432	HLA DR on CD14- CD16-	ebi-a-GCST90002009	6	152585213	A	G	3629	0.19	0.04	0.00	0.01	23.31
rs2734573	HLA DR on CD14- CD16-	ebi-a-GCST90002009	6	31494738	A	C	3629	-0.29	0.03	0.00	0.03	104.22

rs75289830	HLA DR on CD14- CD16-	ebi-a-GCST90002009	7	781754	A	G	3629	-0.69	0.15	0.00	0.01	20.75
rs78417437	HLA DR on CD14- CD16-	ebi-a-GCST90002009	10	80345436	A	G	3629	-0.71	0.16	0.00	0.01	20.82
rs189320558	HLA DR on CD14- CD16-	ebi-a-GCST90002009	10	125333759	T	C	3629	0.58	0.13	0.00	0.01	21.23
rs117789335	HLA DR on CD14- CD16-	ebi-a-GCST90002009	10	125617894	T	C	3629	1.81	0.40	0.00	0.01	20.09
rs78010789	HLA DR on CD14- CD16-	ebi-a-GCST90002009	12	113317826	A	G	3629	-0.44	0.10	0.00	0.01	20.94
rs11071444	HLA DR on CD14- CD16-	ebi-a-GCST90002009	15	59740740	A	G	3629	-0.34	0.07	0.00	0.01	25.86
rs2109574	HLA DR on CD14- CD16-	ebi-a-GCST90002009	15	97464581	G	T	3629	-0.23	0.05	0.00	0.01	19.86
rs142006783	HLA DR on CD14- CD16-	ebi-a-GCST90002009	16	74651733	C	T	3629	-0.91	0.20	0.00	0.01	19.67
rs4780334	HLA DR on CD14- CD16-	ebi-a-GCST90002009	16	11002626	A	G	3629	0.18	0.03	0.00	0.01	29.57
rs147554267	HLA DR on CD14- CD16-	ebi-a-GCST90002009	18	59045629	A	C	3629	-0.62	0.14	0.00	0.01	20.14
rs7354407	HLA DR on CD14- CD16-	ebi-a-GCST90002009	20	52844986	T	C	3629	0.45	0.10	0.00	0.01	19.87
rs6070460	HLA DR on CD14- CD16-	ebi-a-GCST90002009	20	56988186	G	A	3629	1.23	0.28	0.00	0.01	20.02
rs6139723	HLA DR on CD14- CD16-	ebi-a-GCST90002009	20	5397579	A	T	3629	-0.16	0.03	0.00	0.01	21.01
rs148974843	HLA DR on monocyte	ebi-a-GCST90002010	1	237971715	G	C	3629	0.27	0.06	0.00	0.01	21.34
rs11581732	HLA DR on monocyte	ebi-a-GCST90002010	1	25527587	T	G	3629	-0.15	0.03	0.00	0.01	19.65
rs113337372	HLA DR on monocyte	ebi-a-GCST90002010	2	121677690	A	G	3629	-0.31	0.07	0.00	0.01	20.30
rs11737889	HLA DR on monocyte	ebi-a-GCST90002010	4	64395080	A	G	3629	0.14	0.03	0.00	0.01	21.57
rs113555953	HLA DR on monocyte	ebi-a-GCST90002010	4	97898706	A	C	3629	0.51	0.11	0.00	0.01	20.41
rs9469245	HLA DR on monocyte	ebi-a-GCST90002010	6	32692084	T	C	3629	-0.26	0.03	0.00	0.02	88.57
rs72990264	HLA DR on monocyte	ebi-a-GCST90002010	6	143148113	A	T	3629	1.28	0.29	0.00	0.01	19.89
rs62395272	HLA DR on monocyte	ebi-a-GCST90002010	6	31394424	T	C	3629	-0.25	0.03	0.00	0.02	59.42
rs115363051	HLA DR on monocyte	ebi-a-GCST90002010	6	31444174	C	A	3629	0.24	0.05	0.00	0.01	20.27
rs9270588	HLA DR on monocyte	ebi-a-GCST90002010	6	32561327	T	C	3629	-0.54	0.03	0.00	0.09	367.98
rs9271768	HLA DR on monocyte	ebi-a-GCST90002010	6	32594188	G	A	3629	-0.47	0.03	0.00	0.07	260.79
rs1449650	HLA DR on monocyte	ebi-a-GCST90002010	9	104844038	T	G	3629	0.94	0.21	0.00	0.01	20.37
rs12235220	HLA DR on monocyte	ebi-a-GCST90002010	9	123971122	A	G	3629	0.83	0.19	0.00	0.01	19.62
rs1800973	HLA DR on monocyte	ebi-a-GCST90002010	12	69744014	A	C	3629	-0.26	0.05	0.00	0.01	31.18
rs7321974	HLA DR on monocyte	ebi-a-GCST90002010	13	95665658	G	C	3629	-0.13	0.03	0.00	0.01	19.63
rs62005962	HLA DR on monocyte	ebi-a-GCST90002010	15	54040290	A	G	3629	-0.12	0.03	0.00	0.01	20.76
rs142006783	HLA DR on monocyte	ebi-a-GCST90002010	16	74651733	C	T	3629	-0.92	0.21	0.00	0.01	20.07
rs142573049	HLA DR on monocyte	ebi-a-GCST90002010	20	60176623	T	C	3629	0.83	0.18	0.00	0.01	21.83
rs7543360	CD14+ CD16+ monocyte CD64 on	ebi-a-GCST90002011	1	38659743	G	A	3611	-0.12	0.03	0.00	0.01	20.92
rs16869776	CD14+ CD16+ monocyte CD64 on	ebi-a-GCST90002011	4	20594904	T	A	3611	-0.52	0.11	0.00	0.01	21.84
rs7685215	CD14+ CD16+ monocyte	ebi-a-GCST90002011	4	182195837	G	A	3611	0.17	0.03	0.00	0.01	24.97

rs146963227	CD64 on CD14+ CD16+	ebi-a-GCST90002011	4	17530633	A	G	3611	-0.57	0.10	0.00	0.01	32.40
rs326052	monocvte CD64 on CD14+ CD16+	ebi-a-GCST90002011	5	1004879	C	T	3611	0.11	0.02	0.00	0.01	19.93
rs190928917	monocvte CD64 on CD14+ CD16+	ebi-a-GCST90002011	6	157071062	T	A	3611	0.63	0.14	0.00	0.01	20.14
rs80178684	monocvte CD64 on CD14+ CD16+	ebi-a-GCST90002011	8	59726631	G	A	3611	-0.53	0.12	0.00	0.01	20.43
rs34113791	monocvte CD64 on CD14+ CD16+	ebi-a-GCST90002011	8	97002092	G	T	3611	0.15	0.03	0.00	0.01	19.87
rs627319	monocvte CD64 on CD14+ CD16+	ebi-a-GCST90002011	11	62247621	C	G	3611	0.28	0.06	0.00	0.01	23.89
rs11065979	monocvte CD64 on CD14+ CD16+	ebi-a-GCST90002011	12	112059557	T	C	3611	0.15	0.03	0.00	0.01	33.81
rs7333071	monocvte CD64 on CD14+ CD16+	ebi-a-GCST90002011	13	59333719	A	T	3611	-0.12	0.03	0.00	0.01	21.93
rs71404123	monocvte CD64 on CD14+ CD16+	ebi-a-GCST90002011	16	83953190	G	A	3611	0.12	0.03	0.00	0.01	20.89
rs16960068	monocvte CD64 on CD14+ CD16+	ebi-a-GCST90002011	17	64692068	A	G	3611	0.27	0.06	0.00	0.01	20.30
rs57732730	monocvte CD64 on CD14+ CD16+	ebi-a-GCST90002011	21	19054955	T	G	3611	0.19	0.04	0.00	0.01	22.72
rs1801274	monocvte CX3CR1 on CD14- CD16+	ebi-a-GCST90002012	1	161479745	G	A	3582	-0.24	0.03	0.00	0.02	84.37
rs149100	CX3CR1 on CD14- CD16+	ebi-a-GCST90002012	1	162441037	G	T	3582	-0.12	0.02	0.00	0.01	24.22
rs10779294	CX3CR1 on CD14- CD16+	ebi-a-GCST90002012	1	217426519	C	A	3582	0.13	0.03	0.00	0.01	19.54
rs76913544	CX3CR1 on CD14- CD16+	ebi-a-GCST90002012	2	201190732	A	G	3582	-0.25	0.06	0.00	0.01	20.03
rs6754954	CX3CR1 on CD14- CD16+	ebi-a-GCST90002012	2	141839471	A	G	3582	-0.12	0.03	0.00	0.01	21.02
rs9867963	CX3CR1 on CD14- CD16+	ebi-a-GCST90002012	3	11469126	T	C	3582	-0.13	0.03	0.00	0.01	20.33
rs9877538	CX3CR1 on CD14- CD16+	ebi-a-GCST90002012	3	39289664	A	C	3582	-0.18	0.03	0.00	0.01	28.66
rs145135505	CX3CR1 on CD14- CD16+	ebi-a-GCST90002012	3	38928831	C	T	3582	-0.23	0.05	0.00	0.01	21.42
rs58215329	CX3CR1 on CD14- CD16+	ebi-a-GCST90002012	3	196465812	T	C	3582	0.19	0.04	0.00	0.01	24.73
rs140808371	CD14- CD16+	ebi-a-GCST90002012	4	23114161	T	C	3582	0.15	0.03	0.00	0.01	19.60

rs75379034	CX3CR1 on CD14- CD16+ CX3CR1 on	ebi-a-GCST90002012	4	182251306	A	G	3582	0.25	0.05	0.00	0.01	21.76
rs1024619	CD14- CD16+ CX3CR1 on	ebi-a-GCST90002012	5	11054713	C	T	3582	-0.12	0.03	0.00	0.01	19.62
rs12655590	CD14- CD16+ CX3CR1 on	ebi-a-GCST90002012	5	169085561	T	C	3582	-0.13	0.03	0.00	0.01	21.39
rs1208168	CD14- CD16+ CX3CR1 on	ebi-a-GCST90002012	7	144102599	C	A	3582	0.86	0.19	0.00	0.01	20.15
rs9415987	CD14- CD16+ CX3CR1 on	ebi-a-GCST90002012	10	73440628	T	C	3582	-0.12	0.03	0.00	0.01	20.51
rs74389435	CD14- CD16+ CX3CR1 on	ebi-a-GCST90002012	11	101949821	T	A	3582	-0.68	0.15	0.00	0.01	21.34
rs2292701	CD14- CD16+ CX3CR1 on	ebi-a-GCST90002012	12	20876574	A	G	3582	-0.24	0.05	0.00	0.01	19.77
rs10130058	CD14- CD16+ CX3CR1 on	ebi-a-GCST90002012	14	22045954	A	G	3582	-0.18	0.04	0.00	0.01	21.23
rs112450242	CD14- CD16+ CX3CR1 on	ebi-a-GCST90002012	17	75272996	T	C	3582	-1.26	0.23	0.00	0.01	28.62
rs72932967	CD14- CD16+ CX3CR1 on	ebi-a-GCST90002012	18	8922463	T	A	3582	0.13	0.03	0.00	0.01	21.92
rs41314914	CD14- CD16+ CCR2 on	ebi-a-GCST90002012	20	48892942	A	G	3582	0.23	0.04	0.00	0.01	33.49
rs55971447	myeloid DC CCR2 on	ebi-a-GCST90002013	1	161515326	T	C	2870	-0.41	0.03	0.00	0.06	167.56
rs16827093	myeloid DC CCR2 on	ebi-a-GCST90002013	1	22744534	T	C	2870	0.21	0.04	0.00	0.01	22.15
rs2169052	myeloid DC CCR2 on	ebi-a-GCST90002013	1	161557154	C	T	2870	0.24	0.04	0.00	0.01	35.56
rs116800975	myeloid DC CCR2 on	ebi-a-GCST90002013	1	162238738	A	G	2870	0.30	0.07	0.00	0.01	21.01
rs10914660	myeloid DC CCR2 on	ebi-a-GCST90002013	1	33597788	G	A	2870	-0.14	0.03	0.00	0.01	23.29
rs4384829	myeloid DC CCR2 on	ebi-a-GCST90002013	2	30466802	A	G	2870	-0.12	0.03	0.00	0.01	19.83
rs35587265	myeloid DC CCR2 on	ebi-a-GCST90002013	3	46259296	G	A	2870	-0.42	0.06	0.00	0.02	51.77
rs542104164	myeloid DC CCR2 on	ebi-a-GCST90002013	4	35634867	T	C	2870	-0.24	0.05	0.00	0.01	20.95
rs147275564	myeloid DC CCR2 on	ebi-a-GCST90002013	4	135382945	C	T	2870	-3.38	0.65	0.00	0.01	27.47
rs139808988	myeloid DC CCR2 on	ebi-a-GCST90002013	6	50581099	G	C	2870	0.71	0.15	0.00	0.01	20.77
rs11775437	myeloid DC CCR2 on	ebi-a-GCST90002013	8	139675584	G	A	2870	1.20	0.26	0.00	0.01	21.20
rs969808	myeloid DC CCR2 on	ebi-a-GCST90002013	8	72599402	T	C	2870	-0.27	0.06	0.00	0.01	22.93
rs143366996	myeloid DC CCR2 on	ebi-a-GCST90002013	10	83561663	C	G	2870	-0.86	0.18	0.00	0.01	22.41
rs2856092	myeloid DC CCR2 on	ebi-a-GCST90002013	11	1075194	T	G	2870	0.14	0.03	0.00	0.01	22.07
rs139258218	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	1	118620702	C	T	2870	-0.41	0.09	0.00	0.01	22.35
rs6687275	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	1	161515638	G	T	2870	0.23	0.03	0.00	0.02	54.99
rs16827093	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	1	22744534	T	C	2870	0.23	0.04	0.00	0.01	25.40
rs61802333	CD62L+ mveloid DC	ebi-a-GCST90002014	1	161589982	T	G	2870	0.31	0.03	0.00	0.04	126.09

rs3813658	CCR2 on CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	2	30473522	C	T	2870	-0.12	0.03	0.00	0.01	20.15
rs35587265	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	3	46259296	G	A	2870	-0.47	0.06	0.00	0.02	64.13
rs115044799	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	3	47053135	G	T	2870	-0.48	0.10	0.00	0.01	23.79
rs115100307	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	4	31408232	C	T	2870	0.59	0.12	0.00	0.01	22.38
rs9470090	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	6	35737527	T	C	2870	0.13	0.03	0.00	0.01	20.54
rs969808	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	8	72599402	T	C	2870	-0.27	0.06	0.00	0.01	22.88
rs10977191	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	9	862889	T	C	2870	-0.14	0.03	0.00	0.01	20.08
rs61896808	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	11	111183251	T	C	2870	0.84	0.18	0.00	0.01	21.29
rs12573934	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	11	4702567	T	C	2870	0.26	0.06	0.00	0.01	19.73
rs138016528	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	16	72111834	A	C	2870	0.41	0.09	0.00	0.01	21.02
rs2011807	CD62L+ mveloid DC CCR2 on	ebi-a-GCST90002014	16	83976564	T	C	2870	-0.17	0.04	0.00	0.01	22.17
rs67765474	plasmacytoid DC CCR2 on	ebi-a-GCST90002015	2	64168437	T	C	2871	0.18	0.04	0.00	0.01	21.46
rs356643	plasmacytoid DC CCR2 on	ebi-a-GCST90002015	2	101536192	G	A	2871	0.13	0.03	0.00	0.01	21.84
rs138130091	plasmacytoid DC CCR2 on	ebi-a-GCST90002015	3	45509296	T	A	2871	-0.65	0.14	0.00	0.01	20.87
rs3092963	plasmacytoid DC CCR2 on	ebi-a-GCST90002015	3	46396938	G	A	2871	-0.44	0.03	0.00	0.08	257.34
rs6793219	plasmacytoid DC CCR2 on	ebi-a-GCST90002015	3	54557443	T	C	2871	0.13	0.03	0.00	0.01	20.48
rs3852012	plasmacytoid DC CCR2 on	ebi-a-GCST90002015	3	44045981	A	G	2871	0.16	0.03	0.00	0.01	21.89
rs116403890	plasmacytoid DC CCR2 on	ebi-a-GCST90002015	4	189033600	T	C	2871	-0.44	0.09	0.00	0.01	24.46
rs62331379	plasmacytoid DC CCR2 on	ebi-a-GCST90002015	4	158465150	G	T	2871	0.21	0.05	0.00	0.01	21.06
rs142651372	plasmacytoid DC CCR2 on	ebi-a-GCST90002015	6	20032295	C	A	2871	0.24	0.05	0.00	0.01	20.34
rs143407337	plasmacytoid DC CCR2 on	ebi-a-GCST90002015	7	1095701	T	C	2871	0.24	0.03	0.00	0.02	51.45
rs13276925	plasmacytoid DC CCR2 on	ebi-a-GCST90002015	8	62682295	C	T	2871	0.13	0.03	0.00	0.01	21.22
rs111309798	plasmacytoid DC CCR2 on	ebi-a-GCST90002015	8	138508508	T	C	2871	0.77	0.17	0.00	0.01	19.93
rs10759524	plasmacytoid DC	ebi-a-GCST90002015	9	114834318	A	G	2871	0.13	0.03	0.00	0.01	22.77

rs7075746	CCR2 on plasmacytoid DC	ebi-a-GCST90002015	10	73527925	C	T	2871	0.13	0.03	0.00	0.01	21.35
rs142099221	CCR2 on plasmacytoid DC	ebi-a-GCST90002015	10	85389078	T	C	2871	-0.25	0.05	0.00	0.01	23.29
rs1466802	CCR2 on plasmacytoid DC	ebi-a-GCST90002015	11	85927213	C	T	2871	0.17	0.04	0.00	0.01	20.71
rs78825186	CCR2 on plasmacytoid DC	ebi-a-GCST90002015	11	74883559	A	G	2871	-1.90	0.38	0.00	0.01	24.60
rs7303538	CCR2 on plasmacytoid DC	ebi-a-GCST90002015	12	119070518	C	T	2871	-0.32	0.07	0.00	0.01	20.01
rs1698491	CCR2 on plasmacytoid DC	ebi-a-GCST90002015	14	43236053	T	C	2871	0.13	0.03	0.00	0.01	20.02
rs145634669	CCR2 on plasmacytoid DC	ebi-a-GCST90002015	16	29694391	C	G	2871	-0.12	0.03	0.00	0.01	19.73
rs67765474	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	2	64168437	T	C	2871	0.18	0.04	0.00	0.01	21.32
rs356643	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	2	101536192	G	A	2871	0.13	0.03	0.00	0.01	21.78
rs148970617	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	3	51940494	A	G	2871	-0.48	0.11	0.00	0.01	20.07
rs138130091	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	3	45509296	T	A	2871	-0.65	0.14	0.00	0.01	21.19
rs3092963	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	3	46396938	G	A	2871	-0.44	0.03	0.00	0.08	257.11
rs3852012	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	3	44045981	A	G	2871	0.15	0.03	0.00	0.01	21.66
rs116403890	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	4	189033600	T	C	2871	-0.44	0.09	0.00	0.01	24.01
rs62331379	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	4	158465150	G	T	2871	0.21	0.05	0.00	0.01	21.13
rs142651372	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	6	20032295	C	A	2871	0.24	0.05	0.00	0.01	20.37
rs143407337	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	7	1095701	T	C	2871	0.24	0.03	0.00	0.02	51.10
rs111309798	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	8	138508508	T	C	2871	0.77	0.17	0.00	0.01	20.03
rs13276925	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	8	62682295	C	T	2871	0.13	0.03	0.00	0.01	21.23
rs10759524	CD62L+ plasmacytoid DC	ebi-a-GCST90002016	9	114834318	A	G	2871	0.13	0.03	0.00	0.01	22.48

rs7075746	CCR2 on CD62L+ plasmacytoid DC	ebi-a-GCST90002016	10	73527925	C	T	2871	0.13	0.03	0.00	0.01	21.43
rs142099221	CCR2 on CD62L+ plasmacytoid DC	ebi-a-GCST90002016	10	85389078	T	C	2871	-0.26	0.05	0.00	0.01	23.70
rs78825186	CCR2 on CD62L+ plasmacytoid DC	ebi-a-GCST90002016	11	74883559	A	G	2871	-1.91	0.38	0.00	0.01	24.97
rs1466802	CCR2 on CD62L+ plasmacytoid DC	ebi-a-GCST90002016	11	85927213	C	T	2871	0.17	0.04	0.00	0.01	20.43
rs7303538	CCR2 on CD62L+ plasmacytoid DC	ebi-a-GCST90002016	12	119070518	C	T	2871	-0.32	0.07	0.00	0.01	19.95
rs1698491	CCR2 on CD62L+ plasmacytoid DC	ebi-a-GCST90002016	14	43236053	T	C	2871	0.13	0.03	0.00	0.01	20.11
rs145634669	CCR2 on CD62L+ plasmacytoid DC	ebi-a-GCST90002016	16	29694391	C	G	2871	-0.12	0.03	0.00	0.01	19.69
rs1801274	CCR2 on monocyte	ebi-a-GCST90002017	1	161479745	G	A	2850	0.26	0.03	0.00	0.03	76.44
rs111854415	CCR2 on monocyte	ebi-a-GCST90002017	1	3399168	A	C	2850	0.77	0.17	0.00	0.01	21.84
rs1071849	CCR2 on monocyte	ebi-a-GCST90002017	1	26646726	G	A	2850	-0.18	0.03	0.00	0.01	29.07
rs11926254	CCR2 on monocyte	ebi-a-GCST90002017	3	43380049	C	T	2850	0.31	0.07	0.00	0.01	19.89
rs13060505	CCR2 on monocyte	ebi-a-GCST90002017	3	46968023	G	C	2850	0.47	0.09	0.00	0.01	28.53
rs144804416	CCR2 on monocyte	ebi-a-GCST90002017	3	46861400	T	G	2850	-0.44	0.08	0.00	0.01	27.82
rs112391343	CCR2 on monocyte	ebi-a-GCST90002017	3	165060342	G	A	2850	0.26	0.05	0.00	0.01	24.41
rs35605067	CCR2 on monocyte	ebi-a-GCST90002017	3	45153051	T	C	2850	-0.27	0.05	0.00	0.01	28.89
rs114839966	CCR2 on monocyte	ebi-a-GCST90002017	3	47357047	T	C	2850	0.67	0.13	0.00	0.01	28.14
rs353091	CCR2 on monocyte	ebi-a-GCST90002017	3	15194949	T	C	2850	-0.13	0.03	0.00	0.01	20.03
rs4683184	CCR2 on monocyte	ebi-a-GCST90002017	3	46187707	A	G	2850	0.33	0.03	0.00	0.04	119.48
rs147217826	CCR2 on monocyte	ebi-a-GCST90002017	4	6193223	A	G	2850	0.65	0.14	0.00	0.01	20.34
rs299597	CCR2 on monocyte	ebi-a-GCST90002017	5	34031186	T	G	2850	0.14	0.03	0.00	0.01	26.27
rs17748581	CCR2 on monocyte	ebi-a-GCST90002017	6	150264626	T	C	2850	0.45	0.10	0.00	0.01	21.68
rs112216269	CCR2 on monocyte	ebi-a-GCST90002017	7	119847090	A	G	2850	-0.49	0.11	0.00	0.01	21.67
rs182030050	CCR2 on monocyte	ebi-a-GCST90002017	7	12999190	A	G	2850	-0.56	0.13	0.00	0.01	19.72
rs56382705	CCR2 on monocyte	ebi-a-GCST90002017	8	26837933	A	G	2850	-0.41	0.09	0.00	0.01	19.76
rs147002093	CCR2 on monocyte	ebi-a-GCST90002017	8	146201448	A	G	2850	1.05	0.24	0.00	0.01	19.79
rs17314600	CCR2 on monocyte	ebi-a-GCST90002017	10	109456317	T	C	2850	0.16	0.04	0.00	0.01	20.52
rs17657502	CCR2 on monocyte	ebi-a-GCST90002017	10	18227452	T	C	2850	0.17	0.04	0.00	0.01	19.72
rs117908977	CCR2 on monocyte	ebi-a-GCST90002017	11	124197747	A	T	2850	-0.74	0.16	0.00	0.01	20.57
rs141436692	CCR2 on monocyte	ebi-a-GCST90002017	14	102948100	A	G	2850	0.58	0.13	0.00	0.01	20.64
rs117265129	CCR2 on monocyte	ebi-a-GCST90002017	15	92575288	T	C	2850	0.41	0.09	0.00	0.01	20.37

rs76532688	CCR2 on monocyte	ebi-a-GCST90002017	16	61115686	A	C	2850	0.43	0.09	0.00	0.01	22.13
rs7254242	CCR2 on monocyte	ebi-a-GCST90002017	19	16268666	C	T	2850	-0.27	0.06	0.00	0.01	20.80
rs139407311	CCR2 on granulocyte	ebi-a-GCST90002018	1	182527138	T	C	2850	-2.12	0.45	0.00	0.01	22.70
rs55670480	CCR2 on granulocyte	ebi-a-GCST90002018	1	69727128	T	A	2850	-0.14	0.03	0.00	0.01	22.30
rs112157475	CCR2 on granulocyte	ebi-a-GCST90002018	2	195118976	T	C	2850	-0.24	0.05	0.00	0.01	24.12
rs10200651	CCR2 on granulocyte	ebi-a-GCST90002018	2	241986377	T	G	2850	0.18	0.04	0.00	0.01	20.48
rs13024798	CCR2 on granulocyte	ebi-a-GCST90002018	2	3028279	T	C	2850	0.21	0.05	0.00	0.01	21.51
rs7611080	CCR2 on granulocyte	ebi-a-GCST90002018	3	184120723	G	A	2850	0.15	0.03	0.00	0.01	20.82
rs184966737	CCR2 on granulocyte	ebi-a-GCST90002018	3	35282215	G	A	2850	-1.31	0.30	0.00	0.01	19.78
rs1493142	CCR2 on granulocyte	ebi-a-GCST90002018	4	28732101	T	G	2850	-0.13	0.03	0.00	0.01	19.94
rs17344000	CCR2 on granulocyte	ebi-a-GCST90002018	4	129589625	A	G	2850	0.24	0.05	0.00	0.01	24.21
rs33191	CCR2 on granulocyte	ebi-a-GCST90002018	5	158103815	G	A	2850	-0.16	0.04	0.00	0.01	19.61
rs74893841	CCR2 on granulocyte	ebi-a-GCST90002018	6	151948668	T	G	2850	0.31	0.07	0.00	0.01	20.37
rs445	CCR2 on granulocyte	ebi-a-GCST90002018	7	92408370	T	C	2850	0.28	0.03	0.00	0.02	67.99
rs42031	CCR2 on granulocyte	ebi-a-GCST90002018	7	92237396	T	A	2850	-0.20	0.03	0.00	0.01	38.61
rs114008100	CCR2 on granulocyte	ebi-a-GCST90002018	7	151516164	T	G	2850	0.43	0.08	0.00	0.01	26.85
rs78538699	CCR2 on granulocyte	ebi-a-GCST90002018	9	31399149	T	G	2850	-0.27	0.06	0.00	0.01	21.73
rs7033141	CCR2 on granulocyte	ebi-a-GCST90002018	9	72226015	G	C	2850	-0.16	0.03	0.00	0.01	24.35
rs11637579	CCR2 on granulocyte	ebi-a-GCST90002018	15	52729171	T	G	2850	0.52	0.11	0.00	0.01	21.69
rs11863231	CCR2 on granulocyte	ebi-a-GCST90002018	16	78366298	C	A	2850	0.15	0.03	0.00	0.01	20.32
rs1999663	CCR2 on granulocyte	ebi-a-GCST90002018	20	31897554	C	G	2850	0.12	0.03	0.00	0.01	19.87
rs10917759	CD14 on Mo MDSC	ebi-a-GCST90002019	1	163435598	G	A	1570	-0.24	0.05	0.00	0.02	25.06
rs113721058	CD14 on Mo MDSC	ebi-a-GCST90002019	1	228597022	A	G	1570	-0.72	0.16	0.00	0.01	20.04
rs142486612	CD14 on Mo MDSC	ebi-a-GCST90002019	1	164824389	T	C	1570	0.81	0.18	0.00	0.01	19.99
rs6660065	CD14 on Mo MDSC	ebi-a-GCST90002019	1	241159848	G	A	1570	0.33	0.07	0.00	0.01	20.16
rs6818126	CD14 on Mo MDSC	ebi-a-GCST90002019	4	131748538	C	T	1570	-0.37	0.08	0.00	0.01	21.43
rs6891742	CD14 on Mo MDSC	ebi-a-GCST90002019	5	163345711	G	A	1570	-2.15	0.46	0.00	0.01	21.45
rs72798896	CD14 on Mo MDSC	ebi-a-GCST90002019	5	139978645	T	C	1570	-0.26	0.05	0.00	0.01	23.70
rs6453485	CD14 on Mo MDSC	ebi-a-GCST90002019	5	79151752	T	C	1570	0.33	0.06	0.00	0.02	30.13
rs75305369	CD14 on Mo MDSC	ebi-a-GCST90002019	6	3991198	G	A	1570	0.36	0.08	0.00	0.01	20.34
rs138194426	CD14 on Mo MDSC	ebi-a-GCST90002019	6	124668998	A	G	1570	2.44	0.54	0.00	0.01	20.17
rs17429020	CD14 on Mo MDSC	ebi-a-GCST90002019	7	132316317	C	T	1570	-0.25	0.06	0.00	0.01	19.67
rs3823806	CD14 on Mo MDSC	ebi-a-GCST90002019	7	77670637	A	G	1570	0.23	0.05	0.00	0.01	21.19
rs987435	CD14 on Mo MDSC	ebi-a-GCST90002019	7	78599583	G	C	1570	0.16	0.04	0.00	0.01	20.28
rs62542759	CD14 on Mo MDSC	ebi-a-GCST90002019	9	26635464	T	C	1570	0.37	0.08	0.00	0.01	20.10
rs111912592	CD14 on Mo MDSC	ebi-a-GCST90002019	10	10790518	C	T	1570	-0.45	0.10	0.00	0.01	22.05
rs10883096	CD14 on Mo MDSC	ebi-a-GCST90002019	10	100203516	A	G	1570	-0.22	0.05	0.00	0.01	19.66

rs1520811	CD14 on Mo MDSC	ebi-a-GCST90002019	12	117765067	A	G	1570	0.20	0.04	0.00	0.01	21.30
rs1174651	CD14 on Mo MDSC	ebi-a-GCST90002019	12	58632584	C	A	1570	0.18	0.04	0.00	0.02	25.77
rs7999168	CD14 on Mo MDSC	ebi-a-GCST90002019	13	46680264	C	A	1570	-0.18	0.04	0.00	0.01	20.46
rs11848927	CD14 on Mo MDSC	ebi-a-GCST90002019	14	49309905	C	T	1570	-0.39	0.09	0.00	0.01	19.64
rs117556192	CD14 on Mo MDSC	ebi-a-GCST90002019	16	49667299	A	G	1570	0.73	0.16	0.00	0.01	19.99
rs62036290	CD14 on Mo MDSC	ebi-a-GCST90002019	16	25854816	T	C	1570	0.86	0.19	0.00	0.01	19.87
rs11150478	CD14 on Mo MDSC	ebi-a-GCST90002019	16	82592211	A	G	1570	0.16	0.04	0.00	0.01	20.10
rs6048146	CD14 on Mo MDSC	ebi-a-GCST90002019	20	22488267	G	A	1570	0.43	0.10	0.00	0.01	19.99
rs138125418	CD14 on Mo MDSC	ebi-a-GCST90002019	20	45988729	T	C	1570	0.34	0.08	0.00	0.01	20.82
rs7539387	CD33br HLA DR+	ebi-a-GCST90002020	1	102040284	G	A	1578	-0.22	0.04	0.00	0.02	26.30
rs4657282	CD14dim CD14 on	ebi-a-GCST90002020	1	163440621	A	G	1578	-0.25	0.05	0.00	0.02	24.99
rs76728302	CD33br HLA DR+	ebi-a-GCST90002020	2	47849107	C	T	1578	0.70	0.16	0.00	0.01	19.65
rs1976058	CD14dim CD14 on	ebi-a-GCST90002020	2	111792734	C	T	1578	0.60	0.13	0.00	0.01	20.57
rs4673986	CD33br HLA DR+	ebi-a-GCST90002020	2	216180100	G	T	1578	-0.97	0.22	0.00	0.01	19.66
rs13111223	CD14dim CD14 on	ebi-a-GCST90002020	4	188692178	G	A	1578	-0.17	0.04	0.00	0.01	20.46
rs182186600	CD33br HLA DR+	ebi-a-GCST90002020	4	109674936	T	G	1578	-0.74	0.16	0.00	0.01	20.78
rs149153393	CD14dim CD14 on	ebi-a-GCST90002020	5	222611	T	C	1578	0.33	0.07	0.00	0.01	19.68
rs2230186	CD33br HLA DR+	ebi-a-GCST90002020	7	134645319	T	C	1578	-0.38	0.08	0.00	0.02	25.29
rs3114703	CD14dim CD14 on	ebi-a-GCST90002020	7	22456928	T	C	1578	-0.16	0.04	0.00	0.01	20.13
rs74896244	CD33br HLA DR+	ebi-a-GCST90002020	8	25036512	G	A	1578	-1.00	0.21	0.00	0.01	21.85
rs11007733	CD14dim CD14 on	ebi-a-GCST90002020	10	30059784	T	C	1578	-0.29	0.06	0.00	0.01	21.29
rs11003240	CD33br HLA DR+	ebi-a-GCST90002020	10	54641214	T	C	1578	-0.31	0.06	0.00	0.02	24.96
rs74785984	CD14dim CD14 on	ebi-a-GCST90002020	12	22230399	A	C	1578	0.31	0.06	0.00	0.01	23.42

rs9596613	CD14 on CD33br HLA DR+	ebi-a-GCST90002020	13	52492525	C	A	1578	-0.20	0.04	0.00	0.01	23.39
rs79880157	CD14dim CD14 on CD33br HLA DR+	ebi-a-GCST90002020	13	84038649	T	C	1578	-0.57	0.12	0.00	0.01	22.61
rs11624046	CD14dim CD14 on CD33br HLA DR+	ebi-a-GCST90002020	14	57370548	T	C	1578	0.70	0.16	0.00	0.01	19.96
rs11117273	CD14dim CD14 on CD33br HLA DR+	ebi-a-GCST90002020	16	87483838	A	G	1578	0.19	0.04	0.00	0.01	19.84
rs2726036	CD14dim CD14 on CD33br HLA DR+	ebi-a-GCST90002020	16	28347140	C	A	1578	-0.17	0.04	0.00	0.01	21.88
rs73014922	CD14dim CD14 on CD33br HLA DR+	ebi-a-GCST90002020	19	17916591	T	C	1578	0.38	0.08	0.00	0.01	22.06
rs7539387	CD14dim CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	1	102040284	G	A	1634	-0.19	0.04	0.00	0.01	20.15
rs1801274	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	1	161479745	G	A	1634	-0.34	0.04	0.00	0.05	79.06
rs74453600	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	1	87319317	A	G	1634	0.52	0.12	0.00	0.01	20.22
rs4657282	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	1	163440621	A	G	1634	-0.24	0.05	0.00	0.01	24.20
rs11687130	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	2	56343677	G	A	1634	-0.29	0.06	0.00	0.01	21.46
rs72664120	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	4	105646485	T	C	1634	-1.13	0.24	0.00	0.01	21.33
rs57599368	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	5	139992113	G	A	1634	-0.23	0.05	0.00	0.01	20.61
rs116871970	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	6	115908744	G	C	1634	-1.01	0.22	0.00	0.01	20.77
rs6459426	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	6	15911190	C	T	1634	0.69	0.16	0.00	0.01	19.96
rs117907831	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	7	77830890	G	C	1634	-0.53	0.12	0.00	0.01	20.94
rs143380208	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	7	157541950	A	G	1634	-0.52	0.12	0.00	0.01	20.54
rs77166057	CD11b+ CD33dim HLA DR+	ebi-a-GCST90002021	8	37782883	T	C	1634	0.45	0.10	0.00	0.01	20.35

rs7125721	CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	11	108966171	A	T	1634	-0.20	0.04	0.00	0.02	25.35
rs491465	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	11	64830949	T	A	1634	0.38	0.08	0.00	0.01	22.91
rs9568631	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	13	52113042	C	T	1634	-0.20	0.05	0.00	0.01	20.08
rs4555095	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	15	46669609	C	A	1634	-0.20	0.04	0.00	0.01	21.74
rs67814263	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	16	26227878	A	G	1634	0.34	0.08	0.00	0.01	20.87
rs6087047	CD11b+ CD14 on CD33dim HLA DR+	ebi-a-GCST90002021	20	9871771	C	A	1634	0.25	0.06	0.00	0.01	19.87
rs134558	CD11b+ CD33dim HLA DR+	ebi-a-GCST90002021	22	29457622	A	G	1634	-0.16	0.04	0.00	0.01	20.54
rs11587381	CD4 on CD4+	ebi-a-GCST90002022	1	226377250	G	C	2912	-0.33	0.06	0.00	0.01	26.98
rs6659442	CD4 on CD4+	ebi-a-GCST90002022	1	244370950	C	A	2912	0.25	0.05	0.00	0.01	20.36
rs10200667	CD4 on CD4+	ebi-a-GCST90002022	2	153552714	C	A	2912	-0.16	0.04	0.00	0.01	19.59
rs149025564	CD4 on CD4+	ebi-a-GCST90002022	3	150265658	A	G	2912	0.35	0.08	0.00	0.01	19.91
rs9827923	CD4 on CD4+	ebi-a-GCST90002022	3	154165486	A	C	2912	0.14	0.03	0.00	0.01	19.77
rs144911886	CD4 on CD4+	ebi-a-GCST90002022	4	190091645	T	C	2912	-0.84	0.19	0.00	0.01	20.58
rs9992090	CD4 on CD4+	ebi-a-GCST90002022	4	150982870	T	C	2912	-0.14	0.03	0.00	0.01	19.71
rs74604607	CD4 on CD4+	ebi-a-GCST90002022	5	52143523	T	A	2912	0.20	0.04	0.00	0.01	20.15
rs3129267	CD4 on CD4+	ebi-a-GCST90002022	6	33098896	G	C	2912	-0.19	0.03	0.00	0.01	29.77
rs4959028	CD4 on CD4+	ebi-a-GCST90002022	6	32383138	G	A	2912	-0.17	0.04	0.00	0.01	21.79
rs28584364	CD4 on CD4+	ebi-a-GCST90002022	6	32512048	T	C	2912	0.36	0.05	0.00	0.02	48.03
rs2960460	CD4 on CD4+	ebi-a-GCST90002022	7	77638859	T	C	2912	0.15	0.03	0.00	0.01	19.71
rs118120903	CD4 on CD4+	ebi-a-GCST90002022	8	30276043	T	C	2912	-0.39	0.08	0.00	0.01	21.49
rs10970000	CD4 on CD4+	ebi-a-GCST90002022	9	3106474	C	A	2912	-0.13	0.03	0.00	0.01	20.32
rs4573693	CD4 on CD4+	ebi-a-GCST90002022	11	58699767	A	G	2912	-0.28	0.06	0.00	0.01	20.70
rs4766578	CD4 on CD4+	ebi-a-GCST90002022	12	111904371	A	T	2912	-0.16	0.03	0.00	0.01	32.51
rs11615628	CD4 on CD4+	ebi-a-GCST90002022	12	6903631	A	G	2912	-0.28	0.03	0.00	0.03	75.70
rs6580816	CD4 on CD4+	ebi-a-GCST90002022	12	51622418	T	C	2912	0.16	0.03	0.00	0.01	27.95
rs61951572	CD4 on CD4+	ebi-a-GCST90002022	13	70982795	C	T	2912	0.39	0.08	0.00	0.01	22.17
rs11628611	CD4 on CD4+	ebi-a-GCST90002022	14	65828525	T	C	2912	0.17	0.03	0.00	0.01	36.77
rs62027494	CD4 on CD4+	ebi-a-GCST90002022	15	94203188	G	C	2912	-1.13	0.24	0.00	0.01	21.59
rs1833936	CD4 on CD4+	ebi-a-GCST90002022	16	65817386	C	G	2912	0.14	0.03	0.00	0.01	20.95
rs73965521	CD4 on CD4+	ebi-a-GCST90002022	18	63972550	T	C	2912	-0.16	0.04	0.00	0.01	19.66
rs6041696	CD4 on CD4+	ebi-a-GCST90002022	20	188030	T	C	2912	0.13	0.03	0.00	0.01	20.21
rs6068656	CD4 on CD4+	ebi-a-GCST90002022	20	52386803	T	C	2912	-0.32	0.07	0.00	0.01	21.96
rs11584966	CD4 on CM CD4 +	ebi-a-GCST90002023	1	226382922	G	A	2912	-0.28	0.06	0.00	0.01	19.82
rs181188506	CD4 on CM CD4 +	ebi-a-GCST90002023	2	74231575	T	C	2912	0.49	0.11	0.00	0.01	20.55
rs72825704	CD4 on CM CD4 +	ebi-a-GCST90002023	2	99239164	C	T	2912	0.17	0.04	0.00	0.01	22.12
rs9992090	CD4 on CM CD4 +	ebi-a-GCST90002023	4	150982870	T	C	2912	-0.14	0.03	0.00	0.01	19.85

rs3129267	CD4 on CM CD4 +	ebi-a-GCST90002023	6	33098896	G	C	2912	-0.20	0.03	0.00	0.01	33.43
rs28584364	CD4 on CM CD4 +	ebi-a-GCST90002023	6	32512048	T	C	2912	0.33	0.05	0.00	0.01	40.09
rs4495271	CD4 on CM CD4 +	ebi-a-GCST90002023	6	53049236	A	G	2912	-0.18	0.04	0.00	0.01	20.52
rs4487854	CD4 on CM CD4 +	ebi-a-GCST90002023	9	137844723	G	A	2912	-0.37	0.08	0.00	0.01	22.94
rs7908436	CD4 on CM CD4 +	ebi-a-GCST90002023	10	106139081	A	G	2912	-0.13	0.03	0.00	0.01	20.35
rs11615628	CD4 on CM CD4 +	ebi-a-GCST90002023	12	6903631	A	G	2912	-0.30	0.03	0.00	0.03	92.88
rs6580816	CD4 on CM CD4 +	ebi-a-GCST90002023	12	51622418	T	C	2912	0.16	0.03	0.00	0.01	26.89
rs4766578	CD4 on CM CD4 +	ebi-a-GCST90002023	12	111904371	A	T	2912	-0.15	0.03	0.00	0.01	27.94
rs547243038	CD4 on CM CD4 +	ebi-a-GCST90002023	13	52619467	T	C	2912	-0.39	0.08	0.00	0.01	21.72
rs8009128	CD4 on CM CD4 +	ebi-a-GCST90002023	14	33560928	A	G	2912	-0.21	0.04	0.00	0.01	22.00
rs7145500	CD4 on CM CD4 +	ebi-a-GCST90002023	14	65884212	A	G	2912	0.15	0.03	0.00	0.01	29.23
rs368550319	CD4 on CM CD4 +	ebi-a-GCST90002023	14	23466191	A	C	2912	-0.24	0.05	0.00	0.01	21.65
rs62027494	CD4 on CM CD4 +	ebi-a-GCST90002023	15	94203188	G	C	2912	-1.08	0.24	0.00	0.01	19.95
rs6063990	CD4 on CM CD4 +	ebi-a-GCST90002023	20	52386784	A	G	2912	-0.26	0.06	0.00	0.01	20.68
rs139225197	CD4 on naive CD4+	ebi-a-GCST90002024	2	11978499	A	G	2910	-0.45	0.10	0.00	0.01	20.45
rs1261235	CD4 on naive CD4+	ebi-a-GCST90002024	2	79183004	G	T	2910	-0.13	0.03	0.00	0.01	20.30
rs9833698	CD4 on naive CD4+	ebi-a-GCST90002024	3	154166611	C	G	2910	0.14	0.03	0.00	0.01	21.57
rs139306421	CD4 on naive CD4+	ebi-a-GCST90002024	6	109298437	G	C	2910	-0.54	0.09	0.00	0.01	35.22
rs2844608	CD4 on naive CD4+	ebi-a-GCST90002024	6	31247414	T	C	2910	0.20	0.03	0.00	0.01	39.40
rs12204644	CD4 on naive CD4+	ebi-a-GCST90002024	6	91794933	A	G	2910	0.41	0.08	0.00	0.01	25.54
rs17205675	CD4 on naive CD4+	ebi-a-GCST90002024	6	32637489	G	C	2910	-0.26	0.04	0.00	0.01	35.68
rs7457754	CD4 on naive CD4+	ebi-a-GCST90002024	7	28128002	C	T	2910	0.18	0.04	0.00	0.01	20.73
rs72702672	CD4 on naive CD4+	ebi-a-GCST90002024	9	12803588	T	C	2910	0.80	0.18	0.00	0.01	19.63
rs12000134	CD4 on naive CD4+	ebi-a-GCST90002024	9	3108492	G	A	2910	0.19	0.04	0.00	0.01	22.12
rs141120003	CD4 on naive CD4+	ebi-a-GCST90002024	10	36139903	C	A	2910	0.52	0.11	0.00	0.01	21.66
rs10749528	CD4 on naive CD4+	ebi-a-GCST90002024	10	87460984	C	T	2910	-0.12	0.03	0.00	0.01	19.95
rs10876154	CD4 on naive CD4+	ebi-a-GCST90002024	12	51607890	T	C	2910	0.16	0.03	0.00	0.01	29.11
rs951818	CD4 on naive CD4+	ebi-a-GCST90002024	12	6896055	A	C	2910	-0.15	0.03	0.00	0.01	32.53
rs28920471	CD4 on naive CD4+	ebi-a-GCST90002024	12	6915160	A	T	2910	0.34	0.07	0.00	0.01	26.39
rs3184504	CD4 on naive CD4+	ebi-a-GCST90002024	12	111884608	C	T	2910	-0.16	0.03	0.00	0.01	29.95
rs61951572	CD4 on naive CD4+	ebi-a-GCST90002024	13	70982795	C	T	2910	0.39	0.08	0.00	0.01	22.47
rs11158593	CD4 on naive CD4+	ebi-a-GCST90002024	14	65859984	A	G	2910	0.20	0.03	0.00	0.02	52.01
rs75181293	CD4 on naive CD4+	ebi-a-GCST90002024	19	1068808	A	G	2910	0.21	0.04	0.00	0.01	24.40
rs6063990	CD4 on naive CD4+	ebi-a-GCST90002024	20	52386784	A	G	2910	-0.25	0.06	0.00	0.01	20.01
rs10927163	CD4 on EM CD4+	ebi-a-GCST90002025	1	244377870	A	G	2912	0.25	0.06	0.00	0.01	20.46
rs72712872	CD4 on EM CD4+	ebi-a-GCST90002025	1	160982770	C	T	2912	0.52	0.12	0.00	0.01	20.00
rs12052946	CD4 on EM CD4+	ebi-a-GCST90002025	2	153567946	A	T	2912	0.23	0.05	0.00	0.01	19.75

rs61741426	CD4 on EM CD4+	ebi-a-GCST90002025	2	137852550	A	G	2912	-1.94	0.43	0.00	0.01	19.94
rs78350981	CD4 on EM CD4+	ebi-a-GCST90002025	3	102203257	A	G	2912	-0.42	0.10	0.00	0.01	19.58
rs9992090	CD4 on EM CD4+	ebi-a-GCST90002025	4	150982870	T	C	2912	-0.15	0.03	0.00	0.01	24.49
rs530397075	CD4 on EM CD4+	ebi-a-GCST90002025	4	63964498	A	G	2912	0.29	0.06	0.00	0.01	25.29
rs60970806	CD4 on EM CD4+	ebi-a-GCST90002025	5	152607414	A	C	2912	0.15	0.03	0.00	0.01	19.62
rs9264532	CD4 on EM CD4+	ebi-a-GCST90002025	6	31234381	T	C	2912	0.13	0.03	0.00	0.01	19.79
rs9272242	CD4 on EM CD4+	ebi-a-GCST90002025	6	32602790	C	T	2912	0.22	0.03	0.00	0.02	48.64
rs3129267	CD4 on EM CD4+	ebi-a-GCST90002025	6	33098896	G	C	2912	-0.22	0.03	0.00	0.01	43.09
rs34560282	CD4 on EM CD4+	ebi-a-GCST90002025	6	69075534	A	G	2912	0.21	0.05	0.00	0.01	19.82
rs1569213	CD4 on EM CD4+	ebi-a-GCST90002025	8	19870735	A	G	2912	0.13	0.03	0.00	0.01	19.61
rs118120903	CD4 on EM CD4+	ebi-a-GCST90002025	8	30276043	T	C	2912	-0.41	0.08	0.00	0.01	24.60
rs4487854	CD4 on EM CD4+	ebi-a-GCST90002025	9	137844723	G	A	2912	-0.36	0.08	0.00	0.01	21.80
rs10122230	CD4 on EM CD4+	ebi-a-GCST90002025	9	37686238	G	A	2912	0.13	0.03	0.00	0.01	20.31
rs4878712	CD4 on EM CD4+	ebi-a-GCST90002025	9	37654257	A	G	2912	-0.13	0.03	0.00	0.01	22.58
rs4910721	CD4 on EM CD4+	ebi-a-GCST90002025	11	5194616	G	C	2912	0.13	0.03	0.00	0.01	21.85
rs7137828	CD4 on EM CD4+	ebi-a-GCST90002025	12	111932800	T	C	2912	-0.14	0.03	0.00	0.01	23.29
rs11615628	CD4 on EM CD4+	ebi-a-GCST90002025	12	6903631	A	G	2912	-0.32	0.03	0.00	0.04	106.92
rs12870415	CD4 on EM CD4+	ebi-a-GCST90002025	13	105791075	C	T	2912	-0.13	0.03	0.00	0.01	20.04
rs12147140	CD4 on EM CD4+	ebi-a-GCST90002025	14	107282437	T	C	2912	0.17	0.04	0.00	0.01	20.80
rs368550319	CD4 on EM CD4+	ebi-a-GCST90002025	14	23466191	A	C	2912	-0.24	0.05	0.00	0.01	22.56
rs9439747	CD4 on TD CD4+	ebi-a-GCST90002026	1	19111912	C	G	2903	-0.21	0.05	0.00	0.01	19.72
rs828892	CD4 on TD CD4+	ebi-a-GCST90002026	2	74390595	T	C	2903	0.23	0.04	0.00	0.01	26.68
rs13024840	CD4 on TD CD4+	ebi-a-GCST90002026	2	38895920	A	T	2903	0.16	0.03	0.00	0.01	27.50
rs35947652	CD4 on TD CD4+	ebi-a-GCST90002026	3	129318594	G	A	2903	0.58	0.11	0.00	0.01	25.76
rs187985913	CD4 on TD CD4+	ebi-a-GCST90002026	4	152837976	G	A	2903	0.26	0.06	0.00	0.01	20.48
rs6853862	CD4 on TD CD4+	ebi-a-GCST90002026	4	32955410	T	A	2903	0.13	0.03	0.00	0.01	20.18
rs149775976	CD4 on TD CD4+	ebi-a-GCST90002026	4	108032717	G	A	2903	-0.75	0.17	0.00	0.01	19.75
rs10463714	CD4 on TD CD4+	ebi-a-GCST90002026	5	97797651	C	A	2903	-0.13	0.03	0.00	0.01	20.13
rs78069551	CD4 on TD CD4+	ebi-a-GCST90002026	6	169334009	G	T	2903	-0.41	0.09	0.00	0.01	20.50
rs9480502	CD4 on TD CD4+	ebi-a-GCST90002026	6	150949998	T	C	2903	0.18	0.04	0.00	0.01	21.08
rs424001	CD4 on TD CD4+	ebi-a-GCST90002026	6	13715997	T	C	2903	-0.15	0.03	0.00	0.01	29.07
rs719498	CD4 on TD CD4+	ebi-a-GCST90002026	7	144876947	A	G	2903	0.14	0.03	0.00	0.01	26.65
rs78863652	CD4 on TD CD4+	ebi-a-GCST90002026	7	31168474	T	G	2903	-0.75	0.16	0.00	0.01	21.52
rs79658047	CD4 on TD CD4+	ebi-a-GCST90002026	7	46453848	G	A	2903	-0.28	0.06	0.00	0.01	19.86
rs10229549	CD4 on TD CD4+	ebi-a-GCST90002026	7	14668100	G	A	2903	0.13	0.03	0.00	0.01	19.79
rs111931508	CD4 on TD CD4+	ebi-a-GCST90002026	8	9938243	T	C	2903	-1.82	0.37	0.00	0.01	24.23
rs146861616	CD4 on TD CD4+	ebi-a-GCST90002026	8	8216308	G	T	2903	0.32	0.06	0.00	0.01	27.47

rs72640514	CD4 on TD CD4+	ebi-a-GCST90002026	8	49593467	G	A	2903	0.20	0.04	0.00	0.01	22.44
rs11033545	CD4 on TD CD4+	ebi-a-GCST90002026	11	36327582	G	T	2903	0.14	0.03	0.00	0.01	23.08
rs4414181	CD4 on TD CD4+	ebi-a-GCST90002026	11	90950783	A	G	2903	-1.25	0.26	0.00	0.01	22.34
rs11026566	CD4 on TD CD4+	ebi-a-GCST90002026	11	22472189	G	A	2903	-0.14	0.03	0.00	0.01	21.26
rs4771059	CD4 on TD CD4+	ebi-a-GCST90002026	13	27588660	G	A	2903	0.14	0.03	0.00	0.01	20.31
rs713431	CD4 on TD CD4+	ebi-a-GCST90002026	17	39138045	A	G	2903	0.25	0.06	0.00	0.01	20.29
rs183650419	CD4 on TD CD4+	ebi-a-GCST90002026	21	28265035	A	T	2903	0.55	0.11	0.00	0.01	23.41
rs74432937	CD4 on TD CD4+	ebi-a-GCST90002026	21	28786756	A	G	2903	-0.30	0.07	0.00	0.01	19.88
rs9306514	CD4 on TD CD4+	ebi-a-GCST90002026	22	46837114	G	A	2903	0.12	0.03	0.00	0.01	20.12
rs11584966	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	1	226382922	G	A	2911	-0.29	0.06	0.00	0.01	21.86
rs72712872	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	1	160982770	C	T	2911	0.53	0.12	0.00	0.01	19.78
rs11807869	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	1	244370098	T	C	2911	0.24	0.05	0.00	0.01	20.01
rs184697850	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	2	80753761	T	C	2911	0.52	0.12	0.00	0.01	19.80
rs16831529	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	2	153519768	T	C	2911	0.22	0.05	0.00	0.01	20.14
rs56253058	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	3	5485591	T	A	2911	0.48	0.11	0.00	0.01	19.94
rs530397075	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	4	63964498	A	G	2911	0.27	0.06	0.00	0.01	20.95
rs9992090	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	4	150982870	T	C	2911	-0.14	0.03	0.00	0.01	21.26
rs144911886	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	4	190091645	T	C	2911	-0.83	0.19	0.00	0.01	20.25
rs74604607	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	5	52143523	T	A	2911	0.20	0.04	0.00	0.01	19.66
rs28584364	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	6	32512048	T	C	2911	0.35	0.05	0.00	0.02	45.21
rs3129267	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	6	33098896	G	C	2911	-0.22	0.03	0.00	0.01	40.40
rs2960460	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	7	77638859	T	C	2911	0.16	0.03	0.00	0.01	20.33
rs118120903	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	8	30276043	T	C	2911	-0.37	0.08	0.00	0.01	19.76
rs7827166	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	8	15773120	A	G	2911	0.49	0.11	0.00	0.01	19.67
rs4487854	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	9	137844723	G	A	2911	-0.38	0.08	0.00	0.01	23.61
rs10115790	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	9	7345304	A	G	2911	-0.15	0.03	0.00	0.01	21.03
rs147954895	CD45RA+ CD4+	ebi-a-GCST90002027	10	3259982	C	A	2911	0.84	0.19	0.00	0.01	20.73

rs10501464	CD4 on CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	11	80053454	C	T	2911	-0.17	0.04	0.00	0.01	20.02
rs6580816	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	12	51622418	T	C	2911	0.13	0.03	0.00	0.01	20.13
rs11615628	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	12	6903631	A	G	2911	-0.33	0.03	0.00	0.04	108.19
rs11569383	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	12	6557758	G	C	2911	-0.35	0.08	0.00	0.01	20.33
rs4766578	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	12	111904371	A	T	2911	-0.15	0.03	0.00	0.01	29.15
rs61951572	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	13	70982795	C	T	2911	0.38	0.08	0.00	0.01	21.46
rs547243038	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	13	52619467	T	C	2911	-0.38	0.08	0.00	0.01	21.63
rs368550319	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	14	23466191	A	C	2911	-0.25	0.05	0.00	0.01	23.96
rs8009128	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	14	33560928	A	G	2911	-0.20	0.04	0.00	0.01	20.43
rs8011224	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	14	65969670	A	T	2911	0.14	0.03	0.00	0.01	24.58
rs62027494	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	15	94203188	G	C	2911	-1.09	0.24	0.00	0.01	20.22
rs11073860	CD45RA+ CD4+ CD4 on	ebi-a-GCST90002027	15	89934406	A	G	2911	-0.43	0.10	0.00	0.01	19.78
rs9939476	CD45RA+ CD4+ CD19 on B cell	ebi-a-GCST90002027	16	65846028	A	G	2911	-0.13	0.03	0.00	0.01	19.96
rs2179634	CD19 on B cell	ebi-a-GCST90002028	1	208063067	A	G	3112	-0.13	0.03	0.00	0.01	21.63
rs6698444	CD19 on B cell	ebi-a-GCST90002028	1	167583141	G	T	3112	-0.14	0.03	0.00	0.01	24.97
rs143306403	CD19 on B cell	ebi-a-GCST90002028	2	232217689	G	A	3112	-0.49	0.11	0.00	0.01	20.97
rs73181184	CD19 on B cell	ebi-a-GCST90002028	3	178371750	A	T	3112	-0.26	0.05	0.00	0.01	21.72
rs149686480	CD19 on B cell	ebi-a-GCST90002028	3	124399196	T	C	3112	1.37	0.31	0.00	0.01	19.89
rs145412732	CD19 on B cell	ebi-a-GCST90002028	4	119168128	G	A	3112	0.97	0.22	0.00	0.01	19.57
rs17516457	CD19 on B cell	ebi-a-GCST90002028	5	131590387	C	T	3112	-0.13	0.03	0.00	0.01	21.76
rs3828914	CD19 on B cell	ebi-a-GCST90002028	6	31465819	T	C	3112	-0.14	0.03	0.00	0.01	20.36
rs28383305	CD19 on B cell	ebi-a-GCST90002028	6	32586721	G	T	3112	0.19	0.04	0.00	0.01	24.05
rs571514	CD19 on B cell	ebi-a-GCST90002028	7	73769459	C	T	3112	0.16	0.03	0.00	0.01	21.80
rs2030975	CD19 on B cell	ebi-a-GCST90002028	7	105177611	T	C	3112	-2.67	0.59	0.00	0.01	20.76
rs117541942	CD19 on B cell	ebi-a-GCST90002028	8	58507470	A	C	3112	-0.20	0.05	0.00	0.01	19.57
rs182569768	CD19 on B cell	ebi-a-GCST90002028	8	52764429	T	C	3112	0.57	0.12	0.00	0.01	20.85
rs2977855	CD19 on B cell	ebi-a-GCST90002028	8	41408227	C	G	3112	0.65	0.14	0.00	0.01	21.74
rs55670656	CD19 on B cell	ebi-a-GCST90002028	9	27581489	C	G	3112	0.16	0.04	0.00	0.01	19.78
rs76929802	CD19 on B cell	ebi-a-GCST90002028	11	125505878	A	G	3112	0.28	0.06	0.00	0.01	23.69
rs1222321	CD19 on B cell	ebi-a-GCST90002028	11	30528400	A	G	3112	-0.29	0.06	0.00	0.01	19.56

rs149010460	CD19 on B cell	ebi-a-GCST90002028	12	23512909	T	C	3112	0.94	0.21	0.00	0.01	20.16
rs9543559	CD19 on B cell	ebi-a-GCST90002028	13	74865635	G	A	3112	-0.13	0.03	0.00	0.01	22.27
rs117314912	CD19 on B cell	ebi-a-GCST90002028	14	92966472	T	G	3112	-0.37	0.08	0.00	0.01	19.87
rs74628013	CD19 on B cell	ebi-a-GCST90002028	15	79819451	A	G	3112	-0.35	0.07	0.00	0.01	22.69
rs111853663	CD19 on B cell	ebi-a-GCST90002028	16	29181468	A	G	3112	-1.96	0.42	0.00	0.01	21.96
rs2904880	CD19 on B cell	ebi-a-GCST90002028	16	28944396	G	C	3112	0.17	0.03	0.00	0.01	38.15
rs145738076	CD19 on B cell	ebi-a-GCST90002028	16	28007096	C	T	3112	-0.46	0.10	0.00	0.01	20.14
rs2284147	CD19 on B cell	ebi-a-GCST90002028	19	35765041	A	G	3112	0.12	0.03	0.00	0.01	19.59
rs910655	CD19 on B cell	ebi-a-GCST90002028	20	3787550	T	C	3112	-0.13	0.03	0.00	0.01	22.34
rs2232181	CD19 on B cell	ebi-a-GCST90002028	22	31533137	C	T	3112	-0.40	0.09	0.00	0.01	21.98
rs11674407	CD39 on CD39+	ebi-a-GCST90002029	2	1464530	C	G	2915	0.26	0.06	0.00	0.01	19.67
rs116646957	CD39 on CD39+	ebi-a-GCST90002029	2	115975810	G	C	2915	0.88	0.19	0.00	0.01	21.04
rs13070466	CD39 on CD39+	ebi-a-GCST90002029	3	87382102	A	G	2915	0.22	0.05	0.00	0.01	21.76
rs9882438	CD39 on CD39+	ebi-a-GCST90002029	3	36776413	G	A	2915	0.44	0.10	0.00	0.01	20.90
rs2120877	CD39 on CD39+	ebi-a-GCST90002029	3	106178942	G	T	2915	-0.13	0.03	0.00	0.01	20.04
rs111933386	CD39 on CD39+	ebi-a-GCST90002029	3	119262389	T	C	2915	0.25	0.06	0.00	0.01	20.79
rs78570145	CD39 on CD39+	ebi-a-GCST90002029	4	158695975	G	A	2915	-0.34	0.08	0.00	0.01	19.99
rs2167204	CD39 on CD39+	ebi-a-GCST90002029	4	121827202	T	C	2915	0.81	0.17	0.00	0.01	22.47
rs78933037	CD39 on CD39+	ebi-a-GCST90002029	6	1424645	C	T	2915	-0.23	0.05	0.00	0.01	20.45
rs72866625	CD39 on CD39+	ebi-a-GCST90002029	6	47410742	A	T	2915	0.33	0.07	0.00	0.01	21.44
rs76983442	CD39 on CD39+	ebi-a-GCST90002029	7	101186788	G	C	2915	-0.22	0.05	0.00	0.01	20.28
rs118169282	CD39 on CD39+	ebi-a-GCST90002029	7	52373730	C	G	2915	0.25	0.06	0.00	0.01	19.75
rs12237839	CD39 on CD39+	ebi-a-GCST90002029	9	135281367	C	A	2915	-0.24	0.05	0.00	0.01	23.51
rs12415115	CD39 on CD39+	ebi-a-GCST90002029	10	82712186	A	G	2915	0.13	0.03	0.00	0.01	20.71
rs10882701	CD39 on CD39+	ebi-a-GCST90002029	10	97741071	C	A	2915	-0.19	0.03	0.00	0.02	50.00
rs11815047	CD39 on CD39+	ebi-a-GCST90002029	10	1112149	C	G	2915	-0.20	0.04	0.00	0.01	20.17
rs2901833	CD39 on CD39+	ebi-a-GCST90002029	10	96998591	A	G	2915	0.18	0.03	0.00	0.01	44.33
rs7088961	CD39 on CD39+	ebi-a-GCST90002029	10	97608114	G	C	2915	0.50	0.03	0.00	0.12	392.50
rs728713	CD39 on CD39+	ebi-a-GCST90002029	10	105552449	G	A	2915	-0.21	0.05	0.00	0.01	20.79
rs113261188	CD39 on CD39+	ebi-a-GCST90002029	12	107834932	A	G	2915	-0.35	0.07	0.00	0.01	24.38
rs11107237	CD39 on CD39+	ebi-a-GCST90002029	12	94282149	T	C	2915	0.14	0.03	0.00	0.01	25.50
rs8014341	CD39 on CD39+	ebi-a-GCST90002029	14	89487689	C	T	2915	-0.13	0.03	0.00	0.01	21.60
rs4341854	CD39 on CD39+	ebi-a-GCST90002029	19	52260567	A	C	2915	-0.39	0.09	0.00	0.01	20.72
rs10422831	CD39 on CD39+	ebi-a-GCST90002029	19	2019930	G	T	2915	-0.20	0.04	0.00	0.01	22.98
rs8178474	CD39 on CD39+	ebi-a-GCST90002029	21	34649337	G	A	2915	0.22	0.05	0.00	0.01	23.82
rs4567963	CD39+ activated Treg	ebi-a-GCST90002030	2	79257886	A	G	2920	-0.29	0.06	0.00	0.01	20.73

rs66685711	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	2	221447582	A	G	2920	-0.15	0.03	0.00	0.01	22.55
rs2171655	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	2	127229166	C	A	2920	0.28	0.06	0.00	0.01	20.39
rs74346764	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	3	145230069	A	G	2920	-0.61	0.14	0.00	0.01	19.84
rs74788351	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	4	129075134	G	T	2920	0.68	0.14	0.00	0.01	24.66
rs1528104	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	7	137136419	T	C	2920	0.12	0.03	0.00	0.01	20.70
rs111253358	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	64441033	T	C	2920	-0.51	0.10	0.00	0.01	24.19
rs145557266	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	95850055	G	A	2920	0.57	0.10	0.00	0.01	34.90
rs147121076	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	95924521	G	T	2920	0.40	0.08	0.00	0.01	22.22
rs17442418	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	99777109	G	C	2920	0.39	0.08	0.00	0.01	21.54
rs113440812	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	100221844	A	G	2920	-0.47	0.09	0.00	0.01	25.81
rs1410600	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	97070694	T	C	2920	-0.26	0.03	0.00	0.03	91.90
rs12778797	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	96998688	C	T	2920	0.31	0.03	0.00	0.04	120.62
rs4918960	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	97472570	A	T	2920	-1.06	0.02	0.00	0.52	3159.29
rs114844216	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	98158952	C	T	2920	0.52	0.07	0.00	0.02	62.82
rs61886297	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	95830221	A	G	2920	0.53	0.10	0.00	0.01	28.66
rs12252311	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	79971872	T	C	2920	0.48	0.10	0.00	0.01	20.72
rs61859411	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	82519788	G	A	2920	-0.27	0.06	0.00	0.01	23.74
rs10882701	CD39 on CD39+ activated Treg	ebi-a-GCST90002030	10	97741071	C	A	2920	-0.45	0.03	0.00	0.09	300.10

rs11653180	CD39 on CD39+ activated	ebi-a-GCST90002030	17	3689318	A	G	2920	-0.30	0.06	0.00	0.01	21.23
rs17782405	Treg CD39 on CD39+ activated	ebi-a-GCST90002030	17	31751232	G	A	2920	0.17	0.04	0.00	0.01	23.61
rs308035	Treg CD39 on CD39+ activated	ebi-a-GCST90002030	19	3099555	G	A	2920	-0.14	0.03	0.00	0.01	20.31
rs77176206	Treg CD39 on CD39+ activated	ebi-a-GCST90002030	19	35278942	C	T	2920	0.39	0.09	0.00	0.01	19.93
rs112736587	Treg CD39 on CD39+ secreting	ebi-a-GCST90002031	1	68140344	G	A	2920	3.14	0.66	0.00	0.01	22.62
rs76866779	CD39+ secreting CD39 on	ebi-a-GCST90002031	1	115344429	T	C	2920	-0.95	0.21	0.00	0.01	20.30
rs62142767	CD39+ secreting CD39 on	ebi-a-GCST90002031	2	60359556	A	G	2920	0.21	0.04	0.00	0.01	22.08
rs116180260	CD39+ secreting CD39 on	ebi-a-GCST90002031	2	127180882	G	A	2920	0.24	0.05	0.00	0.01	20.15
rs74788351	CD39+ secreting CD39 on	ebi-a-GCST90002031	4	129075134	G	T	2920	0.65	0.14	0.00	0.01	21.56
rs58294041	CD39+ secreting CD39 on	ebi-a-GCST90002031	4	177219904	T	C	2920	-0.13	0.03	0.00	0.01	20.25
rs12778797	CD39+ secreting CD39 on	ebi-a-GCST90002031	10	96998688	C	T	2920	0.28	0.03	0.00	0.03	100.85
rs141018090	CD39+ secreting CD39 on	ebi-a-GCST90002031	10	98169221	T	G	2920	0.35	0.06	0.00	0.01	32.02
rs10882701	CD39+ secreting CD39 on	ebi-a-GCST90002031	10	97741071	C	A	2920	-0.40	0.03	0.00	0.07	214.03
rs10882655	CD39+ secreting CD39 on	ebi-a-GCST90002031	10	97474371	A	G	2920	-1.01	0.02	0.00	0.45	2358.24
rs10886720	CD39+ secreting CD39 on	ebi-a-GCST90002031	10	122355414	C	A	2920	-0.13	0.03	0.00	0.01	20.48
rs557334	CD39+ secreting CD39 on	ebi-a-GCST90002031	10	99765397	C	T	2920	-0.14	0.03	0.00	0.01	23.80
rs1410600	CD39+ secreting CD39 on	ebi-a-GCST90002031	10	97070694	T	C	2920	-0.24	0.03	0.00	0.03	75.10
rs10882793	CD39+ secreting CD39 on	ebi-a-GCST90002031	10	98217526	C	T	2920	-0.17	0.04	0.00	0.01	20.21
rs10788360	CD39+ secreting CD39 on	ebi-a-GCST90002031	10	86499074	T	C	2920	-0.15	0.03	0.00	0.01	20.09
rs10998783	CD39+ secreting CD39 on	ebi-a-GCST90002031	10	71204033	T	A	2920	0.12	0.03	0.00	0.01	19.82
rs61858556	CD39+ secreting CD39 on	ebi-a-GCST90002031	10	98340476	A	C	2920	-0.22	0.05	0.00	0.01	22.33
rs72896749	CD39+ secreting CD39 on	ebi-a-GCST90002031	11	45659591	A	G	2920	-2.08	0.42	0.00	0.01	24.02
rs10501444	CD39+ secreting	ebi-a-GCST90002031	11	79137378	G	C	2920	-0.16	0.04	0.00	0.01	20.60

rs190744827	CD39 on CD39+ secreting CD39 on	ebi-a-GCST90002031	14	55569054	A	G	2920	-0.54	0.12	0.00	0.01	21.23
rs80146165	CD39+ secreting CD39 on	ebi-a-GCST90002031	15	68273646	T	C	2920	-0.31	0.06	0.00	0.01	25.00
rs17782405	CD39+ secreting CD39 on	ebi-a-GCST90002031	17	31751232	G	A	2920	0.18	0.04	0.00	0.01	22.95
rs7259646	CD39+ secreting CD39 on	ebi-a-GCST90002031	19	53873606	C	A	2920	0.14	0.03	0.00	0.01	21.43
rs2424506	CD39+ secreting CD39 on	ebi-a-GCST90002031	20	23036651	A	G	2920	-0.13	0.03	0.00	0.01	21.20
rs79502391	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	2	75610667	T	G	2920	-0.18	0.04	0.00	0.01	20.28
rs62138982	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	2	65095286	C	G	2920	0.42	0.09	0.00	0.01	19.67
rs2886870	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	3	192616700	G	T	2920	-0.13	0.03	0.00	0.01	20.27
rs7646534	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	3	62850140	C	G	2920	0.15	0.03	0.00	0.01	19.67
rs11929716	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	4	28719206	C	T	2920	-0.33	0.07	0.00	0.01	23.40
rs6815832	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	4	177211552	T	C	2920	-0.15	0.03	0.00	0.01	21.01
rs191035403	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	5	178729984	T	G	2920	-0.58	0.13	0.00	0.01	19.86
rs28687532	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	7	137130450	C	A	2920	-0.13	0.03	0.00	0.01	22.75
rs147765250	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	7	153196368	T	C	2920	0.35	0.08	0.00	0.01	20.36
rs2045028	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	8	27922723	G	A	2920	-0.13	0.03	0.00	0.01	22.07
rs12269710	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	10	100218017	A	G	2920	-0.47	0.09	0.00	0.01	24.91
rs10882701	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	10	97741071	C	A	2920	-0.38	0.03	0.00	0.06	197.41
rs10883000	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	10	99565268	C	T	2920	0.15	0.03	0.00	0.01	28.39
rs10882655	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	10	97474371	A	G	2920	-0.99	0.02	0.00	0.43	2177.46
rs2901833	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	10	96998591	A	G	2920	0.27	0.03	0.00	0.03	90.59
rs1410600	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	10	97070694	T	C	2920	-0.23	0.03	0.00	0.02	68.21
rs11188782	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	10	98236565	G	T	2920	-0.21	0.04	0.00	0.01	30.99
rs148810393	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	12	39003459	T	A	2920	0.32	0.07	0.00	0.01	22.14
rs111290040	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	16	63795817	A	G	2920	-0.21	0.05	0.00	0.01	20.18
rs12603021	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	17	3202903	T	C	2920	0.21	0.04	0.00	0.01	22.05
rs308035	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	19	3099555	G	A	2920	-0.15	0.03	0.00	0.01	20.35
rs55760306	CD39+ CD4+ CD39 on	ebi-a-GCST90002032	22	49885801	C	T	2920	-0.15	0.03	0.00	0.01	23.36
rs2070901	CD39 on granulocyte	ebi-a-GCST90002033	1	161185058	T	G	2920	0.16	0.03	0.00	0.01	28.24
rs146832619	CD39 on granulocyte	ebi-a-GCST90002033	1	182145692	T	C	2920	-2.21	0.47	0.00	0.01	22.02
rs114593719	CD39 on granulocyte	ebi-a-GCST90002033	1	120146042	C	G	2920	0.18	0.04	0.00	0.01	19.98
rs75826267	CD39 on granulocyte	ebi-a-GCST90002033	2	25151545	A	G	2920	-0.59	0.13	0.00	0.01	20.75
rs116660215	CD39 on granulocyte	ebi-a-GCST90002033	2	17527024	A	G	2920	0.33	0.07	0.00	0.01	20.71
rs11719519	CD39 on granulocyte	ebi-a-GCST90002033	3	186104558	T	C	2920	0.17	0.03	0.00	0.01	26.21
rs7630948	CD39 on granulocyte	ebi-a-GCST90002033	3	30732534	C	A	2920	-0.22	0.04	0.00	0.01	25.98

rs61286411	CD39 on granulocyte	ebi-a-GCST90002033	3	25586839	C	T	2920	0.22	0.05	0.00	0.01	20.80
rs11720783	CD39 on granulocyte	ebi-a-GCST90002033	3	159259315	G	A	2920	0.81	0.18	0.00	0.01	20.42
rs116817680	CD39 on granulocyte	ebi-a-GCST90002033	4	20867272	A	C	2920	0.53	0.11	0.00	0.01	21.76
rs28791580	CD39 on granulocyte	ebi-a-GCST90002033	4	60032561	C	G	2920	-1.25	0.26	0.00	0.01	23.74
rs867924	CD39 on granulocyte	ebi-a-GCST90002033	5	143087656	T	C	2920	0.17	0.03	0.00	0.01	27.14
rs351433	CD39 on granulocyte	ebi-a-GCST90002033	5	68414152	A	G	2920	0.21	0.05	0.00	0.01	19.94
rs115457551	CD39 on granulocyte	ebi-a-GCST90002033	5	80156939	T	C	2920	-0.35	0.08	0.00	0.01	19.64
rs2817775	CD39 on granulocyte	ebi-a-GCST90002033	6	110840020	G	C	2920	-0.32	0.07	0.00	0.01	20.18
rs445	CD39 on granulocyte	ebi-a-GCST90002033	7	92408370	T	C	2920	0.21	0.03	0.00	0.01	37.44
rs188989638	CD39 on granulocyte	ebi-a-GCST90002033	7	51951285	A	G	2920	0.68	0.15	0.00	0.01	20.51
rs11766311	CD39 on granulocyte	ebi-a-GCST90002033	7	77134132	A	G	2920	-0.15	0.03	0.00	0.01	30.05
rs42031	CD39 on granulocyte	ebi-a-GCST90002033	7	92237396	T	A	2920	-0.15	0.03	0.00	0.01	21.61
rs12553288	CD39 on granulocyte	ebi-a-GCST90002033	9	105037632	T	C	2920	0.28	0.06	0.00	0.01	21.51
rs7073937	CD39 on granulocyte	ebi-a-GCST90002033	10	97469109	T	C	2920	-0.20	0.03	0.00	0.01	35.79
rs72892358	CD39 on granulocyte	ebi-a-GCST90002033	11	31876312	A	G	2920	0.22	0.05	0.00	0.01	19.74
rs506053	CD39 on granulocyte	ebi-a-GCST90002033	11	59829804	T	C	2920	0.13	0.03	0.00	0.01	21.71
rs35247100	CD39 on granulocyte	ebi-a-GCST90002033	15	99433803	T	C	2920	-0.13	0.03	0.00	0.01	24.01
rs7177153	CD39 on granulocyte	ebi-a-GCST90002033	15	53764662	T	G	2920	-0.26	0.06	0.00	0.01	22.42
rs139849385	CD39 on granulocyte	ebi-a-GCST90002033	16	4693648	T	C	2920	-0.47	0.09	0.00	0.01	28.66
rs1941617	CD39 on granulocyte	ebi-a-GCST90002033	18	22584904	G	A	2920	-0.98	0.22	0.00	0.01	19.95
rs371927	CD39 on granulocyte	ebi-a-GCST90002033	20	43263036	A	G	2920	0.26	0.06	0.00	0.01	19.64
rs75935102	CD39 on monocyte	ebi-a-GCST90002034	1	44477960	C	T	2909	5.58	1.15	0.00	0.01	23.50
rs138028805	CD39 on monocyte	ebi-a-GCST90002034	1	38546640	G	C	2909	-0.61	0.12	0.00	0.01	27.33
rs115897087	CD39 on monocyte	ebi-a-GCST90002034	1	43450801	T	C	2909	1.83	0.41	0.00	0.01	19.57
rs181076711	CD39 on monocyte	ebi-a-GCST90002034	1	105207158	G	A	2909	0.40	0.09	0.00	0.01	20.41
rs3213851	CD39 on monocyte	ebi-a-GCST90002034	2	38812656	G	A	2909	1.46	0.33	0.00	0.01	19.88
rs72867988	CD39 on monocyte	ebi-a-GCST90002034	2	153968014	A	G	2909	-1.12	0.25	0.00	0.01	19.60
rs11896747	CD39 on monocyte	ebi-a-GCST90002034	2	43764398	G	A	2909	0.14	0.03	0.00	0.01	23.10
rs115014362	CD39 on monocyte	ebi-a-GCST90002034	3	20181904	T	C	2909	-1.11	0.25	0.00	0.01	20.54
rs34992898	CD39 on monocyte	ebi-a-GCST90002034	4	77697071	G	A	2909	0.18	0.04	0.00	0.01	21.23
rs35764061	CD39 on monocyte	ebi-a-GCST90002034	7	73285441	T	C	2909	0.89	0.20	0.00	0.01	20.12
rs117286316	CD39 on monocyte	ebi-a-GCST90002034	7	110522802	G	T	2909	2.95	0.66	0.00	0.01	20.23
rs28810746	CD39 on monocyte	ebi-a-GCST90002034	7	73054573	G	A	2909	-0.27	0.06	0.00	0.01	21.35
rs73113464	CD39 on monocyte	ebi-a-GCST90002034	7	53205505	G	T	2909	0.39	0.08	0.00	0.01	22.49
rs11592078	CD39 on monocyte	ebi-a-GCST90002034	10	30653567	A	G	2909	0.25	0.05	0.00	0.01	21.34
rs77346511	CD39 on monocyte	ebi-a-GCST90002034	11	5268498	T	C	2909	-0.29	0.05	0.00	0.01	29.94
rs67652251	CD39 on monocyte	ebi-a-GCST90002034	13	114957688	T	C	2909	0.20	0.04	0.00	0.01	22.41

rs8050653	CD39 on monocyte	ebi-a-GCST90002034	16	82300059	G	A	2909	0.13	0.03	0.00	0.01	20.93
rs247062	CD39 on monocyte	ebi-a-GCST90002034	16	57888792	C	A	2909	-0.15	0.03	0.00	0.01	26.16
rs2337147	CD39 on monocyte	ebi-a-GCST90002034	18	46483810	A	G	2909	-0.17	0.03	0.00	0.01	31.78
rs77687616	CD39 on monocyte	ebi-a-GCST90002034	20	54392972	C	T	2909	-0.61	0.14	0.00	0.01	19.84
rs6031492	CD39 on monocyte	ebi-a-GCST90002034	20	42897549	G	T	2909	0.18	0.04	0.00	0.01	23.40
rs4050551	CD39 on monocyte	ebi-a-GCST90002034	22	22991747	G	T	2909	1.25	0.28	0.00	0.01	19.83
rs71632979	CD80 on myeloid DC	ebi-a-GCST90002035	1	161526397	G	A	2871	0.33	0.03	0.00	0.04	111.92
rs139795227	CD80 on myeloid DC	ebi-a-GCST90002035	1	92842367	C	A	2871	-0.57	0.06	0.00	0.03	79.47
rs1146465	CD80 on myeloid DC	ebi-a-GCST90002035	1	95401613	G	A	2871	-0.14	0.03	0.00	0.01	23.26
rs71639910	CD80 on myeloid DC	ebi-a-GCST90002035	1	161937774	A	G	2871	0.25	0.05	0.00	0.01	21.30
rs79015439	CD80 on myeloid DC	ebi-a-GCST90002035	1	94803124	T	C	2871	-0.55	0.12	0.00	0.01	19.72
rs76064946	CD80 on myeloid DC	ebi-a-GCST90002035	1	93926697	G	T	2871	-0.20	0.04	0.00	0.01	22.14
rs34687967	CD80 on myeloid DC	ebi-a-GCST90002035	2	155359340	T	C	2871	0.14	0.03	0.00	0.01	19.94
rs6787493	CD80 on myeloid DC	ebi-a-GCST90002035	3	52528000	C	T	2871	0.41	0.05	0.00	0.03	80.57
rs79299158	CD80 on myeloid DC	ebi-a-GCST90002035	3	194861480	A	G	2871	1.01	0.22	0.00	0.01	20.91
rs12640679	CD80 on myeloid DC	ebi-a-GCST90002035	4	155764038	C	T	2871	0.13	0.03	0.00	0.01	22.06
rs7757423	CD80 on myeloid DC	ebi-a-GCST90002035	6	149222646	A	G	2871	-0.13	0.03	0.00	0.01	21.04
rs74562173	CD80 on myeloid DC	ebi-a-GCST90002035	6	87279281	C	T	2871	2.41	0.55	0.00	0.01	19.59
rs79470163	CD80 on myeloid DC	ebi-a-GCST90002035	6	43733897	C	T	2871	0.35	0.08	0.00	0.01	20.38
rs2325259	CD80 on myeloid DC	ebi-a-GCST90002035	6	90850164	C	T	2871	0.20	0.03	0.00	0.02	50.98
rs2052324	CD80 on myeloid DC	ebi-a-GCST90002035	7	35419263	A	C	2871	-0.18	0.04	0.00	0.01	24.83
rs35291101	CD80 on myeloid DC	ebi-a-GCST90002035	8	4443670	G	C	2871	-0.18	0.04	0.00	0.01	20.32
rs9650736	CD80 on myeloid DC	ebi-a-GCST90002035	9	121270755	A	C	2871	0.23	0.05	0.00	0.01	23.30
rs651398	CD80 on myeloid DC	ebi-a-GCST90002035	10	80446485	A	G	2871	-0.13	0.03	0.00	0.01	19.64
rs329521	CD80 on myeloid DC	ebi-a-GCST90002035	11	29440261	A	G	2871	0.22	0.05	0.00	0.01	20.41
rs77891122	CD80 on myeloid DC	ebi-a-GCST90002035	11	132943074	C	T	2871	-0.38	0.08	0.00	0.01	20.45
rs11178308	CD80 on myeloid DC	ebi-a-GCST90002035	12	70975329	A	C	2871	0.87	0.19	0.00	0.01	20.22
rs111689986	CD80 on myeloid DC	ebi-a-GCST90002035	12	51535753	T	C	2871	0.16	0.04	0.00	0.01	20.73
rs9524710	CD80 on myeloid DC	ebi-a-GCST90002035	13	95612174	A	T	2871	-0.25	0.05	0.00	0.01	22.88
rs146503240	CD80 on myeloid DC	ebi-a-GCST90002035	17	6496912	T	C	2871	0.31	0.07	0.00	0.01	21.49
rs55752165	CD80 on myeloid DC	ebi-a-GCST90002035	19	17830975	T	C	2871	-0.13	0.03	0.00	0.01	20.39
rs12609290	CD80 on myeloid DC	ebi-a-GCST90002035	19	17910564	A	G	2871	0.39	0.08	0.00	0.01	21.86
rs398462	CD80 on myeloid DC	ebi-a-GCST90002035	19	5996439	C	T	2871	-0.13	0.03	0.00	0.01	21.13
rs6516794	CD80 on myeloid DC	ebi-a-GCST90002035	21	29285838	T	A	2871	0.13	0.03	0.00	0.01	20.19
rs972360	CD62L+ myeloid DC	ebi-a-GCST90002036	1	94937670	T	G	2871	-0.62	0.13	0.00	0.01	24.35
rs139795227	CD62L+ myeloid DC	ebi-a-GCST90002036	1	92842367	C	A	2871	-0.59	0.06	0.00	0.03	83.15

rs1146465	CD80 on CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	1	95401613	G	A	2871	-0.14	0.03	0.00	0.01	23.11
rs149094296	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	3	128701091	G	C	2871	-1.08	0.21	0.00	0.01	26.79
rs145983670	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	3	129775019	A	G	2871	-0.83	0.18	0.00	0.01	20.41
rs9812720	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	3	25085794	C	T	2871	0.58	0.13	0.00	0.01	20.95
rs142175829	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	3	128313034	C	T	2871	-0.93	0.19	0.00	0.01	24.31
rs9875875	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	3	10560942	A	G	2871	0.20	0.04	0.00	0.01	21.13
rs6445484	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	3	52503800	G	A	2871	0.47	0.05	0.00	0.04	105.89
rs116671753	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	4	138723841	C	T	2871	-2.01	0.45	0.00	0.01	19.74
rs79470163	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	6	43733897	C	T	2871	0.37	0.08	0.00	0.01	22.27
rs7757423	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	6	149222646	A	G	2871	-0.13	0.03	0.00	0.01	21.16
rs12199079	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	6	90852258	G	T	2871	0.23	0.03	0.00	0.02	65.72
rs78587782	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	8	16839699	A	C	2871	-0.15	0.03	0.00	0.01	21.01
rs12237829	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	9	25815735	T	G	2871	0.15	0.03	0.00	0.01	19.87
rs10733750	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	9	96630555	C	T	2871	0.14	0.03	0.00	0.01	23.73
rs145212011	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	10	55883783	A	G	2871	-1.23	0.27	0.00	0.01	19.93
rs35142187	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	10	90553571	T	C	2871	0.47	0.11	0.00	0.01	19.86
rs77891122	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	11	132943074	C	T	2871	-0.38	0.09	0.00	0.01	19.98
rs73434317	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	11	26598705	C	T	2871	-1.49	0.34	0.00	0.01	19.63
rs111689986	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	12	51535753	T	C	2871	0.16	0.04	0.00	0.01	19.58
rs11178308	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	12	70975329	A	C	2871	0.96	0.19	0.00	0.01	24.58
rs9524710	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	13	95612174	A	T	2871	-0.23	0.05	0.00	0.01	19.70
rs143918998	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	15	67269845	C	T	2871	0.59	0.13	0.00	0.01	20.27
rs146503240	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	17	6496912	T	C	2871	0.31	0.07	0.00	0.01	22.06
rs398462	CD62L+ mveloid DC	ebi-a-GCST90002036	19	5996439	C	T	2871	-0.13	0.03	0.00	0.01	20.57

rs10416809	CD80 on CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	19	1252311	T	C	2871	0.13	0.03	0.00	0.01	19.58
rs117930014	CD62L+ mveloid DC CD80 on	ebi-a-GCST90002036	20	2609471	A	G	2871	-0.65	0.15	0.00	0.01	19.77
rs78700726	plasmacytoid DC CD80 on	ebi-a-GCST90002037	1	59673110	C	G	2871	-0.40	0.09	0.00	0.01	21.13
rs79213920	plasmacytoid DC CD80 on	ebi-a-GCST90002037	1	225471349	A	G	2871	-2.15	0.48	0.00	0.01	20.20
rs379605	plasmacytoid DC CD80 on	ebi-a-GCST90002037	1	30988530	T	G	2871	0.13	0.03	0.00	0.01	19.69
rs12239268	plasmacytoid DC CD80 on	ebi-a-GCST90002037	1	202051197	A	G	2871	-0.20	0.04	0.00	0.01	23.05
rs115568119	plasmacytoid DC CD80 on	ebi-a-GCST90002037	1	118721918	T	C	2871	-0.77	0.16	0.00	0.01	23.60
rs7573831	plasmacytoid DC CD80 on	ebi-a-GCST90002037	2	38099030	G	C	2871	0.13	0.03	0.00	0.01	20.02
rs78312719	plasmacytoid DC CD80 on	ebi-a-GCST90002037	3	16614400	A	G	2871	-0.41	0.09	0.00	0.01	20.99
rs7658518	plasmacytoid DC CD80 on	ebi-a-GCST90002037	4	84160279	A	G	2871	-0.29	0.03	0.00	0.03	87.50
rs6921419	plasmacytoid DC CD80 on	ebi-a-GCST90002037	6	48113358	T	C	2871	-0.17	0.04	0.00	0.01	20.54
rs7761641	plasmacytoid DC CD80 on	ebi-a-GCST90002037	6	41956475	T	C	2871	-0.13	0.03	0.00	0.01	21.30
rs62447171	plasmacytoid DC CD80 on	ebi-a-GCST90002037	7	50309890	A	G	2871	-0.21	0.03	0.00	0.01	40.03
rs7812595	plasmacytoid DC CD80 on	ebi-a-GCST90002037	8	135493606	T	G	2871	0.32	0.06	0.00	0.01	25.41
rs75061768	plasmacytoid DC CD80 on	ebi-a-GCST90002037	11	87840236	A	G	2871	1.63	0.35	0.00	0.01	21.75
rs1878266	plasmacytoid DC CD80 on	ebi-a-GCST90002037	11	83552659	T	C	2871	0.14	0.03	0.00	0.01	19.91
rs2786227	plasmacytoid DC CD80 on	ebi-a-GCST90002037	13	35698790	T	C	2871	-0.16	0.03	0.00	0.01	20.66
rs116989551	plasmacytoid DC CD80 on	ebi-a-GCST90002037	14	85248677	T	A	2871	1.54	0.35	0.00	0.01	19.65
rs7185638	plasmacytoid DC CD80 on	ebi-a-GCST90002037	16	86741000	A	G	2871	0.17	0.03	0.00	0.01	24.82
rs34388196	plasmacytoid DC CD80 on	ebi-a-GCST90002037	17	28534469	G	A	2871	0.13	0.03	0.00	0.01	20.44
rs639092	plasmacytoid DC CD80 on	ebi-a-GCST90002037	17	76514568	G	A	2871	0.15	0.03	0.00	0.01	21.25
rs8094829	plasmacytoid DC CD80 on	ebi-a-GCST90002037	18	6023963	T	C	2871	-0.31	0.07	0.00	0.01	19.63
rs138318679	plasmacytoid DC CD80 on	ebi-a-GCST90002037	21	46094596	T	G	2871	0.26	0.05	0.00	0.01	22.57
rs78700726	CD62L+ plasmacytoid DC	ebi-a-GCST90002038	1	59673110	C	G	2871	-0.40	0.09	0.00	0.01	21.24

rs379605	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	1	30988530	T	G	2871	0.13	0.03	0.00	0.01	19.79
rs115568119	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	1	118721918	T	C	2871	-0.78	0.16	0.00	0.01	23.73
rs12239268	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	1	202051197	A	G	2871	-0.20	0.04	0.00	0.01	22.73
rs79213920	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	1	225471349	A	G	2871	-2.16	0.48	0.00	0.01	20.41
rs7573831	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	2	38099030	G	C	2871	0.13	0.03	0.00	0.01	20.11
rs78312719	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	3	16614400	A	G	2871	-0.41	0.09	0.00	0.01	21.22
rs7658518	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	4	84160279	A	G	2871	-0.28	0.03	0.00	0.03	85.38
rs6921419	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	6	48113358	T	C	2871	-0.17	0.04	0.00	0.01	20.62
rs7761641	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	6	41956475	T	C	2871	-0.13	0.03	0.00	0.01	20.76
rs144549482	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	7	113212504	C	A	2871	-1.36	0.31	0.00	0.01	19.59
rs62447171	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	7	50309890	A	G	2871	-0.21	0.03	0.00	0.01	39.88
rs7812595	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	8	135493606	T	G	2871	0.32	0.06	0.00	0.01	24.90
rs75061768	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	11	87840236	A	G	2871	1.64	0.35	0.00	0.01	22.12
rs1878266	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	11	83552659	T	C	2871	0.14	0.03	0.00	0.01	20.17
rs2786227	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	13	35698790	T	C	2871	-0.16	0.03	0.00	0.01	20.55
rs7185638	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	16	86741000	A	G	2871	0.17	0.03	0.00	0.01	24.94
rs34388196	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	17	28534469	G	A	2871	0.13	0.03	0.00	0.01	20.31
rs639092	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	17	76514568	G	A	2871	0.15	0.03	0.00	0.01	21.31

rs8094829	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	18	6023963	T	C	2871	-0.31	0.07	0.00	0.01	19.85
rs138318679	CD80 on CD62L+ plasmacytoid DC	ebi-a-GCST90002038	21	46094596	T	G	2871	0.26	0.05	0.00	0.01	22.67
rs139795227	CD80 on monocyte	ebi-a-GCST90002039	1	92842367	C	A	2850	-1.15	0.06	0.00	0.11	342.56
rs141264358	CD80 on monocyte	ebi-a-GCST90002039	1	90530314	C	T	2850	-0.59	0.11	0.00	0.01	30.22
rs76064946	CD80 on monocyte	ebi-a-GCST90002039	1	93926697	G	T	2850	-0.35	0.04	0.00	0.02	67.84
rs79015439	CD80 on monocyte	ebi-a-GCST90002039	1	94803124	T	C	2850	-0.79	0.12	0.00	0.01	42.82
rs114839459	CD80 on monocyte	ebi-a-GCST90002039	1	92412978	T	G	2850	-0.89	0.19	0.00	0.01	22.31
rs149889574	CD80 on monocyte	ebi-a-GCST90002039	2	195749242	C	T	2850	-0.36	0.08	0.00	0.01	21.63
rs758800	CD80 on monocyte	ebi-a-GCST90002039	3	52529266	C	T	2850	0.66	0.04	0.00	0.07	219.90
rs116371507	CD80 on monocyte	ebi-a-GCST90002039	3	52895436	T	C	2850	-0.56	0.12	0.00	0.01	21.41
rs114253672	CD80 on monocyte	ebi-a-GCST90002039	3	11967862	C	T	2850	-0.15	0.03	0.00	0.01	27.94
rs73154858	CD80 on monocyte	ebi-a-GCST90002039	3	162785650	A	G	2850	-0.74	0.16	0.00	0.01	21.01
rs6764053	CD80 on monocyte	ebi-a-GCST90002039	3	194095527	T	C	2850	-0.17	0.03	0.00	0.01	28.15
rs35075155	CD80 on monocyte	ebi-a-GCST90002039	3	53273195	C	T	2850	-0.16	0.03	0.00	0.01	33.50
rs7625554	CD80 on monocyte	ebi-a-GCST90002039	3	137724122	C	T	2850	-0.13	0.03	0.00	0.01	21.19
rs113543675	CD80 on monocyte	ebi-a-GCST90002039	4	190041767	G	C	2850	0.29	0.07	0.00	0.01	19.63
rs10520274	CD80 on monocyte	ebi-a-GCST90002039	4	175130244	C	G	2850	-0.29	0.06	0.00	0.01	20.70
rs4867493	CD80 on monocyte	ebi-a-GCST90002039	5	32983457	A	G	2850	0.13	0.03	0.00	0.01	19.87
rs74425990	CD80 on monocyte	ebi-a-GCST90002039	7	17172484	T	C	2850	0.29	0.07	0.00	0.01	19.77
rs36159865	CD80 on monocyte	ebi-a-GCST90002039	7	416852	A	G	2850	-0.82	0.18	0.00	0.01	21.22
rs11764289	CD80 on monocyte	ebi-a-GCST90002039	7	47373313	C	T	2850	0.25	0.06	0.00	0.01	20.42
rs10230431	CD80 on monocyte	ebi-a-GCST90002039	7	116586829	G	A	2850	-0.21	0.04	0.00	0.01	22.19
rs13254130	CD80 on monocyte	ebi-a-GCST90002039	8	1679058	T	C	2850	0.16	0.03	0.00	0.01	20.00
rs10857716	CD80 on monocyte	ebi-a-GCST90002039	10	135256327	T	C	2850	-0.13	0.03	0.00	0.01	21.03
rs751724	CD80 on monocyte	ebi-a-GCST90002039	20	59623127	G	T	2850	-0.13	0.03	0.00	0.01	19.93
rs1886654	CD80 on granulocyte	ebi-a-GCST90002040	1	236105910	C	T	2850	-0.21	0.04	0.00	0.01	30.64
rs11102883	CD80 on granulocyte	ebi-a-GCST90002040	1	115612702	A	C	2850	0.13	0.03	0.00	0.01	19.94
rs10936226	CD80 on granulocyte	ebi-a-GCST90002040	3	94179989	C	T	2850	0.17	0.04	0.00	0.01	21.08
rs17745206	CD80 on granulocyte	ebi-a-GCST90002040	3	9321015	C	G	2850	0.13	0.03	0.00	0.01	20.43
rs148627425	CD80 on granulocyte	ebi-a-GCST90002040	3	62649750	C	T	2850	-0.52	0.11	0.00	0.01	23.13
rs1489849	CD80 on granulocyte	ebi-a-GCST90002040	3	79404844	C	A	2850	0.15	0.03	0.00	0.01	26.11
rs116690299	CD80 on granulocyte	ebi-a-GCST90002040	3	16516486	A	G	2850	-0.39	0.08	0.00	0.01	21.76
rs115469709	CD80 on granulocyte	ebi-a-GCST90002040	4	64778416	T	G	2850	1.13	0.25	0.00	0.01	20.79
rs12507081	CD80 on granulocyte	ebi-a-GCST90002040	4	153889606	G	T	2850	-0.17	0.04	0.00	0.01	21.14
rs3012550	CD80 on granulocyte	ebi-a-GCST90002040	6	74567610	C	T	2850	0.25	0.05	0.00	0.01	22.45

rs319333	CD80 on granulocyte	ebi-a-GCST90002040	7	95543624	C	T	2850	0.46	0.10	0.00	0.01	22.88
rs445	CD80 on granulocyte	ebi-a-GCST90002040	7	92408370	T	C	2850	0.18	0.03	0.00	0.01	27.64
rs12675298	CD80 on granulocyte	ebi-a-GCST90002040	8	6828813	A	G	2850	-0.67	0.08	0.00	0.02	63.26
rs73327307	CD80 on granulocyte	ebi-a-GCST90002040	8	111918474	G	A	2850	-0.22	0.05	0.00	0.01	19.84
rs78322649	CD80 on granulocyte	ebi-a-GCST90002040	8	6762655	T	G	2850	-0.45	0.10	0.00	0.01	20.08
rs2981398	CD80 on granulocyte	ebi-a-GCST90002040	8	6801712	G	A	2850	-0.22	0.03	0.00	0.02	59.35
rs138383232	CD80 on granulocyte	ebi-a-GCST90002040	9	86761155	C	A	2850	-0.30	0.06	0.00	0.01	21.62
rs1018850	CD80 on granulocyte	ebi-a-GCST90002040	9	108335541	C	T	2850	0.22	0.05	0.00	0.01	20.62
rs2801527	CD80 on granulocyte	ebi-a-GCST90002040	10	90904076	T	C	2850	-0.14	0.03	0.00	0.01	23.35
rs186823180	CD80 on granulocyte	ebi-a-GCST90002040	11	22731651	G	A	2850	-0.41	0.09	0.00	0.01	22.58
rs7924850	CD80 on granulocyte	ebi-a-GCST90002040	11	127055116	A	G	2850	0.13	0.03	0.00	0.01	21.97
rs3825097	CD80 on granulocyte	ebi-a-GCST90002040	12	122804034	G	A	2850	0.13	0.03	0.00	0.01	21.16
rs17481181	CD80 on granulocyte	ebi-a-GCST90002040	12	24172546	G	T	2850	-0.28	0.06	0.00	0.01	22.11
rs79603423	CD80 on granulocyte	ebi-a-GCST90002040	12	113919973	T	C	2850	-0.63	0.13	0.00	0.01	23.11
rs12585407	CD80 on granulocyte	ebi-a-GCST90002040	13	23667413	C	T	2850	0.14	0.03	0.00	0.01	24.27
rs10150976	CD80 on granulocyte	ebi-a-GCST90002040	14	107005926	G	T	2850	0.16	0.04	0.00	0.01	20.04
rs111503035	CD80 on granulocyte	ebi-a-GCST90002040	16	60468825	G	A	2850	-0.23	0.05	0.00	0.01	20.64
rs7350970	CD80 on granulocyte	ebi-a-GCST90002040	17	67933411	A	G	2850	0.20	0.04	0.00	0.01	21.18
rs62102263	CD80 on granulocyte	ebi-a-GCST90002040	18	46540942	A	C	2850	0.16	0.03	0.00	0.01	22.15
rs56161266	CD80 on granulocyte	ebi-a-GCST90002040	19	58816642	G	A	2850	-1.29	0.29	0.00	0.01	20.44
rs142529172	CD80 on granulocyte	ebi-a-GCST90002040	19	4814248	G	C	2850	-0.66	0.15	0.00	0.01	20.40
rs1023388	CD80 on granulocyte	ebi-a-GCST90002040	21	19717241	C	T	2850	-0.15	0.03	0.00	0.01	24.57
rs117718780	CD80 on granulocyte	ebi-a-GCST90002040	22	28335603	T	C	2850	-1.33	0.29	0.00	0.01	21.03
rs113430136	CD45 on lymphocyte	ebi-a-GCST90002041	1	204258208	T	C	1635	-0.53	0.12	0.00	0.01	19.85
rs145947216	CD45 on lymphocyte	ebi-a-GCST90002041	2	38596674	T	C	1635	-0.42	0.09	0.00	0.01	19.98
rs11706901	CD45 on lymphocyte	ebi-a-GCST90002041	3	10663917	G	C	1635	0.22	0.05	0.00	0.01	21.21
rs1004687	CD45 on lymphocyte	ebi-a-GCST90002041	3	103810095	T	G	1635	-0.16	0.03	0.00	0.01	21.93
rs1553663	CD45 on lymphocyte	ebi-a-GCST90002041	4	55280100	C	T	1635	-0.20	0.04	0.00	0.01	20.06
rs149609625	CD45 on lymphocyte	ebi-a-GCST90002041	5	53714969	A	T	1635	0.97	0.20	0.00	0.01	22.35
rs77704135	CD45 on lymphocyte	ebi-a-GCST90002041	6	26293012	G	A	1635	0.46	0.10	0.00	0.01	22.81
rs79267062	CD45 on lymphocyte	ebi-a-GCST90002041	6	26176010	C	T	1635	0.34	0.07	0.00	0.01	22.72
rs282088	CD45 on lymphocyte	ebi-a-GCST90002041	6	154260029	A	G	1635	-0.28	0.05	0.00	0.02	26.28
rs11772551	CD45 on lymphocyte	ebi-a-GCST90002041	10	56075362	T	C	1635	-0.38	0.08	0.00	0.01	21.39
rs184651667	CD45 on lymphocyte	ebi-a-GCST90002041	10	16847686	C	T	1635	0.50	0.10	0.00	0.01	24.27
rs74789069	CD45 on lymphocyte	ebi-a-GCST90002041	12	130989861	G	A	1635	-0.49	0.11	0.00	0.01	21.45
rs9567870	CD45 on lymphocyte	ebi-a-GCST90002041	13	48040480	T	A	1635	0.32	0.07	0.00	0.01	20.18
rs9559563	CD45 on lymphocyte	ebi-a-GCST90002041	13	110000129	C	T	1635	-0.17	0.04	0.00	0.01	21.46

rs368565398	CD45 on lymphocyte	ebi-a-GCST90002041	16	89952846	A	T	1635	0.73	0.13	0.00	0.02	29.54
rs138535375	CD45 on lymphocyte	ebi-a-GCST90002041	18	22152471	T	G	1635	-0.97	0.20	0.00	0.01	22.46
rs1660269	CD45 on lymphocyte	ebi-a-GCST90002041	18	62549208	G	A	1635	0.17	0.04	0.00	0.01	20.47
rs56165924	CD45 on lymphocyte	ebi-a-GCST90002041	19	562874	T	C	1635	-0.22	0.05	0.00	0.01	20.05
rs11696662	CD45 on lymphocyte	ebi-a-GCST90002041	20	39790435	T	C	1635	0.28	0.06	0.00	0.01	22.26
rs150795	CD45 on lymphocyte	ebi-a-GCST90002041	21	43462379	G	A	1635	0.17	0.04	0.00	0.01	23.09
rs72677097	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	1	61134076	G	A	1579	0.38	0.07	0.00	0.02	32.85
rs149629736	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	1	204981132	A	G	1579	0.23	0.05	0.00	0.01	19.67
rs72761150	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	1	245515377	A	G	1579	-0.62	0.13	0.00	0.01	22.50
rs9809259	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	3	146815969	T	C	1579	0.22	0.05	0.00	0.01	20.57
rs7722937	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	5	79153866	A	G	1579	0.28	0.06	0.00	0.01	20.92
rs62366654	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	5	104939173	G	A	1579	0.30	0.07	0.00	0.01	20.84
rs114094080	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	5	26499129	A	C	1579	0.69	0.14	0.00	0.02	25.76
rs1181554	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	6	106926228	T	G	1579	0.18	0.04	0.00	0.01	22.96
rs73264490	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	7	1329138	A	G	1579	0.16	0.04	0.00	0.01	19.81
rs17429361	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	7	27415715	T	C	1579	-0.19	0.04	0.00	0.01	19.63
rs75276852	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	11	97917799	G	A	1579	0.26	0.05	0.00	0.01	22.01
rs11234542	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	11	85803238	G	A	1579	-0.28	0.06	0.00	0.01	23.99
rs36154713	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	12	109350576	T	C	1579	-0.18	0.04	0.00	0.01	21.76
rs10744547	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	12	1779545	C	G	1579	0.19	0.04	0.00	0.02	24.39
rs143599997	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	12	130798660	G	A	1579	0.43	0.09	0.00	0.01	22.71
rs1580715	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	12	103045553	C	T	1579	0.18	0.04	0.00	0.02	24.73
rs3825436	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	13	99056020	A	G	1579	0.18	0.04	0.00	0.01	22.55
rs12970861	CD33br HLA DR+ CD14- CD45 on	ebi-a-GCST90002042	18	66283602	A	G	1579	-0.52	0.12	0.00	0.01	20.07
rs380901	CD33br HLA DR+ CD14dim CD45 on	ebi-a-GCST90002043	1	60846104	T	C	1578	-0.21	0.05	0.00	0.01	19.83
rs6675501	CD33br HLA DR+ CD14dim	ebi-a-GCST90002043	1	24672641	T	C	1578	0.18	0.04	0.00	0.01	22.07

rs35895413	CD45 on CD33br HLA DR+	ebi-a-GCST90002043	1	85318028	T	C	1578	0.79	0.18	0.00	0.01	19.83
rs6760298	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	2	54865820	C	T	1578	0.17	0.04	0.00	0.01	20.72
rs1983079	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	3	113961934	A	G	1578	-0.27	0.06	0.00	0.01	21.11
rs1580170	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	5	29803516	G	A	1578	0.23	0.05	0.00	0.02	24.65
rs73264490	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	7	1329138	A	G	1578	0.18	0.04	0.00	0.01	23.61
rs10252843	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	7	133674795	C	T	1578	-0.18	0.04	0.00	0.01	20.09
rs116900648	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	8	144503650	A	G	1578	-0.98	0.20	0.00	0.01	23.72
rs182091184	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	9	32566749	G	T	1578	0.67	0.15	0.00	0.01	20.42
rs76777625	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	10	12701296	T	C	1578	2.49	0.55	0.00	0.01	20.38
rs9421560	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	10	88794870	C	T	1578	0.18	0.04	0.00	0.01	19.96
rs921674	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	11	68869308	A	G	1578	1.98	0.39	0.00	0.02	25.34
rs713522	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	17	44065263	C	T	1578	0.17	0.04	0.00	0.01	20.25
rs111988158	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	18	368602	C	G	1578	-0.79	0.18	0.00	0.01	19.83
rs62132587	CD14dim CD45 on CD33br HLA DR+	ebi-a-GCST90002043	19	561816	G	A	1578	0.19	0.04	0.00	0.01	21.07
rs4676406	CD11b- CD45 on CD33dim HLA DR+	ebi-a-GCST90002044	2	241579108	T	G	1635	0.17	0.04	0.00	0.01	21.81
rs2406420	CD11b- CD45 on CD33dim HLA DR+	ebi-a-GCST90002044	5	120560841	C	A	1635	-0.18	0.04	0.00	0.01	21.18
rs1354185	CD11b- CD45 on CD33dim HLA DR+	ebi-a-GCST90002044	5	13761068	T	C	1635	-0.24	0.05	0.00	0.01	21.29
rs4142311	CD11b- CD33dim HLA DR+	ebi-a-GCST90002044	6	169034116	T	C	1635	0.19	0.04	0.00	0.01	19.65

rs75267165	CD45 on CD33dim HLA DR+	ebi-a-GCST90002044	7	44180044	A	T	1635	-0.25	0.05	0.00	0.01	21.94
rs376418616	CD11b- CD45 on CD33dim HLA DR+	ebi-a-GCST90002044	10	14610624	A	G	1635	0.70	0.15	0.00	0.01	21.86
rs1784661	CD11b- CD45 on CD33dim HLA DR+	ebi-a-GCST90002044	11	110154710	G	A	1635	-0.17	0.04	0.00	0.01	19.68
rs55823336	CD11b- CD45 on CD33dim HLA DR+	ebi-a-GCST90002044	15	86320164	A	T	1635	-0.17	0.04	0.00	0.01	21.30
rs12459419	CD11b- CD45 on CD33dim HLA DR+	ebi-a-GCST90002044	19	51728477	T	C	1635	-0.22	0.04	0.00	0.02	25.95
rs2824282	CD11b- CD45 on CD33dim HLA DR+	ebi-a-GCST90002044	21	18723671	G	A	1635	0.17	0.04	0.00	0.01	21.35
rs10919544	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	1	161508763	C	T	1635	0.24	0.04	0.00	0.03	42.56
rs112370962	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	1	15693424	C	T	1635	-0.82	0.17	0.00	0.01	22.50
rs138593127	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	2	126466187	C	T	1635	0.49	0.10	0.00	0.01	22.07
rs12614599	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	2	232290640	A	G	1635	0.26	0.04	0.00	0.03	50.57
rs144954155	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	3	177691462	T	C	1635	-0.43	0.09	0.00	0.01	22.33
rs9814135	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	3	194094110	C	T	1635	-0.25	0.06	0.00	0.01	19.66
rs1562059	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	4	55253342	G	A	1635	0.20	0.05	0.00	0.01	20.05
rs139602776	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	4	103564713	C	T	1635	0.79	0.17	0.00	0.01	22.35
rs115428824	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	4	125753562	G	T	1635	0.34	0.07	0.00	0.01	20.63
rs114152229	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	4	92853329	A	G	1635	0.96	0.20	0.00	0.01	22.03
rs111649552	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	8	117456157	C	G	1635	-0.40	0.09	0.00	0.01	20.10
rs117072933	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	9	84909178	A	G	1635	-0.47	0.10	0.00	0.01	20.57
rs140313648	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	10	29037194	C	T	1635	0.26	0.06	0.00	0.01	20.46
rs34710654	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	13	96096633	A	G	1635	-0.54	0.12	0.00	0.01	20.74
rs2358778	CD33- HLA DR- CD45 on	ebi-a-GCST90002045	16	31868109	A	G	1635	-0.46	0.10	0.00	0.01	21.89
rs4386182	CD33- HLA DR-	ebi-a-GCST90002045	17	54816038	C	T	1635	0.17	0.04	0.00	0.01	22.10

rs1326284	CD45 on CD33- HLA	ebi-a-GCST90002046	1	198553794	C	A	1635	0.21	0.04	0.00	0.02	28.32
rs143150964	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	1	238709665	A	G	1635	-0.65	0.14	0.00	0.01	21.37
rs12523072	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	5	104197397	T	C	1635	0.27	0.06	0.00	0.01	21.94
rs149228799	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	6	7917872	T	C	1635	-0.37	0.08	0.00	0.01	19.76
rs117317282	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	6	32497719	T	A	1635	0.30	0.07	0.00	0.01	19.74
rs17552904	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	7	50318308	T	G	1635	-0.25	0.04	0.00	0.02	37.99
rs145631483	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	8	4517297	A	G	1635	3.13	0.68	0.00	0.01	21.06
rs116900648	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	8	144503650	A	G	1635	-0.90	0.20	0.00	0.01	20.20
rs34386977	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	8	134200209	A	C	1635	-1.14	0.22	0.00	0.02	27.46
rs10971439	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	9	33180813	C	T	1635	0.18	0.04	0.00	0.01	19.95
rs142398114	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	9	106075712	T	C	1635	-2.04	0.43	0.00	0.01	22.87
rs3124947	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	9	137762081	C	G	1635	-0.24	0.05	0.00	0.01	22.99
rs73664150	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	9	137710319	A	G	1635	1.47	0.30	0.00	0.01	24.73
rs11222974	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	11	132073382	T	C	1635	-0.77	0.17	0.00	0.01	21.26
rs4980766	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	11	69946996	T	C	1635	0.22	0.05	0.00	0.01	21.55
rs117745284	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	11	95746999	T	G	1635	-3.26	0.69	0.00	0.01	21.97
rs11232456	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	11	80811894	C	A	1635	0.18	0.04	0.00	0.01	20.07
rs10735302	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	12	93068616	T	C	1635	-0.18	0.04	0.00	0.01	24.67
rs71466481	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	12	130568569	C	G	1635	-0.22	0.05	0.00	0.01	23.15
rs576712691	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	12	17715604	A	G	1635	0.97	0.21	0.00	0.01	21.10
rs1678025	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	14	102351858	G	A	1635	0.17	0.04	0.00	0.01	20.90
rs34358471	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	16	51353423	C	T	1635	-0.24	0.05	0.00	0.01	21.44
rs9892517	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	17	6592054	G	A	1635	0.22	0.05	0.00	0.01	20.65
rs33978622	DR+ CD45 on CD33- HLA	ebi-a-GCST90002046	19	51736383	C	G	1635	0.37	0.04	0.00	0.04	72.94
rs320439	DR+ CD45 on Gr MDSC	ebi-a-GCST90002047	1	213629078	A	G	1244	-0.20	0.04	0.00	0.02	19.93

rs144971347	CD45 on Gr MDSC	ebi-a-GCST90002047	1	175964456	G	A	1244	0.42	0.09	0.00	0.02	19.93
rs2197801	CD45 on Gr MDSC	ebi-a-GCST90002047	2	177451264	G	A	1244	0.20	0.04	0.00	0.02	23.94
rs56907657	CD45 on Gr MDSC	ebi-a-GCST90002047	5	124407733	C	T	1244	0.28	0.06	0.00	0.02	23.38
rs12333289	CD45 on Gr MDSC	ebi-a-GCST90002047	6	6263446	T	C	1244	0.46	0.10	0.00	0.02	19.74
rs10224609	CD45 on Gr MDSC	ebi-a-GCST90002047	7	20505412	T	C	1244	0.49	0.11	0.00	0.02	21.00
rs11506039	CD45 on Gr MDSC	ebi-a-GCST90002047	7	50344544	G	A	1244	0.49	0.11	0.00	0.02	21.45
rs1534770	CD45 on Gr MDSC	ebi-a-GCST90002047	7	21987804	G	C	1244	0.35	0.07	0.00	0.02	25.27
rs36048875	CD45 on Gr MDSC	ebi-a-GCST90002047	8	128479961	T	C	1244	0.23	0.05	0.00	0.02	22.40
rs35066493	CD45 on Gr MDSC	ebi-a-GCST90002047	9	86717077	T	G	1244	-0.28	0.06	0.00	0.02	19.69
rs2377426	CD45 on Gr MDSC	ebi-a-GCST90002047	9	78546389	G	A	1244	0.22	0.05	0.00	0.02	20.48
rs146131093	CD45 on Gr MDSC	ebi-a-GCST90002047	11	113379377	T	G	1244	-0.41	0.09	0.00	0.02	20.02
rs2731088	CD45 on Gr MDSC	ebi-a-GCST90002047	12	48960058	G	A	1244	-0.24	0.05	0.00	0.02	22.55
rs2148972	CD45 on Gr MDSC	ebi-a-GCST90002047	13	75259853	A	G	1244	-0.25	0.05	0.00	0.02	26.10
rs111800240	CD45 on Gr MDSC	ebi-a-GCST90002047	14	43631525	A	G	1244	0.39	0.09	0.00	0.02	20.69
rs74545928	CD45 on Gr MDSC	ebi-a-GCST90002047	15	54615098	T	C	1244	0.58	0.13	0.00	0.02	19.82
rs9922435	CD45 on Gr MDSC	ebi-a-GCST90002047	16	86622639	C	T	1244	0.21	0.05	0.00	0.02	19.95
rs111896566	CD45 on Gr MDSC	ebi-a-GCST90002047	16	20551336	A	T	1244	-1.15	0.25	0.00	0.02	21.02
rs114313091	CD66b++ mvelod cell CD45 on	ebi-a-GCST90002048	1	226903189	A	C	1465	-0.88	0.20	0.00	0.01	19.87
rs34661403	CD66b++ mvelod cell CD45 on	ebi-a-GCST90002048	1	86716001	T	C	1465	-0.18	0.04	0.00	0.01	20.83
rs3755285	CD66b++ mvelod cell CD45 on	ebi-a-GCST90002048	2	102844020	C	T	1465	-0.19	0.04	0.00	0.02	24.23
rs62275033	CD66b++ mvelod cell CD45 on	ebi-a-GCST90002048	3	148889235	A	G	1465	0.32	0.07	0.00	0.01	21.92
rs4494933	CD66b++ mvelod cell CD45 on	ebi-a-GCST90002048	3	164582905	C	T	1465	-0.19	0.04	0.00	0.02	22.99
rs62257614	CD66b++ mvelod cell CD45 on	ebi-a-GCST90002048	3	52464827	C	T	1465	0.19	0.04	0.00	0.01	19.96
rs138540634	CD66b++ mvelod cell CD45 on	ebi-a-GCST90002048	4	91238751	T	C	1465	-0.56	0.12	0.00	0.01	20.71
rs67708934	CD66b++ mvelod cell CD45 on	ebi-a-GCST90002048	7	82015343	A	G	1465	-0.21	0.05	0.00	0.01	20.77
rs12555208	CD66b++ mvelod cell CD45 on	ebi-a-GCST90002048	9	130531142	T	C	1465	-0.42	0.09	0.00	0.01	21.74
rs75424883	CD66b++ mvelod cell CD45 on	ebi-a-GCST90002048	10	23872652	C	T	1465	0.43	0.09	0.00	0.01	21.40
rs61907767	CD66b++ mvelod cell CD45 on	ebi-a-GCST90002048	11	128417551	G	C	1465	0.40	0.08	0.00	0.02	24.93
rs111573488	CD66b++ mvelod cell CD45 on	ebi-a-GCST90002048	12	82723650	A	C	1465	-0.96	0.20	0.00	0.01	21.95
rs2095320	CD66b++ mvelod cell	ebi-a-GCST90002048	14	96663840	T	C	1465	1.61	0.35	0.00	0.01	20.71

rs72696815	CD45 on CD66b++ myelod cell	ebi-a-GCST90002048	14	95115530	T	C	1465	0.26	0.06	0.00	0.01	20.66
rs117014682	CD45 on CD66b++ myelod cell	ebi-a-GCST90002048	16	19693627	T	C	1465	-0.46	0.10	0.00	0.02	22.74
rs74813486	CD45 on CD66b++ myelod cell	ebi-a-GCST90002048	17	49958870	T	A	1465	0.33	0.07	0.00	0.02	22.47
rs41270829	CD45 on Mo MDSC	ebi-a-GCST90002049	1	40011690	T	G	1570	0.22	0.05	0.00	0.01	20.49
rs6696776	CD45 on Mo MDSC	ebi-a-GCST90002049	1	107930205	C	T	1570	-0.23	0.05	0.00	0.01	20.81
rs17719731	CD45 on Mo MDSC	ebi-a-GCST90002049	2	209453912	G	A	1570	-0.64	0.14	0.00	0.01	19.65
rs139648605	CD45 on Mo MDSC	ebi-a-GCST90002049	2	59488592	G	A	1570	0.34	0.07	0.00	0.01	22.02
rs145290654	CD45 on Mo MDSC	ebi-a-GCST90002049	3	46613040	A	G	1570	0.61	0.13	0.00	0.01	21.20
rs147320610	CD45 on Mo MDSC	ebi-a-GCST90002049	4	179767370	T	C	1570	-1.27	0.29	0.00	0.01	19.62
rs79805545	CD45 on Mo MDSC	ebi-a-GCST90002049	5	152737877	C	T	1570	0.56	0.12	0.00	0.01	22.59
rs142164490	CD45 on Mo MDSC	ebi-a-GCST90002049	6	102083682	A	T	1570	-1.01	0.19	0.00	0.02	26.71
rs145907787	CD45 on Mo MDSC	ebi-a-GCST90002049	6	133082731	A	G	1570	-0.79	0.17	0.00	0.01	20.31
rs73116504	CD45 on Mo MDSC	ebi-a-GCST90002049	7	52470831	G	A	1570	0.50	0.11	0.00	0.01	20.15
rs76204403	CD45 on Mo MDSC	ebi-a-GCST90002049	8	121868335	A	G	1570	-0.87	0.18	0.00	0.01	22.75
rs111704828	CD45 on Mo MDSC	ebi-a-GCST90002049	10	2108255	T	C	1570	-0.59	0.12	0.00	0.01	22.40
rs7983916	CD45 on Mo MDSC	ebi-a-GCST90002049	13	22642894	G	A	1570	0.24	0.05	0.00	0.01	19.91
rs9566131	CD45 on Mo MDSC	ebi-a-GCST90002049	13	86734039	T	G	1570	0.25	0.05	0.00	0.01	23.07
rs11070797	CD45 on Mo MDSC	ebi-a-GCST90002049	15	31376696	T	C	1570	0.35	0.08	0.00	0.01	20.91
rs8091698	CD45 on Mo MDSC	ebi-a-GCST90002049	18	62407267	T	C	1570	-0.18	0.04	0.00	0.01	20.51
rs10410260	CD45 on Mo MDSC	ebi-a-GCST90002049	19	7150938	T	C	1570	0.28	0.06	0.00	0.01	19.85
rs143331027	CD33dim HLA DR- CD45 on	ebi-a-GCST90002050	1	28663941	A	G	1559	-0.61	0.13	0.00	0.01	21.86
rs149863711	CD33dim HLA DR- CD45 on	ebi-a-GCST90002050	3	2628309	T	C	1559	0.83	0.18	0.00	0.01	20.53
rs28527224	CD33dim HLA DR- CD45 on	ebi-a-GCST90002050	4	125843057	A	G	1559	0.53	0.11	0.00	0.02	23.90
rs1588987	CD33dim HLA DR- CD45 on	ebi-a-GCST90002050	4	92428380	G	A	1559	-0.35	0.08	0.00	0.01	20.00
rs4864443	CD33dim HLA DR- CD45 on	ebi-a-GCST90002050	4	53969870	A	G	1559	-0.21	0.04	0.00	0.01	23.48
rs1352606	CD33dim HLA DR- CD45 on	ebi-a-GCST90002050	5	66683389	G	T	1559	-0.19	0.04	0.00	0.02	27.13
rs73000803	CD33dim HLA DR- CD45 on	ebi-a-GCST90002050	6	132835314	C	A	1559	0.35	0.08	0.00	0.01	20.39
rs138738554	CD33dim HLA DR- CD45 on	ebi-a-GCST90002050	6	18228165	G	C	1559	-0.29	0.06	0.00	0.01	19.86
rs183052978	CD33dim HLA DR- CD45 on	ebi-a-GCST90002050	7	88592152	C	T	1559	0.70	0.15	0.00	0.01	20.20
rs150735276	CD33dim HLA DR-	ebi-a-GCST90002050	7	21186016	C	T	1559	-1.59	0.36	0.00	0.01	19.86

rs4585735	CD45 on CD33dim	ebi-a-GCST90002050	8	143909216	A	G	1559	-0.51	0.11	0.00	0.01	19.97
rs117961017	HLA DR- CD45 on CD33dim	ebi-a-GCST90002050	8	128170250	T	C	1559	0.40	0.09	0.00	0.01	20.31
rs11140803	HLA DR- CD45 on CD33dim	ebi-a-GCST90002050	9	87512669	A	G	1559	-0.21	0.05	0.00	0.01	20.06
rs72743016	HLA DR- CD45 on CD33dim	ebi-a-GCST90002050	9	85834645	A	T	1559	-0.24	0.05	0.00	0.01	21.11
rs681136	HLA DR- CD45 on CD33dim	ebi-a-GCST90002050	11	77856505	G	A	1559	0.20	0.05	0.00	0.01	20.20
rs6598209	HLA DR- CD45 on CD33dim	ebi-a-GCST90002050	12	132703347	G	A	1559	-0.27	0.06	0.00	0.01	20.40
rs80337742	HLA DR- CD45 on CD33dim	ebi-a-GCST90002050	13	22789793	A	T	1559	-0.30	0.07	0.00	0.01	20.66
rs117492745	HLA DR- CD45 on CD33dim	ebi-a-GCST90002050	18	7523191	G	A	1559	-0.25	0.06	0.00	0.01	20.12
rs116940177	HLA DR- CD45 on CD33dim	ebi-a-GCST90002050	20	410531	C	A	1559	0.51	0.11	0.00	0.01	19.68
rs4916296	basophil CD45 on	ebi-a-GCST90002051	1	172989052	T	C	1556	0.18	0.04	0.00	0.01	20.95
rs149863711	basophil CD45 on	ebi-a-GCST90002051	3	2628309	T	C	1556	0.82	0.18	0.00	0.01	20.15
rs4864443	basophil CD45 on	ebi-a-GCST90002051	4	53969870	A	G	1556	-0.22	0.04	0.00	0.02	27.18
rs1352606	basophil CD45 on	ebi-a-GCST90002051	5	66683389	G	T	1556	-0.17	0.04	0.00	0.01	19.97
rs73000803	basophil CD45 on	ebi-a-GCST90002051	6	132835314	C	A	1556	0.38	0.08	0.00	0.02	24.02
rs149715992	basophil CD45 on	ebi-a-GCST90002051	6	133440965	A	G	1556	0.47	0.10	0.00	0.01	23.42
rs59203915	basophil CD45 on	ebi-a-GCST90002051	7	5621740	A	C	1556	-0.26	0.06	0.00	0.01	21.31
rs72690741	basophil CD45 on	ebi-a-GCST90002051	8	142891200	T	C	1556	0.67	0.15	0.00	0.01	20.92
rs72752359	basophil CD45 on	ebi-a-GCST90002051	9	98105210	T	C	1556	-0.52	0.11	0.00	0.01	22.58
rs147913115	basophil CD45 on	ebi-a-GCST90002051	9	124657581	C	G	1556	0.54	0.12	0.00	0.01	20.41
rs16937506	basophil CD45 on	ebi-a-GCST90002051	9	19413670	C	G	1556	0.29	0.06	0.00	0.01	20.73
rs1246274	basophil CD45 on	ebi-a-GCST90002051	9	86770003	A	G	1556	-0.23	0.05	0.00	0.01	22.38
rs9629947	basophil CD45 on	ebi-a-GCST90002051	10	135447375	G	A	1556	1.26	0.28	0.00	0.01	20.00
rs12415341	basophil CD45 on	ebi-a-GCST90002051	10	117921247	A	G	1556	-0.23	0.05	0.00	0.01	22.03
rs10764985	basophil CD45 on	ebi-a-GCST90002051	10	132597423	C	T	1556	-0.23	0.05	0.00	0.01	20.67
rs12804356	basophil CD45 on	ebi-a-GCST90002051	11	65315980	G	A	1556	0.37	0.08	0.00	0.01	20.39
rs74372761	basophil CD45 on	ebi-a-GCST90002051	13	63277576	G	A	1556	0.30	0.07	0.00	0.01	20.17
rs17128008	basophil CD45 on	ebi-a-GCST90002051	14	55308210	G	C	1556	-0.32	0.07	0.00	0.01	21.59
rs1526598	basophil CD45 on	ebi-a-GCST90002051	17	38870443	C	T	1556	0.49	0.10	0.00	0.01	23.55
rs115457429	CD45 on Im MDSC	ebi-a-GCST90002052	3	28872973	G	C	1555	-0.79	0.18	0.00	0.01	19.68
rs6793627	CD45 on Im MDSC	ebi-a-GCST90002052	3	189044299	T	C	1555	0.97	0.21	0.00	0.01	21.91
rs114052849	CD45 on Im MDSC	ebi-a-GCST90002052	5	16610399	T	C	1555	1.55	0.35	0.00	0.01	19.66
rs73238009	CD45 on Im MDSC	ebi-a-GCST90002052	8	29828802	T	C	1555	1.19	0.27	0.00	0.01	19.97

rs117224922	CD45 on Im MDSC	ebi-a-GCST90002052	12	5441979	C	T	1555	-1.63	0.33	0.00	0.02	23.82
rs9557033	CD45 on Im MDSC	ebi-a-GCST90002052	13	99343094	C	T	1555	-0.26	0.05	0.00	0.01	22.56
rs12884697	CD45 on Im MDSC	ebi-a-GCST90002052	14	61935996	A	G	1555	0.25	0.06	0.00	0.01	19.94
rs273640	CD45 on Im MDSC	ebi-a-GCST90002052	19	51725824	T	G	1555	-0.56	0.04	0.00	0.13	240.79
rs7351079	CD45 on Im MDSC	ebi-a-GCST90002052	19	51574038	G	A	1555	0.20	0.04	0.00	0.01	20.68
rs111695695	CD45 on Im MDSC	ebi-a-GCST90002052	19	51897760	A	C	1555	0.40	0.07	0.00	0.02	32.52
rs34070496	CD45 on Im MDSC	ebi-a-GCST90002052	20	16970768	C	T	1555	0.18	0.04	0.00	0.01	20.14
rs72761150	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	1	245515377	A	G	1580	-0.58	0.13	0.00	0.01	19.70
rs7533281	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	1	24698029	T	C	1580	0.24	0.05	0.00	0.01	21.83
rs72677097	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	1	61134076	G	A	1580	0.36	0.07	0.00	0.02	29.24
rs2330139	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	5	29787554	G	A	1580	0.21	0.05	0.00	0.01	21.61
rs114094080	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	5	26499129	A	C	1580	0.65	0.14	0.00	0.01	22.67
rs2540593	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	7	91148402	A	G	1580	0.31	0.07	0.00	0.01	20.47
rs73264490	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	7	1329138	A	G	1580	0.17	0.04	0.00	0.01	22.78
rs139335095	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	11	62711027	T	C	1580	-0.39	0.08	0.00	0.01	21.64
rs61907325	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	11	85802779	T	C	1580	-0.30	0.06	0.00	0.01	23.27
rs11612383	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	12	1831355	A	G	1580	-0.18	0.04	0.00	0.01	22.64
rs703593	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	12	103064247	G	A	1580	0.18	0.04	0.00	0.01	19.95
rs143599997	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	12	130798660	G	A	1580	0.40	0.09	0.00	0.01	20.62
rs35843682	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	14	87968127	T	C	1580	-2.26	0.50	0.00	0.01	20.17
rs56097305	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	17	13961007	A	C	1580	-0.18	0.04	0.00	0.01	20.26
rs12970861	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	18	66283602	A	G	1580	-0.56	0.11	0.00	0.01	23.51
rs147597282	CD45 on CD33br HLA DR+	ebi-a-GCST90002053	19	49965537	A	G	1580	-2.09	0.45	0.00	0.01	21.21
rs138809534	CD8 on CM CD8br	ebi-a-GCST90002054	2	11541120	T	C	2910	-0.64	0.13	0.00	0.01	23.80
rs3020726	CD8 on CM CD8br	ebi-a-GCST90002054	2	87016506	G	A	2910	-0.42	0.04	0.00	0.04	115.53
rs56214822	CD8 on CM CD8br	ebi-a-GCST90002054	2	53947717	C	G	2910	0.17	0.03	0.00	0.01	23.88
rs77434118	CD8 on CM CD8br	ebi-a-GCST90002054	3	144965710	G	A	2910	0.46	0.09	0.00	0.01	24.43
rs6882406	CD8 on CM CD8br	ebi-a-GCST90002054	5	3098494	T	C	2910	-0.22	0.04	0.00	0.01	24.86
rs9379064	CD8 on CM CD8br	ebi-a-GCST90002054	6	6818562	T	C	2910	-0.15	0.03	0.00	0.01	23.72

rs4081559	CD8 on CM CD8br	ebi-a-GCST90002054	6	31323677	T	C	2910	0.26	0.03	0.00	0.03	75.65
rs1633108	CD8 on CM CD8br	ebi-a-GCST90002054	6	29783305	A	C	2910	-0.23	0.03	0.00	0.02	44.57
rs72657634	CD8 on CM CD8br	ebi-a-GCST90002054	6	29849073	A	G	2910	0.21	0.04	0.00	0.01	25.01
rs2711500	CD8 on CM CD8br	ebi-a-GCST90002054	7	68310336	A	G	2910	0.26	0.06	0.00	0.01	19.64
rs16889563	CD8 on CM CD8br	ebi-a-GCST90002054	8	40408479	T	A	2910	-0.30	0.06	0.00	0.01	23.91
rs41287409	CD8 on CM CD8br	ebi-a-GCST90002054	9	71320912	C	G	2910	0.32	0.07	0.00	0.01	20.28
rs1791808	CD8 on CM CD8br	ebi-a-GCST90002054	11	114103610	T	C	2910	-0.14	0.03	0.00	0.01	19.76
rs4760640	CD8 on CM CD8br	ebi-a-GCST90002054	12	49203355	A	T	2910	-0.33	0.07	0.00	0.01	20.07
rs144117835	CD8 on CM CD8br	ebi-a-GCST90002054	13	57475168	C	T	2910	-0.45	0.10	0.00	0.01	20.48
rs1230475	CD8 on CM CD8br	ebi-a-GCST90002054	13	46774761	A	G	2910	0.13	0.03	0.00	0.01	19.69
rs1977332	CD8 on naive CD8br	ebi-a-GCST90002055	1	29805041	A	G	2910	0.13	0.03	0.00	0.01	20.26
rs35626322	CD8 on naive CD8br	ebi-a-GCST90002055	2	87030421	T	A	2910	-0.48	0.03	0.00	0.07	210.96
rs115452662	CD8 on naive CD8br	ebi-a-GCST90002055	2	88794200	T	A	2910	-0.22	0.05	0.00	0.01	20.67
rs555594976	CD8 on naive CD8br	ebi-a-GCST90002055	2	92267258	T	C	2910	-0.45	0.09	0.00	0.01	23.64
rs73186411	CD8 on naive CD8br	ebi-a-GCST90002055	3	189784957	C	T	2910	-0.35	0.08	0.00	0.01	20.50
rs28619960	CD8 on naive CD8br	ebi-a-GCST90002055	4	14887657	A	G	2910	-0.14	0.03	0.00	0.01	21.02
rs116211259	CD8 on naive CD8br	ebi-a-GCST90002055	4	152943585	A	G	2910	-0.89	0.19	0.00	0.01	21.51
rs76631647	CD8 on naive CD8br	ebi-a-GCST90002055	4	187610871	T	C	2910	-0.57	0.13	0.00	0.01	19.72
rs115155396	CD8 on naive CD8br	ebi-a-GCST90002055	5	89015995	C	A	2910	0.29	0.06	0.00	0.01	21.19
rs4081559	CD8 on naive CD8br	ebi-a-GCST90002055	6	31323677	T	C	2910	0.24	0.03	0.00	0.02	61.15
rs2516429	CD8 on naive CD8br	ebi-a-GCST90002055	6	31426881	T	C	2910	-0.14	0.03	0.00	0.01	19.93
rs13196568	CD8 on naive CD8br	ebi-a-GCST90002055	6	31098400	C	G	2910	-0.18	0.03	0.00	0.01	27.57
rs552412	CD8 on naive CD8br	ebi-a-GCST90002055	6	31777077	T	C	2910	0.17	0.04	0.00	0.01	23.54
rs79937884	CD8 on naive CD8br	ebi-a-GCST90002055	7	14896868	T	C	2910	-1.20	0.26	0.00	0.01	20.93
rs77535524	CD8 on naive CD8br	ebi-a-GCST90002055	11	122690399	A	G	2910	0.94	0.20	0.00	0.01	21.82
rs11038843	CD8 on naive CD8br	ebi-a-GCST90002055	11	46288623	A	G	2910	-0.18	0.04	0.00	0.01	20.59
rs12184937	CD8 on naive CD8br	ebi-a-GCST90002055	13	23274737	C	T	2910	-0.25	0.05	0.00	0.01	20.85
rs9672901	CD8 on naive CD8br	ebi-a-GCST90002055	15	93058567	T	C	2910	0.13	0.03	0.00	0.01	22.39
rs3000791	CD8 on EM CD8br	ebi-a-GCST90002056	1	227599174	T	C	2912	0.16	0.03	0.00	0.01	25.50
rs184295970	CD8 on EM CD8br	ebi-a-GCST90002056	1	95836523	T	G	2912	1.28	0.28	0.00	0.01	21.70
rs62153285	CD8 on EM CD8br	ebi-a-GCST90002056	2	81780122	A	G	2912	0.13	0.03	0.00	0.01	22.06
rs3020726	CD8 on EM CD8br	ebi-a-GCST90002056	2	87016506	G	A	2912	-0.30	0.04	0.00	0.02	56.52
rs12478003	CD8 on EM CD8br	ebi-a-GCST90002056	2	47479869	A	G	2912	0.17	0.04	0.00	0.01	21.39
rs114486180	CD8 on EM CD8br	ebi-a-GCST90002056	2	193161497	A	T	2912	-0.23	0.05	0.00	0.01	20.77
rs60701118	CD8 on EM CD8br	ebi-a-GCST90002056	2	224854203	T	C	2912	-0.64	0.14	0.00	0.01	20.60
rs4860179	CD8 on EM CD8br	ebi-a-GCST90002056	4	66143879	A	C	2912	0.13	0.03	0.00	0.01	20.69
rs73774928	CD8 on EM CD8br	ebi-a-GCST90002056	5	102855858	G	A	2912	0.23	0.05	0.00	0.01	23.01

rs13171873	CD8 on EM CD8br	ebi-a-GCST90002056	5	3080656	A	G	2912	-0.21	0.05	0.00	0.01	21.04
rs17201560	CD8 on EM CD8br	ebi-a-GCST90002056	6	32047268	C	T	2912	-0.52	0.09	0.00	0.01	36.05
rs115795061	CD8 on EM CD8br	ebi-a-GCST90002056	6	32731861	A	T	2912	-0.31	0.07	0.00	0.01	20.95
rs2571390	CD8 on EM CD8br	ebi-a-GCST90002056	6	29923554	C	T	2912	0.36	0.04	0.00	0.03	94.11
rs66465252	CD8 on EM CD8br	ebi-a-GCST90002056	6	63625302	T	C	2912	-0.16	0.03	0.00	0.01	21.90
rs2734989	CD8 on EM CD8br	ebi-a-GCST90002056	6	29812643	A	G	2912	-0.17	0.04	0.00	0.01	20.77
rs11771058	CD8 on EM CD8br	ebi-a-GCST90002056	7	53008596	C	T	2912	0.13	0.03	0.00	0.01	20.93
rs16889563	CD8 on EM CD8br	ebi-a-GCST90002056	8	40408479	T	A	2912	-0.28	0.06	0.00	0.01	20.91
rs117197627	CD8 on EM CD8br	ebi-a-GCST90002056	10	18473835	T	G	2912	2.16	0.44	0.00	0.01	24.24
rs1701094	CD8 on EM CD8br	ebi-a-GCST90002056	12	44468877	A	G	2912	-0.26	0.06	0.00	0.01	19.89
rs35677476	CD8 on EM CD8br	ebi-a-GCST90002056	14	33784800	G	T	2912	0.16	0.04	0.00	0.01	19.74
rs77561506	CD8 on EM CD8br	ebi-a-GCST90002056	14	55423735	A	G	2912	-0.36	0.07	0.00	0.01	22.97
rs58193384	CD8 on EM CD8br	ebi-a-GCST90002056	14	68235542	T	C	2912	-0.15	0.03	0.00	0.01	19.70
rs4782640	CD8 on EM CD8br	ebi-a-GCST90002056	16	84637174	C	A	2912	-0.13	0.03	0.00	0.01	22.68
rs16995213	CD8 on EM CD8br	ebi-a-GCST90002056	20	15005337	G	A	2912	-0.30	0.06	0.00	0.01	22.99
rs9332511	CD8 on TD CD8br	ebi-a-GCST90002057	1	169545822	A	G	2911	0.16	0.03	0.00	0.01	21.53
rs960502	CD8 on TD CD8br	ebi-a-GCST90002057	1	55612278	C	T	2911	0.30	0.06	0.00	0.01	25.16
rs1746718	CD8 on TD CD8br	ebi-a-GCST90002057	1	16941207	C	T	2911	-0.30	0.06	0.00	0.01	26.98
rs1079009	CD8 on TD CD8br	ebi-a-GCST90002057	2	121365377	G	C	2911	0.16	0.03	0.00	0.01	22.65
rs72795179	CD8 on TD CD8br	ebi-a-GCST90002057	2	38931153	A	G	2911	-0.14	0.03	0.00	0.01	25.80
rs115313377	CD8 on TD CD8br	ebi-a-GCST90002057	2	156954164	G	A	2911	0.41	0.09	0.00	0.01	20.32
rs3020726	CD8 on TD CD8br	ebi-a-GCST90002057	2	87016506	G	A	2911	-0.21	0.04	0.00	0.01	28.91
rs13068900	CD8 on TD CD8br	ebi-a-GCST90002057	3	175739566	A	G	2911	0.12	0.03	0.00	0.01	19.62
rs56393413	CD8 on TD CD8br	ebi-a-GCST90002057	3	73016333	G	A	2911	-0.13	0.03	0.00	0.01	19.71
rs144350282	CD8 on TD CD8br	ebi-a-GCST90002057	6	1689657	G	A	2911	0.37	0.08	0.00	0.01	22.48
rs2571390	CD8 on TD CD8br	ebi-a-GCST90002057	6	29923554	C	T	2911	0.36	0.04	0.00	0.03	93.59
rs2523887	CD8 on TD CD8br	ebi-a-GCST90002057	6	31040725	G	A	2911	0.16	0.03	0.00	0.01	32.05
rs114373132	CD8 on TD CD8br	ebi-a-GCST90002057	6	32106813	T	C	2911	-0.42	0.09	0.00	0.01	22.18
rs75312675	CD8 on TD CD8br	ebi-a-GCST90002057	8	133229489	A	G	2911	-1.26	0.28	0.00	0.01	20.82
rs12894741	CD8 on TD CD8br	ebi-a-GCST90002057	14	53791493	C	A	2911	-0.40	0.08	0.00	0.01	22.05
rs4454952	CD8 on TD CD8br	ebi-a-GCST90002057	15	100798686	C	T	2911	-0.15	0.03	0.00	0.01	20.10
rs111824350	CD8 on TD CD8br	ebi-a-GCST90002057	17	20661020	C	G	2911	-0.23	0.05	0.00	0.01	19.89
rs73058568	CD8 on TD CD8br	ebi-a-GCST90002057	20	202468	G	T	2911	-0.76	0.17	0.00	0.01	19.69
rs2472787	CD8 on TD CD8br	ebi-a-GCST90002057	22	45673477	C	A	2911	0.14	0.03	0.00	0.01	20.55
rs3020726	CD8 on CD8br	ebi-a-GCST90002058	2	87016506	G	A	3113	-0.52	0.04	0.00	0.06	194.45
rs111939240	CD8 on CD8br	ebi-a-GCST90002058	2	42654159	C	G	3113	-0.50	0.11	0.00	0.01	20.78
rs35701411	CD8 on CD8br	ebi-a-GCST90002058	2	88472249	C	G	3113	-0.14	0.03	0.00	0.01	26.22

rs11126482	CD8 on CD8br	ebi-a-GCST90002058	2	75977801	C	A	3113	-0.14	0.03	0.00	0.01	22.23
rs149303959	CD8 on CD8br	ebi-a-GCST90002058	2	97046283	C	T	3113	0.41	0.09	0.00	0.01	20.92
rs17389736	CD8 on CD8br	ebi-a-GCST90002058	2	8286509	A	C	3113	0.25	0.06	0.00	0.01	19.70
rs149618549	CD8 on CD8br	ebi-a-GCST90002058	3	180210710	T	C	3113	-0.47	0.10	0.00	0.01	22.49
rs74737596	CD8 on CD8br	ebi-a-GCST90002058	5	95116760	A	C	3113	0.34	0.07	0.00	0.01	20.69
rs9450269	CD8 on CD8br	ebi-a-GCST90002058	6	86114684	C	G	3113	0.23	0.05	0.00	0.01	22.70
rs294880	CD8 on CD8br	ebi-a-GCST90002058	6	159603722	C	G	3113	0.12	0.03	0.00	0.01	20.06
rs11964370	CD8 on CD8br	ebi-a-GCST90002058	6	75445964	A	G	3113	0.33	0.07	0.00	0.01	21.81
rs2531817	CD8 on CD8br	ebi-a-GCST90002058	6	28448894	T	A	3113	0.15	0.03	0.00	0.01	23.61
rs1050420	CD8 on CD8br	ebi-a-GCST90002058	6	31239518	T	C	3113	0.23	0.03	0.00	0.02	64.15
rs2395041	CD8 on CD8br	ebi-a-GCST90002058	6	31461795	A	C	3113	-0.13	0.03	0.00	0.01	20.49
rs9405084	CD8 on CD8br	ebi-a-GCST90002058	6	31326251	T	C	3113	-0.15	0.03	0.00	0.01	27.43
rs77657145	CD8 on CD8br	ebi-a-GCST90002058	7	92167577	C	G	3113	-0.23	0.05	0.00	0.01	20.18
rs9987823	CD8 on CD8br	ebi-a-GCST90002058	9	38394541	T	G	3113	0.26	0.06	0.00	0.01	22.05
rs116049155	CD8 on CD8br	ebi-a-GCST90002058	9	120333000	A	G	3113	-0.39	0.09	0.00	0.01	20.33
rs73305072	CD8 on CD8br	ebi-a-GCST90002058	12	50034058	G	A	3113	1.26	0.28	0.00	0.01	20.35
rs71581981	CD8 on CD8br	ebi-a-GCST90002058	12	21327906	A	G	3113	1.55	0.34	0.00	0.01	20.35
rs6538668	CD8 on CD8br	ebi-a-GCST90002058	12	96128771	T	C	3113	-0.13	0.03	0.00	0.01	19.91
rs149065025	CD8 on CD8br	ebi-a-GCST90002058	15	33826794	A	G	3113	1.23	0.28	0.00	0.01	19.91
rs34026630	CD8 on CD8br	ebi-a-GCST90002058	16	79776245	T	A	3113	0.27	0.06	0.00	0.01	20.98
rs750126	CD8 on CD8br	ebi-a-GCST90002058	16	88813371	A	G	3113	0.13	0.03	0.00	0.01	23.60
rs140845172	CD8 on CD8br	ebi-a-GCST90002058	19	520519	C	A	3113	1.17	0.26	0.00	0.01	19.97
rs657944	CD8 on CD8br	ebi-a-GCST90002058	19	15685999	A	G	3113	0.34	0.08	0.00	0.01	20.07
rs392871	CD8 on CD8br	ebi-a-GCST90002058	20	15228544	A	C	3113	0.15	0.03	0.00	0.01	20.64
rs76477385	CD8 on CD8br	ebi-a-GCST90002058	20	59336213	A	G	3113	0.80	0.18	0.00	0.01	20.64
rs73158117	CD8 on CD8br	ebi-a-GCST90002058	22	37259534	A	G	3113	0.33	0.07	0.00	0.01	23.73
rs6005542	CD8 on CD8br	ebi-a-GCST90002058	22	28043820	G	C	3113	0.19	0.04	0.00	0.01	24.51
rs4819981	CD8 on CD8br	ebi-a-GCST90002058	22	17725304	G	A	3113	0.12	0.03	0.00	0.01	21.61
rs12408387	CD8 on NKT	ebi-a-GCST90002059	1	119528329	A	C	3103	0.20	0.04	0.00	0.01	24.33
rs34613828	CD8 on NKT	ebi-a-GCST90002059	2	87022759	T	A	3103	-0.24	0.03	0.00	0.02	50.62
rs114165927	CD8 on NKT	ebi-a-GCST90002059	2	163117904	C	G	3103	0.32	0.07	0.00	0.01	22.42
rs369008323	CD8 on NKT	ebi-a-GCST90002059	2	100182724	G	T	3103	-0.56	0.13	0.00	0.01	19.94
rs77495878	CD8 on NKT	ebi-a-GCST90002059	3	148979844	T	C	3103	-1.16	0.26	0.00	0.01	20.05
rs72625020	CD8 on NKT	ebi-a-GCST90002059	3	185596778	T	C	3103	0.16	0.03	0.00	0.01	20.69
rs146192023	CD8 on NKT	ebi-a-GCST90002059	4	25802933	A	G	3103	0.15	0.03	0.00	0.01	19.86
rs143651731	CD8 on NKT	ebi-a-GCST90002059	5	22407099	C	T	3103	-0.30	0.07	0.00	0.01	20.35
rs138458033	CD8 on NKT	ebi-a-GCST90002059	6	161660100	T	C	3103	-0.76	0.17	0.00	0.01	20.23
rs6915999	CD8 on NKT	ebi-a-GCST90002059	6	31377851	A	G	3103	-0.13	0.03	0.00	0.01	20.79
rs2395191	CD8 on NKT	ebi-a-GCST90002059	6	32447085	C	T	3103	0.18	0.03	0.00	0.01	36.28
rs2610941	CD8 on NKT	ebi-a-GCST90002059	8	21151009	A	G	3103	0.14	0.03	0.00	0.01	22.62

rs2249975	CD8 on NKT	ebi-a-GCST90002059	10	108103587	A	G	3103	-0.44	0.10	0.00	0.01	20.17
rs117884995	CD8 on NKT	ebi-a-GCST90002059	11	11712983	A	G	3103	-0.35	0.08	0.00	0.01	19.58
rs7126488	CD8 on NKT	ebi-a-GCST90002059	11	24190138	A	G	3103	0.12	0.03	0.00	0.01	19.87
rs11050506	CD8 on NKT	ebi-a-GCST90002059	12	30013127	C	T	3103	-0.41	0.09	0.00	0.01	21.60
rs56331909	CD8 on NKT	ebi-a-GCST90002059	16	84582423	A	G	3103	-0.14	0.03	0.00	0.01	21.16
rs1871698	CD8 on NKT	ebi-a-GCST90002059	18	65187856	T	A	3103	0.31	0.06	0.00	0.01	24.05
rs2286004	CD8 on NKT	ebi-a-GCST90002059	19	1792190	C	A	3103	-0.14	0.03	0.00	0.01	21.48
rs3020726	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	2	87016506	G	A	3060	-0.30	0.04	0.00	0.02	62.55
rs55778875	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	2	12312863	C	T	3060	-0.28	0.06	0.00	0.01	21.74
rs1376775	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	2	121385142	G	A	3060	0.16	0.04	0.00	0.01	20.17
rs11128659	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	3	13833365	G	C	3060	-0.12	0.03	0.00	0.01	20.17
rs79120070	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	3	96895394	A	T	3060	-0.22	0.05	0.00	0.01	20.38
rs2523402	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	6	29699156	C	T	3060	0.14	0.03	0.00	0.01	23.41
rs115127002	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	6	159442296	G	A	3060	-1.59	0.35	0.00	0.01	20.92
rs2523882	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	6	31042217	T	C	3060	0.17	0.03	0.00	0.01	34.02
rs36100818	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	6	123397736	T	A	3060	-1.26	0.27	0.00	0.01	22.11
rs11964370	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	6	75445964	A	G	3060	0.33	0.07	0.00	0.01	21.31
rs3131290	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	6	32183175	A	G	3060	-0.13	0.03	0.00	0.01	21.39
rs117731852	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	7	86744636	A	G	3060	0.45	0.10	0.00	0.01	20.58
rs10234570	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	7	10875345	T	C	3060	-0.12	0.03	0.00	0.01	20.41
rs1401480	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	8	4117811	C	T	3060	-0.31	0.06	0.00	0.01	22.25
rs9987823	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	9	38394541	T	G	3060	0.25	0.06	0.00	0.01	20.78
rs75208356	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	10	67768125	A	T	3060	0.15	0.03	0.00	0.01	20.63
rs148307858	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	10	114431196	T	C	3060	-1.76	0.35	0.00	0.01	25.43
rs71482199	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	11	40291897	T	C	3060	1.25	0.28	0.00	0.01	19.75
rs117660790	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	14	28384801	C	T	3060	-0.22	0.05	0.00	0.01	22.25
rs149065025	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	15	33826794	A	G	3060	1.22	0.27	0.00	0.01	19.71
rs9926812	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	16	88811418	T	C	3060	0.13	0.03	0.00	0.01	22.21
rs12602418	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	17	9678294	G	C	3060	0.15	0.03	0.00	0.01	20.19
rs140845172	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	19	520519	C	A	3060	1.30	0.26	0.00	0.01	25.02
rs7258589	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	19	18701499	T	C	3060	0.14	0.03	0.00	0.01	19.84
rs56350470	CD8 on HLA DR+ CD8br	ebi-a-GCST90002060	19	53813407	T	C	3060	-0.20	0.04	0.00	0.01	21.55
rs12027949	CD4 on CD39+ CD4+	ebi-a-GCST90002061	1	218448425	C	T	2920	0.16	0.03	0.00	0.01	23.62
rs41266967	CD4 on CD39+ CD4+	ebi-a-GCST90002061	2	241529785	T	C	2920	-0.81	0.18	0.00	0.01	20.46
rs13127505	CD4 on CD39+ CD4+	ebi-a-GCST90002061	4	141880770	T	C	2920	-0.24	0.05	0.00	0.01	20.00
rs7747800	CD4 on CD39+ CD4+	ebi-a-GCST90002061	6	30927617	T	G	2920	0.20	0.04	0.00	0.01	19.61
rs78933037	CD4 on CD39+ CD4+	ebi-a-GCST90002061	6	1424645	C	T	2920	-0.23	0.05	0.00	0.01	19.83
rs3016018	CD4 on CD39+ CD4+	ebi-a-GCST90002061	6	31314106	G	C	2920	-0.17	0.03	0.00	0.01	30.63

rs9264532	CD4 on CD39+ CD4+	ebi-a-GCST90002061	6	31234381	T	C	2920	0.19	0.03	0.00	0.01	36.60
rs12200389	CD4 on CD39+ CD4+	ebi-a-GCST90002061	6	38122097	G	A	2920	-0.25	0.05	0.00	0.01	21.66
rs184085789	CD4 on CD39+ CD4+	ebi-a-GCST90002061	7	20296885	A	G	2920	-0.41	0.08	0.00	0.01	23.67
rs16938946	CD4 on CD39+ CD4+	ebi-a-GCST90002061	8	75687887	T	A	2920	-0.16	0.04	0.00	0.01	20.23
rs139181081	CD4 on CD39+ CD4+	ebi-a-GCST90002061	8	96559364	G	T	2920	-0.21	0.05	0.00	0.01	21.91
rs17151969	CD4 on CD39+ CD4+	ebi-a-GCST90002061	8	10301469	A	C	2920	-0.24	0.05	0.00	0.01	20.23
rs433305	CD4 on CD39+ CD4+	ebi-a-GCST90002061	9	19209546	T	C	2920	-0.14	0.03	0.00	0.01	22.90
rs1836233	CD4 on CD39+ CD4+	ebi-a-GCST90002061	9	8797798	G	C	2920	0.16	0.04	0.00	0.01	21.12
rs2451473	CD4 on CD39+ CD4+	ebi-a-GCST90002061	10	106573032	A	G	2920	0.19	0.04	0.00	0.01	23.30
rs117458836	CD4 on CD39+ CD4+	ebi-a-GCST90002061	10	96773382	A	G	2920	0.90	0.11	0.00	0.02	72.66
rs118019481	CD4 on CD39+ CD4+	ebi-a-GCST90002061	10	95151086	A	G	2920	0.50	0.10	0.00	0.01	22.73
rs7084635	CD4 on CD39+ CD4+	ebi-a-GCST90002061	10	97062753	G	A	2920	0.18	0.03	0.00	0.01	33.72
rs2168739	CD4 on CD39+ CD4+	ebi-a-GCST90002061	10	109402407	A	G	2920	0.12	0.03	0.00	0.01	19.75
rs10786281	CD4 on CD39+ CD4+	ebi-a-GCST90002061	10	98116936	C	T	2920	0.17	0.03	0.00	0.01	36.03
rs2761317	CD4 on CD39+ CD4+	ebi-a-GCST90002061	10	95056698	C	T	2920	-0.60	0.13	0.00	0.01	19.95
rs12778618	CD4 on CD39+ CD4+	ebi-a-GCST90002061	10	95633120	C	T	2920	0.59	0.07	0.00	0.03	78.29
rs7086986	CD4 on CD39+ CD4+	ebi-a-GCST90002061	10	97507312	G	A	2920	0.49	0.03	0.00	0.11	350.54
rs4293064	CD4 on CD39+ CD4+	ebi-a-GCST90002061	10	107757380	A	C	2920	0.27	0.05	0.00	0.01	30.09
rs117190770	CD4 on CD39+ CD4+	ebi-a-GCST90002061	10	86457358	A	T	2920	-0.35	0.07	0.00	0.01	26.64
rs73426887	CD4 on CD39+ CD4+	ebi-a-GCST90002061	11	13768946	T	C	2920	-0.17	0.03	0.00	0.01	22.95
rs11615628	CD4 on CD39+ CD4+	ebi-a-GCST90002061	12	6903631	A	G	2920	-0.15	0.03	0.00	0.01	21.88
rs9552362	CD4 on CD39+ CD4+	ebi-a-GCST90002061	13	21693572	A	G	2920	-0.13	0.03	0.00	0.01	22.01
rs142814565	CD4 on CD39+ CD4+	ebi-a-GCST90002061	17	75698827	T	C	2920	1.53	0.32	0.00	0.01	22.98
rs118123748	CD4 on CD39+ CD4+	ebi-a-GCST90002061	18	11805408	G	A	2920	-0.31	0.07	0.00	0.01	20.53
rs634639	CD4 on CD28+ CD4+	ebi-a-GCST90002062	1	153025933	A	G	2920	0.30	0.07	0.00	0.01	19.57
rs12471945	CD4 on CD28+ CD4+	ebi-a-GCST90002062	2	19654868	T	G	2920	0.57	0.12	0.00	0.01	21.93
rs6724611	CD4 on CD28+ CD4+	ebi-a-GCST90002062	2	46180188	A	T	2920	-0.21	0.05	0.00	0.01	20.62
rs183012056	CD4 on CD28+ CD4+	ebi-a-GCST90002062	4	4711458	C	G	2920	0.24	0.05	0.00	0.01	19.75
rs831657	CD4 on CD28+ CD4+	ebi-a-GCST90002062	5	16286973	G	A	2920	0.14	0.03	0.00	0.01	22.38
rs1762718	CD4 on CD28+ CD4+	ebi-a-GCST90002062	6	107319615	A	G	2920	-0.17	0.04	0.00	0.01	20.59
rs3130215	CD4 on CD28+ CD4+	ebi-a-GCST90002062	6	33074963	G	A	2920	-0.16	0.03	0.00	0.01	25.65
rs12664217	CD4 on CD28+ CD4+	ebi-a-GCST90002062	6	108418406	T	C	2920	0.14	0.03	0.00	0.01	19.83
rs114729093	CD4 on CD28+ CD4+	ebi-a-GCST90002062	6	55192621	C	T	2920	-0.57	0.12	0.00	0.01	23.12
rs2844608	CD4 on CD28+ CD4+	ebi-a-GCST90002062	6	31247414	T	C	2920	0.19	0.03	0.00	0.01	37.76
rs16938946	CD4 on CD28+ CD4+	ebi-a-GCST90002062	8	75687887	T	A	2920	-0.16	0.03	0.00	0.01	20.07
rs140084476	CD4 on CD28+ CD4+	ebi-a-GCST90002062	8	24184495	A	G	2920	0.79	0.17	0.00	0.01	21.99
rs62568944	CD4 on CD28+ CD4+	ebi-a-GCST90002062	9	87813612	A	G	2920	0.18	0.04	0.00	0.01	23.97

rs17143738	CD4 on CD28+ CD4+	ebi-a-GCST90002062	10	8505721	G	A	2920	-0.24	0.05	0.00	0.01	23.66
rs146956135	CD4 on CD28+ CD4+	ebi-a-GCST90002062	10	86432367	C	A	2920	-0.31	0.07	0.00	0.01	20.49
rs79998393	CD4 on CD28+ CD4+	ebi-a-GCST90002062	10	25354093	A	C	2920	1.44	0.32	0.00	0.01	19.78
rs11615628	CD4 on CD28+ CD4+	ebi-a-GCST90002062	12	6903631	A	G	2920	-0.20	0.03	0.00	0.01	41.04
rs10138570	CD4 on CD28+ CD4+	ebi-a-GCST90002062	14	65860038	G	A	2920	0.13	0.03	0.00	0.01	20.88
rs1079042	CD4 on CD28+ CD4+	ebi-a-GCST90002062	15	27842037	A	G	2920	-0.16	0.04	0.00	0.01	19.84
rs9906657	CD4 on CD28+ CD4+	ebi-a-GCST90002062	17	40557958	A	G	2920	-0.23	0.05	0.00	0.01	23.55
rs11655205	CD4 on CD28+ CD4+	ebi-a-GCST90002062	17	6630904	A	T	2920	0.19	0.04	0.00	0.01	21.99
rs117058083	CD4 on CD28+ CD4+	ebi-a-GCST90002062	22	26210585	G	A	2920	-0.22	0.05	0.00	0.01	20.77
rs10911945	CD4 on CD4 Treg	ebi-a-GCST90002063	1	186852597	A	G	2920	-0.43	0.09	0.00	0.01	20.98
rs12039573	CD4 on CD4 Treg	ebi-a-GCST90002063	1	20941515	T	C	2920	-0.15	0.03	0.00	0.01	21.82
rs41266967	CD4 on CD4 Treg	ebi-a-GCST90002063	2	241529785	T	C	2920	-0.82	0.18	0.00	0.01	21.68
rs78697264	CD4 on CD4 Treg	ebi-a-GCST90002063	4	39277538	T	A	2920	-1.45	0.31	0.00	0.01	21.34
rs146641318	CD4 on CD4 Treg	ebi-a-GCST90002063	4	9024208	T	G	2920	2.26	0.49	0.00	0.01	21.44
rs831657	CD4 on CD4 Treg	ebi-a-GCST90002063	5	16286973	G	A	2920	0.14	0.03	0.00	0.01	21.13
rs60409747	CD4 on CD4 Treg	ebi-a-GCST90002063	5	39751811	G	A	2920	-0.35	0.08	0.00	0.01	21.61
rs2844608	CD4 on CD4 Treg	ebi-a-GCST90002063	6	31247414	T	C	2920	0.16	0.03	0.00	0.01	26.21
rs7744589	CD4 on CD4 Treg	ebi-a-GCST90002063	6	6051514	T	C	2920	0.68	0.15	0.00	0.01	20.05
rs116138399	CD4 on CD4 Treg	ebi-a-GCST90002063	6	31325478	C	G	2920	0.22	0.05	0.00	0.01	21.99
rs196695	CD4 on CD4 Treg	ebi-a-GCST90002063	6	80154074	G	A	2920	0.28	0.06	0.00	0.01	21.53
rs140684041	CD4 on CD4 Treg	ebi-a-GCST90002063	6	169725886	G	C	2920	-0.13	0.03	0.00	0.01	20.02
rs150643215	CD4 on CD4 Treg	ebi-a-GCST90002063	7	20291018	C	G	2920	-0.41	0.09	0.00	0.01	20.40
rs56216313	CD4 on CD4 Treg	ebi-a-GCST90002063	7	141053545	A	G	2920	0.23	0.05	0.00	0.01	22.08
rs7831103	CD4 on CD4 Treg	ebi-a-GCST90002063	8	22762175	A	G	2920	0.32	0.07	0.00	0.01	19.58
rs16938946	CD4 on CD4 Treg	ebi-a-GCST90002063	8	75687887	T	A	2920	-0.17	0.03	0.00	0.01	23.77
rs116421623	CD4 on CD4 Treg	ebi-a-GCST90002063	8	119192827	T	G	2920	-0.65	0.15	0.00	0.01	19.93
rs74800155	CD4 on CD4 Treg	ebi-a-GCST90002063	9	24765046	G	A	2920	0.15	0.03	0.00	0.01	22.48
rs189810664	CD4 on CD4 Treg	ebi-a-GCST90002063	9	97001952	T	C	2920	2.37	0.51	0.00	0.01	21.86
rs79998393	CD4 on CD4 Treg	ebi-a-GCST90002063	10	25354093	A	C	2920	1.53	0.32	0.00	0.01	22.88
rs117421233	CD4 on CD4 Treg	ebi-a-GCST90002063	10	85630450	A	G	2920	-0.48	0.10	0.00	0.01	22.34
rs117190770	CD4 on CD4 Treg	ebi-a-GCST90002063	10	86457358	A	T	2920	-0.33	0.07	0.00	0.01	24.47
rs4747882	CD4 on CD4 Treg	ebi-a-GCST90002063	10	6162476	T	A	2920	-0.14	0.03	0.00	0.01	20.33
rs73457945	CD4 on CD4 Treg	ebi-a-GCST90002063	11	21414632	G	A	2920	-0.54	0.12	0.00	0.01	20.20
rs75040387	CD4 on CD4 Treg	ebi-a-GCST90002063	11	86960608	G	T	2920	0.20	0.04	0.00	0.01	20.85
rs11615628	CD4 on CD4 Treg	ebi-a-GCST90002063	12	6903631	A	G	2920	-0.24	0.03	0.00	0.02	59.48
rs2299912	CD4 on CD4 Treg	ebi-a-GCST90002063	14	78012732	G	A	2920	0.14	0.03	0.00	0.01	20.93
rs9898118	CD4 on CD4 Treg	ebi-a-GCST90002063	17	77121278	C	T	2920	-0.13	0.03	0.00	0.01	19.80

rs34154026	CD4 on CD4 Treg	ebi-a-GCST90002063	17	40564630	A	G	2920	-0.14	0.03	0.00	0.01	23.29
rs62111177	CD4 on CD4 Treg	ebi-a-GCST90002063	19	13471119	G	A	2920	-0.37	0.08	0.00	0.01	21.12
rs2368500	CD4 on resting Treg	ebi-a-GCST90002064	2	241021276	A	C	2919	-0.12	0.03	0.00	0.01	20.18
rs6724611	CD4 on resting Treg	ebi-a-GCST90002064	2	46180188	A	T	2919	-0.22	0.04	0.00	0.01	25.61
rs116477286	CD4 on resting Treg	ebi-a-GCST90002064	4	23267234	A	G	2919	0.94	0.21	0.00	0.01	20.34
rs112402469	CD4 on resting Treg	ebi-a-GCST90002064	5	141172502	T	C	2919	0.76	0.16	0.00	0.01	23.38
rs2844608	CD4 on resting Treg	ebi-a-GCST90002064	6	31247414	T	C	2919	0.14	0.03	0.00	0.01	22.76
rs114729093	CD4 on resting Treg	ebi-a-GCST90002064	6	55192621	C	T	2919	-0.54	0.11	0.00	0.01	22.19
rs9294327	CD4 on resting Treg	ebi-a-GCST90002064	6	85782234	A	T	2919	0.20	0.05	0.00	0.01	19.96
rs145783964	CD4 on resting Treg	ebi-a-GCST90002064	6	169725888	A	G	2919	-0.13	0.03	0.00	0.01	24.31
rs117384636	CD4 on resting Treg	ebi-a-GCST90002064	9	7145483	T	C	2919	-0.89	0.20	0.00	0.01	20.23
rs61908390	CD4 on resting Treg	ebi-a-GCST90002064	12	6015632	A	G	2919	0.15	0.03	0.00	0.01	19.62
rs11615628	CD4 on resting Treg	ebi-a-GCST90002064	12	6903631	A	G	2919	-0.18	0.03	0.00	0.01	36.08
rs8011224	CD4 on resting Treg	ebi-a-GCST90002064	14	65969670	A	T	2919	0.14	0.03	0.00	0.01	25.13
rs11646104	CD4 on resting Treg	ebi-a-GCST90002064	16	82621799	C	G	2919	0.34	0.08	0.00	0.01	20.86
rs4793163	CD4 on resting Treg	ebi-a-GCST90002064	17	40680934	A	G	2919	-0.13	0.03	0.00	0.01	22.69
rs184800017	CD39+ resting Treg	ebi-a-GCST90002065	1	3275382	A	G	2650	1.07	0.22	0.00	0.01	23.28
rs72852573	CD39+ resting Treg	ebi-a-GCST90002065	2	142742594	C	T	2650	-0.45	0.10	0.00	0.01	21.00
rs1543082	CD39+ resting Treg	ebi-a-GCST90002065	2	9212749	C	A	2650	-0.17	0.04	0.00	0.01	22.55
rs142122078	CD39+ resting Treg	ebi-a-GCST90002065	3	36456475	A	G	2650	-0.86	0.17	0.00	0.01	24.69
rs2523887	CD39+ resting Treg	ebi-a-GCST90002065	6	31040725	G	A	2650	0.13	0.03	0.00	0.01	19.88
rs6601591	CD39+ resting Treg	ebi-a-GCST90002065	8	11316692	C	T	2650	-0.31	0.07	0.00	0.01	20.72
rs117153869	CD39+ resting Treg	ebi-a-GCST90002065	8	32077693	T	G	2650	-0.60	0.12	0.00	0.01	24.57
rs117450546	CD39+ resting Treg	ebi-a-GCST90002065	8	37371755	T	C	2650	-0.31	0.07	0.00	0.01	20.30
rs138782600	CD39+ resting Treg	ebi-a-GCST90002065	9	35195975	G	A	2650	0.28	0.06	0.00	0.01	19.93
rs79998393	CD39+ resting Treg	ebi-a-GCST90002065	10	25354093	A	C	2650	1.52	0.33	0.00	0.01	21.65
rs147763768	CD39+ resting Treg	ebi-a-GCST90002065	10	97548303	A	G	2650	0.37	0.07	0.00	0.01	29.92
rs12223055	CD39+ resting Treg	ebi-a-GCST90002065	11	121778965	C	G	2650	0.14	0.03	0.00	0.01	22.72
rs2239094	CD39+ resting Treg	ebi-a-GCST90002065	12	2610538	G	A	2650	0.13	0.03	0.00	0.01	20.70
rs17110593	CD39+ resting Treg	ebi-a-GCST90002065	14	26533159	C	T	2650	0.14	0.03	0.00	0.01	20.10

rs56075460	CD4 on CD39+ resting Treg CD4 on	ebi-a-GCST90002065	16	27901250	A	G	2650	0.14	0.03	0.00	0.01	20.77
rs382106	CD39+ resting Treg CD4 on	ebi-a-GCST90002065	16	22651209	A	G	2650	-0.15	0.03	0.00	0.01	21.09
rs12039573	activated Treg CD4 on	ebi-a-GCST90002066	1	20941515	T	C	2920	-0.16	0.03	0.00	0.01	25.09
rs78697264	activated Treg CD4 on	ebi-a-GCST90002066	4	39277538	T	A	2920	-1.44	0.31	0.00	0.01	21.08
rs139628646	activated Treg CD4 on	ebi-a-GCST90002066	4	8953933	C	G	2920	2.37	0.50	0.00	0.01	22.61
rs13127505	activated Treg CD4 on	ebi-a-GCST90002066	4	141880770	T	C	2920	-0.24	0.05	0.00	0.01	20.60
rs60409747	activated Treg CD4 on	ebi-a-GCST90002066	5	39751811	G	A	2920	-0.34	0.08	0.00	0.01	19.69
rs73800736	activated Treg CD4 on	ebi-a-GCST90002066	5	169629109	T	C	2920	-0.36	0.08	0.00	0.01	19.87
rs831657	activated Treg CD4 on	ebi-a-GCST90002066	5	16286973	G	A	2920	0.13	0.03	0.00	0.01	19.68
rs3130215	activated Treg CD4 on	ebi-a-GCST90002066	6	33074963	G	A	2920	-0.14	0.03	0.00	0.01	20.25
rs9264532	activated Treg CD4 on	ebi-a-GCST90002066	6	31234381	T	C	2920	0.19	0.03	0.00	0.01	39.40
rs9266064	activated Treg CD4 on	ebi-a-GCST90002066	6	31319457	T	C	2920	-0.17	0.03	0.00	0.01	34.85
rs7744589	activated Treg CD4 on	ebi-a-GCST90002066	6	6051514	T	C	2920	0.71	0.15	0.00	0.01	21.59
rs221124	activated Treg CD4 on	ebi-a-GCST90002066	7	28969250	A	G	2920	-0.20	0.05	0.00	0.01	20.66
rs116421623	activated Treg CD4 on	ebi-a-GCST90002066	8	119192827	T	G	2920	-0.74	0.15	0.00	0.01	25.74
rs6986066	activated Treg CD4 on	ebi-a-GCST90002066	8	75692400	G	A	2920	-0.15	0.03	0.00	0.01	20.85
rs75646069	activated Treg CD4 on	ebi-a-GCST90002066	9	12007250	G	A	2920	-0.33	0.07	0.00	0.01	19.96
rs189810664	activated Treg CD4 on	ebi-a-GCST90002066	9	97001952	T	C	2920	2.39	0.51	0.00	0.01	22.20
rs79998393	activated Treg CD4 on	ebi-a-GCST90002066	10	25354093	A	C	2920	1.46	0.32	0.00	0.01	20.60
rs17143738	activated Treg CD4 on	ebi-a-GCST90002066	10	8505721	G	A	2920	-0.22	0.05	0.00	0.01	19.93
rs117421233	activated Treg CD4 on	ebi-a-GCST90002066	10	85630450	A	G	2920	-0.49	0.10	0.00	0.01	22.83
rs117190770	activated Treg CD4 on	ebi-a-GCST90002066	10	86457358	A	T	2920	-0.36	0.07	0.00	0.01	28.26
rs80210412	activated Treg CD4 on	ebi-a-GCST90002066	11	21419333	T	G	2920	-0.55	0.12	0.00	0.01	21.56
rs10507053	activated Treg	ebi-a-GCST90002066	12	95703285	A	G	2920	1.87	0.42	0.00	0.01	19.63

rs11615628	CD4 on activated Treg CD4 on	ebi-a-GCST90002066	12	6903631	A	G	2920	-0.25	0.03	0.00	0.02	62.65
rs73084602	activated Treg CD4 on	ebi-a-GCST90002066	12	22956864	A	G	2920	0.41	0.09	0.00	0.01	20.70
rs2299912	activated Treg CD4 on	ebi-a-GCST90002066	14	78012732	G	A	2920	0.14	0.03	0.00	0.01	20.28
rs9898118	activated Treg CD4 on	ebi-a-GCST90002066	17	77121278	C	T	2920	-0.13	0.03	0.00	0.01	19.99
rs12404655	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	1	20943195	G	A	2920	-0.15	0.03	0.00	0.01	22.24
rs1385611	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	1	207221409	C	T	2920	-0.32	0.07	0.00	0.01	20.26
rs71420675	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	2	196049654	A	G	2920	0.40	0.09	0.00	0.01	19.70
rs73205076	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	3	126057162	T	C	2920	-0.75	0.17	0.00	0.01	20.44
rs139628646	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	4	8953933	C	G	2920	2.55	0.50	0.00	0.01	26.36
rs13127505	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	4	141880770	T	C	2920	-0.23	0.05	0.00	0.01	19.59
rs183012056	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	4	4711458	C	G	2920	0.24	0.05	0.00	0.01	20.07
rs10044521	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	5	116035707	T	G	2920	0.58	0.13	0.00	0.01	19.80
rs2253487	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	6	31249127	A	G	2920	0.22	0.03	0.00	0.02	55.13
rs9263475	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	6	31050348	G	A	2920	0.20	0.03	0.00	0.02	46.73
rs1625485	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	6	29894389	C	A	2920	0.15	0.03	0.00	0.01	23.57
rs3757517	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	7	8242803	C	T	2920	0.19	0.04	0.00	0.01	19.73
rs221124	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	7	28969250	A	G	2920	-0.21	0.04	0.00	0.01	22.73
rs116421623	CD39+ activated Treg CD4 on	ebi-a-GCST90002067	8	119192827	T	G	2920	-0.68	0.15	0.00	0.01	21.96
rs67057217	CD39+ activated Treg	ebi-a-GCST90002067	8	74255588	A	G	2920	0.45	0.10	0.00	0.01	20.13

rs149080865	CD4 on CD39+ activated Treg	ebi-a-GCST90002067	8	80655797	A	T	2920	0.48	0.11	0.00	0.01	20.04
rs189810664	CD4 on CD39+ activated Treg	ebi-a-GCST90002067	9	97001952	T	C	2920	2.32	0.51	0.00	0.01	21.02
rs7095711	CD4 on CD39+ activated Treg	ebi-a-GCST90002067	10	8507223	A	G	2920	0.19	0.04	0.00	0.01	20.62
rs11200863	CD4 on CD39+ activated Treg	ebi-a-GCST90002067	10	85875791	A	G	2920	-0.17	0.04	0.00	0.01	21.06
rs73457945	CD4 on CD39+ activated Treg	ebi-a-GCST90002067	11	21414632	G	A	2920	-0.54	0.12	0.00	0.01	20.33
rs11615628	CD4 on CD39+ activated Treg	ebi-a-GCST90002067	12	6903631	A	G	2920	-0.21	0.03	0.00	0.01	43.29
rs73084602	CD4 on CD39+ activated Treg	ebi-a-GCST90002067	12	22956864	A	G	2920	0.42	0.09	0.00	0.01	22.18
rs61954768	CD4 on CD39+ activated Treg	ebi-a-GCST90002067	13	54907331	G	T	2920	0.24	0.05	0.00	0.01	22.86
rs10130428	CD4 on CD39+ activated Treg	ebi-a-GCST90002067	14	95659768	G	A	2920	-0.24	0.05	0.00	0.01	19.69
rs4127403	CD4 on CD39+ activated Treg	ebi-a-GCST90002067	18	6988423	A	G	2920	-0.25	0.06	0.00	0.01	20.69
rs10911945	CD4 on secreting CD4 on	ebi-a-GCST90002068	1	186852597	A	G	2920	-0.46	0.09	0.00	0.01	24.14
rs9646681	CD4 on secreting CD4 on	ebi-a-GCST90002068	2	145671913	A	G	2920	-0.63	0.14	0.00	0.01	21.03
rs12185614	CD4 on secreting CD4 on	ebi-a-GCST90002068	2	26464408	G	A	2920	-0.30	0.07	0.00	0.01	21.13
rs80349754	CD4 on secreting CD4 on	ebi-a-GCST90002068	3	193078262	C	T	2920	-0.47	0.10	0.00	0.01	20.06
rs77346685	CD4 on secreting CD4 on	ebi-a-GCST90002068	3	111025555	A	T	2920	-0.19	0.04	0.00	0.01	20.18
rs76560336	CD4 on secreting CD4 on	ebi-a-GCST90002068	4	33455497	T	C	2920	0.79	0.17	0.00	0.01	20.87
rs6898033	CD4 on secreting CD4 on	ebi-a-GCST90002068	5	172247417	T	C	2920	-0.30	0.06	0.00	0.01	21.58
rs116694668	CD4 on secreting CD4 on	ebi-a-GCST90002068	5	57174385	A	T	2920	-1.95	0.43	0.00	0.01	20.08
rs6875686	CD4 on secreting CD4 on	ebi-a-GCST90002068	5	157352502	A	G	2920	-0.83	0.18	0.00	0.01	22.20
rs196695	CD4 on secreting CD4 on	ebi-a-GCST90002068	6	80154074	G	A	2920	0.28	0.06	0.00	0.01	22.69
rs571270084	CD4 on secreting CD4 on	ebi-a-GCST90002068	6	32509457	A	C	2920	0.42	0.08	0.00	0.01	26.54
rs56216313	CD4 on secreting CD4 on	ebi-a-GCST90002068	7	141053545	A	G	2920	0.23	0.05	0.00	0.01	20.71
rs2699463	CD4 on secreting CD4 on	ebi-a-GCST90002068	7	22050169	C	T	2920	0.22	0.05	0.00	0.01	23.58
rs1793733	CD4 on secreting CD4 on	ebi-a-GCST90002068	8	118251913	A	G	2920	-0.13	0.03	0.00	0.01	21.67
rs62520866	CD4 on secreting CD4 on	ebi-a-GCST90002068	8	124586000	T	C	2920	0.16	0.03	0.00	0.01	21.97
rs75029212	CD4 on secreting CD4 on	ebi-a-GCST90002068	9	7364861	A	G	2920	0.13	0.03	0.00	0.01	20.02
rs79998393	CD4 on secreting CD4 on	ebi-a-GCST90002068	10	25354093	A	C	2920	1.57	0.32	0.00	0.01	23.83

rs61839660	CD4 on secreting	ebi-a-GCST90002068	10	6094697	T	C	2920	0.29	0.06	0.00	0.01	25.04
rs80210412	CD4 on secreting	ebi-a-GCST90002068	11	21419333	T	G	2920	-0.53	0.12	0.00	0.01	19.72
rs11615628	CD4 on secreting	ebi-a-GCST90002068	12	6903631	A	G	2920	-0.20	0.03	0.00	0.01	42.08
rs11610038	CD4 on secreting	ebi-a-GCST90002068	12	4770669	T	G	2920	-0.58	0.12	0.00	0.01	24.24
rs78653337	CD4 on secreting	ebi-a-GCST90002068	13	89576465	T	A	2920	-0.89	0.20	0.00	0.01	19.76
rs112860404	CD4 on secreting	ebi-a-GCST90002068	14	72853129	T	C	2920	-0.49	0.11	0.00	0.01	19.65
rs1840913	CD4 on secreting	ebi-a-GCST90002068	17	52190962	G	A	2920	0.13	0.03	0.00	0.01	22.53
rs12150088	CD4 on secreting	ebi-a-GCST90002068	17	40564303	C	G	2920	-0.13	0.03	0.00	0.01	20.74
rs28706562	CD4 on secreting	ebi-a-GCST90002068	19	55104921	G	T	2920	-0.29	0.06	0.00	0.01	20.21
rs62111177	CD4 on secreting	ebi-a-GCST90002068	19	13471119	G	A	2920	-0.38	0.08	0.00	0.01	21.89
rs141913575	CD4 on secreting	ebi-a-GCST90002068	21	34716713	G	A	2920	-0.93	0.21	0.00	0.01	19.58
rs11584259	CD39+ secreting	ebi-a-GCST90002069	1	22732386	C	G	2920	0.17	0.04	0.00	0.01	21.40
rs71644931	CD39+ secreting	ebi-a-GCST90002069	1	238537221	G	A	2920	0.52	0.11	0.00	0.01	20.41
rs41266967	CD39+ secreting	ebi-a-GCST90002069	2	241529785	T	C	2920	-0.79	0.18	0.00	0.01	19.86
rs139628646	CD39+ secreting	ebi-a-GCST90002069	4	8953933	C	G	2920	2.28	0.50	0.00	0.01	20.49
rs116694668	CD39+ secreting	ebi-a-GCST90002069	5	57174385	A	T	2920	-2.07	0.43	0.00	0.01	22.91
rs10044521	CD39+ secreting	ebi-a-GCST90002069	5	116035707	T	G	2920	0.59	0.13	0.00	0.01	20.86
rs9263475	CD39+ secreting	ebi-a-GCST90002069	6	31050348	G	A	2920	0.21	0.03	0.00	0.02	51.03
rs9265953	CD39+ secreting	ebi-a-GCST90002069	6	31315312	G	A	2920	-0.17	0.03	0.00	0.01	35.56
rs115907820	CD39+ secreting	ebi-a-GCST90002069	7	37068759	C	T	2920	0.50	0.11	0.00	0.01	22.88
rs149080865	CD39+ secreting	ebi-a-GCST90002069	8	80655797	A	T	2920	0.49	0.11	0.00	0.01	21.24
rs62568944	CD39+ secreting	ebi-a-GCST90002069	9	87813612	A	G	2920	0.17	0.04	0.00	0.01	21.72
rs10819527	CD39+ secreting	ebi-a-GCST90002069	9	132242279	C	G	2920	0.16	0.03	0.00	0.01	22.59
rs7072664	CD39+ secreting	ebi-a-GCST90002069	10	126759321	A	G	2920	-0.13	0.03	0.00	0.01	23.69
rs12778618	CD39+ secreting	ebi-a-GCST90002069	10	95633120	C	T	2920	0.35	0.07	0.00	0.01	28.00
rs117458836	CD39+ secreting	ebi-a-GCST90002069	10	96773382	A	G	2920	0.51	0.10	0.00	0.01	23.97
rs10882655	CD39+ secreting	ebi-a-GCST90002069	10	97474371	A	G	2920	-0.29	0.03	0.00	0.04	122.03
rs80014012	CD39+ secreting	ebi-a-GCST90002069	10	86318511	C	A	2920	-0.23	0.04	0.00	0.01	25.48

rs7968358	CD4 on CD39+ secreting CD4 on	ebi-a-GCST90002069	12	100033308	T	A	2920	0.13	0.03	0.00	0.01	21.59
rs73053728	CD39+ secreting CD4 on	ebi-a-GCST90002069	12	6896546	G	A	2920	-0.16	0.03	0.00	0.01	24.12
rs11610038	CD39+ secreting CD4 on	ebi-a-GCST90002069	12	4770669	T	G	2920	-0.53	0.12	0.00	0.01	20.31
rs139059955	CD39+ secreting CD4 on	ebi-a-GCST90002069	13	53615745	T	C	2920	-2.03	0.45	0.00	0.01	20.08
rs55877972	CD39+ secreting CD4 on	ebi-a-GCST90002069	14	94754259	G	T	2920	0.51	0.11	0.00	0.01	22.70
rs446663	CD39+ secreting CD4 on	ebi-a-GCST90002069	16	77670157	C	A	2920	-0.15	0.03	0.00	0.01	19.89
rs136883	CD39+ secreting CD4 on	ebi-a-GCST90002069	22	45040462	T	C	2920	0.15	0.03	0.00	0.01	27.96
rs10911945	activated & secreting CD4 on	ebi-a-GCST90002070	1	186852597	A	G	2920	-0.43	0.09	0.00	0.01	20.76
rs12039573	activated & secreting CD4 on	ebi-a-GCST90002070	1	20941515	T	C	2920	-0.15	0.03	0.00	0.01	22.38
rs41266967	activated & secreting CD4 on	ebi-a-GCST90002070	2	241529785	T	C	2920	-0.78	0.18	0.00	0.01	19.59
rs139628646	activated & secreting CD4 on	ebi-a-GCST90002070	4	8953933	C	G	2920	2.29	0.50	0.00	0.01	20.92
rs78697264	activated & secreting CD4 on	ebi-a-GCST90002070	4	39277538	T	A	2920	-1.41	0.32	0.00	0.01	20.01
rs60409747	activated & secreting CD4 on	ebi-a-GCST90002070	5	39751811	G	A	2920	-0.34	0.08	0.00	0.01	20.49
rs6875686	activated & secreting CD4 on	ebi-a-GCST90002070	5	157352502	A	G	2920	-0.80	0.18	0.00	0.01	20.67
rs831657	activated & secreting CD4 on	ebi-a-GCST90002070	5	16286973	G	A	2920	0.14	0.03	0.00	0.01	22.20
rs442391	activated & secreting CD4 on	ebi-a-GCST90002070	6	31681289	T	C	2920	0.29	0.05	0.00	0.01	28.23
rs7744589	activated & secreting CD4 on	ebi-a-GCST90002070	6	6051514	T	C	2920	0.70	0.15	0.00	0.01	20.83
rs9264532	activated & secreting CD4 on	ebi-a-GCST90002070	6	31234381	T	C	2920	0.17	0.03	0.00	0.01	31.37
rs12529806	activated & secreting CD4 on	ebi-a-GCST90002070	6	108416847	A	T	2920	0.14	0.03	0.00	0.01	19.70
rs150643215	activated & secreting CD4 on	ebi-a-GCST90002070	7	20291018	C	G	2920	-0.43	0.09	0.00	0.01	21.86
rs56216313	activated & secreting CD4 on	ebi-a-GCST90002070	7	141053545	A	G	2920	0.24	0.05	0.00	0.01	22.99
rs116421623	activated & secreting CD4 on	ebi-a-GCST90002070	8	119192827	T	G	2920	-0.69	0.15	0.00	0.01	22.12
rs16938946	activated & secreting CD4 on	ebi-a-GCST90002070	8	75687887	T	A	2920	-0.16	0.03	0.00	0.01	22.13
rs189810664	activated & secreting	ebi-a-GCST90002070	9	97001952	T	C	2920	2.39	0.51	0.00	0.01	21.97

rs74800155	CD4 on activated & secreting CD4 on	ebi-a-GCST90002070	9	24765046	G	A	2920	0.15	0.03	0.00	0.01	21.25
rs143928375	activated & secreting CD4 on	ebi-a-GCST90002070	10	90242054	A	G	2920	-0.35	0.08	0.00	0.01	20.33
rs12772333	activated & secreting CD4 on	ebi-a-GCST90002070	10	107779867	A	G	2920	0.23	0.05	0.00	0.01	20.65
rs79998393	activated & secreting CD4 on	ebi-a-GCST90002070	10	25354093	A	C	2920	1.59	0.32	0.00	0.01	24.37
rs117190770	activated & secreting CD4 on	ebi-a-GCST90002070	10	86457358	A	T	2920	-0.34	0.07	0.00	0.01	25.41
rs117421233	activated & secreting CD4 on	ebi-a-GCST90002070	10	85630450	A	G	2920	-0.48	0.10	0.00	0.01	21.75
rs80210412	activated & secreting CD4 on	ebi-a-GCST90002070	11	21419333	T	G	2920	-0.57	0.12	0.00	0.01	22.77
rs75040387	activated & secreting CD4 on	ebi-a-GCST90002070	11	86960608	G	T	2920	0.19	0.04	0.00	0.01	19.58
rs11615628	activated & secreting CD4 on	ebi-a-GCST90002070	12	6903631	A	G	2920	-0.24	0.03	0.00	0.02	56.46
rs10507053	activated & secreting CD4 on	ebi-a-GCST90002070	12	95703285	A	G	2920	1.93	0.42	0.00	0.01	20.83
rs2299912	activated & secreting CD4 on	ebi-a-GCST90002070	14	78012732	G	A	2920	0.14	0.03	0.00	0.01	19.77
rs72815248	activated & secreting CD4 on	ebi-a-GCST90002070	16	54493872	T	C	2920	-0.32	0.07	0.00	0.01	19.92
rs9898118	activated & secreting CD4 on	ebi-a-GCST90002070	17	77121278	C	T	2920	-0.13	0.03	0.00	0.01	20.70
rs34154026	activated & secreting CD4 on	ebi-a-GCST90002070	17	40564630	A	G	2920	-0.13	0.03	0.00	0.01	19.65
rs7249811	activated & secreting CD4 on	ebi-a-GCST90002070	19	55087313	G	T	2920	-0.25	0.06	0.00	0.01	20.18
rs62111177	activated & secreting SSC-A on myeloid DC	ebi-a-GCST90002070	19	13471119	G	A	2920	-0.38	0.08	0.00	0.01	21.25
rs139529340	SSC-A on myeloid DC	ebi-a-GCST90002071	1	161563554	G	A	2872	0.20	0.03	0.00	0.01	36.54
rs113138131	SSC-A on myeloid DC	ebi-a-GCST90002071	2	203545127	T	A	2872	0.28	0.03	0.00	0.03	92.20
rs146844975	SSC-A on myeloid DC	ebi-a-GCST90002071	4	70229142	G	A	2872	2.40	0.54	0.00	0.01	19.72
rs73018616	SSC-A on myeloid DC	ebi-a-GCST90002071	4	181607963	C	T	2872	2.64	0.57	0.00	0.01	21.58
rs9265898	SSC-A on myeloid DC	ebi-a-GCST90002071	6	31313377	T	C	2872	-0.15	0.03	0.00	0.01	21.47
rs115780495	SSC-A on myeloid DC	ebi-a-GCST90002071	6	32501627	G	T	2872	0.34	0.05	0.00	0.01	39.19
rs189299852	SSC-A on myeloid DC	ebi-a-GCST90002071	7	88479003	A	T	2872	1.93	0.40	0.00	0.01	23.57
rs4977889	SSC-A on myeloid DC	ebi-a-GCST90002071	9	23786433	G	A	2872	-0.25	0.06	0.00	0.01	20.29
rs7032562	SSC-A on myeloid DC	ebi-a-GCST90002071	9	100295921	G	A	2872	0.17	0.04	0.00	0.01	19.65
rs459007	SSC-A on myeloid DC	ebi-a-GCST90002071	9	98478678	A	G	2872	-0.14	0.03	0.00	0.01	20.54
rs139527316	SSC-A on myeloid DC	ebi-a-GCST90002071	10	104987693	T	C	2872	0.62	0.13	0.00	0.01	22.13
rs4910742	SSC-A on myeloid DC	ebi-a-GCST90002071	11	5306509	A	G	2872	0.38	0.05	0.00	0.02	49.52
rs80297185	SSC-A on myeloid DC	ebi-a-GCST90002071	11	5488177	T	C	2872	-0.41	0.07	0.00	0.01	32.54

rs10859795	SSC-A on myeloid DC	ebi-a-GCST90002071	12	95317957	G	A	2872	0.14	0.03	0.00	0.01	19.82
rs139947059	SSC-A on myeloid DC	ebi-a-GCST90002071	12	25434182	A	G	2872	0.47	0.08	0.00	0.01	30.93
rs1800973	SSC-A on myeloid DC	ebi-a-GCST90002071	12	69744014	A	C	2872	-0.35	0.05	0.00	0.02	47.65
rs16948856	SSC-A on myeloid DC	ebi-a-GCST90002071	16	78946587	T	C	2872	0.17	0.04	0.00	0.01	21.40
rs139684430	SSC-A on myeloid DC	ebi-a-GCST90002071	16	5551924	G	A	2872	0.36	0.08	0.00	0.01	20.34
rs772967	SSC-A on myeloid DC	ebi-a-GCST90002071	16	27859096	C	G	2872	-0.13	0.03	0.00	0.01	19.59
rs11554159	SSC-A on myeloid DC	ebi-a-GCST90002071	19	18285944	A	G	2872	-0.14	0.03	0.00	0.01	20.09
rs58470944	SSC-A on myeloid DC	ebi-a-GCST90002071	20	61416034	A	G	2872	-1.22	0.26	0.00	0.01	21.24
rs12410542	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	1	77233774	T	C	2872	-0.12	0.03	0.00	0.01	20.26
rs11164360	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	1	102472108	C	T	2872	0.83	0.18	0.00	0.01	20.92
rs10193587	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	2	136925439	C	T	2872	0.15	0.03	0.00	0.01	23.57
rs71423107	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	2	242975103	A	G	2872	0.30	0.07	0.00	0.01	20.45
rs2084848	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	2	169211909	C	G	2872	0.14	0.03	0.00	0.01	25.80
rs2903918	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	4	84157443	G	C	2872	-0.22	0.03	0.00	0.02	57.57
rs13162242	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	5	74298665	G	T	2872	-0.18	0.04	0.00	0.01	20.34
rs79711662	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	6	95562104	T	G	2872	-0.43	0.10	0.00	0.01	20.43
rs17791425	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	6	84970341	A	G	2872	0.32	0.07	0.00	0.01	22.21
rs80067671	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	7	24079081	C	T	2872	-0.37	0.08	0.00	0.01	19.78
rs17552904	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	7	50318308	T	G	2872	-0.19	0.03	0.00	0.01	32.68
rs6987643	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	8	118028546	C	T	2872	-0.13	0.03	0.00	0.01	19.84
rs537539184	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	10	42747410	T	C	2872	-0.48	0.11	0.00	0.01	19.66
rs142456232	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	11	4960640	T	C	2872	-0.33	0.06	0.00	0.01	31.84
rs78736654	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	11	5544477	G	T	2872	-0.40	0.07	0.00	0.01	30.11
rs776409	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	12	70018656	G	T	2872	0.15	0.03	0.00	0.01	20.47
rs9669659	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	12	52279540	A	G	2872	-0.54	0.11	0.00	0.01	21.94
rs8022420	plasmacytoid DC SSC-A on	ebi-a-GCST90002072	14	101652466	A	G	2872	-0.19	0.04	0.00	0.01	23.02
rs2923129	plasmacytoid DC	ebi-a-GCST90002072	16	57726123	A	G	2872	0.15	0.03	0.00	0.01	22.45

rs71388573	SSC-A on plasmacytoid DC	ebi-a-GCST90002072	16	4436279	G	T	2872	-2.14	0.48	0.00	0.01	19.59
rs55733613	SSC-A on plasmacytoid DC	ebi-a-GCST90002072	16	89141723	C	G	2872	-0.20	0.04	0.00	0.01	26.24
rs6564921	SSC-A on plasmacytoid DC	ebi-a-GCST90002072	16	74142321	A	T	2872	0.16	0.04	0.00	0.01	19.86
rs6500136	SSC-A on plasmacytoid DC	ebi-a-GCST90002072	16	60631203	A	G	2872	0.13	0.03	0.00	0.01	22.02
rs117067704	SSC-A on plasmacytoid DC	ebi-a-GCST90002072	17	62128083	G	A	2872	0.46	0.09	0.00	0.01	25.72
rs144843975	SSC-A on plasmacytoid DC	ebi-a-GCST90002072	17	63066415	T	C	2872	0.30	0.06	0.00	0.01	22.90
rs722926	SSC-A on plasmacytoid DC	ebi-a-GCST90002072	17	8677215	T	C	2872	0.16	0.03	0.00	0.01	35.06
rs2058319	SSC-A on plasmacytoid DC	ebi-a-GCST90002072	19	56863306	G	A	2872	0.13	0.03	0.00	0.01	20.12
rs144283125	SSC-A on plasmacytoid DC	ebi-a-GCST90002072	21	34218354	G	A	2872	-0.36	0.08	0.00	0.01	20.55
rs12129442	SSC-A on monocyte	ebi-a-GCST90002073	1	15139272	T	C	2850	-0.26	0.05	0.00	0.01	27.05
rs6761913	SSC-A on monocyte	ebi-a-GCST90002073	2	43665245	C	G	2850	-0.13	0.03	0.00	0.01	20.71
rs72928949	SSC-A on monocyte	ebi-a-GCST90002073	2	203570761	C	G	2850	0.16	0.03	0.00	0.01	30.15
rs4663559	SSC-A on monocyte	ebi-a-GCST90002073	2	236180958	A	G	2850	-0.20	0.04	0.00	0.01	19.59
rs113146287	SSC-A on monocyte	ebi-a-GCST90002073	4	21201947	A	G	2850	-0.20	0.04	0.00	0.01	20.53
rs445	SSC-A on monocyte	ebi-a-GCST90002073	7	92408370	T	C	2850	0.21	0.03	0.00	0.01	36.79
rs75117710	SSC-A on monocyte	ebi-a-GCST90002073	7	54774655	C	T	2850	-0.48	0.11	0.00	0.01	20.82
rs11136335	SSC-A on monocyte	ebi-a-GCST90002073	8	145003777	A	G	2850	-0.17	0.03	0.00	0.01	35.97
rs148146302	SSC-A on monocyte	ebi-a-GCST90002073	12	70360198	C	G	2850	-0.88	0.09	0.00	0.03	99.86
rs17301388	SSC-A on monocyte	ebi-a-GCST90002073	12	80271645	T	C	2850	-0.66	0.15	0.00	0.01	20.57
rs80216229	SSC-A on monocyte	ebi-a-GCST90002073	12	67839087	C	T	2850	-0.58	0.10	0.00	0.01	34.65
rs10784763	SSC-A on monocyte	ebi-a-GCST90002073	12	69524025	G	C	2850	-0.14	0.03	0.00	0.01	26.50
rs1800973	SSC-A on monocyte	ebi-a-GCST90002073	12	69744014	A	C	2850	-1.22	0.04	0.00	0.21	741.62
rs75994780	SSC-A on monocyte	ebi-a-GCST90002073	12	70949085	A	G	2850	-0.42	0.06	0.00	0.02	54.90
rs1381043	SSC-A on monocyte	ebi-a-GCST90002073	12	74806815	A	G	2850	0.26	0.05	0.00	0.01	22.65
rs1152928	SSC-A on monocyte	ebi-a-GCST90002073	12	69247557	G	A	2850	-0.82	0.11	0.00	0.02	61.10
rs117623495	SSC-A on monocyte	ebi-a-GCST90002073	12	95459971	A	G	2850	-0.33	0.07	0.00	0.01	20.08
rs144373670	SSC-A on monocyte	ebi-a-GCST90002073	14	96537074	A	G	2850	-0.48	0.10	0.00	0.01	22.82
rs4411465	SSC-A on monocyte	ebi-a-GCST90002073	15	94187437	G	A	2850	0.15	0.03	0.00	0.01	20.59
rs73587552	SSC-A on monocyte	ebi-a-GCST90002073	16	80912403	T	C	2850	0.66	0.15	0.00	0.01	20.38
rs59386234	SSC-A on monocyte	ebi-a-GCST90002073	17	41715057	G	A	2850	0.23	0.05	0.00	0.01	21.47
rs181913273	SSC-A on monocyte	ebi-a-GCST90002073	18	24264307	G	A	2850	-0.78	0.17	0.00	0.01	20.35
rs11554159	SSC-A on monocyte	ebi-a-GCST90002073	19	18285944	A	G	2850	-0.37	0.03	0.00	0.05	162.37

rs151082686	SSC-A on monocyte	ebi-a-GCST90002073	19	6847167	T	C	2850	-0.48	0.11	0.00	0.01	19.70
rs487473	SSC-A on monocyte	ebi-a-GCST90002073	20	889869	T	C	2850	-0.17	0.03	0.00	0.01	23.05
rs553371437	SSC-A on monocyte	ebi-a-GCST90002073	22	16868681	T	G	2850	-0.53	0.12	0.00	0.01	19.85
rs72736734	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	1	219869305	T	C	3112	0.30	0.06	0.00	0.01	21.63
rs10202811	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	2	218930120	A	G	3112	-0.29	0.07	0.00	0.01	19.92
rs12478601	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	2	43721508	T	C	3112	-0.14	0.03	0.00	0.01	26.41
rs35637068	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	2	203467998	C	G	3112	0.14	0.03	0.00	0.01	24.47
rs10488833	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	4	97953756	G	C	3112	-0.21	0.04	0.00	0.01	23.39
rs13231864	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	7	14761122	C	T	3112	0.13	0.03	0.00	0.01	20.09
rs4947752	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	7	52979778	C	T	3112	0.14	0.03	0.00	0.01	25.51
rs445	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	7	92408370	T	C	3112	0.23	0.03	0.00	0.02	48.07
rs12276856	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	11	122628500	T	C	3112	0.14	0.03	0.00	0.01	22.59
rs11228503	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	11	68879044	T	C	3112	-0.16	0.03	0.00	0.01	24.03
rs75994780	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	12	70949085	A	G	3112	-0.36	0.05	0.00	0.01	43.66
rs57059400	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	12	19933239	T	A	3112	0.18	0.04	0.00	0.01	19.96
rs1152928	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	12	69247557	G	A	3112	-0.75	0.10	0.00	0.02	53.99
rs12370645	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	12	19824999	G	A	3112	-0.69	0.15	0.00	0.01	20.96
rs7309974	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	12	93519967	A	G	3112	0.19	0.04	0.00	0.01	22.02
rs80216229	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	12	67839087	C	T	3112	-0.44	0.09	0.00	0.01	22.73
rs10784763	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	12	69524025	G	C	3112	-0.13	0.03	0.00	0.01	23.18
rs1800973	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	12	69744014	A	C	3112	-1.05	0.04	0.00	0.15	561.06
rs148146302	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	12	70360198	C	G	3112	-0.80	0.09	0.00	0.03	87.33
rs10774278	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	12	629655	T	C	3112	-0.13	0.03	0.00	0.01	22.48
rs73175542	CD14+ monocyte SSC-A on	ebi-a-GCST90002074	13	47478865	A	G	3112	0.30	0.06	0.00	0.01	26.81
rs62026668	CD14+ monocyte	ebi-a-GCST90002074	15	79868517	T	C	3112	-0.15	0.03	0.00	0.01	19.77

rs62070801	SSC-A on CD14+ monocyte	ebi-a-GCST90002074	17	50801881	C	T	3112	0.12	0.03	0.00	0.01	19.81
rs11554159	SSC-A on CD14+ monocyte	ebi-a-GCST90002074	19	18285944	A	G	3112	-0.30	0.03	0.00	0.03	110.62
rs9616832	SSC-A on CD14+ monocyte	ebi-a-GCST90002074	22	51219387	C	T	3112	-0.22	0.05	0.00	0.01	22.95
rs116325392	SSC-A on B cell	ebi-a-GCST90002075	1	4629608	T	C	3112	-0.64	0.14	0.00	0.01	20.76
rs61180620	SSC-A on B cell	ebi-a-GCST90002075	2	36008717	T	A	3112	-0.24	0.05	0.00	0.01	19.58
rs1317900	SSC-A on B cell	ebi-a-GCST90002075	2	131607875	G	A	3112	0.21	0.05	0.00	0.01	20.57
rs6763382	SSC-A on B cell	ebi-a-GCST90002075	3	32156283	G	A	3112	-0.13	0.03	0.00	0.01	20.39
rs144261817	SSC-A on B cell	ebi-a-GCST90002075	5	40009649	C	T	3112	-0.47	0.09	0.00	0.01	24.88
rs72784338	SSC-A on B cell	ebi-a-GCST90002075	5	106222436	A	G	3112	-0.26	0.06	0.00	0.01	21.02
rs32475	SSC-A on B cell	ebi-a-GCST90002075	5	171191605	G	A	3112	-0.13	0.03	0.00	0.01	21.27
rs1635750	SSC-A on B cell	ebi-a-GCST90002075	7	74360068	T	G	3112	-0.13	0.03	0.00	0.01	20.47
rs11777012	SSC-A on B cell	ebi-a-GCST90002075	8	51754521	C	T	3112	0.27	0.06	0.00	0.01	22.94
rs72879624	SSC-A on B cell	ebi-a-GCST90002075	11	5144391	C	G	3112	0.20	0.04	0.00	0.01	24.18
rs10459209	SSC-A on B cell	ebi-a-GCST90002075	12	106623009	A	G	3112	0.17	0.04	0.00	0.01	21.68
rs139142972	SSC-A on B cell	ebi-a-GCST90002075	18	29231102	T	C	3112	-1.17	0.26	0.00	0.01	20.23
rs6134523	SSC-A on B cell	ebi-a-GCST90002075	20	12351462	T	C	3112	0.13	0.03	0.00	0.01	24.98
rs6096232	SSC-A on B cell	ebi-a-GCST90002075	20	49637974	G	A	3112	-0.38	0.08	0.00	0.01	21.77
rs7575742	SSC-A on NK	ebi-a-GCST90002076	2	135429002	G	A	3113	0.14	0.03	0.00	0.01	24.54
rs75215140	SSC-A on NK	ebi-a-GCST90002076	2	62135307	G	A	3113	-0.16	0.04	0.00	0.01	19.76
rs147596499	SSC-A on NK	ebi-a-GCST90002076	4	96489377	G	A	3113	0.50	0.11	0.00	0.01	20.32
rs6850820	SSC-A on NK	ebi-a-GCST90002076	4	149325342	A	G	3113	-0.16	0.04	0.00	0.01	21.11
rs77154024	SSC-A on NK	ebi-a-GCST90002076	4	72546264	C	T	3113	1.11	0.24	0.00	0.01	21.14
rs6863338	SSC-A on NK	ebi-a-GCST90002076	5	127586596	T	C	3113	0.26	0.05	0.00	0.01	25.87
rs79025422	SSC-A on NK	ebi-a-GCST90002076	5	80236683	A	G	3113	0.55	0.11	0.00	0.01	22.62
rs188107682	SSC-A on NK	ebi-a-GCST90002076	5	170062959	A	G	3113	-0.50	0.11	0.00	0.01	20.62
rs767896	SSC-A on NK	ebi-a-GCST90002076	6	33791515	T	C	3113	0.16	0.03	0.00	0.01	23.50
rs2915158	SSC-A on NK	ebi-a-GCST90002076	7	9912333	G	A	3113	0.71	0.16	0.00	0.01	20.26
rs1006368	SSC-A on NK	ebi-a-GCST90002076	10	126346603	T	C	3113	0.41	0.04	0.00	0.03	104.53
rs2198787	SSC-A on NK	ebi-a-GCST90002076	12	62296066	C	A	3113	-0.27	0.05	0.00	0.01	24.84
rs12594783	SSC-A on NK	ebi-a-GCST90002076	15	88040400	C	T	3113	-0.14	0.03	0.00	0.01	20.76
rs74856421	SSC-A on NK	ebi-a-GCST90002076	16	3773110	T	C	3113	0.22	0.05	0.00	0.01	20.04
rs9912354	SSC-A on NK	ebi-a-GCST90002076	17	33805730	T	C	3113	0.15	0.03	0.00	0.01	29.25
rs10512469	SSC-A on NK	ebi-a-GCST90002076	17	33770802	T	C	3113	-0.17	0.04	0.00	0.01	21.18
rs11081793	SSC-A on NK	ebi-a-GCST90002076	18	19722536	G	A	3113	-0.39	0.08	0.00	0.01	22.18
rs72901909	SSC-A on NK	ebi-a-GCST90002076	18	39079198	G	T	3113	-0.29	0.06	0.00	0.01	25.27
rs2869804	SSC-A on NK	ebi-a-GCST90002076	18	14141133	G	A	3113	-0.15	0.03	0.00	0.01	20.24
rs17606146	SSC-A on NK	ebi-a-GCST90002076	19	3631134	A	G	3113	-0.22	0.05	0.00	0.01	20.44
rs28691703	SSC-A on NK	ebi-a-GCST90002076	19	43649306	C	T	3113	0.17	0.04	0.00	0.01	21.96
rs35150190	SSC-A on NK	ebi-a-GCST90002076	19	40286227	T	G	3113	-0.15	0.03	0.00	0.01	20.55
rs873220	SSC-A on NK	ebi-a-GCST90002076	21	33382162	A	G	3113	-0.13	0.03	0.00	0.01	19.66
rs11703193	SSC-A on NK	ebi-a-GCST90002076	22	18542023	A	G	3113	-0.18	0.04	0.00	0.01	23.13

rs569911	SSC-A on HLA DR+	ebi-a-GCST90002077	1	160798209	C	T	2971	-0.17	0.03	0.00	0.01	39.06
rs115805162	SSC-A on HLA DR+	ebi-a-GCST90002077	1	161410253	T	C	2971	0.25	0.03	0.00	0.02	53.77
rs71632979	SSC-A on HLA DR+	ebi-a-GCST90002077	1	161526397	G	A	2971	-0.57	0.03	0.00	0.11	352.35
rs183249728	SSC-A on HLA DR+	ebi-a-GCST90002077	1	158205680	T	C	2971	-0.75	0.15	0.00	0.01	24.57
rs72698314	SSC-A on HLA DR+	ebi-a-GCST90002077	1	164795440	G	A	2971	-0.35	0.07	0.00	0.01	27.57
rs4970518	SSC-A on HLA DR+	ebi-a-GCST90002077	1	27647082	C	T	2971	-0.12	0.03	0.00	0.01	19.89
rs116660215	SSC-A on HLA DR+	ebi-a-GCST90002077	2	17527024	A	G	2971	0.31	0.07	0.00	0.01	19.65
rs11891318	SSC-A on HLA DR+	ebi-a-GCST90002077	2	130608376	G	C	2971	0.21	0.04	0.00	0.01	23.43
rs333491	SSC-A on HLA DR+	ebi-a-GCST90002077	3	78808850	A	G	2971	0.12	0.03	0.00	0.01	19.57
rs112085672	SSC-A on HLA DR+	ebi-a-GCST90002077	3	182309260	C	A	2971	-0.36	0.07	0.00	0.01	23.64
rs6847175	SSC-A on HLA DR+	ebi-a-GCST90002077	4	88481387	G	A	2971	0.17	0.03	0.00	0.01	25.19
rs77898356	SSC-A on HLA DR+	ebi-a-GCST90002077	6	147107666	C	A	2971	1.53	0.34	0.00	0.01	19.83
rs12524004	SSC-A on HLA DR+	ebi-a-GCST90002077	6	144027987	C	T	2971	-0.41	0.09	0.00	0.01	21.43
rs11980037	SSC-A on HLA DR+	ebi-a-GCST90002077	7	88594684	T	C	2971	0.42	0.09	0.00	0.01	20.41
rs6977893	SSC-A on HLA DR+	ebi-a-GCST90002077	7	130890843	A	G	2971	-0.12	0.03	0.00	0.01	19.99
rs140589274	SSC-A on HLA DR+	ebi-a-GCST90002077	9	138894488	G	C	2971	-0.54	0.11	0.00	0.01	25.43
rs7859270	SSC-A on HLA DR+	ebi-a-GCST90002077	9	116135261	C	A	2971	-0.78	0.17	0.00	0.01	21.25
rs11000435	SSC-A on HLA DR+	ebi-a-GCST90002077	10	74638979	T	C	2971	1.64	0.36	0.00	0.01	20.84
rs117691019	SSC-A on HLA DR+	ebi-a-GCST90002077	11	78351106	G	C	2971	-1.41	0.30	0.00	0.01	22.10
rs2896705	SSC-A on HLA DR+	ebi-a-GCST90002077	11	24553602	G	A	2971	0.14	0.03	0.00	0.01	21.33
rs148866760	SSC-A on HLA DR+	ebi-a-GCST90002077	11	4509339	G	A	2971	-0.90	0.19	0.00	0.01	23.03
rs41473449	SSC-A on HLA DR+	ebi-a-GCST90002077	12	125621419	G	A	2971	0.15	0.03	0.00	0.01	26.13
rs142321106	SSC-A on HLA DR+	ebi-a-GCST90002077	13	96037026	A	G	2971	-0.56	0.12	0.00	0.01	20.44
rs11639511	SSC-A on HLA DR+	ebi-a-GCST90002077	16	10977844	G	C	2971	0.15	0.03	0.00	0.01	22.66
rs7206658	SSC-A on HLA DR+	ebi-a-GCST90002077	16	68916118	C	G	2971	-0.19	0.04	0.00	0.01	22.44
rs142666685	SSC-A on HLA DR+	ebi-a-GCST90002077	17	1769354	G	A	2971	-1.23	0.28	0.00	0.01	19.83
rs2155742	SSC-A on HLA DR+	ebi-a-GCST90002077	18	13952635	C	T	2971	-0.16	0.04	0.00	0.01	19.74
rs7292569	SSC-A on HLA DR+	ebi-a-GCST90002077	22	27418259	T	C	2971	0.15	0.03	0.00	0.01	24.66
rs112900587	SSC-A on granulocyte	ebi-a-GCST90002078	2	195082880	A	G	3112	-0.22	0.05	0.00	0.01	19.65
rs56200756	SSC-A on granulocyte	ebi-a-GCST90002078	2	218938244	C	T	3112	-0.23	0.05	0.00	0.01	21.61
rs58700409	SSC-A on granulocyte	ebi-a-GCST90002078	2	43347932	T	C	3112	0.16	0.03	0.00	0.01	23.98
rs10172031	SSC-A on granulocyte	ebi-a-GCST90002078	2	235450958	A	G	3112	-0.17	0.04	0.00	0.01	20.30
rs3774304	SSC-A on granulocyte	ebi-a-GCST90002078	3	187454731	G	C	3112	0.13	0.03	0.00	0.01	21.10
rs2236947	SSC-A on granulocyte	ebi-a-GCST90002078	3	50371432	A	C	3112	0.18	0.03	0.00	0.01	40.49
rs11568958	SSC-A on granulocyte	ebi-a-GCST90002078	4	110884941	G	A	3112	-0.79	0.17	0.00	0.01	20.73
rs114254337	SSC-A on granulocyte	ebi-a-GCST90002078	5	173631361	A	G	3112	-0.52	0.11	0.00	0.01	21.15
rs75752883	SSC-A on granulocyte	ebi-a-GCST90002078	6	155636964	C	T	3112	-0.50	0.11	0.00	0.01	20.90

rs72984093	SSC-A on granulocyte	ebi-a-GCST90002078	6	136080855	T	C	3112	0.46	0.10	0.00	0.01	19.66
rs42031	SSC-A on granulocyte	ebi-a-GCST90002078	7	92237396	T	A	3112	-0.24	0.03	0.00	0.02	61.64
rs445	SSC-A on granulocyte	ebi-a-GCST90002078	7	92408370	T	C	3112	0.44	0.03	0.00	0.05	180.88
rs17346868	SSC-A on granulocyte	ebi-a-GCST90002078	8	77468435	C	T	3112	-0.36	0.07	0.00	0.01	24.04
rs2738144	SSC-A on granulocyte	ebi-a-GCST90002078	8	6826043	T	A	3112	-0.25	0.03	0.00	0.02	73.41
rs117932393	SSC-A on granulocyte	ebi-a-GCST90002078	9	109152709	T	C	3112	-0.33	0.07	0.00	0.01	19.98
rs17775854	SSC-A on granulocyte	ebi-a-GCST90002078	10	115676623	T	G	3112	-1.06	0.23	0.00	0.01	20.44
rs1533765	SSC-A on granulocyte	ebi-a-GCST90002078	11	75901019	G	A	3112	0.14	0.03	0.00	0.01	20.75
rs137910312	SSC-A on granulocyte	ebi-a-GCST90002078	11	78834505	A	G	3112	-0.42	0.08	0.00	0.01	26.00
rs12286701	SSC-A on granulocyte	ebi-a-GCST90002078	11	31863361	C	T	3112	0.27	0.06	0.00	0.01	22.86
rs12788263	SSC-A on granulocyte	ebi-a-GCST90002078	11	22490590	A	C	3112	1.12	0.24	0.00	0.01	21.43
rs473765	SSC-A on granulocyte	ebi-a-GCST90002078	11	100829176	G	T	3112	0.12	0.03	0.00	0.01	20.06
rs28620656	SSC-A on granulocyte	ebi-a-GCST90002078	12	22247373	A	G	3112	-0.41	0.09	0.00	0.01	20.00
rs9567796	SSC-A on granulocyte	ebi-a-GCST90002078	13	47738561	G	C	3112	0.18	0.04	0.00	0.01	20.95
rs182697774	SSC-A on granulocyte	ebi-a-GCST90002078	15	53722503	T	G	3112	-0.30	0.06	0.00	0.01	20.88
rs12906244	SSC-A on granulocyte	ebi-a-GCST90002078	15	72199230	A	G	3112	1.53	0.31	0.00	0.01	24.25
rs1444301	SSC-A on granulocyte	ebi-a-GCST90002078	15	86683981	C	T	3112	0.18	0.04	0.00	0.01	22.40
rs12459815	SSC-A on granulocyte	ebi-a-GCST90002078	19	52142313	A	T	3112	0.13	0.03	0.00	0.01	21.31
rs4808397	SSC-A on granulocyte	ebi-a-GCST90002078	19	15977304	A	G	3112	-0.18	0.04	0.00	0.01	24.93
rs115752428	SSC-A on lymphocyte	ebi-a-GCST90002079	1	205560814	A	G	3113	0.44	0.08	0.00	0.01	27.37
rs150148686	SSC-A on lymphocyte	ebi-a-GCST90002079	1	214244868	C	T	3113	0.85	0.18	0.00	0.01	23.65
rs10169473	SSC-A on lymphocyte	ebi-a-GCST90002079	2	224307687	A	G	3113	0.11	0.03	0.00	0.01	19.65
rs763957	SSC-A on lymphocyte	ebi-a-GCST90002079	2	72047819	T	C	3113	0.21	0.05	0.00	0.01	20.19
rs4476566	SSC-A on lymphocyte	ebi-a-GCST90002079	4	92685794	G	A	3113	0.15	0.03	0.00	0.01	20.35
rs140946844	SSC-A on lymphocyte	ebi-a-GCST90002079	4	126113940	T	C	3113	0.38	0.09	0.00	0.01	19.87
rs9268832	SSC-A on lymphocyte	ebi-a-GCST90002079	6	32427789	C	T	3113	-0.17	0.03	0.00	0.01	31.21
rs79281322	SSC-A on lymphocyte	ebi-a-GCST90002079	6	32621047	C	T	3113	-0.31	0.07	0.00	0.01	19.87
rs33964890	SSC-A on lymphocyte	ebi-a-GCST90002079	6	32583919	C	T	3113	0.15	0.03	0.00	0.01	21.84
rs567832763	SSC-A on lymphocyte	ebi-a-GCST90002079	7	5876741	G	A	3113	1.34	0.29	0.00	0.01	21.88
rs1842502	SSC-A on lymphocyte	ebi-a-GCST90002079	8	136208763	T	C	3113	0.12	0.03	0.00	0.01	20.84
rs776782	SSC-A on lymphocyte	ebi-a-GCST90002079	9	18653773	A	G	3113	0.13	0.03	0.00	0.01	25.46
rs112485823	SSC-A on lymphocyte	ebi-a-GCST90002079	10	10530822	C	T	3113	-0.21	0.05	0.00	0.01	20.65
rs3907999	SSC-A on lymphocyte	ebi-a-GCST90002079	11	82027114	G	A	3113	0.13	0.03	0.00	0.01	19.59
rs78270456	SSC-A on lymphocyte	ebi-a-GCST90002079	11	5229028	A	C	3113	0.18	0.04	0.00	0.01	21.08
rs11607999	SSC-A on lymphocyte	ebi-a-GCST90002079	11	44623672	C	T	3113	0.13	0.03	0.00	0.01	19.84
rs4883958	SSC-A on lymphocyte	ebi-a-GCST90002079	13	74511054	T	C	3113	0.13	0.03	0.00	0.01	21.63
rs77789294	SSC-A on lymphocyte	ebi-a-GCST90002079	14	29178686	C	T	3113	0.21	0.04	0.00	0.01	24.62

rs8029959	SSC-A on lymphocyte	ebi-a-GCST90002079	15	26028154	C	A	3113	-0.13	0.03	0.00	0.01	19.73
rs873857	SSC-A on lymphocyte	ebi-a-GCST90002079	16	84697706	C	G	3113	-0.12	0.03	0.00	0.01	20.96
rs1823592	SSC-A on lymphocyte	ebi-a-GCST90002079	18	22484814	C	T	3113	-0.13	0.03	0.00	0.01	24.83
rs12166583	SSC-A on lymphocyte	ebi-a-GCST90002079	22	30483964	A	C	3113	-0.13	0.03	0.00	0.01	24.54
rs75643253	SSC-A on T cell	ebi-a-GCST90002080	1	27415326	T	C	3113	0.34	0.08	0.00	0.01	19.64
rs61768373	SSC-A on T cell	ebi-a-GCST90002080	1	44148499	C	G	3113	-0.16	0.03	0.00	0.01	22.03
rs115752428	SSC-A on T cell	ebi-a-GCST90002080	1	205560814	A	G	3113	0.48	0.08	0.00	0.01	32.23
rs4654566	SSC-A on T cell	ebi-a-GCST90002080	1	4657087	A	G	3113	0.12	0.03	0.00	0.01	19.78
rs763957	SSC-A on T cell	ebi-a-GCST90002080	2	72047819	T	C	3113	0.22	0.05	0.00	0.01	20.23
rs12635110	SSC-A on T cell	ebi-a-GCST90002080	3	129503109	A	G	3113	0.17	0.04	0.00	0.01	24.59
rs9878926	SSC-A on T cell	ebi-a-GCST90002080	3	103913196	T	A	3113	0.12	0.03	0.00	0.01	19.97
rs112262410	SSC-A on T cell	ebi-a-GCST90002080	3	134400604	T	C	3113	-0.24	0.05	0.00	0.01	21.79
rs141625995	SSC-A on T cell	ebi-a-GCST90002080	4	5686368	T	C	3113	1.33	0.30	0.00	0.01	19.62
rs72634890	SSC-A on T cell	ebi-a-GCST90002080	4	58645104	T	C	3113	-2.12	0.47	0.00	0.01	20.40
rs5004278	SSC-A on T cell	ebi-a-GCST90002080	6	32582401	C	G	3113	-0.15	0.03	0.00	0.01	26.28
rs261949	SSC-A on T cell	ebi-a-GCST90002080	6	30270080	A	G	3113	-0.14	0.03	0.00	0.01	24.57
rs1842502	SSC-A on T cell	ebi-a-GCST90002080	8	136208763	T	C	3113	0.12	0.03	0.00	0.01	21.89
rs143674649	SSC-A on T cell	ebi-a-GCST90002080	8	24246646	G	A	3113	-0.32	0.07	0.00	0.01	19.63
rs776782	SSC-A on T cell	ebi-a-GCST90002080	9	18653773	A	G	3113	0.13	0.03	0.00	0.01	23.95
rs11607999	SSC-A on T cell	ebi-a-GCST90002080	11	44623672	C	T	3113	0.14	0.03	0.00	0.01	22.00
rs77789294	SSC-A on T cell	ebi-a-GCST90002080	14	29178686	C	T	3113	0.20	0.04	0.00	0.01	21.22
rs2188353	SSC-A on T cell	ebi-a-GCST90002080	16	26444828	C	A	3113	0.12	0.03	0.00	0.01	19.64
rs873857	SSC-A on T cell	ebi-a-GCST90002080	16	84697706	C	G	3113	-0.13	0.03	0.00	0.01	24.64
rs1823592	SSC-A on T cell	ebi-a-GCST90002080	18	22484814	C	T	3113	-0.12	0.03	0.00	0.01	22.29
rs76782803	SSC-A on T cell	ebi-a-GCST90002080	20	23665192	A	G	3113	0.18	0.04	0.00	0.01	20.37
rs5749002	SSC-A on T cell	ebi-a-GCST90002080	22	17749096	A	G	3113	0.16	0.04	0.00	0.01	20.00
rs113026874	SSC-A on T cell	ebi-a-GCST90002080	22	30400641	T	A	3113	-0.32	0.07	0.00	0.01	21.81
rs145630857	SSC-A on CD4+	ebi-a-GCST90002081	2	1273653	A	G	3113	-0.19	0.04	0.00	0.01	22.37
rs10169473	SSC-A on CD4+	ebi-a-GCST90002081	2	224307687	A	G	3113	0.12	0.03	0.00	0.01	21.81
rs2625989	SSC-A on CD4+	ebi-a-GCST90002081	3	129345155	A	G	3113	0.15	0.03	0.00	0.01	22.58
rs62274365	SSC-A on CD4+	ebi-a-GCST90002081	3	103225168	G	A	3113	-0.28	0.06	0.00	0.01	21.59
rs114690517	SSC-A on CD4+	ebi-a-GCST90002081	3	116324393	C	T	3113	0.50	0.11	0.00	0.01	21.38
rs139637230	SSC-A on CD4+	ebi-a-GCST90002081	3	75966167	A	G	3113	-0.53	0.12	0.00	0.01	19.78
rs77201915	SSC-A on CD4+	ebi-a-GCST90002081	3	165438990	A	G	3113	-0.37	0.08	0.00	0.01	20.63
rs112057082	SSC-A on CD4+	ebi-a-GCST90002081	6	31875523	T	C	3113	0.22	0.05	0.00	0.01	19.57
rs9351713	SSC-A on CD4+	ebi-a-GCST90002081	6	69075736	G	T	3113	0.12	0.03	0.00	0.01	20.67
rs9271536	SSC-A on CD4+	ebi-a-GCST90002081	6	32589978	T	A	3113	-0.26	0.03	0.00	0.02	56.11

rs113243185	SSC-A on CD4+	ebi-a-GCST90002081	6	32585071	C	G	3113	0.24	0.04	0.00	0.01	41.45
rs79493037	SSC-A on CD4+	ebi-a-GCST90002081	6	31405825	G	C	3113	0.23	0.04	0.00	0.01	31.35
rs2245214	SSC-A on CD4+	ebi-a-GCST90002081	6	106662741	G	C	3113	-0.12	0.03	0.00	0.01	19.71
rs148031710	SSC-A on CD4+	ebi-a-GCST90002081	6	31148873	C	T	3113	0.30	0.05	0.00	0.01	36.26
rs12704990	SSC-A on CD4+	ebi-a-GCST90002081	7	77093722	C	T	3113	-0.13	0.03	0.00	0.01	19.71
rs1842502	SSC-A on CD4+	ebi-a-GCST90002081	8	136208763	T	C	3113	0.12	0.03	0.00	0.01	21.78
rs10975141	SSC-A on CD4+	ebi-a-GCST90002081	9	5496918	T	G	3113	0.54	0.12	0.00	0.01	20.42
rs62577878	SSC-A on CD4+	ebi-a-GCST90002081	9	104134117	T	C	3113	-0.54	0.12	0.00	0.01	21.44
rs2184012	SSC-A on CD4+	ebi-a-GCST90002081	9	114152636	T	C	3113	0.58	0.12	0.00	0.01	22.97
rs776782	SSC-A on CD4+	ebi-a-GCST90002081	9	18653773	A	G	3113	0.12	0.03	0.00	0.01	20.00
rs12356750	SSC-A on CD4+	ebi-a-GCST90002081	10	7450221	A	G	3113	-0.12	0.03	0.00	0.01	20.08
rs67169771	SSC-A on CD4+	ebi-a-GCST90002081	10	133344600	A	G	3113	-0.13	0.03	0.00	0.01	20.27
rs117236744	SSC-A on CD4+	ebi-a-GCST90002081	11	13091906	G	C	3113	0.92	0.20	0.00	0.01	20.51
rs140567398	SSC-A on CD4+	ebi-a-GCST90002081	13	99878398	A	G	3113	0.23	0.05	0.00	0.01	22.60
rs75548299	SSC-A on CD4+	ebi-a-GCST90002081	14	101441602	T	C	3113	-0.29	0.06	0.00	0.01	19.71
rs79312638	SSC-A on CD4+	ebi-a-GCST90002081	15	84477705	C	G	3113	-0.30	0.06	0.00	0.01	21.37
rs1994719	SSC-A on CD4+	ebi-a-GCST90002081	17	72945894	G	A	3113	0.28	0.06	0.00	0.01	20.32
rs11078501	SSC-A on CD4+	ebi-a-GCST90002081	17	4287261	C	T	3113	-0.13	0.03	0.00	0.01	19.71
rs1823592	SSC-A on CD4+	ebi-a-GCST90002081	18	22484814	C	T	3113	-0.12	0.03	0.00	0.01	21.47
rs80099003	SSC-A on CD4+	ebi-a-GCST90002081	19	34352141	C	G	3113	-0.30	0.07	0.00	0.01	20.40
rs12166583	SSC-A on CD4+	ebi-a-GCST90002081	22	30483964	A	C	3113	-0.12	0.03	0.00	0.01	21.42
rs115752428	SSC-A on CD8br	ebi-a-GCST90002082	1	205560814	A	G	3113	0.38	0.08	0.00	0.01	23.46
rs13019266	SSC-A on CD8br	ebi-a-GCST90002082	2	111604642	C	T	3113	-0.11	0.02	0.00	0.01	19.69
rs112262410	SSC-A on CD8br	ebi-a-GCST90002082	3	134400604	T	C	3113	-0.23	0.05	0.00	0.01	22.88
rs4550979	SSC-A on CD8br	ebi-a-GCST90002082	4	189591165	G	C	3113	0.15	0.03	0.00	0.01	20.08
rs62435615	SSC-A on CD8br	ebi-a-GCST90002082	6	147532536	T	C	3113	-0.13	0.03	0.00	0.01	20.98
rs9266801	SSC-A on CD8br	ebi-a-GCST90002082	6	31376051	A	G	3113	-0.16	0.03	0.00	0.01	25.81
rs147779398	SSC-A on CD8br	ebi-a-GCST90002082	7	42610990	C	T	3113	-0.50	0.11	0.00	0.01	20.20
rs144027086	SSC-A on CD8br	ebi-a-GCST90002082	7	15148913	A	G	3113	2.50	0.49	0.00	0.01	25.77
rs11192024	SSC-A on CD8br	ebi-a-GCST90002082	10	106126407	T	A	3113	-0.34	0.07	0.00	0.01	21.55
rs147187095	SSC-A on CD8br	ebi-a-GCST90002082	10	9454654	C	T	3113	2.04	0.46	0.00	0.01	19.58
rs77789294	SSC-A on CD8br	ebi-a-GCST90002082	14	29178686	C	T	3113	0.21	0.04	0.00	0.01	27.93
rs873857	SSC-A on CD8br	ebi-a-GCST90002082	16	84697706	C	G	3113	-0.11	0.02	0.00	0.01	22.12
rs7192172	SSC-A on CD8br	ebi-a-GCST90002082	16	57127753	A	G	3113	0.16	0.03	0.00	0.01	20.60
rs138038426	SSC-A on CD8br	ebi-a-GCST90002082	17	42576434	C	T	3113	-0.89	0.19	0.00	0.01	22.67
rs191772295	SSC-A on CD8br	ebi-a-GCST90002082	18	21222946	C	T	3113	0.60	0.13	0.00	0.01	21.35
rs72943263	SSC-A on CD8br	ebi-a-GCST90002082	18	54275565	T	C	3113	0.40	0.09	0.00	0.01	21.04

rs117482121	SSC-A on CD8br	ebi-a-GCST90002082	18	75269360	A	G	3113	-0.29	0.06	0.00	0.01	24.51
rs62221356	SSC-A on CD8br	ebi-a-GCST90002082	22	49522943	A	G	3113	1.15	0.24	0.00	0.01	22.23
rs5762053	SSC-A on CD8br	ebi-a-GCST90002082	22	27675461	A	G	3113	-0.14	0.03	0.00	0.01	21.76
rs11801958	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	1	7176679	T	G	3060	0.13	0.03	0.00	0.01	23.80
rs4971333	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	2	931745	G	A	3060	-0.13	0.03	0.00	0.01	21.74
rs4686701	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	3	185550565	A	G	3060	-0.14	0.03	0.00	0.01	26.61
rs34705953	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	3	19997111	T	C	3060	0.15	0.03	0.00	0.01	19.92
rs35775925	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	3	71332550	C	T	3060	-0.18	0.04	0.00	0.01	23.16
rs115620709	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	4	148953372	T	C	3060	-1.11	0.21	0.00	0.01	28.47
rs34001932	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	5	133304889	C	A	3060	0.28	0.06	0.00	0.01	19.86
rs16901165	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	5	31439859	A	G	3060	-0.27	0.06	0.00	0.01	20.39
rs7740132	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	6	89807320	A	G	3060	0.22	0.05	0.00	0.01	19.68
rs140095418	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	6	120793422	A	G	3060	0.37	0.08	0.00	0.01	20.50
rs9272259	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	6	32603192	G	A	3060	-0.17	0.03	0.00	0.01	28.55
rs9267655	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	6	31841055	A	G	3060	-0.17	0.03	0.00	0.01	28.57
rs56012404	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	7	148180566	A	G	3060	0.36	0.08	0.00	0.01	20.17
rs2374643	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	7	93045939	G	A	3060	-0.32	0.07	0.00	0.01	22.21
rs186882253	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	9	101270987	C	G	3060	-0.46	0.10	0.00	0.01	22.73
rs10742994	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	11	1810188	T	C	3060	0.12	0.03	0.00	0.01	20.01
rs2683466	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	12	32210668	A	G	3060	-0.20	0.04	0.00	0.01	23.57
rs4597229	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	14	38400344	T	C	3060	0.13	0.03	0.00	0.01	20.19
rs4924305	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	15	39159349	A	G	3060	0.13	0.03	0.00	0.01	22.92
rs114959443	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	15	35835193	G	A	3060	-0.25	0.05	0.00	0.01	20.54
rs3813581	HLA DR+ T cell SSC-A on	ebi-a-GCST90002083	16	79749341	T	C	3060	-0.21	0.04	0.00	0.01	23.48
rs12924236	HLA DR+ T cell	ebi-a-GCST90002083	16	10974423	C	G	3060	0.22	0.03	0.00	0.02	49.52

rs8089887	SSC-A on HLA DR+ T cell	ebi-a-GCST90002083	18	67573810	A	G	3060	-0.29	0.06	0.00	0.01	23.12
rs10749775	SSC-A on NKT	ebi-a-GCST90002084	1	67822087	A	C	3113	0.19	0.04	0.00	0.01	22.87
rs6694654	SSC-A on NKT	ebi-a-GCST90002084	1	86178676	T	A	3113	0.14	0.03	0.00	0.01	20.43
rs138822248	SSC-A on NKT	ebi-a-GCST90002084	2	152970607	A	G	3113	-0.57	0.13	0.00	0.01	19.65
rs6783507	SSC-A on NKT	ebi-a-GCST90002084	3	123518258	C	T	3113	-0.25	0.06	0.00	0.01	19.56
rs79523120	SSC-A on NKT	ebi-a-GCST90002084	6	66414139	C	T	3113	-2.53	0.52	0.00	0.01	23.77
rs6918518	SSC-A on NKT	ebi-a-GCST90002084	6	158930696	C	A	3113	0.13	0.03	0.00	0.01	22.93
rs4707956	SSC-A on NKT	ebi-a-GCST90002084	6	72648340	A	C	3113	0.13	0.03	0.00	0.01	19.72
rs2109396	SSC-A on NKT	ebi-a-GCST90002084	7	14933955	A	C	3113	-0.15	0.03	0.00	0.01	22.44
rs35060274	SSC-A on NKT	ebi-a-GCST90002084	8	58338298	G	T	3113	0.16	0.03	0.00	0.01	22.09
rs12716653	SSC-A on NKT	ebi-a-GCST90002084	9	89886037	C	T	3113	-0.14	0.03	0.00	0.01	23.64
rs1006368	SSC-A on NKT	ebi-a-GCST90002084	10	126346603	T	C	3113	0.20	0.04	0.00	0.01	24.76
rs10765790	SSC-A on NKT	ebi-a-GCST90002084	11	95852734	C	T	3113	0.16	0.03	0.00	0.01	32.12
rs78201778	SSC-A on NKT	ebi-a-GCST90002084	12	45872353	A	G	3113	2.29	0.51	0.00	0.01	20.18
rs2198787	SSC-A on NKT	ebi-a-GCST90002084	12	62296066	C	A	3113	-0.26	0.05	0.00	0.01	23.46
rs55657662	SSC-A on NKT	ebi-a-GCST90002084	13	102674496	A	C	3113	0.14	0.03	0.00	0.01	19.72
rs118042158	SSC-A on NKT	ebi-a-GCST90002084	13	97456459	C	T	3113	0.87	0.19	0.00	0.01	19.78
rs7183698	SSC-A on NKT	ebi-a-GCST90002084	15	64870152	C	A	3113	0.13	0.03	0.00	0.01	20.08
rs276951	SSC-A on NKT	ebi-a-GCST90002084	16	86243187	T	C	3113	-0.15	0.03	0.00	0.01	24.55
rs11644532	SSC-A on NKT	ebi-a-GCST90002084	16	70657660	A	G	3113	0.20	0.04	0.00	0.01	20.57
rs140151332	SSC-A on NKT	ebi-a-GCST90002084	17	18368011	T	C	3113	-0.30	0.07	0.00	0.01	19.61
rs74777495	SSC-A on NKT	ebi-a-GCST90002084	18	58910278	T	G	3113	1.36	0.30	0.00	0.01	21.23
rs10422871	SSC-A on NKT	ebi-a-GCST90002084	19	8789227	T	C	3113	-0.28	0.05	0.00	0.01	35.00
rs79811607	HLA DR+ CD4+ SSC-A on	ebi-a-GCST90002085	1	111760061	A	G	3060	1.30	0.28	0.00	0.01	20.76
rs4326672	HLA DR+ CD4+ SSC-A on	ebi-a-GCST90002085	1	95581713	C	T	3060	0.17	0.04	0.00	0.01	22.78
rs6697448	HLA DR+ CD4+ SSC-A on	ebi-a-GCST90002085	1	12594521	A	C	3060	-0.15	0.03	0.00	0.01	23.17
rs3115859	HLA DR+ CD4+ SSC-A on	ebi-a-GCST90002085	1	754503	A	G	3060	-0.18	0.04	0.00	0.01	23.93
rs138424232	HLA DR+ CD4+ SSC-A on	ebi-a-GCST90002085	1	248075249	G	T	3060	-0.67	0.15	0.00	0.01	19.95
rs4686701	HLA DR+ CD4+ SSC-A on	ebi-a-GCST90002085	3	185550565	A	G	3060	-0.12	0.03	0.00	0.01	22.35
rs13159652	HLA DR+ CD4+ SSC-A on	ebi-a-GCST90002085	5	86130997	T	C	3060	-0.16	0.03	0.00	0.01	23.81
rs115781665	HLA DR+ CD4+ SSC-A on	ebi-a-GCST90002085	6	67256822	A	G	3060	1.05	0.22	0.00	0.01	22.95
rs3104376	HLA DR+ CD4+	ebi-a-GCST90002085	6	32600003	C	T	3060	-0.16	0.03	0.00	0.01	22.78

rs78131752	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	6	63218235	T	C	3060	1.23	0.23	0.00	0.01	28.32
rs78800399	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	7	25515946	A	G	3060	0.50	0.11	0.00	0.01	19.81
rs7805250	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	7	32126481	G	A	3060	0.28	0.06	0.00	0.01	20.08
rs151184302	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	7	76839222	A	G	3060	0.31	0.07	0.00	0.01	21.60
rs72679223	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	8	96005870	C	T	3060	0.39	0.08	0.00	0.01	21.98
rs138293681	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	9	19994802	T	G	3060	-0.43	0.09	0.00	0.01	21.82
rs353628	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	11	35188507	C	G	3060	-0.18	0.04	0.00	0.01	19.72
rs117045668	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	11	21178226	A	T	3060	0.92	0.18	0.00	0.01	24.83
rs4941916	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	13	39834151	A	G	3060	0.32	0.07	0.00	0.01	19.73
rs4924305	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	15	39159349	A	G	3060	0.12	0.03	0.00	0.01	19.89
rs6498113	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	16	10961882	G	T	3060	-0.16	0.03	0.00	0.01	22.21
rs79890386	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	19	18006749	A	T	3060	0.76	0.16	0.00	0.01	22.22
rs12482528	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	21	15710293	T	C	3060	-0.20	0.04	0.00	0.01	22.27
rs11910199	SSC-A on HLA DR+ CD4+	ebi-a-GCST90002085	21	31589957	A	G	3060	-0.20	0.04	0.00	0.01	19.98
rs142804909	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	1	64510605	A	G	3060	0.62	0.13	0.00	0.01	23.43
rs11801958	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	1	7176679	T	G	3060	0.14	0.03	0.00	0.01	27.56
rs114955332	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	1	77859645	C	A	3060	-0.63	0.14	0.00	0.01	20.30
rs62161922	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	2	34784052	A	G	3060	0.23	0.05	0.00	0.01	20.39
rs4273217	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	2	152638498	T	C	3060	0.18	0.04	0.00	0.01	20.42
rs4686701	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	3	185550565	A	G	3060	-0.12	0.03	0.00	0.01	19.60
rs78160435	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	4	164937109	C	G	3060	0.15	0.03	0.00	0.01	22.84
rs4833232	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	4	122684367	T	C	3060	-0.12	0.03	0.00	0.01	19.85
rs614008	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	6	31840794	T	C	3060	0.13	0.03	0.00	0.01	21.31
rs3129034	CD8br HLA DR+	ebi-a-GCST90002086	6	29555809	T	C	3060	-0.16	0.03	0.00	0.01	28.74

rs117967604	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	7	154651450	C	A	3060	0.37	0.08	0.00	0.01	19.62
rs74843612	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	7	9681264	T	A	3060	0.90	0.20	0.00	0.01	20.88
rs76157970	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	9	7325127	T	C	3060	-0.35	0.07	0.00	0.01	26.79
rs2147883	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	10	68734898	G	T	3060	-0.96	0.20	0.00	0.01	23.85
rs78335055	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	12	87425162	A	G	3060	0.37	0.08	0.00	0.01	21.07
rs74827160	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	12	88353146	T	G	3060	-0.24	0.05	0.00	0.01	23.00
rs75133898	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	12	124981979	A	C	3060	0.43	0.09	0.00	0.01	23.21
rs1552390	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	12	13227095	T	C	3060	0.12	0.03	0.00	0.01	19.69
rs117767550	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	12	98809414	T	G	3060	-0.31	0.07	0.00	0.01	21.67
rs75242390	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	13	107412166	A	G	3060	0.99	0.22	0.00	0.01	19.95
rs10145270	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	14	105349891	A	G	3060	-0.12	0.03	0.00	0.01	20.14
rs117410119	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	15	89996482	C	G	3060	-0.49	0.11	0.00	0.01	20.20
rs79260068	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	17	11304316	A	C	3060	0.83	0.18	0.00	0.01	21.42
rs1017102	SSC-A on HLA DR+ CD8br	ebi-a-GCST90002086	19	56892632	C	A	3060	0.18	0.04	0.00	0.01	21.20
rs17481824	CD11c on myeloid DC	ebi-a-GCST90002087	1	54559794	C	T	2872	0.18	0.04	0.00	0.01	20.92
rs72873714	CD11c on myeloid DC	ebi-a-GCST90002087	1	25875650	A	G	2872	0.27	0.06	0.00	0.01	20.37
rs78520150	CD11c on myeloid DC	ebi-a-GCST90002087	1	19786101	A	C	2872	0.39	0.07	0.00	0.01	30.51
rs71652355	CD11c on myeloid DC	ebi-a-GCST90002087	1	25505556	A	G	2872	0.36	0.08	0.00	0.01	21.53
rs61802329	CD11c on myeloid DC	ebi-a-GCST90002087	1	161589626	T	C	2872	0.17	0.03	0.00	0.01	37.68
rs72662658	CD11c on myeloid DC	ebi-a-GCST90002087	1	26010884	A	G	2872	0.50	0.09	0.00	0.01	28.75
rs79355481	CD11c on myeloid DC	ebi-a-GCST90002087	1	40087162	T	C	2872	0.38	0.07	0.00	0.01	27.06
rs79968431	CD11c on myeloid DC	ebi-a-GCST90002087	2	67456752	A	G	2872	0.99	0.19	0.00	0.01	25.60
rs75841521	CD11c on myeloid DC	ebi-a-GCST90002087	2	59592691	A	G	2872	-0.44	0.08	0.00	0.01	30.00
rs11708131	CD11c on myeloid DC	ebi-a-GCST90002087	3	104415905	A	G	2872	-0.26	0.05	0.00	0.01	24.19
rs9856506	CD11c on myeloid DC	ebi-a-GCST90002087	3	8718629	G	C	2872	0.16	0.04	0.00	0.01	21.46
rs72732223	CD11c on myeloid DC	ebi-a-GCST90002087	5	16754930	G	A	2872	0.20	0.05	0.00	0.01	19.94
rs778233	CD11c on myeloid DC	ebi-a-GCST90002087	5	84617476	T	C	2872	-0.13	0.03	0.00	0.01	23.90
rs16881169	CD11c on myeloid DC	ebi-a-GCST90002087	6	18769716	G	A	2872	0.26	0.06	0.00	0.01	19.72
rs56210513	CD11c on myeloid DC	ebi-a-GCST90002087	6	112990257	T	C	2872	-0.56	0.12	0.00	0.01	20.27
rs7795869	CD11c on myeloid DC	ebi-a-GCST90002087	7	36710341	G	A	2872	0.16	0.03	0.00	0.01	21.71

rs13255633	CD11c on myeloid DC	ebi-a-GCST90002087	8	138231016	T	C	2872	0.16	0.03	0.00	0.01	21.70
rs7869020	CD11c on myeloid DC	ebi-a-GCST90002087	9	138107011	C	T	2872	-0.24	0.05	0.00	0.01	23.27
rs2541232	CD11c on myeloid DC	ebi-a-GCST90002087	10	72520930	A	G	2872	0.12	0.03	0.00	0.01	20.61
rs11004890	CD11c on myeloid DC	ebi-a-GCST90002087	10	57257180	A	G	2872	0.12	0.03	0.00	0.01	19.76
rs148343003	CD11c on myeloid DC	ebi-a-GCST90002087	10	101863324	T	C	2872	1.71	0.36	0.00	0.01	22.78
rs138069865	CD11c on myeloid DC	ebi-a-GCST90002087	10	115183723	C	T	2872	1.87	0.40	0.00	0.01	21.75
rs4770411	CD11c on myeloid DC	ebi-a-GCST90002087	13	23783140	C	T	2872	0.16	0.03	0.00	0.01	25.29
rs9562128	CD11c on myeloid DC	ebi-a-GCST90002087	13	114917127	G	A	2872	0.13	0.03	0.00	0.01	20.63
rs67898294	CD11c on myeloid DC	ebi-a-GCST90002087	16	31362711	T	C	2872	0.33	0.03	0.00	0.05	136.50
rs80318951	CD11c on myeloid DC	ebi-a-GCST90002087	16	30829668	T	C	2872	-0.15	0.03	0.00	0.01	26.68
rs113167560	CD11c on myeloid DC	ebi-a-GCST90002087	16	51444521	G	T	2872	-0.32	0.07	0.00	0.01	22.56
rs79298699	CD11c on myeloid DC	ebi-a-GCST90002087	16	31402042	T	C	2872	-0.28	0.05	0.00	0.01	33.66
rs113404848	CD11c on myeloid DC	ebi-a-GCST90002087	16	48040615	G	A	2872	0.28	0.06	0.00	0.01	24.46
rs35945038	CD11c on myeloid DC	ebi-a-GCST90002087	18	20245248	A	G	2872	-0.13	0.03	0.00	0.01	20.83
rs56116087	CD11c on myeloid DC	ebi-a-GCST90002087	19	10090323	A	G	2872	-0.21	0.04	0.00	0.01	22.10
rs79355481	CD62L+ myeloid DC	ebi-a-GCST90002088	1	40087162	T	C	2872	0.36	0.07	0.00	0.01	24.50
rs17481824	CD62L+ myeloid DC	ebi-a-GCST90002088	1	54559794	C	T	2872	0.18	0.04	0.00	0.01	21.70
rs78520150	CD62L+ myeloid DC	ebi-a-GCST90002088	1	19786101	A	C	2872	0.37	0.07	0.00	0.01	27.23
rs72662658	CD62L+ myeloid DC	ebi-a-GCST90002088	1	26010884	A	G	2872	0.49	0.09	0.00	0.01	28.06
rs72873714	CD62L+ myeloid DC	ebi-a-GCST90002088	1	25875650	A	G	2872	0.27	0.06	0.00	0.01	19.88
rs185038925	CD62L+ myeloid DC	ebi-a-GCST90002088	1	238659551	G	A	2872	0.20	0.04	0.00	0.01	21.20
rs71652355	CD62L+ myeloid DC	ebi-a-GCST90002088	1	25505556	A	G	2872	0.35	0.08	0.00	0.01	20.94
rs149922594	CD62L+ myeloid DC	ebi-a-GCST90002088	2	24117291	T	C	2872	-1.44	0.31	0.00	0.01	21.47
rs75841521	CD62L+ myeloid DC	ebi-a-GCST90002088	2	59592691	A	G	2872	-0.42	0.08	0.00	0.01	27.50
rs17314359	CD62L+ myeloid DC	ebi-a-GCST90002088	2	83597897	C	A	2872	-0.15	0.03	0.00	0.01	20.43
rs9856506	CD62L+ myeloid DC	ebi-a-GCST90002088	3	8718629	G	C	2872	0.16	0.04	0.00	0.01	20.89
rs72672205	CD62L+ myeloid DC	ebi-a-GCST90002088	4	111950141	G	A	2872	-0.82	0.18	0.00	0.01	20.67
rs115914905	CD62L+ myeloid DC	ebi-a-GCST90002088	4	6588450	A	G	2872	-1.70	0.38	0.00	0.01	20.20
rs778233	CD62L+ myeloid DC	ebi-a-GCST90002088	5	84617476	T	C	2872	-0.13	0.03	0.00	0.01	21.81

rs72732223	CD11c on CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	5	16754930	G	A	2872	0.21	0.05	0.00	0.01	20.92
rs79792171	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	6	124596494	A	G	2872	-1.02	0.23	0.00	0.01	19.96
rs12529747	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	6	112955454	C	G	2872	-0.15	0.03	0.00	0.01	20.98
rs16881169	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	6	18769716	G	A	2872	0.29	0.06	0.00	0.01	24.29
rs13255633	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	8	138231016	T	C	2872	0.16	0.03	0.00	0.01	21.00
rs148343003	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	10	101863324	T	C	2872	1.63	0.36	0.00	0.01	20.65
rs2541232	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	10	72520930	A	G	2872	0.12	0.03	0.00	0.01	20.47
rs138069865	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	10	115183723	C	T	2872	1.80	0.40	0.00	0.01	20.31
rs1887757	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	13	23788362	T	C	2872	0.16	0.03	0.00	0.01	25.42
rs12927491	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	16	31596543	T	C	2872	-0.22	0.04	0.00	0.01	28.25
rs76225503	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	16	47980553	A	G	2872	-0.35	0.07	0.00	0.01	22.23
rs4493054	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	16	31361988	A	G	2872	0.36	0.03	0.00	0.05	144.97
rs113404848	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	16	48040615	G	A	2872	0.27	0.06	0.00	0.01	22.72
rs4592764	CD62L+ mveloid DC CD11c on	ebi-a-GCST90002088	18	20258482	T	A	2872	-0.13	0.03	0.00	0.01	23.01
rs16827406	CD11c on monocyte	ebi-a-GCST90002089	1	41059499	T	C	2850	0.18	0.03	0.00	0.01	27.99
rs1801274	CD11c on monocyte	ebi-a-GCST90002089	1	161479745	G	A	2850	0.28	0.03	0.00	0.03	88.11
rs74585014	CD11c on monocyte	ebi-a-GCST90002089	2	75208727	T	C	2850	-0.80	0.17	0.00	0.01	21.76
rs2699961	CD11c on monocyte	ebi-a-GCST90002089	3	109042419	G	T	2850	-0.31	0.06	0.00	0.01	23.46
rs149159018	CD11c on monocyte	ebi-a-GCST90002089	3	132077351	G	A	2850	-0.57	0.12	0.00	0.01	21.83
rs35764061	CD11c on monocyte	ebi-a-GCST90002089	7	73285441	T	C	2850	0.92	0.20	0.00	0.01	21.35
rs116977022	CD11c on monocyte	ebi-a-GCST90002089	8	131045527	T	C	2850	0.93	0.20	0.00	0.01	21.72
rs146665828	CD11c on monocyte	ebi-a-GCST90002089	8	15677874	A	G	2850	-0.32	0.07	0.00	0.01	24.18
rs117387675	CD11c on monocyte	ebi-a-GCST90002089	9	105955248	G	A	2850	-0.28	0.06	0.00	0.01	25.40
rs7118182	CD11c on monocyte	ebi-a-GCST90002089	11	7445905	A	G	2850	0.13	0.03	0.00	0.01	19.90
rs12421743	CD11c on monocyte	ebi-a-GCST90002089	11	124765894	G	C	2850	0.17	0.04	0.00	0.01	21.21
rs11608886	CD11c on monocyte	ebi-a-GCST90002089	12	105713710	T	C	2850	0.54	0.12	0.00	0.01	21.42
rs1887757	CD11c on monocyte	ebi-a-GCST90002089	13	23788362	T	C	2850	0.15	0.03	0.00	0.01	20.37
rs1808890	CD11c on monocyte	ebi-a-GCST90002089	15	101227478	C	T	2850	-0.15	0.03	0.00	0.01	19.83
rs9932817	CD11c on monocyte	ebi-a-GCST90002089	16	48503912	G	T	2850	-0.17	0.03	0.00	0.01	34.97
rs117968915	CD11c on monocyte	ebi-a-GCST90002089	16	47869527	G	A	2850	0.54	0.12	0.00	0.01	21.48

rs11642757	CD11c on monocyte	ebi-a-GCST90002089	16	79753467	A	G	2850	0.14	0.03	0.00	0.01	25.42
rs7199570	CD11c on monocyte	ebi-a-GCST90002089	16	31365464	A	T	2850	0.30	0.03	0.00	0.04	117.19
rs12924903	CD11c on monocyte	ebi-a-GCST90002089	16	30928970	G	A	2850	0.15	0.03	0.00	0.01	21.37
rs116873976	CD11c on monocyte	ebi-a-GCST90002089	17	21255388	A	G	2850	-2.46	0.52	0.00	0.01	22.19
rs77687616	CD11c on monocyte	ebi-a-GCST90002089	20	54392972	C	T	2850	-0.68	0.14	0.00	0.01	22.95
rs11913696	CD11c on monocyte	ebi-a-GCST90002089	22	19827328	G	A	2850	0.13	0.03	0.00	0.01	20.93
rs1801274	CD11c on granulocyte	ebi-a-GCST90002090	1	161479745	G	A	2850	0.25	0.03	0.00	0.02	69.12
rs114393604	CD11c on granulocyte	ebi-a-GCST90002090	1	9765679	C	G	2850	-1.45	0.33	0.00	0.01	19.57
rs144638810	CD11c on granulocyte	ebi-a-GCST90002090	1	161968404	C	T	2850	0.44	0.10	0.00	0.01	19.90
rs12122013	CD11c on granulocyte	ebi-a-GCST90002090	1	162860370	C	T	2850	-0.15	0.03	0.00	0.01	23.82
rs35852864	CD11c on granulocyte	ebi-a-GCST90002090	1	181217088	T	C	2850	0.27	0.06	0.00	0.01	24.13
rs55828113	CD11c on granulocyte	ebi-a-GCST90002090	2	195660273	T	C	2850	-0.27	0.06	0.00	0.01	22.47
rs11719519	CD11c on granulocyte	ebi-a-GCST90002090	3	186104558	T	C	2850	0.17	0.03	0.00	0.01	23.87
rs79027362	CD11c on granulocyte	ebi-a-GCST90002090	4	72155939	C	A	2850	-0.50	0.11	0.00	0.01	19.56
rs13110782	CD11c on granulocyte	ebi-a-GCST90002090	4	186808581	A	G	2850	-0.12	0.03	0.00	0.01	19.77
rs34744703	CD11c on granulocyte	ebi-a-GCST90002090	4	188861213	G	C	2850	-0.17	0.04	0.00	0.01	20.27
rs138075266	CD11c on granulocyte	ebi-a-GCST90002090	7	28584086	G	T	2850	-1.16	0.25	0.00	0.01	20.93
rs2026075	CD11c on granulocyte	ebi-a-GCST90002090	9	520886	A	G	2850	0.13	0.03	0.00	0.01	19.84
rs4743771	CD11c on granulocyte	ebi-a-GCST90002090	9	107722282	A	C	2850	-0.15	0.03	0.00	0.01	20.99
rs1231330	CD11c on granulocyte	ebi-a-GCST90002090	9	25717386	G	A	2850	0.13	0.03	0.00	0.01	19.67
rs10756625	CD11c on granulocyte	ebi-a-GCST90002090	9	1501109	G	C	2850	-0.14	0.03	0.00	0.01	22.33
rs78304446	CD11c on granulocyte	ebi-a-GCST90002090	10	133662338	T	C	2850	-0.30	0.06	0.00	0.01	22.76
rs11841867	CD11c on granulocyte	ebi-a-GCST90002090	13	29022875	A	G	2850	0.25	0.05	0.00	0.01	21.33
rs16947237	CD11c on granulocyte	ebi-a-GCST90002090	13	92923296	C	T	2850	-0.17	0.04	0.00	0.01	19.62
rs9671321	CD11c on granulocyte	ebi-a-GCST90002090	14	23151953	G	A	2850	0.17	0.03	0.00	0.01	28.43
rs139788044	CD11c on granulocyte	ebi-a-GCST90002090	15	24527620	T	C	2850	-0.24	0.05	0.00	0.01	20.66
rs28432694	CD11c on granulocyte	ebi-a-GCST90002090	16	48666310	T	A	2850	-0.17	0.03	0.00	0.01	31.91
rs9923916	CD11c on granulocyte	ebi-a-GCST90002090	16	1322605	T	C	2850	0.16	0.04	0.00	0.01	20.12
rs8046381	CD11c on granulocyte	ebi-a-GCST90002090	16	31379355	C	T	2850	0.47	0.04	0.00	0.04	131.19
rs321911	CD11c on granulocyte	ebi-a-GCST90002090	19	52811620	T	C	2850	0.27	0.06	0.00	0.01	23.28
rs113861918	CD11c on granulocyte	ebi-a-GCST90002090	19	52129097	T	C	2850	-0.22	0.04	0.00	0.01	33.89
rs117596617	CD11c on granulocyte	ebi-a-GCST90002090	20	52794798	A	G	2850	-0.20	0.04	0.00	0.01	23.53
rs3813611	CD14+ monocyte	ebi-a-GCST90002091	1	161068240	A	G	1635	0.18	0.04	0.00	0.01	22.99
rs1801274	CD14+ monocyte	ebi-a-GCST90002091	1	161479745	G	A	1635	0.62	0.04	0.00	0.15	294.65
rs12073174	CD14+ monocyte	ebi-a-GCST90002091	1	4002766	G	A	1635	0.16	0.04	0.00	0.01	19.97

rs80051878	CD11b on CD14+ monocyte CD11b on	ebi-a-GCST90002091	1	87979893	C	T	1635	0.43	0.09	0.00	0.01	22.42
rs80033019	CD14+ monocyte CD11b on	ebi-a-GCST90002091	2	122609228	T	C	1635	-0.58	0.12	0.00	0.02	25.14
rs148027358	CD14+ monocyte CD11b on	ebi-a-GCST90002091	4	190410040	A	G	1635	-0.22	0.05	0.00	0.01	20.94
rs7341115	CD14+ monocyte CD11b on	ebi-a-GCST90002091	5	90510809	G	A	1635	0.22	0.05	0.00	0.01	20.13
rs142164490	CD14+ monocyte CD11b on	ebi-a-GCST90002091	6	102083682	A	T	1635	-0.87	0.19	0.00	0.01	19.94
rs56063308	CD14+ monocyte CD11b on	ebi-a-GCST90002091	6	91511685	T	G	1635	0.29	0.06	0.00	0.01	21.75
rs6591744	CD14+ monocyte CD11b on	ebi-a-GCST90002091	11	62880909	G	A	1635	0.20	0.05	0.00	0.01	20.18
rs142456232	CD14+ monocyte CD11b on	ebi-a-GCST90002091	11	4960640	T	C	1635	-0.35	0.08	0.00	0.01	21.03
rs11232457	CD14+ monocyte CD11b on	ebi-a-GCST90002091	11	80812245	C	T	1635	0.19	0.04	0.00	0.01	20.76
rs285589	CD14+ monocyte CD11b on	ebi-a-GCST90002091	12	41944407	C	T	1635	0.22	0.05	0.00	0.01	20.65
rs12147583	CD14+ monocyte CD11b on	ebi-a-GCST90002091	14	87896781	A	C	1635	-2.44	0.52	0.00	0.01	22.42
rs112645067	CD14+ monocyte CD11b on	ebi-a-GCST90002091	15	99970786	G	A	1635	-0.33	0.07	0.00	0.01	23.18
rs62032592	CD14+ monocyte CD11b on	ebi-a-GCST90002091	15	87411994	A	G	1635	-0.36	0.07	0.00	0.02	27.84
rs62077141	CD14+ monocyte CD11b on	ebi-a-GCST90002091	17	75798962	T	G	1635	0.28	0.06	0.00	0.01	21.73
rs60887432	CD14+ monocyte CD11b on	ebi-a-GCST90002091	17	70177652	A	C	1635	-0.31	0.07	0.00	0.01	19.89
rs72835003	CD14+ monocyte CD11b on	ebi-a-GCST90002091	17	4714471	C	T	1635	-0.53	0.12	0.00	0.01	20.60
rs7268939	CD14+ monocyte CD11b on	ebi-a-GCST90002091	20	18896895	A	G	1635	-0.18	0.04	0.00	0.01	23.01
rs78378365	CD11b on Gr MDSC	ebi-a-GCST90002092	1	79154051	T	C	1244	-1.93	0.41	0.00	0.02	22.49
rs140875293	CD11b on Gr MDSC	ebi-a-GCST90002092	2	190360243	A	C	1244	1.00	0.21	0.00	0.02	22.28
rs147394990	CD11b on Gr MDSC	ebi-a-GCST90002092	4	144217222	A	G	1244	-2.28	0.50	0.00	0.02	20.55
rs3905243	CD66b++ mveloid cell CD11b on	ebi-a-GCST90002093	1	115355974	C	T	1465	0.21	0.04	0.00	0.02	27.21
rs35028965	CD66b++ mveloid cell CD11b on	ebi-a-GCST90002093	2	213535240	C	A	1465	-0.56	0.12	0.00	0.01	20.29
rs115257843	CD66b++ mveloid cell CD11b on	ebi-a-GCST90002093	2	25875950	C	T	1465	-0.53	0.12	0.00	0.01	19.82
rs12471268	CD66b++ mveloid cell CD11b on	ebi-a-GCST90002093	2	153464633	A	G	1465	0.20	0.04	0.00	0.01	20.74
rs73218196	CD66b++ mveloid cell	ebi-a-GCST90002093	4	12016687	G	A	1465	-1.44	0.32	0.00	0.01	20.73

rs12186328	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	4	154428112	G	A	1465	-0.23	0.05	0.00	0.02	25.48
rs12204943	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	6	12516245	A	G	1465	0.24	0.05	0.00	0.02	23.27
rs7790850	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	7	154511099	C	G	1465	0.45	0.10	0.00	0.01	21.03
rs138210464	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	7	62685602	C	T	1465	0.37	0.08	0.00	0.01	20.72
rs148435116	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	8	120898056	A	G	1465	0.45	0.10	0.00	0.01	20.05
rs12345519	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	9	134450016	A	G	1465	0.81	0.18	0.00	0.01	21.33
rs2377426	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	9	78546389	G	A	1465	0.21	0.04	0.00	0.01	22.10
rs78741790	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	11	40291201	C	G	1465	0.49	0.11	0.00	0.01	20.07
rs7111235	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	11	133658661	C	T	1465	0.17	0.04	0.00	0.01	20.52
rs78885473	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	12	26396679	G	A	1465	0.32	0.07	0.00	0.01	20.25
rs116849735	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	12	44943100	C	T	1465	-0.32	0.07	0.00	0.01	21.06
rs117878089	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	14	56195815	T	C	1465	0.43	0.10	0.00	0.01	19.70
rs80037173	CD11b on CD66b++ mveloid cell	ebi-a-GCST90002093	19	39164081	A	T	1465	1.15	0.25	0.00	0.01	20.30
rs12073174	CD11b on Mo MDSC	ebi-a-GCST90002094	1	4002766	G	A	1570	0.18	0.04	0.00	0.01	23.86
rs1801274	CD11b on Mo MDSC	ebi-a-GCST90002094	1	161479745	G	A	1570	0.46	0.04	0.00	0.08	144.85
rs7579789	CD11b on Mo MDSC	ebi-a-GCST90002094	2	176610873	A	C	1570	0.18	0.04	0.00	0.01	19.82
rs77400868	CD11b on Mo MDSC	ebi-a-GCST90002094	3	3150964	G	A	1570	0.19	0.04	0.00	0.01	20.71
rs146739860	CD11b on Mo MDSC	ebi-a-GCST90002094	5	174996664	G	A	1570	-0.71	0.15	0.00	0.01	22.88
rs74545702	CD11b on Mo MDSC	ebi-a-GCST90002094	5	155307756	T	C	1570	0.21	0.05	0.00	0.01	20.15
rs142164490	CD11b on Mo MDSC	ebi-a-GCST90002094	6	102083682	A	T	1570	-0.93	0.20	0.00	0.01	22.55
rs148428675	CD11b on Mo MDSC	ebi-a-GCST90002094	6	112788900	T	C	1570	-1.27	0.27	0.00	0.01	21.37
rs7750629	CD11b on Mo MDSC	ebi-a-GCST90002094	6	150915881	C	T	1570	-0.17	0.04	0.00	0.01	20.06
rs17157063	CD11b on Mo MDSC	ebi-a-GCST90002094	7	103530694	C	A	1570	-0.77	0.16	0.00	0.01	23.24
rs35417041	CD11b on Mo MDSC	ebi-a-GCST90002094	8	94254378	T	C	1570	-0.25	0.05	0.00	0.02	26.46
rs2997983	CD11b on Mo MDSC	ebi-a-GCST90002094	10	1461116	C	T	1570	-0.34	0.08	0.00	0.01	19.93
rs11232457	CD11b on Mo MDSC	ebi-a-GCST90002094	11	80812245	C	T	1570	0.20	0.04	0.00	0.01	20.69
rs1499516	CD11b on Mo MDSC	ebi-a-GCST90002094	11	36082067	G	T	1570	0.18	0.04	0.00	0.01	20.55
rs62032592	CD11b on Mo MDSC	ebi-a-GCST90002094	15	87411994	A	G	1570	-0.33	0.07	0.00	0.01	23.83
rs72835003	CD11b on Mo MDSC	ebi-a-GCST90002094	17	4714471	C	T	1570	-0.58	0.12	0.00	0.01	23.86
rs114446732	CD11b on CD33dim HLA DR-	ebi-a-GCST90002095	1	170916456	A	G	1559	-0.51	0.11	0.00	0.01	23.14

rs56391734	CD11b on CD33dim	ebi-a-GCST90002095	1	67982239	G	A	1559	0.21	0.05	0.00	0.01	19.69
rs11922267	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	3	65401156	T	C	1559	0.25	0.06	0.00	0.01	19.74
rs73214121	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	3	134675768	G	A	1559	0.63	0.14	0.00	0.01	20.92
rs79689885	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	4	38170624	A	G	1559	0.34	0.07	0.00	0.01	21.25
rs13143110	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	4	143105070	C	T	1559	1.70	0.38	0.00	0.01	19.96
rs72943419	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	6	106580040	A	T	1559	-0.20	0.04	0.00	0.02	27.68
rs9381139	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	6	42076788	T	C	1559	0.24	0.05	0.00	0.01	20.57
rs2015467	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	6	120034199	A	T	1559	-1.04	0.22	0.00	0.01	22.36
rs73084604	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	7	24364831	C	T	1559	-0.58	0.12	0.00	0.01	21.52
rs149090801	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	7	48224317	C	T	1559	-0.65	0.12	0.00	0.02	27.72
rs2462681	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	7	113164548	C	T	1559	0.20	0.04	0.00	0.01	21.32
rs117431630	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	9	7853019	A	G	1559	-0.41	0.09	0.00	0.01	20.38
rs1547784	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	10	112465154	G	A	1559	0.25	0.05	0.00	0.01	22.72
rs7896853	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	10	99476915	C	T	1559	-0.21	0.04	0.00	0.01	21.84
rs72837738	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	10	122530940	A	G	1559	0.21	0.04	0.00	0.02	26.60
rs11114574	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	12	81094063	A	G	1559	0.47	0.10	0.00	0.01	22.12
rs8018158	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	14	99782579	T	C	1559	-0.17	0.04	0.00	0.01	21.51
rs62040131	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	16	79108056	C	A	1559	-0.41	0.09	0.00	0.01	20.14
rs2457797	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	19	22046425	A	G	1559	-0.19	0.04	0.00	0.01	20.24
rs78744187	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	19	33754548	T	C	1559	-0.38	0.08	0.00	0.02	24.46
rs114757228	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	21	19500806	G	A	1559	0.35	0.08	0.00	0.01	19.73
rs760462	HLA DR- CD11b on CD33dim	ebi-a-GCST90002095	21	46328099	C	T	1559	0.44	0.05	0.00	0.05	86.09
rs139324834	basophil CD11b on CD33dim	ebi-a-GCST90002096	1	161588466	T	C	1556	0.48	0.10	0.00	0.02	24.06
rs12135207	basophil CD11b on CD33dim	ebi-a-GCST90002096	1	160944691	T	C	1556	0.52	0.12	0.00	0.01	20.05
rs115866025	basophil CD11b on CD33dim	ebi-a-GCST90002096	2	23861433	T	C	1556	-0.65	0.14	0.00	0.01	21.05
rs73214121	basophil CD11b on CD33dim	ebi-a-GCST90002096	3	134675768	G	A	1556	0.65	0.14	0.00	0.01	22.45

rs139087540	CD11b on basophil	ebi-a-GCST90002096	4	14387882	C	A	1556	-0.81	0.18	0.00	0.01	20.03
rs7716442	CD11b on basophil	ebi-a-GCST90002096	5	55780435	C	T	1556	-0.24	0.05	0.00	0.01	20.67
rs7737891	CD11b on basophil	ebi-a-GCST90002096	5	31021947	T	G	1556	-0.17	0.04	0.00	0.01	19.88
rs410683	CD11b on basophil	ebi-a-GCST90002096	6	88008920	C	T	1556	0.17	0.04	0.00	0.01	19.95
rs150751001	CD11b on basophil	ebi-a-GCST90002096	6	94714285	T	C	1556	-0.46	0.09	0.00	0.01	23.13
rs138132338	CD11b on basophil	ebi-a-GCST90002096	7	34480553	T	C	1556	-0.36	0.08	0.00	0.01	22.41
rs17151708	CD11b on basophil	ebi-a-GCST90002096	7	10516229	A	G	1556	-0.28	0.06	0.00	0.01	21.47
rs150791226	CD11b on basophil	ebi-a-GCST90002096	9	93305784	C	T	1556	-0.47	0.10	0.00	0.01	23.08
rs72837738	CD11b on basophil	ebi-a-GCST90002096	10	122530940	A	G	1556	0.18	0.04	0.00	0.01	20.96
rs8018158	CD11b on basophil	ebi-a-GCST90002096	14	99782579	T	C	1556	-0.18	0.04	0.00	0.02	24.48
rs34550882	CD11b on basophil	ebi-a-GCST90002096	16	31274875	T	C	1556	-0.19	0.04	0.00	0.01	20.95
rs12451379	CD11b on basophil	ebi-a-GCST90002096	17	70268997	A	G	1556	-0.27	0.05	0.00	0.02	25.25
rs78744187	CD11b on basophil	ebi-a-GCST90002096	19	33754548	T	C	1556	-0.38	0.08	0.00	0.02	24.46
rs66604253	CD11b on basophil	ebi-a-GCST90002096	21	46709509	A	G	1556	-0.25	0.06	0.00	0.01	20.61
rs760462	CD11b on basophil	ebi-a-GCST90002096	21	46328099	C	T	1556	0.45	0.05	0.00	0.06	93.11
rs1801274	CD33br HLA DR+	ebi-a-GCST90002097	1	161479745	G	A	1578	0.49	0.04	0.00	0.10	177.91
rs76769365	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	2	201489162	C	G	1578	0.39	0.09	0.00	0.01	19.67
rs142436127	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	3	118883955	A	T	1578	-1.07	0.23	0.00	0.01	21.00
rs3943404	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	4	55977759	T	A	1578	-0.17	0.04	0.00	0.01	21.95
rs142470748	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	7	55375099	A	G	1578	0.67	0.15	0.00	0.01	20.34
rs79788679	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	7	92609625	G	A	1578	0.32	0.06	0.00	0.02	26.18
rs846294	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	7	42123925	C	G	1578	0.18	0.04	0.00	0.02	24.14
rs62561188	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	9	87310577	C	T	1578	0.33	0.07	0.00	0.01	20.47
rs1930423	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	9	101407173	A	T	1578	-0.31	0.07	0.00	0.01	20.40
rs11015080	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	10	26677896	T	A	1578	-0.17	0.04	0.00	0.01	21.81
rs66811768	CD14dim CD33br HLA DR+	ebi-a-GCST90002097	10	9580495	T	G	1578	-0.24	0.05	0.00	0.01	19.67

rs61952076	CD11b on CD33br HLA DR+	ebi-a-GCST90002097	12	133089630	A	G	1578	-0.26	0.06	0.00	0.01	20.13
rs57761043	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	12	218152	A	G	1578	-0.48	0.11	0.00	0.01	19.74
rs10850001	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	12	112553032	A	T	1578	0.16	0.04	0.00	0.01	20.39
rs140129370	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	13	74097996	C	T	1578	-0.84	0.17	0.00	0.02	24.78
rs146147816	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	14	73295385	A	G	1578	1.10	0.22	0.00	0.02	24.35
rs75948515	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	15	51443825	T	G	1578	0.34	0.07	0.00	0.01	22.73
rs7166641	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	15	84637928	T	C	1578	0.16	0.04	0.00	0.01	21.06
rs80184675	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	16	83304908	A	G	1578	-0.29	0.06	0.00	0.01	19.76
rs72815426	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	17	11788269	G	A	1578	0.72	0.16	0.00	0.01	20.83
rs55978635	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	17	75786314	G	C	1578	0.16	0.04	0.00	0.01	20.17
rs2552498	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	18	38747705	C	T	1578	0.20	0.04	0.00	0.01	22.29
rs72983710	CD14dim CD11b on CD33br HLA DR+	ebi-a-GCST90002097	18	75884528	T	C	1578	-0.38	0.08	0.00	0.01	20.94
rs187089343	CD14dim CD45RA on naive CD4+	ebi-a-GCST90002098	1	182091538	C	A	2910	1.02	0.21	0.00	0.01	24.64
rs146899923	CD45RA on naive CD4+	ebi-a-GCST90002098	1	195919849	C	T	2910	0.66	0.14	0.00	0.01	22.08
rs147071297	CD45RA on naive CD4+	ebi-a-GCST90002098	1	191648600	A	G	2910	1.53	0.21	0.00	0.02	51.42
rs74967706	CD45RA on naive CD4+	ebi-a-GCST90002098	1	195466150	C	T	2910	0.72	0.13	0.00	0.01	28.73
rs17583875	CD45RA on naive CD4+	ebi-a-GCST90002098	1	197924770	A	G	2910	2.21	0.23	0.00	0.03	91.00
rs138915779	CD45RA on naive CD4+	ebi-a-GCST90002098	1	190079170	A	C	2910	1.33	0.23	0.00	0.01	33.97
rs12730924	CD45RA on naive CD4+	ebi-a-GCST90002098	1	10870863	G	A	2910	0.13	0.03	0.00	0.01	19.67
rs79747818	CD45RA on naive CD4+	ebi-a-GCST90002098	2	41757305	T	C	2910	0.32	0.05	0.00	0.01	36.62
rs42803	CD45RA on naive CD4+	ebi-a-GCST90002098	2	40837037	C	G	2910	0.16	0.03	0.00	0.01	37.43
rs145947216	CD45RA on naive CD4+	ebi-a-GCST90002098	2	38596674	T	C	2910	0.71	0.07	0.00	0.03	102.55
rs138283413	CD45RA on naive CD4+	ebi-a-GCST90002098	2	40480936	T	C	2910	0.33	0.07	0.00	0.01	22.39
rs113885925	CD45RA on naive CD4+	ebi-a-GCST90002098	2	38094107	T	C	2910	0.43	0.09	0.00	0.01	20.50
rs182240059	CD45RA on naive CD4+	ebi-a-GCST90002098	2	38955419	G	C	2910	0.66	0.07	0.00	0.03	86.55

rs7605193	CD45RA on naive CD4+	ebi-a-GCST90002098	2	38698112	G	T	2910	-0.32	0.05	0.00	0.01	37.21
rs147692482	CD45RA on naive CD4+	ebi-a-GCST90002098	2	39864242	T	C	2910	0.61	0.08	0.00	0.02	52.19
rs139544135	CD45RA on naive CD4+	ebi-a-GCST90002098	2	37885284	T	C	2910	0.39	0.09	0.00	0.01	20.41
rs34558770	CD45RA on naive CD4+	ebi-a-GCST90002098	2	38933040	T	C	2910	0.50	0.03	0.00	0.07	234.33
rs9834739	CD45RA on naive CD4+	ebi-a-GCST90002098	3	11614492	C	T	2910	-0.40	0.09	0.00	0.01	20.25
rs35592432	CD45RA on naive CD4+	ebi-a-GCST90002098	3	71355240	C	G	2910	-0.40	0.08	0.00	0.01	25.34
rs35550194	CD45RA on naive CD4+	ebi-a-GCST90002098	3	10639764	A	G	2910	0.34	0.07	0.00	0.01	25.00
rs115645435	CD45RA on naive CD4+	ebi-a-GCST90002098	4	22091595	C	T	2910	0.47	0.10	0.00	0.01	20.27
rs62328019	CD45RA on naive CD4+	ebi-a-GCST90002098	4	147691255	T	C	2910	0.25	0.06	0.00	0.01	19.74
rs10022333	CD45RA on naive CD4+	ebi-a-GCST90002098	4	19362367	G	C	2910	-0.13	0.03	0.00	0.01	20.09
rs531042	CD45RA on naive CD4+	ebi-a-GCST90002098	6	124879453	T	G	2910	-0.14	0.03	0.00	0.01	20.35
rs28590272	CD45RA on naive CD4+	ebi-a-GCST90002098	7	50360663	G	A	2910	0.13	0.03	0.00	0.01	19.70
rs917116	CD45RA on naive CD4+	ebi-a-GCST90002098	7	28172739	G	T	2910	0.18	0.03	0.00	0.01	34.70
rs79000121	CD45RA on naive CD4+	ebi-a-GCST90002098	7	10126364	G	A	2910	-0.32	0.06	0.00	0.01	25.01
rs117626397	CD45RA on naive CD4+	ebi-a-GCST90002098	10	131423918	G	A	2910	2.55	0.56	0.00	0.01	20.77
rs72859264	CD45RA on naive CD4+	ebi-a-GCST90002098	11	11304233	A	G	2910	-0.48	0.11	0.00	0.01	19.78
rs61938012	CD45RA on naive CD4+	ebi-a-GCST90002098	12	119526748	A	G	2910	-0.13	0.03	0.00	0.01	19.72
rs79505210	CD45RA on naive CD4+	ebi-a-GCST90002098	12	132969270	T	C	2910	0.49	0.09	0.00	0.01	26.27
rs61913600	CD45RA on naive CD4+	ebi-a-GCST90002098	12	12884357	G	A	2910	0.13	0.03	0.00	0.01	20.92
rs1641548	CD45RA on naive CD4+	ebi-a-GCST90002098	17	7574779	T	C	2910	0.18	0.04	0.00	0.01	23.92
rs55733272	CD45RA on naive CD4+	ebi-a-GCST90002098	18	4765016	C	G	2910	0.15	0.03	0.00	0.01	19.88
rs75425544	CD45RA on naive CD4+	ebi-a-GCST90002098	20	31591228	T	C	2910	-0.42	0.09	0.00	0.01	20.37
rs116794175	CD4RA on TD CD4+	ebi-a-GCST90002099	1	194010208	C	T	2903	0.89	0.20	0.00	0.01	19.63
rs11579717	CD4RA on TD CD4+	ebi-a-GCST90002099	1	199999121	A	G	2903	1.19	0.20	0.00	0.01	34.68
rs34645541	CD4RA on TD CD4+	ebi-a-GCST90002099	1	195875605	A	C	2903	0.70	0.14	0.00	0.01	24.86
rs822833	CD4RA on TD CD4+	ebi-a-GCST90002099	1	234954585	T	C	2903	-0.14	0.03	0.00	0.01	21.44
rs141541045	CD4RA on TD CD4+	ebi-a-GCST90002099	1	182131075	T	A	2903	0.96	0.18	0.00	0.01	29.73
rs541367304	CD4RA on TD CD4+	ebi-a-GCST90002099	1	198283058	A	G	2903	2.07	0.28	0.00	0.02	54.81
rs4670907	CD4RA on TD CD4+	ebi-a-GCST90002099	2	39278066	T	C	2903	-0.21	0.04	0.00	0.01	22.66
rs147201746	CD4RA on TD CD4+	ebi-a-GCST90002099	2	15706963	A	G	2903	-0.60	0.12	0.00	0.01	24.27
rs7559619	CD4RA on TD CD4+	ebi-a-GCST90002099	2	38892207	G	A	2903	-0.21	0.03	0.00	0.02	55.73
rs1861266	CD4RA on TD CD4+	ebi-a-GCST90002099	2	40283459	C	A	2903	0.16	0.03	0.00	0.01	20.45
rs116345427	CD4RA on TD CD4+	ebi-a-GCST90002099	3	146702237	A	G	2903	1.01	0.22	0.00	0.01	20.12
rs4974277	CD4RA on TD CD4+	ebi-a-GCST90002099	3	70625844	T	A	2903	0.32	0.07	0.00	0.01	21.78
rs78528853	CD4RA on TD CD4+	ebi-a-GCST90002099	3	26352969	G	A	2903	0.46	0.10	0.00	0.01	19.87
rs1504496	CD4RA on TD CD4+	ebi-a-GCST90002099	4	45951996	A	G	2903	0.38	0.08	0.00	0.01	21.03
rs17777079	CD4RA on TD CD4+	ebi-a-GCST90002099	5	100081982	T	A	2903	0.35	0.07	0.00	0.01	22.76

rs111916169	CD4RA on TD CD4+	ebi-a-GCST90002099	5	78137524	T	A	2903	0.62	0.13	0.00	0.01	21.99
rs929785	CD4RA on TD CD4+	ebi-a-GCST90002099	5	159153268	C	T	2903	0.13	0.03	0.00	0.01	20.38
rs181435089	CD4RA on TD CD4+	ebi-a-GCST90002099	6	69234703	T	C	2903	-0.42	0.09	0.00	0.01	22.96
rs117931526	CD4RA on TD CD4+	ebi-a-GCST90002099	6	117716047	C	T	2903	-2.27	0.50	0.00	0.01	20.75
rs931816	CD4RA on TD CD4+	ebi-a-GCST90002099	7	9679455	G	A	2903	0.19	0.04	0.00	0.01	20.08
rs78948498	CD4RA on TD CD4+	ebi-a-GCST90002099	8	77159185	G	C	2903	0.18	0.04	0.00	0.01	21.53
rs13269202	CD4RA on TD CD4+	ebi-a-GCST90002099	8	70924735	C	G	2903	-0.20	0.05	0.00	0.01	20.01
rs13292669	CD4RA on TD CD4+	ebi-a-GCST90002099	9	132659104	C	T	2903	-0.15	0.03	0.00	0.01	19.80
rs10114587	CD4RA on TD CD4+	ebi-a-GCST90002099	9	133795282	G	A	2903	-0.29	0.06	0.00	0.01	20.90
rs10815513	CD4RA on TD CD4+	ebi-a-GCST90002099	9	7088522	A	G	2903	-0.14	0.03	0.00	0.01	20.17
rs1328601	CD4RA on TD CD4+	ebi-a-GCST90002099	10	125153605	C	T	2903	-0.57	0.13	0.00	0.01	19.84
rs7894393	CD4RA on TD CD4+	ebi-a-GCST90002099	10	100120872	C	T	2903	0.16	0.04	0.00	0.01	19.85
rs76295302	CD4RA on TD CD4+	ebi-a-GCST90002099	10	2556079	C	G	2903	0.27	0.06	0.00	0.01	19.99
rs56049135	CD4RA on TD CD4+	ebi-a-GCST90002099	12	102381732	G	C	2903	-2.14	0.41	0.00	0.01	27.28
rs2188219	CD4RA on TD CD4+	ebi-a-GCST90002099	17	5923525	C	G	2903	-0.12	0.03	0.00	0.01	19.95
rs11652274	CD4RA on TD CD4+	ebi-a-GCST90002099	17	26010931	A	G	2903	-0.19	0.04	0.00	0.01	20.54
rs78804476	CD4RA on TD CD4+	ebi-a-GCST90002099	19	662832	A	G	2903	1.62	0.36	0.00	0.01	20.89
rs4261817	CD4RA on TD CD4+	ebi-a-GCST90002099	22	49045798	C	T	2903	0.12	0.03	0.00	0.01	19.89
rs6587385	CD45RA on naive CD8br	ebi-a-GCST90002100	1	248047256	C	T	2910	0.15	0.03	0.00	0.01	27.98
rs12027761	CD45RA on naive CD8br	ebi-a-GCST90002100	1	247974959	T	C	2910	0.20	0.04	0.00	0.01	23.43
rs2993668	CD45RA on naive CD8br	ebi-a-GCST90002100	1	11394782	T	C	2910	0.14	0.03	0.00	0.01	21.79
rs116517602	CD45RA on naive CD8br	ebi-a-GCST90002100	1	198922068	T	C	2910	1.15	0.20	0.00	0.01	32.54
rs147071297	CD45RA on naive CD8br	ebi-a-GCST90002100	1	191648600	A	G	2910	0.98	0.22	0.00	0.01	19.64
rs150981153	CD45RA on naive CD8br	ebi-a-GCST90002100	2	57533997	C	A	2910	-0.56	0.12	0.00	0.01	21.08
rs185202879	CD45RA on naive CD8br	ebi-a-GCST90002100	2	72252030	T	G	2910	-0.81	0.17	0.00	0.01	22.62
rs971274	CD45RA on naive CD8br	ebi-a-GCST90002100	2	38495461	G	C	2910	-0.18	0.04	0.00	0.01	24.39
rs12712613	CD45RA on naive CD8br	ebi-a-GCST90002100	2	38948860	T	G	2910	-0.19	0.03	0.00	0.02	51.44
rs116497662	CD45RA on naive CD8br	ebi-a-GCST90002100	3	17996736	A	C	2910	-0.55	0.12	0.00	0.01	19.86
rs79003654	CD45RA on naive CD8br	ebi-a-GCST90002100	5	180639067	T	C	2910	-0.19	0.04	0.00	0.01	21.87
rs3812450	CD45RA on naive CD8br	ebi-a-GCST90002100	8	69349596	C	T	2910	-0.19	0.04	0.00	0.01	22.46
rs3762058	CD45RA on naive CD8br	ebi-a-GCST90002100	9	116842333	T	C	2910	0.30	0.06	0.00	0.01	20.86
rs61875926	CD45RA on naive CD8br	ebi-a-GCST90002100	11	8705528	G	C	2910	0.20	0.04	0.00	0.01	22.97
rs144760211	CD45RA on naive CD8br	ebi-a-GCST90002100	11	62424847	T	G	2910	-0.33	0.08	0.00	0.01	19.75
rs2620762	CD45RA on naive CD8br	ebi-a-GCST90002100	12	68003886	A	T	2910	0.15	0.03	0.00	0.01	20.40
rs2160419	CD45RA on naive CD8br	ebi-a-GCST90002100	13	72314346	G	A	2910	-0.89	0.19	0.00	0.01	22.83
rs1709408	CD45RA on naive CD8br	ebi-a-GCST90002100	15	22517225	G	T	2910	3.06	0.69	0.00	0.01	19.72
rs72845213	CD45RA on naive CD8br	ebi-a-GCST90002100	17	61280212	G	T	2910	0.31	0.07	0.00	0.01	20.40

rs7217643	CD45RA on naive CD8br	ebi-a-GCST90002100	17	62402769	C	T	2910	-0.19	0.04	0.00	0.01	22.80
rs74440646	CD45RA on naive CD8br	ebi-a-GCST90002100	18	6162001	T	C	2910	-0.28	0.06	0.00	0.01	21.96
rs7239526	CD45RA on naive CD8br	ebi-a-GCST90002100	18	65414267	T	C	2910	-0.19	0.04	0.00	0.01	22.24
rs117074487	CD45RA on naive CD8br	ebi-a-GCST90002100	18	64698349	G	A	2910	-0.37	0.08	0.00	0.01	22.46
rs1861404	CD45RA on TD CD8br	ebi-a-GCST90002101	2	64833920	T	G	2911	-0.14	0.03	0.00	0.01	22.40
rs7583259	CD45RA on TD CD8br	ebi-a-GCST90002101	2	38921934	G	C	2911	0.26	0.03	0.00	0.03	91.88
rs192211982	CD45RA on TD CD8br	ebi-a-GCST90002101	2	201907127	C	T	2911	-0.48	0.10	0.00	0.01	22.38
rs61141933	CD45RA on TD CD8br	ebi-a-GCST90002101	2	39388479	T	C	2911	0.26	0.04	0.00	0.01	38.78
rs800067	CD45RA on TD CD8br	ebi-a-GCST90002101	3	144389644	A	G	2911	-0.13	0.03	0.00	0.01	21.27
rs111772667	CD45RA on TD CD8br	ebi-a-GCST90002101	4	130243636	A	G	2911	0.30	0.07	0.00	0.01	20.35
rs6962836	CD45RA on TD CD8br	ebi-a-GCST90002101	7	22705474	G	A	2911	-0.17	0.04	0.00	0.01	21.75
rs74516300	CD45RA on TD CD8br	ebi-a-GCST90002101	9	22968922	A	C	2911	-0.76	0.17	0.00	0.01	20.96
rs141423324	CD45RA on TD CD8br	ebi-a-GCST90002101	9	78911401	A	G	2911	-0.25	0.06	0.00	0.01	20.36
rs141550154	CD45RA on TD CD8br	ebi-a-GCST90002101	10	19011440	G	A	2911	-0.48	0.11	0.00	0.01	20.21
rs11177189	CD45RA on TD CD8br	ebi-a-GCST90002101	12	68758131	G	T	2911	-0.25	0.05	0.00	0.01	20.86
rs141602247	CD45RA on TD CD8br	ebi-a-GCST90002101	13	53730995	C	T	2911	0.47	0.10	0.00	0.01	21.60
rs62025666	CD45RA on TD CD8br	ebi-a-GCST90002101	15	99720770	C	G	2911	0.43	0.09	0.00	0.01	22.89
rs11634765	CD45RA on TD CD8br	ebi-a-GCST90002101	15	92817659	C	T	2911	-0.16	0.03	0.00	0.01	20.50
rs634097	CD45RA on TD CD8br	ebi-a-GCST90002101	18	561109	G	A	2911	0.17	0.04	0.00	0.01	19.79
rs140807368	CD45RA on resting Treg	ebi-a-GCST90002102	1	194379933	T	A	2919	0.83	0.17	0.00	0.01	23.85
rs34645541	CD45RA on resting Treg	ebi-a-GCST90002102	1	195875605	A	C	2919	0.67	0.13	0.00	0.01	24.55
rs138915779	CD45RA on resting Treg	ebi-a-GCST90002102	1	190079170	A	C	2919	1.59	0.24	0.00	0.01	43.79
rs187089343	CD45RA on resting Treg	ebi-a-GCST90002102	1	182091538	C	A	2919	1.12	0.22	0.00	0.01	27.14
rs6587385	CD45RA on resting Treg	ebi-a-GCST90002102	1	248047256	C	T	2919	0.13	0.03	0.00	0.01	22.43
rs11579717	CD45RA on resting Treg	ebi-a-GCST90002102	1	199999121	A	G	2919	1.50	0.20	0.00	0.02	57.33
rs541367304	CD45RA on resting Treg	ebi-a-GCST90002102	1	198283058	A	G	2919	2.69	0.27	0.00	0.03	96.25
rs72805573	CD45RA on resting Treg	ebi-a-GCST90002102	2	62708494	C	T	2919	0.83	0.18	0.00	0.01	22.22
rs10188010	CD45RA on resting Treg	ebi-a-GCST90002102	2	41782340	T	C	2919	-0.13	0.03	0.00	0.01	20.89
rs13024840	CD45RA on resting Treg	ebi-a-GCST90002102	2	38895920	A	T	2919	0.35	0.03	0.00	0.05	144.44
rs11124653	CD45RA on resting Treg	ebi-a-GCST90002102	2	39112166	A	C	2919	-0.26	0.03	0.00	0.03	93.88
rs2565661	CD45RA on resting Treg	ebi-a-GCST90002102	2	38132650	A	T	2919	-0.29	0.05	0.00	0.01	38.93
rs78689347	CD45RA on resting Treg	ebi-a-GCST90002102	2	40773763	C	A	2919	0.70	0.11	0.00	0.01	39.95
rs146873217	CD45RA on resting Treg	ebi-a-GCST90002102	3	43370758	A	G	2919	-0.64	0.14	0.00	0.01	20.26
rs72819716	CD45RA on resting Treg	ebi-a-GCST90002102	6	10433404	G	T	2919	0.51	0.12	0.00	0.01	19.75
rs12663871	CD45RA on resting Treg	ebi-a-GCST90002102	6	68875765	G	A	2919	-1.56	0.33	0.00	0.01	22.06
rs138790946	CD45RA on resting Treg	ebi-a-GCST90002102	7	35166829	T	C	2919	0.29	0.06	0.00	0.01	20.49
rs76643193	CD45RA on resting Treg	ebi-a-GCST90002102	7	130703888	T	C	2919	2.17	0.44	0.00	0.01	24.44

rs149694073	CD45RA on resting Treg	ebi-a-GCST90002102	8	139700141	C	G	2919	0.21	0.05	0.00	0.01	19.71
rs146962738	CD45RA on resting Treg	ebi-a-GCST90002102	8	122930949	G	A	2919	1.89	0.37	0.00	0.01	26.81
rs34376819	CD45RA on resting Treg	ebi-a-GCST90002102	13	86243281	A	T	2919	0.19	0.04	0.00	0.01	19.81
rs191186600	CD45RA on resting Treg	ebi-a-GCST90002102	14	69609044	C	T	2919	0.53	0.12	0.00	0.01	19.87
rs141148183	CD45RA on resting Treg	ebi-a-GCST90002102	16	54755529	T	C	2919	0.89	0.19	0.00	0.01	20.94
rs72868954	CD45RA on resting Treg	ebi-a-GCST90002102	17	68520771	C	G	2919	0.68	0.15	0.00	0.01	19.63
rs359735	CD45RA on resting Treg	ebi-a-GCST90002102	18	73770282	T	C	2919	-0.43	0.10	0.00	0.01	20.82
rs568546879	CD45RA on resting Treg	ebi-a-GCST90002102	18	33878112	C	G	2919	0.91	0.19	0.00	0.01	22.82
rs56747968	CD45RA on resting Treg	ebi-a-GCST90002102	19	2059322	A	G	2919	0.40	0.09	0.00	0.01	21.78
rs34096085	CD45RA on resting Treg	ebi-a-GCST90002102	21	39344345	G	A	2919	-0.23	0.05	0.00	0.01	20.77
rs7283704	CD45RA on resting Treg	ebi-a-GCST90002102	21	39816617	C	T	2919	-0.26	0.05	0.00	0.01	23.51
rs191753228	CD39+ resting Treg	ebi-a-GCST90002103	1	196321168	T	C	2650	1.58	0.24	0.00	0.02	42.37
rs114590935	CD39+ resting Treg	ebi-a-GCST90002103	1	210056681	C	T	2650	0.47	0.10	0.00	0.01	23.70
rs72761048	CD39+ resting Treg	ebi-a-GCST90002103	1	248058067	C	G	2650	-0.14	0.03	0.00	0.01	19.65
rs80125540	CD39+ resting Treg	ebi-a-GCST90002103	1	80096051	A	G	2650	0.62	0.13	0.00	0.01	21.17
rs72805573	CD39+ resting Treg	ebi-a-GCST90002103	2	62708494	C	T	2650	0.91	0.19	0.00	0.01	22.19
rs183860421	CD39+ resting Treg	ebi-a-GCST90002103	2	38042606	T	C	2650	0.43	0.10	0.00	0.01	19.69
rs145947216	CD39+ resting Treg	ebi-a-GCST90002103	2	38596674	T	C	2650	0.38	0.08	0.00	0.01	24.65
rs1405788	CD39+ resting Treg	ebi-a-GCST90002103	3	39789191	C	T	2650	0.14	0.03	0.00	0.01	22.69
rs116682768	CD39+ resting Treg	ebi-a-GCST90002103	3	22257995	A	G	2650	0.95	0.20	0.00	0.01	22.98
rs114748919	CD39+ resting Treg	ebi-a-GCST90002103	4	122946186	C	T	2650	-0.49	0.11	0.00	0.01	20.00
rs55971447	HLA DR on myeloid DC	ebi-a-GCST90002104	1	161515326	T	C	2872	-0.48	0.03	0.00	0.08	234.46
rs72973336	HLA DR on myeloid DC	ebi-a-GCST90002104	2	228879579	A	G	2872	2.15	0.48	0.00	0.01	19.63
rs116607596	HLA DR on myeloid DC	ebi-a-GCST90002104	3	125955606	G	A	2872	0.26	0.05	0.00	0.01	21.98
rs9853546	HLA DR on myeloid DC	ebi-a-GCST90002104	3	73377280	C	T	2872	0.16	0.03	0.00	0.01	22.03
rs3756577	HLA DR on myeloid DC	ebi-a-GCST90002104	5	149628644	T	C	2872	-0.24	0.05	0.00	0.01	19.88
rs35525122	HLA DR on myeloid DC	ebi-a-GCST90002104	6	32561283	A	C	2872	0.85	0.05	0.00	0.10	307.86
rs9267650	HLA DR on myeloid DC	ebi-a-GCST90002104	6	31824912	T	A	2872	-0.25	0.04	0.00	0.02	45.40
rs1634738	HLA DR on myeloid DC	ebi-a-GCST90002104	6	31284067	A	G	2872	-0.17	0.03	0.00	0.01	27.38
rs116007826	HLA DR on myeloid DC	ebi-a-GCST90002104	6	31569745	G	A	2872	0.80	0.06	0.00	0.06	176.81
rs6925683	HLA DR on myeloid DC	ebi-a-GCST90002104	6	33894292	G	T	2872	0.29	0.04	0.00	0.02	45.33
rs29221	HLA DR on myeloid DC	ebi-a-GCST90002104	6	29589124	G	C	2872	0.31	0.04	0.00	0.02	57.30

rs2858885	HLA DR on myeloid DC	ebi-a-GCST90002104	6	32699782	T	C	2872	-0.32	0.03	0.00	0.04	106.99
rs144823164	HLA DR on myeloid DC	ebi-a-GCST90002104	6	22385857	G	C	2872	-0.52	0.12	0.00	0.01	19.79
rs34618458	HLA DR on myeloid DC	ebi-a-GCST90002104	7	806948	C	A	2872	1.67	0.35	0.00	0.01	23.02
rs11979208	HLA DR on myeloid DC	ebi-a-GCST90002104	7	80529639	C	T	2872	0.25	0.05	0.00	0.01	21.43
rs142640535	HLA DR on myeloid DC	ebi-a-GCST90002104	8	122566151	G	T	2872	-2.02	0.43	0.00	0.01	22.14
rs74134806	HLA DR on myeloid DC	ebi-a-GCST90002104	10	54787061	G	A	2872	0.84	0.19	0.00	0.01	20.45
rs9533322	HLA DR on myeloid DC	ebi-a-GCST90002104	13	43546618	T	C	2872	-0.30	0.07	0.00	0.01	20.41
rs42362	HLA DR on myeloid DC	ebi-a-GCST90002104	16	9438363	C	G	2872	0.19	0.03	0.00	0.01	37.00
rs62176112	plasmacytoid DC	ebi-a-GCST90002105	2	179315726	A	G	2872	-0.66	0.12	0.00	0.01	30.59
rs11731221	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	4	84168891	G	C	2872	-0.14	0.03	0.00	0.01	24.27
rs115770777	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	4	26859610	T	C	2872	0.20	0.04	0.00	0.01	20.08
rs952839	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	5	86099942	A	G	2872	0.54	0.11	0.00	0.01	22.30
rs9296042	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	6	32736005	T	C	2872	-0.29	0.03	0.00	0.03	93.40
rs9267650	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	6	31824912	T	A	2872	-0.39	0.04	0.00	0.04	112.65
rs2496370	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	6	49127467	A	T	2872	-0.91	0.21	0.00	0.01	19.64
rs16894020	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	6	28340245	A	G	2872	0.56	0.11	0.00	0.01	24.42
rs200819	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	6	97857419	G	A	2872	-0.37	0.08	0.00	0.01	19.65
rs116007826	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	6	31569745	G	A	2872	0.75	0.06	0.00	0.05	150.82
rs7748976	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	6	33890451	A	G	2872	0.23	0.04	0.00	0.01	32.51
rs34039593	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	6	32570311	G	T	2872	1.22	0.04	0.00	0.21	744.06
rs29221	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	6	29589124	G	C	2872	0.32	0.04	0.00	0.02	61.96
rs16890461	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	8	41189599	T	C	2872	0.21	0.04	0.00	0.01	22.62
rs10812812	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	9	28412352	A	T	2872	-0.27	0.06	0.00	0.01	20.37
rs11615578	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	12	121714935	T	C	2872	-0.15	0.03	0.00	0.01	19.74
rs11615028	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	12	41040386	G	A	2872	1.51	0.33	0.00	0.01	20.77
rs144816332	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	14	67537526	A	G	2872	-0.82	0.18	0.00	0.01	20.91
rs11644019	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	16	10863414	T	C	2872	-0.29	0.04	0.00	0.02	55.69

rs1646067	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	16	11319045	A	G	2872	0.13	0.03	0.00	0.01	19.98
rs7204799	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	16	11004549	G	C	2872	0.54	0.08	0.00	0.02	43.91
rs118111544	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	17	55035000	A	T	2872	-0.56	0.12	0.00	0.01	23.19
rs12607423	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	18	67084661	T	C	2872	-0.16	0.03	0.00	0.01	22.09
rs146863538	HLA DR on plasmacytoid DC	ebi-a-GCST90002105	19	19396439	C	A	2872	1.97	0.40	0.00	0.01	23.89
rs55971447	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	1	161515326	T	C	2871	-0.34	0.03	0.00	0.04	114.58
rs12140470	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	1	115683097	A	C	2871	-0.18	0.04	0.00	0.01	22.55
rs13064098	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	3	73320945	T	C	2871	-0.16	0.03	0.00	0.01	23.04
rs149978880	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	5	66320166	T	C	2871	-0.44	0.10	0.00	0.01	19.59
rs9267650	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	6	31824912	T	A	2871	-0.32	0.04	0.00	0.03	76.69
rs9296042	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	6	32736005	T	C	2871	-0.32	0.03	0.00	0.04	109.74
rs116007826	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	6	31569745	G	A	2871	0.83	0.06	0.00	0.06	189.90
rs34039593	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	6	32570311	G	T	2871	1.08	0.05	0.00	0.16	542.68
rs7748976	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	6	33890451	A	G	2871	0.27	0.04	0.00	0.01	41.36
rs362522	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	6	29545208	T	C	2871	0.32	0.04	0.00	0.02	62.65
rs66680090	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	6	18520529	G	A	2871	-0.15	0.03	0.00	0.01	20.09
rs34618458	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	7	806948	C	A	2871	1.68	0.35	0.00	0.01	23.67
rs4085480	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	8	62151870	A	G	2871	0.36	0.08	0.00	0.01	20.78
rs117673964	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	8	60190262	T	A	2871	0.52	0.11	0.00	0.01	20.42
rs11251654	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	10	3075772	A	G	2871	0.18	0.04	0.00	0.01	20.22
rs9532060	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	13	38046720	A	G	2871	0.33	0.07	0.00	0.01	19.63
rs191565346	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	13	90363666	A	G	2871	0.92	0.20	0.00	0.01	21.89
rs7204799	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	16	11004549	G	C	2871	0.45	0.08	0.00	0.01	28.72
rs17794301	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	16	6085213	G	C	2871	1.10	0.24	0.00	0.01	21.78
rs140657974	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	16	8010586	A	G	2871	0.78	0.15	0.00	0.01	27.51
rs11644019	HLA DR on plasmacytoid DC	ebi-a-GCST90002106	16	10863414	T	C	2871	-0.20	0.04	0.00	0.01	24.40
rs56947008	HLA DR on HSC	ebi-a-GCST90002107	2	104722210	T	A	1634	-0.86	0.19	0.00	0.01	20.88
rs79232278	HLA DR on HSC	ebi-a-GCST90002107	3	68515938	T	C	1634	-0.51	0.11	0.00	0.01	20.40
rs6779181	HLA DR on HSC	ebi-a-GCST90002107	3	10960562	G	A	1634	-0.72	0.16	0.00	0.01	20.49
rs114459693	HLA DR on HSC	ebi-a-GCST90002107	3	150331124	G	A	1634	-1.04	0.23	0.00	0.01	20.58
rs9834298	HLA DR on HSC	ebi-a-GCST90002107	3	81341469	C	G	1634	0.72	0.16	0.00	0.01	20.42
rs148887724	HLA DR on HSC	ebi-a-GCST90002107	3	101266753	G	A	1634	1.42	0.31	0.00	0.01	21.09
rs142397031	HLA DR on HSC	ebi-a-GCST90002107	5	8721320	T	C	1634	1.51	0.34	0.00	0.01	20.22
rs76743559	HLA DR on CD33br HLA DR+ CD14-	ebi-a-GCST90002108	1	247591691	G	A	1579	-2.18	0.48	0.00	0.01	20.61

rs114267024	HLA DR on CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	2	39668818	A	G	1579	-1.27	0.28	0.00	0.01	20.40
rs1424773	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	2	108017810	A	T	1579	-0.19	0.04	0.00	0.01	21.43
rs146788953	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	3	19007547	A	G	1579	-0.48	0.10	0.00	0.01	22.88
rs57623845	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	4	114672008	C	A	1579	-0.21	0.04	0.00	0.02	24.25
rs71600299	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	5	6766557	A	G	1579	-0.18	0.04	0.00	0.01	20.89
rs523727	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	6	31768800	G	A	1579	-0.35	0.04	0.00	0.04	64.39
rs116007826	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	6	31569745	G	A	1579	0.66	0.08	0.00	0.04	74.03
rs9269027	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	6	32437466	T	A	1579	0.49	0.04	0.00	0.09	164.21
rs77072921	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	6	52346566	T	C	1579	2.04	0.45	0.00	0.01	20.88
rs238873	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	6	29351641	G	A	1579	0.56	0.10	0.00	0.02	29.50
rs6925683	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	6	33894292	G	T	1579	0.29	0.06	0.00	0.02	27.00
rs9270588	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	6	32561327	T	C	1579	-0.60	0.04	0.00	0.13	233.95
rs847842	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	6	34915073	A	G	1579	0.25	0.06	0.00	0.01	20.45
rs77506340	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	7	128764737	T	C	1579	0.41	0.09	0.00	0.01	19.66
rs147951036	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	7	78355906	A	G	1579	-0.74	0.15	0.00	0.01	23.77
rs117798915	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	12	103202798	A	G	1579	-0.84	0.18	0.00	0.01	20.84
rs9526485	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	13	49246943	A	G	1579	-0.84	0.19	0.00	0.01	20.44
rs7325866	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	13	51608785	T	C	1579	-1.55	0.34	0.00	0.01	20.67
rs78122038	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	14	107253542	G	C	1579	-1.83	0.39	0.00	0.01	22.28
rs36037794	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	16	5929011	G	C	1579	0.48	0.11	0.00	0.01	19.70
rs71363011	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	18	46154251	T	G	1579	-0.35	0.08	0.00	0.01	20.08
rs112096735	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	19	11733838	T	G	1579	-0.29	0.06	0.00	0.01	22.42
rs79269061	CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	20	5759975	T	C	1579	1.20	0.27	0.00	0.01	20.48
rs16987905	CD33br HLA DR+ CD14-	ebi-a-GCST90002108	20	37940679	G	A	1579	-0.26	0.06	0.00	0.01	21.86

rs186879638	HLA DR on CD33br HLA DR+ CD14- HLA DR on	ebi-a-GCST90002108	21	22100611	T	C	1579	0.47	0.10	0.00	0.01	22.63
rs76111665	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	1	240278560	A	T	1578	2.30	0.47	0.00	0.01	23.60
rs12987451	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	2	108014254	G	A	1578	-0.19	0.04	0.00	0.01	20.39
rs146788953	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	3	19007547	A	G	1578	-0.46	0.10	0.00	0.01	20.51
rs9846278	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	3	54068119	T	C	1578	-0.37	0.08	0.00	0.01	21.26
rs112878149	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	4	184499212	C	G	1578	-0.46	0.10	0.00	0.01	21.73
rs7667073	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	4	126165609	A	G	1578	0.18	0.04	0.00	0.01	20.94
rs72667899	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	4	108205128	C	T	1578	-1.48	0.33	0.00	0.01	20.31
rs613165	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	6	31834398	A	G	1578	-0.28	0.04	0.00	0.02	40.07
rs111404935	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	6	66907682	C	T	1578	-0.40	0.08	0.00	0.02	26.36
rs9346529	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	6	168576827	A	G	1578	-0.16	0.04	0.00	0.01	20.09
rs6912516	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	6	152114121	T	C	1578	0.59	0.13	0.00	0.01	19.95
rs9270588	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	6	32561327	T	C	1578	-0.43	0.04	0.00	0.07	114.26
rs142186496	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	6	31473707	G	A	1578	0.46	0.08	0.00	0.02	35.34
rs9269027	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	6	32437466	T	A	1578	0.33	0.04	0.00	0.04	71.99
rs142241717	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	8	82111249	A	T	1578	0.51	0.11	0.00	0.01	22.34
rs2094597	CD33br HLA DR+ CD14dim HLA DR on	ebi-a-GCST90002109	9	31813280	T	C	1578	-0.17	0.04	0.00	0.01	20.69
rs7478464	CD33br HLA DR+ CD14dim	ebi-a-GCST90002109	10	5615210	G	A	1578	0.23	0.05	0.00	0.01	20.64

rs393073	HLA DR on CD33br HLA DR+	ebi-a-GCST90002109	10	55249364	T	A	1578	-0.17	0.04	0.00	0.01	19.92
rs79485969	CD14dim HLA DR on CD33br HLA DR+	ebi-a-GCST90002109	14	34680388	T	C	1578	0.33	0.07	0.00	0.01	20.26
rs2115412	CD14dim HLA DR on CD33br HLA DR+	ebi-a-GCST90002109	16	9425538	C	G	1578	0.39	0.08	0.00	0.02	24.05
rs34813869	CD14dim HLA DR on CD33br HLA DR+	ebi-a-GCST90002109	19	51737121	G	A	1578	0.23	0.05	0.00	0.02	25.11
rs11701225	CD14dim HLA DR on CD33br HLA DR+	ebi-a-GCST90002109	21	44598827	A	G	1578	0.24	0.05	0.00	0.01	19.94
rs1801274	CD14dim HLA DR on CD33dim HLA DR+	ebi-a-GCST90002110	1	161479745	G	A	1634	-0.19	0.04	0.00	0.01	23.03
rs76870855	CD11b+ HLA DR on CD33dim HLA DR+	ebi-a-GCST90002110	1	183457090	C	T	1634	2.33	0.49	0.00	0.01	22.29
rs2887457	CD11b+ HLA DR on CD33dim HLA DR+	ebi-a-GCST90002110	2	185272346	A	T	1634	0.18	0.04	0.00	0.01	20.70
rs13074783	CD11b+ HLA DR on CD33dim HLA DR+	ebi-a-GCST90002110	3	4037838	C	T	1634	0.26	0.06	0.00	0.01	20.32
rs1461277	CD11b+ HLA DR on CD33dim HLA DR+	ebi-a-GCST90002110	3	174918975	G	A	1634	0.18	0.04	0.00	0.01	24.40
rs12485444	CD11b+ HLA DR on CD33dim HLA DR+	ebi-a-GCST90002110	3	188135783	A	T	1634	0.23	0.04	0.00	0.02	40.51
rs412492	CD11b+ HLA DR on CD33dim HLA DR+	ebi-a-GCST90002110	6	32213831	T	A	1634	-0.26	0.05	0.00	0.02	29.88
rs61742525	CD11b+ HLA DR on CD33dim HLA DR+	ebi-a-GCST90002110	6	33072522	A	G	1634	0.41	0.07	0.00	0.02	36.87
rs116632210	CD11b+ HLA DR on CD33dim HLA DR+	ebi-a-GCST90002110	6	37856213	G	A	1634	-0.40	0.09	0.00	0.01	22.16
rs182790	CD11b+ HLA DR on CD33dim HLA DR+	ebi-a-GCST90002110	6	100053560	A	G	1634	-0.20	0.05	0.00	0.01	19.83
rs9269109	CD11b+ HLA DR on CD33dim HLA DR+	ebi-a-GCST90002110	6	32443266	C	T	1634	0.36	0.04	0.00	0.05	79.35
rs6917212	CD11b+ HLA DR on CD33dim HLA DR+	ebi-a-GCST90002110	6	32583005	G	C	1634	-0.48	0.04	0.00	0.07	116.73
rs118175684	CD11b+ CD33dim HLA DR+	ebi-a-GCST90002110	7	121443863	T	C	1634	-0.33	0.07	0.00	0.01	19.98

rs2237423	HLA DR on CD33dim HLA DR+ CD11b+ HLA DR on	ebi-a-GCST900021110	7	42100425	C	T	1634	-0.21	0.04	0.00	0.01	23.74
rs10511609	CD33dim HLA DR+ CD11b+ HLA DR on	ebi-a-GCST900021110	9	15335996	G	A	1634	-0.62	0.12	0.00	0.02	25.63
rs61835728	CD33dim HLA DR+ CD11b+ HLA DR on	ebi-a-GCST900021110	10	10550265	T	C	1634	-0.93	0.21	0.00	0.01	19.96
rs78082697	CD33dim HLA DR+ CD11b+ HLA DR on	ebi-a-GCST900021110	12	133777338	A	G	1634	-1.18	0.26	0.00	0.01	20.03
rs147171620	CD33dim HLA DR+ CD11b+ HLA DR on	ebi-a-GCST900021110	13	46828483	T	C	1634	-0.59	0.13	0.00	0.01	20.30
rs72737163	CD33dim HLA DR+ CD11b+ HLA DR on	ebi-a-GCST900021110	15	39300811	C	T	1634	-0.29	0.06	0.00	0.01	22.54
rs11074934	CD33dim HLA DR+ CD11b+ HLA DR on	ebi-a-GCST900021110	16	10979440	T	C	1634	-0.36	0.04	0.00	0.04	74.45
rs12929277	CD33dim HLA DR+ CD11b+ HLA DR on	ebi-a-GCST900021110	16	10700928	C	T	1634	0.21	0.04	0.00	0.01	23.19
rs142006783	CD33dim HLA DR+ CD11b+ HLA DR on	ebi-a-GCST900021110	16	74651733	C	T	1634	-1.20	0.26	0.00	0.01	20.98
rs5016173	CD33dim HLA DR+ CD11b+ HLA DR on	ebi-a-GCST900021110	20	49233671	C	T	1634	-0.22	0.05	0.00	0.01	21.91
rs113773853	CD33dim HLA DR+ CD11b+ HLA DR on	ebi-a-GCST900021110	22	39607103	C	T	1634	2.61	0.54	0.00	0.01	23.14
rs9790174	CD33dim HLA DR+ CD11b- HLA DR on	ebi-a-GCST900021111	3	174906509	A	G	1635	0.16	0.04	0.00	0.01	20.79
rs56386567	CD33dim HLA DR+ CD11b- HLA DR on	ebi-a-GCST900021111	3	4868895	T	C	1635	-0.16	0.04	0.00	0.01	20.08
rs12485444	CD33dim HLA DR+ CD11b- HLA DR on	ebi-a-GCST900021111	3	188135783	A	T	1635	0.18	0.04	0.00	0.02	25.78
rs2517696	CD33dim HLA DR+ CD11b- HLA DR on	ebi-a-GCST900021111	6	29927611	C	T	1635	-0.24	0.04	0.00	0.02	31.65
rs6917212	CD33dim HLA DR+ CD11b- HLA DR on	ebi-a-GCST900021111	6	32583005	G	C	1635	-0.45	0.04	0.00	0.06	102.30
rs7747856	CD33dim HLA DR+ CD11b- HLA DR on	ebi-a-GCST900021111	6	33889952	T	C	1635	0.25	0.05	0.00	0.01	22.59
rs9269109	CD33dim HLA DR+ CD11b-	ebi-a-GCST900021111	6	32443266	C	T	1635	0.37	0.04	0.00	0.05	84.95

rs61742525	HLA DR on CD33dim HLA DR+	ebi-a-GCST90002111	6	33072522	A	G	1635	0.39	0.07	0.00	0.02	34.67
rs79018836	CD11b- HLA DR on CD33dim HLA DR+	ebi-a-GCST90002111	7	29344179	G	A	1635	1.39	0.30	0.00	0.01	21.33
rs2237423	CD11b- HLA DR on CD33dim HLA DR+	ebi-a-GCST90002111	7	42100425	C	T	1635	-0.19	0.04	0.00	0.01	19.74
rs13226058	CD11b- HLA DR on CD33dim HLA DR+	ebi-a-GCST90002111	7	150536031	A	G	1635	0.96	0.20	0.00	0.01	22.15
rs7797098	CD11b- HLA DR on CD33dim HLA DR+	ebi-a-GCST90002111	7	141012015	C	A	1635	0.23	0.05	0.00	0.01	21.13
rs117936815	CD11b- HLA DR on CD33dim HLA DR+	ebi-a-GCST90002111	10	92271546	C	A	1635	0.41	0.09	0.00	0.01	21.45
rs77638176	CD11b- HLA DR on CD33dim HLA DR+	ebi-a-GCST90002111	11	5106022	C	G	1635	-0.37	0.08	0.00	0.01	19.63
rs12929277	CD11b- HLA DR on CD33dim HLA DR+	ebi-a-GCST90002111	16	10700928	C	T	1635	0.21	0.04	0.00	0.01	24.27
rs55798945	CD11b- HLA DR on CD33dim HLA DR+	ebi-a-GCST90002111	16	669708	G	T	1635	-0.24	0.05	0.00	0.01	21.62
rs11074934	CD11b- HLA DR on CD33dim HLA DR+	ebi-a-GCST90002111	16	10979440	T	C	1635	-0.41	0.04	0.00	0.06	102.34
rs33978622	CD11b- HLA DR on CD33dim HLA DR+	ebi-a-GCST90002111	19	51736383	C	G	1635	0.20	0.04	0.00	0.01	21.17
rs4811082	CD11b- HLA DR on CD33dim HLA DR+	ebi-a-GCST90002111	20	49216966	T	C	1635	-0.20	0.04	0.00	0.01	23.45
rs9310124	CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	3	68608477	C	A	1635	-0.18	0.04	0.00	0.01	24.02
rs78909221	CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	4	8219482	G	A	1635	-1.31	0.29	0.00	0.01	20.21
rs9368784	CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	6	33895001	T	G	1635	0.31	0.06	0.00	0.02	26.55
rs2760980	CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	6	32565201	A	G	1635	1.05	0.06	0.00	0.15	291.81
rs1474618	CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	6	18655570	A	C	1635	-0.17	0.04	0.00	0.01	21.84
rs9279789	CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	6	32571079	C	T	1635	0.71	0.11	0.00	0.02	40.22
rs114068468	CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	6	33054463	T	C	1635	0.37	0.07	0.00	0.02	31.32
rs9268430	CD33- HLA DR+	ebi-a-GCST90002112	6	32345429	C	A	1635	-0.45	0.04	0.00	0.06	100.86

rs11576012	HLA DR on CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	6	31795619	T	C	1635	0.43	0.08	0.00	0.02	28.05
rs140697652	HLA DR on CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	7	101713394	C	T	1635	0.58	0.13	0.00	0.01	20.80
rs28714544	HLA DR on CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	7	213189	G	C	1635	0.19	0.04	0.00	0.01	20.77
rs79778131	HLA DR on CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	11	94044559	A	G	1635	-1.42	0.32	0.00	0.01	20.05
rs775443	HLA DR on CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	12	70122623	T	C	1635	-0.51	0.11	0.00	0.01	23.12
rs9545905	HLA DR on CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	13	82450885	G	A	1635	0.17	0.04	0.00	0.01	20.69
rs928189	HLA DR on CD33- HLA DR+ HLA DR on	ebi-a-GCST90002112	13	94559274	C	T	1635	-0.19	0.04	0.00	0.01	21.77
rs17512470	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	1	60755909	A	G	3060	-0.33	0.07	0.00	0.01	20.23
rs609101	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	1	181413584	T	C	3060	0.20	0.05	0.00	0.01	19.68
rs34590422	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	2	192127400	A	C	3060	0.12	0.03	0.00	0.01	20.74
rs4588375	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	3	161826111	T	A	3060	0.12	0.03	0.00	0.01	19.84
rs74633806	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	4	76114786	C	T	3060	0.33	0.07	0.00	0.01	20.61
rs4565150	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	4	6517066	C	T	3060	-0.13	0.03	0.00	0.01	23.49
rs11931648	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	4	117545645	C	T	3060	0.12	0.03	0.00	0.01	20.79
rs2526231	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	5	128296872	T	A	3060	1.37	0.31	0.00	0.01	19.89
rs11771690	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	7	42031304	G	A	3060	0.83	0.18	0.00	0.01	20.18
rs117406069	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	10	130262493	A	C	3060	0.37	0.08	0.00	0.01	21.90
rs116985795	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	13	105513838	A	G	3060	0.22	0.05	0.00	0.01	19.92
rs2027912	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	14	107045318	C	T	3060	-0.13	0.03	0.00	0.01	20.31
rs146706846	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	15	100671214	T	A	3060	-1.23	0.28	0.00	0.01	19.58
rs12449199	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	16	10968440	G	T	3060	-0.24	0.03	0.00	0.02	76.60
rs246230	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	16	16132880	T	C	3060	0.22	0.04	0.00	0.01	25.02
rs7211380	HLA DR+ T cell HLA DR on	ebi-a-GCST90002113	17	64206768	G	A	3060	0.26	0.05	0.00	0.01	23.61
rs2584732	HLA DR+ T cell	ebi-a-GCST90002113	18	11025325	A	G	3060	-0.12	0.03	0.00	0.01	20.76

rs62131098	HLA DR on HLA DR+ T cell	ebi-a-GCST90002113	19	11396934	A	G	3060	-0.27	0.06	0.00	0.01	21.48
rs55899966	HLA DR on HLA DR+ T cell	ebi-a-GCST90002113	20	361668	T	C	3060	0.19	0.04	0.00	0.01	20.55
rs115943613	HLA DR on CD4+ HLA DR on	ebi-a-GCST90002114	2	40943702	A	T	3060	0.43	0.08	0.00	0.01	25.71
rs78191148	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	4	89583183	G	A	3060	-0.61	0.14	0.00	0.01	20.34
rs13175786	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	5	7447525	C	T	3060	-0.20	0.04	0.00	0.01	22.21
rs12206101	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	6	77973938	A	G	3060	-0.26	0.06	0.00	0.01	19.68
rs9391881	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	6	32443432	G	C	3060	0.13	0.03	0.00	0.01	19.94
rs9480594	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	6	106183999	T	C	3060	0.35	0.08	0.00	0.01	19.99
rs112529964	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	6	135284472	T	C	3060	0.48	0.11	0.00	0.01	20.55
rs76903247	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	6	163955747	T	C	3060	-0.17	0.04	0.00	0.01	19.95
rs17639764	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	7	104606411	C	A	3060	0.21	0.05	0.00	0.01	20.45
rs544627737	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	7	22746599	G	T	3060	-0.63	0.14	0.00	0.01	20.40
rs138947942	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	9	96558710	A	G	3060	0.30	0.07	0.00	0.01	20.63
rs61852195	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	10	57794952	C	T	3060	0.53	0.12	0.00	0.01	20.04
rs183943359	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	11	112685081	T	C	3060	0.63	0.14	0.00	0.01	19.76
rs6591057	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	11	103771107	C	T	3060	-0.13	0.03	0.00	0.01	22.70
rs148090091	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	12	131767379	C	G	3060	-0.38	0.09	0.00	0.01	19.66
rs75576656	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	15	31542075	T	C	3060	0.19	0.04	0.00	0.01	20.58
rs10438450	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	15	94577671	C	T	3060	-0.43	0.10	0.00	0.01	20.58
rs12449199	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	16	10968440	G	T	3060	-0.17	0.03	0.00	0.01	36.37
rs4310973	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	18	20707622	G	A	3060	-0.13	0.03	0.00	0.01	20.95
rs76600563	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	18	864027	T	A	3060	0.19	0.04	0.00	0.01	20.60
rs55899966	HLA DR+ CD4+ HLA DR on	ebi-a-GCST90002114	20	361668	T	C	3060	0.19	0.04	0.00	0.01	21.32
rs5994871	HLA DR+ CD4+	ebi-a-GCST90002114	22	22091244	T	C	3060	0.12	0.03	0.00	0.01	19.65

rs76623705	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	2	67624799	G	C	3060	0.69	0.15	0.00	0.01	20.10
rs115681509	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	4	25796677	A	G	3060	-0.16	0.04	0.00	0.01	19.72
rs9388722	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	6	129982285	G	A	3060	0.12	0.03	0.00	0.01	23.08
rs62450275	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	7	15298727	G	A	3060	-0.15	0.03	0.00	0.01	20.39
rs7026621	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	9	29448508	C	T	3060	0.42	0.08	0.00	0.01	26.09
rs10815977	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	9	8860355	A	G	3060	0.14	0.03	0.00	0.01	20.88
rs2820900	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	9	7206216	C	G	3060	0.13	0.03	0.00	0.01	21.13
rs73211935	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	12	118047225	T	C	3060	0.51	0.11	0.00	0.01	22.30
rs111484143	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	13	93687655	G	C	3060	0.29	0.06	0.00	0.01	21.78
rs1927344	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	13	111053219	A	G	3060	-0.13	0.03	0.00	0.01	20.15
rs142342151	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	14	104847658	C	A	3060	-0.65	0.14	0.00	0.01	21.00
rs6498116	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	16	10969282	T	A	3060	-0.13	0.03	0.00	0.01	19.80
rs73513895	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	16	10811814	T	C	3060	-0.36	0.08	0.00	0.01	20.68
rs11651897	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	17	64739971	G	A	3060	0.32	0.07	0.00	0.01	23.15
rs7406446	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	17	80979162	A	C	3060	-0.12	0.03	0.00	0.01	19.87
rs11651658	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	17	64198640	C	T	3060	0.25	0.05	0.00	0.01	22.74
rs147748599	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	17	63501173	A	G	3060	0.26	0.06	0.00	0.01	22.55
rs403027	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	19	11406458	T	C	3060	-0.13	0.03	0.00	0.01	19.81
rs74171655	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	20	17906490	C	T	3060	-0.37	0.08	0.00	0.01	23.64
rs9976375	HLA DR on HLA DR+ CD8br	ebi-a-GCST90002115	21	18010539	A	C	3060	0.97	0.21	0.00	0.01	21.52
rs111281233	HLA DR on B cell	ebi-a-GCST90002116	2	230286959	A	C	3060	-0.76	0.15	0.00	0.01	26.10
rs1021867	HLA DR on B cell	ebi-a-GCST90002116	2	8599660	G	A	3060	0.13	0.03	0.00	0.01	19.65
rs144091827	HLA DR on B cell	ebi-a-GCST90002116	2	69187142	A	G	3060	-0.46	0.10	0.00	0.01	21.12
rs144782687	HLA DR on B cell	ebi-a-GCST90002116	4	167696884	G	C	3060	0.93	0.19	0.00	0.01	23.74
rs74405933	HLA DR on B cell	ebi-a-GCST90002116	6	14095755	A	G	3060	-0.77	0.05	0.00	0.07	222.77
rs9379818	HLA DR on B cell	ebi-a-GCST90002116	6	26023206	T	G	3060	-0.14	0.03	0.00	0.01	22.12
rs9271768	HLA DR on B cell	ebi-a-GCST90002116	6	32594188	G	A	3060	0.41	0.03	0.00	0.05	160.35

rs147210938	HLA DR on B cell	ebi-a-GCST90002116	6	13892767	A	G	3060	-0.43	0.07	0.00	0.01	32.88
rs143305120	HLA DR on B cell	ebi-a-GCST90002116	6	13991643	C	T	3060	-0.40	0.07	0.00	0.01	30.29
rs17616631	HLA DR on B cell	ebi-a-GCST90002116	6	12544548	A	G	3060	-0.29	0.05	0.00	0.01	28.58
rs3869145	HLA DR on B cell	ebi-a-GCST90002116	6	31851354	A	G	3060	-0.39	0.06	0.00	0.02	48.15
rs111983490	HLA DR on B cell	ebi-a-GCST90002116	6	32205324	A	G	3060	-0.30	0.04	0.00	0.02	62.12
rs11969859	HLA DR on B cell	ebi-a-GCST90002116	6	44605416	G	C	3060	0.13	0.03	0.00	0.01	20.58
rs9270599	HLA DR on B cell	ebi-a-GCST90002116	6	32561656	A	G	3060	0.56	0.03	0.00	0.09	305.20
rs72880510	HLA DR on B cell	ebi-a-GCST90002116	6	33729188	T	C	3060	0.18	0.04	0.00	0.01	23.54
rs2511702	HLA DR on B cell	ebi-a-GCST90002116	8	103704029	G	A	3060	-0.12	0.03	0.00	0.01	19.77
rs117640098	HLA DR on B cell	ebi-a-GCST90002116	9	91723702	G	A	3060	0.67	0.14	0.00	0.01	22.32
rs79709127	HLA DR on B cell	ebi-a-GCST90002116	9	126838406	T	G	3060	1.67	0.37	0.00	0.01	20.15
rs944963	HLA DR on B cell	ebi-a-GCST90002116	10	131688008	G	A	3060	-0.12	0.03	0.00	0.01	20.07
rs76548433	HLA DR on B cell	ebi-a-GCST90002116	13	77027095	T	C	3060	-1.06	0.24	0.00	0.01	19.66
rs7192768	HLA DR on B cell	ebi-a-GCST90002116	16	11004905	C	T	3060	-0.48	0.03	0.00	0.06	196.41
rs2286975	HLA DR on B cell	ebi-a-GCST90002116	16	11114006	A	G	3060	0.17	0.03	0.00	0.01	33.95
rs74341264	HLA DR on HLA DR+	ebi-a-GCST90002117	1	161561151	A	G	2971	0.22	0.04	0.00	0.01	28.77
rs3845488	HLA DR on HLA DR+	ebi-a-GCST90002117	1	37419029	C	T	2971	-1.24	0.28	0.00	0.01	19.89
rs56199187	HLA DR on HLA DR+	ebi-a-GCST90002117	1	161520931	T	C	2971	-0.48	0.03	0.00	0.07	236.58
rs11901763	HLA DR on HLA DR+	ebi-a-GCST90002117	2	235192580	T	C	2971	0.26	0.06	0.00	0.01	22.95
rs113346886	HLA DR on HLA DR+	ebi-a-GCST90002117	3	43788371	T	A	2971	-0.28	0.06	0.00	0.01	19.61
rs138970824	HLA DR on HLA DR+	ebi-a-GCST90002117	3	4179058	G	A	2971	-0.38	0.08	0.00	0.01	20.58
rs17039221	HLA DR on HLA DR+	ebi-a-GCST90002117	3	14308924	A	G	2971	-0.14	0.03	0.00	0.01	20.98
rs114705966	HLA DR on HLA DR+	ebi-a-GCST90002117	5	150304121	C	G	2971	-0.47	0.11	0.00	0.01	19.67
rs805288	HLA DR on HLA DR+	ebi-a-GCST90002117	6	31678028	T	C	2971	-0.18	0.03	0.00	0.01	37.86
rs9268628	HLA DR on HLA DR+	ebi-a-GCST90002117	6	32405865	C	A	2971	-0.30	0.03	0.00	0.03	101.42
rs885947	HLA DR on HLA DR+	ebi-a-GCST90002117	6	29696656	A	G	2971	0.26	0.05	0.00	0.01	30.20
rs73747338	HLA DR on HLA DR+	ebi-a-GCST90002117	6	33798041	T	C	2971	0.22	0.05	0.00	0.01	22.98
rs419434	HLA DR on HLA DR+	ebi-a-GCST90002117	6	32986749	A	G	2971	-0.19	0.04	0.00	0.01	20.75
rs4959613	HLA DR on HLA DR+	ebi-a-GCST90002117	6	1835403	A	C	2971	-0.14	0.03	0.00	0.01	22.55
rs139174173	HLA DR on HLA DR+	ebi-a-GCST90002117	6	32592834	A	C	2971	0.50	0.08	0.00	0.01	39.54
rs111660650	HLA DR on HLA DR+	ebi-a-GCST90002117	6	135147576	T	C	2971	-1.34	0.29	0.00	0.01	21.38
rs117172940	HLA DR on HLA DR+	ebi-a-GCST90002117	7	26706043	T	A	2971	3.29	0.70	0.00	0.01	22.07
rs9297556	HLA DR on HLA DR+	ebi-a-GCST90002117	8	117469352	C	T	2971	-0.13	0.03	0.00	0.01	19.92
rs2065798	HLA DR on HLA DR+	ebi-a-GCST90002117	13	20793579	C	T	2971	0.13	0.03	0.00	0.01	20.50
rs55813952	HLA DR on HLA DR+	ebi-a-GCST90002117	14	101223876	G	A	2971	-0.61	0.14	0.00	0.01	19.83
rs74876321	HLA DR on HLA DR+	ebi-a-GCST90002117	16	78808938	T	C	2971	-0.27	0.05	0.00	0.01	23.79
rs12598451	HLA DR on HLA DR+	ebi-a-GCST90002117	16	10982607	A	G	2971	-0.38	0.03	0.00	0.05	145.47

rs12929277	HLA DR on HLA DR+	ebi-a-GCST90002117	16	10700928	C	T	2971	0.15	0.03	0.00	0.01	21.02
rs739438	HLA DR on HLA DR+	ebi-a-GCST90002117	17	26689712	G	C	2971	0.20	0.04	0.00	0.01	21.55
rs55831773	HLA DR on HLA DR+	ebi-a-GCST90002117	17	7559037	T	C	2971	0.18	0.04	0.00	0.01	19.67
rs11260062	HLA DR on HLA DR+	ebi-a-GCST90002117	19	8214970	C	A	2971	0.14	0.03	0.00	0.01	21.76
rs13052008	HLA DR on HLA DR+	ebi-a-GCST90002117	21	25055193	A	G	2971	-0.22	0.05	0.00	0.01	20.62
rs738649	HLA DR on HLA DR+	ebi-a-GCST90002117	22	26623368	A	T	2971	-0.20	0.04	0.00	0.01	23.74
rs12046688	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	1	47599360	G	A	2920	0.19	0.04	0.00	0.01	22.32
rs1235080	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	1	192838446	A	T	2920	0.13	0.03	0.00	0.01	23.06
rs13004867	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	2	86982504	G	C	2920	-0.50	0.04	0.00	0.05	141.77
rs10181413	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	2	80959711	A	G	2920	0.15	0.03	0.00	0.01	26.88
rs10185095	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	2	85517590	C	T	2920	0.12	0.03	0.00	0.01	20.50
rs59998168	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	2	145331724	C	T	2920	0.13	0.03	0.00	0.01	20.81
rs145728549	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	2	101907011	G	A	2920	-0.83	0.18	0.00	0.01	20.07
rs58007649	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	3	128289541	A	G	2920	0.20	0.04	0.00	0.01	22.94
rs4241667	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	4	66441067	G	A	2920	-0.13	0.03	0.00	0.01	20.61
rs1616538	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	6	31276042	A	C	2920	0.15	0.03	0.00	0.01	20.57
rs9263601	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	6	31071758	C	T	2920	0.20	0.03	0.00	0.01	42.39
rs77892262	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	6	30738211	T	C	2920	-0.21	0.04	0.00	0.01	26.60
rs56262516	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	6	29930939	A	G	2920	0.25	0.04	0.00	0.02	52.02
rs34862764	CD28+ CD45RA- CD8br CD8 on	ebi-a-GCST90002118	8	135741562	T	C	2920	-0.13	0.03	0.00	0.01	21.45
rs80304304	CD28+ CD45RA- CD8br	ebi-a-GCST90002118	10	80313233	G	A	2920	0.24	0.05	0.00	0.01	20.81

rs117410826	CD8 on CD28+ CD45RA-	ebi-a-GCST90002118	20	17336549	T	G	2920	0.23	0.05	0.00	0.01	19.96
rs184303531	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	1	237230229	A	G	2920	0.70	0.16	0.00	0.01	19.71
rs517004	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	1	18664626	T	G	2920	0.55	0.12	0.00	0.01	20.13
rs1356625	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	2	86022747	C	T	2920	0.19	0.03	0.00	0.02	50.68
rs938487	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	2	87009488	G	A	2920	-0.52	0.03	0.00	0.09	305.86
rs149943125	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	2	102826146	C	A	2920	-0.96	0.18	0.00	0.01	28.27
rs13024436	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	2	86534521	A	G	2920	0.16	0.03	0.00	0.01	32.87
rs10205992	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	2	87279109	T	C	2920	-0.30	0.03	0.00	0.04	123.98
rs4691190	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	4	166319020	C	G	2920	0.14	0.03	0.00	0.01	23.02
rs116619343	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	5	9335253	C	G	2920	-0.64	0.14	0.00	0.01	20.26
rs12660712	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	6	29734634	A	C	2920	-0.28	0.05	0.00	0.01	32.73
rs28747043	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	6	32655508	G	A	2920	-0.15	0.03	0.00	0.01	20.73
rs130065	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	6	31122500	A	G	2920	-0.31	0.04	0.00	0.02	59.78
rs58853189	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	6	41532904	A	G	2920	0.15	0.03	0.00	0.01	19.62
rs1264570	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	6	30365210	T	C	2920	0.20	0.03	0.00	0.01	36.88
rs6903896	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	6	31168029	A	G	2920	-0.34	0.05	0.00	0.02	55.07
rs10091979	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	8	124435289	A	G	2920	0.12	0.03	0.00	0.01	20.54
rs56250120	CD8br CD28+ CD45RA+	ebi-a-GCST90002119	9	120599704	T	C	2920	0.13	0.03	0.00	0.01	21.55

rs191051785	CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	10	32003966	G	A	2920	-1.16	0.25	0.00	0.01	21.54
rs7935549	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	11	134312341	T	C	2920	-0.13	0.03	0.00	0.01	20.71
rs201585667	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	11	248811116	C	A	2920	-0.19	0.04	0.00	0.01	20.59
rs404977	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	11	35132267	G	A	2920	0.13	0.03	0.00	0.01	20.97
rs76872865	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	12	10727673	G	A	2920	0.19	0.04	0.00	0.01	20.88
rs141200631	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	13	94482351	G	T	2920	0.96	0.21	0.00	0.01	21.08
rs80190728	CD8br CD8 on CD28+ CD45RA+	ebi-a-GCST90002119	17	47474902	G	A	2920	-0.42	0.09	0.00	0.01	20.42
rs11121500	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	1	6279616	G	A	2920	-0.22	0.05	0.00	0.01	20.98
rs960502	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	1	55612278	C	T	2920	0.27	0.06	0.00	0.01	20.49
rs7425430	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	2	87056480	G	A	2920	-0.22	0.03	0.00	0.02	46.34
rs183795272	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	2	225921583	G	C	2920	0.40	0.09	0.00	0.01	19.96
rs533695182	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	2	88045094	T	C	2920	-0.33	0.07	0.00	0.01	22.41
rs9998963	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	4	155857432	T	A	2920	-0.16	0.03	0.00	0.01	22.86
rs9884179	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	4	116408927	A	G	2920	0.13	0.03	0.00	0.01	20.91
rs13157900	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	5	79654971	C	A	2920	-0.14	0.03	0.00	0.01	20.62
rs78689026	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	6	30740038	A	G	2920	-0.19	0.04	0.00	0.01	23.10
rs56262516	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	6	29930939	A	G	2920	0.23	0.03	0.00	0.02	46.25
rs9263601	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	6	31071758	C	T	2920	0.18	0.03	0.00	0.01	34.65
rs12537451	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	7	49270809	T	C	2920	-0.22	0.05	0.00	0.01	22.70
rs143440491	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	7	46541742	T	C	2920	-0.34	0.07	0.00	0.01	22.00
rs147279479	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	7	145302741	A	G	2920	-0.34	0.07	0.00	0.01	21.73
rs2588120	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	8	17465263	A	G	2920	-0.15	0.03	0.00	0.01	20.20
rs11014701	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	10	25999240	A	C	2920	0.13	0.03	0.00	0.01	20.14
rs189927142	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	10	27516755	C	T	2920	-0.40	0.08	0.00	0.01	24.20
rs80155370	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	11	35632392	G	A	2920	0.33	0.07	0.00	0.01	20.30
rs7134487	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	12	108486680	A	G	2920	-0.40	0.08	0.00	0.01	26.28
rs62034403	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	16	78368600	C	A	2920	0.19	0.04	0.00	0.01	25.72
rs6139531	CD8br CD8 on CD28- CD8br	ebi-a-GCST90002120	20	4707066	C	G	2920	-0.16	0.04	0.00	0.01	22.03
rs144661184	CD8br CD8 on CD39+	ebi-a-GCST90002121	1	67934641	C	T	2915	-0.44	0.10	0.00	0.01	20.80
rs13017213	CD8br CD8 on CD39+	ebi-a-GCST90002121	2	79976286	C	T	2915	-0.13	0.03	0.00	0.01	23.71

rs76748045	CD8 on CD39+	ebi-a-GCST90002121	2	21986200	T	C	2915	-0.24	0.05	0.00	0.01	19.61
rs75482992	CD8 on CD39+	ebi-a-GCST90002121	2	237394959	A	G	2915	-0.31	0.07	0.00	0.01	19.75
rs72847706	CD8 on CD39+	ebi-a-GCST90002121	2	87055981	C	T	2915	-0.26	0.03	0.00	0.02	63.95
rs75071804	CD8 on CD39+	ebi-a-GCST90002121	2	14847536	T	A	2915	0.43	0.09	0.00	0.01	22.34
rs148989317	CD8 on CD39+	ebi-a-GCST90002121	3	59931183	T	C	2915	-0.61	0.13	0.00	0.01	23.05
rs75329937	CD8 on CD39+	ebi-a-GCST90002121	3	194563616	C	T	2915	-0.32	0.07	0.00	0.01	20.44
rs9284960	CD8 on CD39+	ebi-a-GCST90002121	5	17107957	T	C	2915	-0.35	0.08	0.00	0.01	21.13
rs3128900	CD8 on CD39+	ebi-a-GCST90002121	6	29833057	T	G	2915	0.18	0.04	0.00	0.01	19.87
rs55740958	CD8 on CD39+	ebi-a-GCST90002121	6	32073700	T	C	2915	-0.21	0.04	0.00	0.01	27.65
rs17197199	CD8 on CD39+	ebi-a-GCST90002121	6	31138472	T	C	2915	-0.28	0.04	0.00	0.01	42.74
rs9357097	CD8 on CD39+	ebi-a-GCST90002121	6	30285121	T	C	2915	0.19	0.03	0.00	0.02	47.10
rs111359007	CD8 on CD39+	ebi-a-GCST90002121	6	31761201	A	T	2915	-0.28	0.05	0.00	0.01	34.24
rs140045313	CD8 on CD39+	ebi-a-GCST90002121	7	96366491	G	A	2915	1.30	0.29	0.00	0.01	19.71
rs10974005	CD8 on CD39+	ebi-a-GCST90002121	9	38733270	C	G	2915	-0.15	0.03	0.00	0.01	23.41
rs11008428	CD8 on CD39+	ebi-a-GCST90002121	10	31536806	C	T	2915	-0.33	0.07	0.00	0.01	21.72
rs117519014	CD8 on CD39+	ebi-a-GCST90002121	10	97403248	A	C	2915	0.44	0.07	0.00	0.01	42.66
rs4237773	CD8 on CD39+	ebi-a-GCST90002121	11	6031584	C	G	2915	0.13	0.03	0.00	0.01	19.93
rs17635782	CD8 on CD39+	ebi-a-GCST90002121	11	38978717	A	G	2915	0.14	0.03	0.00	0.01	21.03
rs1493960	CD8 on CD39+	ebi-a-GCST90002121	11	12344362	C	T	2915	0.17	0.04	0.00	0.01	23.73
rs34134566	CD8 on CD39+	ebi-a-GCST90002121	14	91842928	T	C	2915	-0.14	0.03	0.00	0.01	20.46
rs112485259	CD8 on CD39+	ebi-a-GCST90002121	16	52061326	C	T	2915	0.30	0.07	0.00	0.01	20.50
rs71382764	CD8 on CD39+	ebi-a-GCST90002121	16	49736424	C	G	2915	-0.28	0.06	0.00	0.01	20.49
rs17634993	CD8 on CD39+	ebi-a-GCST90002121	17	38679607	T	C	2915	-0.50	0.11	0.00	0.01	19.75

Table S4. IVs extraction of plasma metabolites

SNP	Trait	ID	Chromo	Position	Effect allele	Other allele	Sample size	Beta	Se	P-val	R2	F
rs7537155	Carnitine	GCST90199621	1	18880127	A	G	8192	-0.09	0.02	0.00	0.00	21.93
rs78562549	Carnitine	GCST90199621	2	36068755	T	G	8192	0.39	0.09	0.00	0.00	20.05
rs4254516	Carnitine	GCST90199621	2	112944230	C	G	8192	-0.07	0.02	0.00	0.00	21.18
rs12692101	Carnitine	GCST90199621	2	129893296	T	A	8192	-0.08	0.02	0.00	0.00	26.01
rs13026148	Carnitine	GCST90199621	2	214649844	A	G	8192	-0.07	0.02	0.00	0.00	19.80
rs73025372	Carnitine	GCST90199621	3	15272857	G	A	8192	0.16	0.03	0.00	0.00	20.71
rs115168226	Carnitine levels	GCST90199621	4	39615371	G	A	8192	-0.45	0.10	0.00	0.00	21.17
rs10006723	Carnitine	GCST90199621	4	101752577	T	G	8192	0.17	0.03	0.00	0.00	24.50
rs1511808	Carnitine	GCST90199621	4	188424754	T	C	8192	-0.07	0.02	0.00	0.00	19.65
rs7705826	Carnitine	GCST90199621	5	132396764	G	T	8192	0.20	0.02	0.00	0.01	94.54
rs149235996	Carnitine levels	GCST90199621	5	151340348	G	A	8192	-0.57	0.07	0.00	0.01	66.00
rs72836546	Carnitine	GCST90199621	6	14093088	T	C	8192	-0.09	0.02	0.00	0.00	25.17
rs112819917	Carnitine levels	GCST90199621	6	58310440	A	G	8192	-0.44	0.09	0.00	0.00	26.25
rs13247874	Carnitine	GCST90199621	7	73596112	T	C	8192	-0.10	0.02	0.00	0.00	28.01
rs78428648	Carnitine	GCST90199621	8	115036848	A	G	8192	0.18	0.04	0.00	0.00	20.01
rs79717472	Carnitine	GCST90199621	9	120853883	G	A	8192	-0.22	0.05	0.00	0.00	22.30
rs76187828	Carnitine	GCST90199621	10	33762953	G	A	8192	-0.12	0.03	0.00	0.00	19.77
rs10900223	Carnitine	GCST90199621	10	45526183	C	T	8192	-0.11	0.02	0.00	0.00	35.82
rs10826332	Carnitine	GCST90199621	10	59620508	A	T	8192	-0.14	0.03	0.00	0.00	24.63
rs1171617	Carnitine	GCST90199621	10	59707424	T	G	8192	0.44	0.02	0.00	0.07	606.96
rs138190991	Carnitine levels	GCST90199621	10	59984318	A	T	8192	-0.21	0.04	0.00	0.00	22.35
rs55775057	Carnitine	GCST90199621	11	20146362	A	G	8192	-0.10	0.02	0.00	0.00	19.84
rs2512510	Carnitine	GCST90199621	11	80402523	A	G	8192	-0.09	0.02	0.00	0.00	21.79
rs76638161	Carnitine	GCST90199621	11	109223591	T	C	8192	0.19	0.04	0.00	0.00	19.63
rs2625939	Carnitine	GCST90199621	12	94623634	T	C	8192	0.09	0.02	0.00	0.00	21.94
rs1765260	Carnitine	GCST90199621	15	79574005	A	G	8192	-0.10	0.02	0.00	0.00	22.34
rs11871125	Carnitine	GCST90199621	17	19529080	T	C	8192	0.07	0.02	0.00	0.00	21.17
rs73006619	Carnitine	GCST90199621	19	20498107	C	A	8192	-0.17	0.04	0.00	0.00	20.81
rs72638543	Benzoate	GCST90199622	1	6935462	T	C	7306	0.19	0.04	0.00	0.00	21.12
rs9943251	Benzoate	GCST90199622	1	151944639	A	G	7306	0.08	0.02	0.00	0.00	22.10
rs149187032	Benzoate levels	GCST90199622	2	96874928	A	G	7306	-0.34	0.08	0.00	0.00	20.09
rs186382517	Benzoate levels	GCST90199622	2	127497198	C	T	7306	1.05	0.22	0.00	0.00	23.89
rs141054369	Benzoate levels	GCST90199622	2	198163971	T	C	7306	-0.41	0.09	0.00	0.00	20.06
rs62192967	Benzoate	GCST90199622	2	241587764	T	A	7306	-0.16	0.04	0.00	0.00	20.26
rs113989462	Benzoate levels	GCST90199622	3	10119238	G	C	7306	0.30	0.07	0.00	0.00	20.61
rs9863931	Benzoate	GCST90199622	3	65029103	T	C	7306	-0.11	0.02	0.00	0.00	20.38
rs149023824	Benzoate levels	GCST90199622	4	124909398	G	A	7306	0.72	0.16	0.00	0.00	19.71
rs11749139	Benzoate	GCST90199622	5	76692142	G	T	7306	-0.19	0.04	0.00	0.00	19.99
rs73801273	Benzoate	GCST90199622	5	167537696	T	C	7306	0.24	0.05	0.00	0.00	22.61
rs117191976	Benzoate levels	GCST90199622	8	7071429	T	G	7306	0.56	0.12	0.00	0.00	21.19
rs6468762	Benzoate	GCST90199622	8	101217958	A	G	7306	0.32	0.07	0.00	0.00	21.74
rs11166865	Benzoate	GCST90199622	8	138955456	A	C	7306	-0.08	0.02	0.00	0.00	20.64
rs181702052	Benzoate levels	GCST90199622	11	133125620	C	G	7306	0.70	0.14	0.00	0.00	24.76
rs533126002	Benzoate levels	GCST90199622	13	103265932	C	T	7306	0.60	0.13	0.00	0.00	20.64
rs2749463	Benzoate	GCST90199622	14	49018533	C	G	7306	-0.11	0.02	0.00	0.00	22.41
rs11625375	Benzoate	GCST90199622	14	85809056	T	C	7306	-0.20	0.05	0.00	0.00	20.39
rs11070230	Benzoate	GCST90199622	15	39725132	G	A	7306	-0.23	0.05	0.00	0.00	21.12
rs62209511	Benzoate	GCST90199622	21	23369148	T	C	7306	-0.19	0.04	0.00	0.00	20.89
rs7525374	Maltotriose levels	GCST90199623	1	4693997	G	A	4641	0.10	0.02	0.00	0.00	20.03
rs72670481	Maltotriose levels	GCST90199623	1	68255458	T	C	4641	-0.29	0.05	0.00	0.01	32.22
rs79441497	Maltotriose levels	GCST90199623	2	139973386	G	A	4641	0.28	0.06	0.00	0.00	20.25
rs147666382	Maltotriose levels	GCST90199623	2	209703171	A	G	4641	-0.27	0.06	0.00	0.01	24.01
rs113410972	Maltotriose levels	GCST90199623	3	134325888	A	G	4641	0.14	0.03	0.00	0.00	20.87

rs9855944	Maltotriose levels	GCST90199623	3	141700065	A	G	4641	0.10	0.02	0.00	0.00	21.05
rs62317587	Maltotriose levels	GCST90199623	4	58402103	C	A	4641	-0.48	0.10	0.00	0.00	21.15
rs75049736	Maltotriose levels	GCST90199623	5	66323556	G	A	4641	-0.27	0.06	0.00	0.00	21.68
rs117257402	Maltotriose levels	GCST90199623	7	83782516	T	C	4641	0.52	0.11	0.00	0.01	23.96
rs150215008	Maltotriose levels	GCST90199623	8	99994779	T	C	4641	-0.23	0.05	0.00	0.00	20.62
rs150000891	Maltotriose levels	GCST90199623	9	1931505	T	G	4641	-0.32	0.07	0.00	0.00	20.88
rs12340914	Maltotriose levels	GCST90199623	9	18511076	G	A	4641	0.09	0.02	0.00	0.00	19.81
rs1360005	Maltotriose levels	GCST90199623	10	95311303	C	T	4641	0.10	0.02	0.00	0.00	22.14
rs72552153	Maltotriose levels	GCST90199623	11	123627498	A	G	4641	-0.45	0.09	0.00	0.01	23.45
rs3741902	Maltotriose levels	GCST90199623	12	5921136	C	T	4641	-0.11	0.03	0.00	0.00	19.53
rs1426466	Maltotriose levels	GCST90199623	12	107378790	C	T	4641	-0.11	0.03	0.00	0.00	19.53
rs75183407	Maltotriose levels	GCST90199623	12	129779913	T	C	4641	-0.33	0.07	0.00	0.00	23.05
rs1230433	Maltotriose levels	GCST90199623	13	46195297	A	G	4641	-0.11	0.02	0.00	0.01	23.83
rs1254839	Maltotriose levels	GCST90199623	14	61953888	G	A	4641	-0.11	0.02	0.00	0.00	23.28
rs3935534	Maltotriose levels	GCST90199623	15	61386873	C	G	4641	-0.11	0.02	0.00	0.00	21.92
rs78910814	Maltotriose levels	GCST90199623	15	82118868	C	T	4641	-0.25	0.06	0.00	0.00	20.47
rs112191400	Maltotriose levels	GCST90199623	17	75101706	T	C	4641	-0.16	0.04	0.00	0.00	19.82
rs141782806	Maltotriose levels	GCST90199623	21	22791486	C	T	4641	-0.37	0.08	0.00	0.00	21.30
rs6006574	Maltotriose levels	GCST90199623	22	43905879	C	G	4641	0.29	0.06	0.00	0.00	20.91
rs6443435	Hippurate levels	GCST90199624	3	177202726	C	T	8260	0.07	0.02	0.00	0.00	21.94
rs114849156	Hippurate levels	GCST90199624	4	106789058	A	G	8260	0.20	0.04	0.00	0.00	20.65
rs62326335	Hippurate levels	GCST90199624	4	171966715	G	C	8260	-0.09	0.02	0.00	0.00	23.85
rs1505993	Hippurate levels	GCST90199624	5	40519286	T	C	8260	-0.24	0.05	0.00	0.00	21.07
rs76464474	Hippurate levels	GCST90199624	5	124970733	T	G	8260	0.40	0.08	0.00	0.00	23.92
rs375709482	Hippurate levels	GCST90199624	6	114434155	T	C	8260	-0.26	0.06	0.00	0.00	21.13
rs3779084	Hippurate levels	GCST90199624	7	50501037	G	A	8260	0.09	0.02	0.00	0.00	20.98
rs10106654	Hippurate levels	GCST90199624	8	95891757	C	A	8260	0.09	0.02	0.00	0.00	19.77
rs10818729	Hippurate levels	GCST90199624	9	122609637	C	T	8260	-0.07	0.02	0.00	0.00	20.21
rs2886306	Hippurate levels	GCST90199624	9	133146393	T	C	8260	0.07	0.02	0.00	0.00	19.51
rs7073480	Hippurate levels	GCST90199624	10	13172160	C	T	8260	0.12	0.02	0.00	0.00	25.41
rs12782560	Hippurate levels	GCST90199624	10	31021128	T	C	8260	0.22	0.05	0.00	0.00	20.75
rs1271526	Hippurate levels	GCST90199624	10	120838827	T	C	8260	0.09	0.02	0.00	0.00	20.95
rs16909710	Hippurate levels	GCST90199624	12	14111937	T	C	8260	-0.19	0.04	0.00	0.00	25.14
rs1038161	Hippurate levels	GCST90199624	12	75651631	A	T	8260	-0.07	0.02	0.00	0.00	19.77
rs56266656	Hippurate levels	GCST90199624	13	31286351	G	A	8260	0.22	0.05	0.00	0.00	19.90
rs138633790	Hippurate levels	GCST90199624	13	111879060	A	G	8260	-0.22	0.05	0.00	0.00	19.65
rs117019913	Hippurate levels	GCST90199624	14	50863493	A	G	8260	0.20	0.05	0.00	0.00	19.77

rs72770519	Hippurate levels	GCST90199624	16	22787037	A	G	8260	-0.10	0.02	0.00	0.00	21.95
rs72782456	Hippurate levels	GCST90199624	16	65558706	G	A	8260	-0.13	0.03	0.00	0.00	19.86
rs6706818	Methionine sulfoxide levels	GCST90199625	2	56347297	G	A	8243	0.08	0.02	0.00	0.00	20.45
rs146859626	Methionine sulfoxide levels	GCST90199625	2	185815120	C	T	8243	-0.33	0.07	0.00	0.00	20.30
rs114588795	Methionine sulfoxide levels	GCST90199625	2	207577160	G	C	8243	0.38	0.09	0.00	0.00	19.75
rs3138108	Methionine sulfoxide levels	GCST90199625	2	227802190	T	C	8243	0.09	0.02	0.00	0.00	22.84
rs162588	Methionine sulfoxide levels	GCST90199625	3	322415	A	G	8243	0.08	0.02	0.00	0.00	19.90
rs114314137	Methionine sulfoxide levels	GCST90199625	3	113140407	G	A	8243	-0.37	0.08	0.00	0.00	19.60
rs4862595	Methionine sulfoxide levels	GCST90199625	4	185925809	T	C	8243	0.08	0.02	0.00	0.00	20.12
rs7708674	Methionine sulfoxide levels	GCST90199625	5	61263052	T	C	8243	-0.14	0.03	0.00	0.00	21.24
rs1116046	Methionine sulfoxide levels	GCST90199625	5	102243065	T	A	8243	-0.13	0.03	0.00	0.00	20.79
rs66676945	Methionine sulfoxide levels	GCST90199625	5	158982497	T	C	8243	0.10	0.02	0.00	0.00	24.68
rs112196227	Methionine sulfoxide levels	GCST90199625	6	96678263	T	A	8243	0.13	0.03	0.00	0.00	20.29
rs113966925	Methionine sulfoxide levels	GCST90199625	7	130155762	T	C	8243	0.21	0.05	0.00	0.00	19.77
rs78631663	Methionine sulfoxide levels	GCST90199625	8	5080675	C	T	8243	0.26	0.06	0.00	0.00	19.87
rs12216870	Methionine sulfoxide levels	GCST90199625	8	9495449	T	C	8243	-0.26	0.06	0.00	0.00	21.39
rs74981086	Methionine sulfoxide levels	GCST90199625	9	26798495	A	G	8243	-0.21	0.04	0.00	0.00	22.18
rs1020048	Methionine sulfoxide levels	GCST90199625	9	84052078	C	A	8243	-0.10	0.02	0.00	0.00	26.84
rs76954145	Methionine sulfoxide levels	GCST90199625	10	101716593	T	C	8243	-0.19	0.04	0.00	0.00	25.59
rs142260529	Methionine sulfoxide levels	GCST90199625	11	21700521	T	C	8243	0.29	0.06	0.00	0.00	20.19
rs78762284	Methionine sulfoxide levels	GCST90199625	12	110706960	A	G	8243	0.12	0.02	0.00	0.00	28.51
rs12323117	Methionine sulfoxide levels	GCST90199625	13	20995088	C	T	8243	-0.11	0.02	0.00	0.00	19.72
rs7990044	Methionine sulfoxide levels	GCST90199625	13	88053943	G	A	8243	0.07	0.02	0.00	0.00	20.21
rs112256623	Methionine sulfoxide levels	GCST90199625	17	46907811	A	G	8243	-0.22	0.05	0.00	0.00	19.95
rs72924553	Methionine sulfoxide levels	GCST90199625	18	31123298	G	A	8243	0.29	0.06	0.00	0.00	20.54
rs390784	Methionine sulfoxide levels	GCST90199625	19	43984037	T	G	8243	0.08	0.02	0.00	0.00	24.26
rs146902454	Methionine sulfoxide levels	GCST90199625	20	51754403	C	T	8243	-0.22	0.04	0.00	0.00	27.89
rs57419073	Methionine sulfoxide levels	GCST90199625	22	48520065	A	G	8243	-0.13	0.03	0.00	0.00	20.58
rs4654393	Xanthurenate levels	GCST90199626	1	29207925	A	G	7965	-0.07	0.02	0.00	0.00	20.54
rs1339135	Xanthurenate levels	GCST90199626	1	164891445	G	A	7965	-0.10	0.02	0.00	0.00	21.27
rs4952404	Xanthurenate levels	GCST90199626	2	40333490	T	C	7965	0.09	0.02	0.00	0.00	21.69
rs55953511	Xanthurenate levels	GCST90199626	2	88277900	A	G	7965	0.26	0.05	0.00	0.00	26.48
rs354710	Xanthurenate levels	GCST90199626	2	143129515	T	C	7965	0.10	0.02	0.00	0.00	36.84
rs4148325	Xanthurenate levels	GCST90199626	2	233764663	T	C	7965	0.16	0.02	0.00	0.01	95.07
rs142739097	Xanthurenate levels	GCST90199626	3	82428809	G	A	7965	-0.28	0.06	0.00	0.00	21.88
rs74323113	Xanthurenate levels	GCST90199626	4	110473158	T	G	7965	0.24	0.05	0.00	0.00	21.70
rs80253618	Xanthurenate levels	GCST90199626	4	169940405	A	G	7965	0.15	0.02	0.00	0.00	35.11

rs62344716	Xanthurenate levels	GCST90199626	4	170071702	A	G	7965	-0.15	0.03	0.00	0.00	23.37
rs189750460	Xanthurenate levels	GCST90199626	5	45640754	C	T	7965	0.20	0.04	0.00	0.00	20.68
rs115107012	Xanthurenate levels	GCST90199626	5	108435076	A	G	7965	0.36	0.08	0.00	0.00	20.13
rs2762353	Xanthurenate levels	GCST90199626	6	25794203	G	A	7965	0.11	0.02	0.00	0.01	48.14
rs117446717	Xanthurenate levels	GCST90199626	6	86716358	G	A	7965	0.34	0.08	0.00	0.00	19.90
rs610480	Xanthurenate levels	GCST90199626	6	139895926	G	A	7965	0.08	0.02	0.00	0.00	20.87
rs148768795	Xanthurenate levels	GCST90199626	6	150393911	A	G	7965	-0.34	0.08	0.00	0.00	19.74
rs41294573	Xanthurenate levels	GCST90199626	10	5983272	T	C	7965	0.15	0.03	0.00	0.00	21.54
rs76961499	Xanthurenate levels	GCST90199626	10	123940473	T	C	7965	-0.17	0.04	0.00	0.00	21.09
rs10901595	Xanthurenate levels	GCST90199626	10	126332367	T	C	7965	-0.09	0.02	0.00	0.00	19.94
rs11037948	Xanthurenate levels	GCST90199626	11	44303357	C	G	7965	-0.08	0.02	0.00	0.00	22.99
rs75152214	Xanthurenate levels	GCST90199626	11	64543641	A	G	7965	-0.16	0.04	0.00	0.00	19.64
rs117776343	Xanthurenate levels	GCST90199626	14	91044447	C	A	7965	-0.25	0.05	0.00	0.00	23.97
rs10518870	Xanthurenate levels	GCST90199626	15	56725690	G	A	7965	0.07	0.02	0.00	0.00	20.91
rs150456440	Xanthurenate levels	GCST90199626	16	1787443	A	G	7965	-0.21	0.05	0.00	0.00	19.60
rs8058114	Xanthurenate levels	GCST90199626	16	12603772	A	G	7965	0.10	0.02	0.00	0.00	22.32
rs13038820	Xanthurenate levels	GCST90199626	20	38613187	A	G	7965	-0.11	0.02	0.00	0.00	25.02
rs182387902	N-alpha-acetylornithine levels	GCST90199627	1	7573804	T	C	5606	-0.47	0.09	0.00	0.00	25.98
rs10168931	N-alpha-acetylornithine levels	GCST90199627	2	73650092	A	G	5606	0.20	0.02	0.00	0.02	91.12
rs758072	N-alpha-acetylornithine levels	GCST90199627	2	241144457	T	G	5606	0.17	0.04	0.00	0.00	22.66
rs6846979	N-alpha-acetylornithine levels	GCST90199627	4	47755798	G	A	5606	0.10	0.02	0.00	0.00	20.43
rs13184558	N-alpha-acetylornithine levels	GCST90199627	5	26807776	C	T	5606	0.22	0.05	0.00	0.00	19.92
rs149122905	N-alpha-acetylornithine levels	GCST90199627	5	102029922	G	A	5606	0.41	0.09	0.00	0.00	20.98
rs77556524	N-alpha-acetylornithine levels	GCST90199627	5	174783352	G	C	5606	-0.34	0.07	0.00	0.00	22.12
rs17360657	N-alpha-acetylornithine levels	GCST90199627	6	36548250	C	T	5606	0.24	0.05	0.00	0.00	22.25
rs117299913	N-alpha-acetylornithine levels	GCST90199627	6	124610707	C	T	5606	0.27	0.06	0.00	0.00	22.04
rs4960616	N-alpha-acetylornithine levels	GCST90199627	7	154799440	C	T	5606	-0.19	0.04	0.00	0.00	24.98
rs145450037	N-alpha-acetylornithine levels	GCST90199627	8	6864294	C	A	5606	-0.42	0.09	0.00	0.00	21.91
rs117790062	N-alpha-acetylornithine levels	GCST90199627	8	113354078	T	C	5606	0.21	0.05	0.00	0.00	19.70
rs4430142	N-alpha-acetylornithine levels	GCST90199627	9	1956595	C	G	5606	-0.40	0.09	0.00	0.00	20.32

rs13296886	N-alpha-acetylornithine levels	GCST90199627	9	81723130	G	C	5606	-0.16	0.03	0.00	0.00	22.30
rs77300395	N-alpha-acetylornithine levels	GCST90199627	10	19535694	T	C	5606	0.27	0.06	0.00	0.00	21.23
rs80205778	N-alpha-acetylornithine levels	GCST90199627	11	61173072	A	G	5606	0.47	0.09	0.00	0.00	24.44
rs2125440	N-alpha-acetylornithine levels	GCST90199627	12	113905989	G	C	5606	0.08	0.02	0.00	0.00	20.58
rs76075534	N-alpha-acetylornithine levels	GCST90199627	14	26212334	T	C	5606	-0.21	0.05	0.00	0.00	20.13
rs117413891	N-alpha-acetylornithine levels	GCST90199627	16	13482830	T	C	5606	0.33	0.07	0.00	0.00	21.30
rs62053878	N-alpha-acetylornithine levels	GCST90199627	17	13932613	T	C	5606	-0.31	0.07	0.00	0.00	20.97
rs8084246	N-alpha-acetylornithine levels	GCST90199627	18	11772231	A	G	5606	0.10	0.02	0.00	0.00	25.29
rs6507370	N-alpha-acetylornithine levels	GCST90199627	18	40588675	C	T	5606	0.09	0.02	0.00	0.00	23.67
rs9981625	N-alpha-acetylornithine levels	GCST90199627	21	43355398	C	G	5606	-0.09	0.02	0.00	0.00	19.85
rs114734560	3-methylhistidine levels	GCST90199628	1	33744394	T	C	8289	-0.36	0.08	0.00	0.00	21.67
rs7516441	3-methylhistidine levels	GCST90199628	1	59674575	A	G	8289	0.11	0.02	0.00	0.00	19.58
rs12138831	3-methylhistidine levels	GCST90199628	1	78644960	T	G	8289	-0.22	0.05	0.00	0.00	21.04
rs2797978	3-methylhistidine levels	GCST90199628	1	101465337	C	T	8289	0.12	0.03	0.00	0.00	20.70
rs72879030	3-methylhistidine levels	GCST90199628	2	47207061	C	G	8289	-0.12	0.03	0.00	0.00	21.37
rs752834	3-methylhistidine levels	GCST90199628	2	111041081	A	G	8289	0.09	0.02	0.00	0.00	22.63
rs10181994	3-methylhistidine levels	GCST90199628	2	126725507	T	A	8289	0.08	0.02	0.00	0.00	23.55
rs185076690	3-methylhistidine levels	GCST90199628	2	142733050	T	C	8289	0.21	0.05	0.00	0.00	19.60
rs73035811	3-methylhistidine levels	GCST90199628	3	15056914	A	G	8289	0.12	0.03	0.00	0.00	20.31
rs146846950	3-methylhistidine levels	GCST90199628	3	113457137	A	G	8289	-0.54	0.12	0.00	0.00	19.63
rs10014780	3-methylhistidine levels	GCST90199628	4	66474932	G	A	8289	-0.10	0.02	0.00	0.00	20.90
rs75256283	3-methylhistidine levels	GCST90199628	4	113333758	A	T	8289	0.16	0.03	0.00	0.00	22.72
rs1857803	3-methylhistidine levels	GCST90199628	5	102634283	C	T	8289	-0.08	0.02	0.00	0.00	22.25
rs2518573	3-methylhistidine levels	GCST90199628	6	53134058	G	T	8289	0.08	0.02	0.00	0.00	20.84

rs7746774	3-methylhistidine levels	GCST90199628	6	139030342	G	A	8289	-0.10	0.02	0.00	0.00	23.26
rs117090299	3-methylhistidine levels	GCST90199628	7	86214632	C	T	8289	-0.30	0.07	0.00	0.00	20.38
rs13234372	3-methylhistidine levels	GCST90199628	7	110247043	A	G	8289	-0.08	0.02	0.00	0.00	24.22
rs17670800	3-methylhistidine levels	GCST90199628	8	69901423	A	G	8289	0.09	0.02	0.00	0.00	21.39
rs10966648	3-methylhistidine levels	GCST90199628	9	2512056	T	C	8289	-0.09	0.02	0.00	0.00	27.57
rs75782963	3-methylhistidine levels	GCST90199628	9	77448309	A	G	8289	0.21	0.05	0.00	0.00	19.72
rs12553086	3-methylhistidine levels	GCST90199628	9	131750885	G	T	8289	0.15	0.03	0.00	0.00	23.74
rs72997812	3-methylhistidine levels	GCST90199628	11	112790715	A	G	8289	0.09	0.02	0.00	0.00	20.41
rs4142196	3-methylhistidine levels	GCST90199628	13	76692299	A	C	8289	-0.08	0.02	0.00	0.00	19.72
rs9910668	3-methylhistidine levels	GCST90199628	17	80083264	C	A	8289	0.07	0.02	0.00	0.00	20.48
rs11872731	3-methylhistidine levels	GCST90199628	18	4592009	A	G	8289	0.14	0.03	0.00	0.00	19.78
rs149807477	3-methylhistidine levels	GCST90199628	19	32596526	T	C	8289	-0.26	0.06	0.00	0.00	19.56
rs117771460	3-methylhistidine levels	GCST90199628	19	39659519	A	G	8289	0.26	0.06	0.00	0.00	19.61
rs138750865	3-methylhistidine levels	GCST90199628	19	40182613	T	C	8289	0.23	0.05	0.00	0.00	22.41
rs28631199	Glycerophosphorylcholine (GPC) levels	GCST90199629	1	954724	A	G	8212	0.08	0.02	0.00	0.00	20.18
rs77692382	Glycerophosphorylcholine (GPC) levels	GCST90199629	1	39941043	T	C	8212	0.12	0.02	0.00	0.01	49.21
rs74814187	Glycerophosphorylcholine (GPC) levels	GCST90199629	1	177105662	T	C	8212	0.16	0.03	0.00	0.00	22.33
rs3738976	Glycerophosphorylcholine (GPC) levels	GCST90199629	2	44931099	T	C	8212	-0.10	0.02	0.00	0.00	20.70
rs112779076	Glycerophosphorylcholine (GPC) levels	GCST90199629	2	166358699	C	T	8212	0.15	0.03	0.00	0.00	19.73
rs75158623	Glycerophosphorylcholine (GPC) levels	GCST90199629	3	2655900	A	T	8212	0.14	0.03	0.00	0.00	20.25
rs143156137	Glycerophosphorylcholine (GPC) levels	GCST90199629	3	182722675	T	C	8212	0.27	0.06	0.00	0.00	20.81
rs74420163	Glycerophosphorylcholine (GPC) levels	GCST90199629	4	19053740	T	C	8212	0.19	0.04	0.00	0.00	20.54
rs192566258	Glycerophosphorylcholine (GPC) levels	GCST90199629	4	54022678	A	T	8212	-0.34	0.08	0.00	0.00	20.23
rs112211203	Glycerophosphorylcholine (GPC) levels	GCST90199629	5	56528571	T	G	8212	0.23	0.05	0.00	0.00	20.62

rs4715365	Glycerophosphorylcholine (GPC) levels	GCST90199629	6	52926962	T	C	8212	0.16	0.04	0.00	0.00	21.49
rs117793976	Glycerophosphorylcholine (GPC) levels	GCST90199629	6	75108106	C	G	8212	-0.35	0.08	0.00	0.00	20.14
rs9487777	Glycerophosphorylcholine (GPC) levels	GCST90199629	6	111985317	C	G	8212	-0.27	0.06	0.00	0.00	23.55
rs11773889	Glycerophosphorylcholine (GPC) levels	GCST90199629	7	36298980	T	C	8212	-0.09	0.02	0.00	0.00	22.25
rs117605274	Glycerophosphorylcholine (GPC) levels	GCST90199629	7	74687404	G	A	8212	0.33	0.07	0.00	0.00	22.21
rs11783515	Glycerophosphorylcholine (GPC) levels	GCST90199629	8	58407830	G	A	8212	-0.07	0.02	0.00	0.00	20.18
rs6981994	Glycerophosphorylcholine (GPC) levels	GCST90199629	8	134660962	C	T	8212	0.27	0.06	0.00	0.00	21.46
rs10816075	Glycerophosphorylcholine (GPC) levels	GCST90199629	9	9247320	T	C	8212	0.10	0.02	0.00	0.00	22.42
rs2015026	Glycerophosphorylcholine (GPC) levels	GCST90199629	10	95999826	C	T	8212	-0.07	0.02	0.00	0.00	20.51
rs665474	Glycerophosphorylcholine (GPC) levels	GCST90199629	11	29415783	T	A	8212	0.07	0.02	0.00	0.00	19.51
rs12800817	Glycerophosphorylcholine (GPC) levels	GCST90199629	11	94286856	A	G	8212	0.19	0.04	0.00	0.00	24.00
rs4980965	Glycerophosphorylcholine (GPC) levels	GCST90199629	12	724252	C	T	8212	0.07	0.02	0.00	0.00	20.03
rs149395329	Glycerophosphorylcholine (GPC) levels	GCST90199629	12	44518480	C	T	8212	0.19	0.04	0.00	0.00	19.72
rs116900994	Glycerophosphorylcholine (GPC) levels	GCST90199629	12	78358881	T	C	8212	0.16	0.04	0.00	0.00	20.23
rs71468473	Glycerophosphorylcholine (GPC) levels	GCST90199629	12	131213698	T	C	8212	0.10	0.02	0.00	0.00	24.53
rs9510701	Glycerophosphorylcholine (GPC) levels	GCST90199629	13	23324554	T	C	8212	0.17	0.04	0.00	0.00	20.23
rs75275697	Glycerophosphorylcholine (GPC) levels	GCST90199629	14	39774970	A	G	8212	0.27	0.06	0.00	0.00	19.85
rs141866706	Glycerophosphorylcholine (GPC) levels	GCST90199629	14	73791661	C	T	8212	-0.35	0.07	0.00	0.00	22.09
rs557700	Glycerophosphorylcholine (GPC) levels	GCST90199629	15	47790829	C	T	8212	0.08	0.02	0.00	0.00	20.21
rs117568432	Glycerophosphorylcholine (GPC) levels	GCST90199629	15	65891098	T	G	8212	0.11	0.03	0.00	0.00	19.70
rs72803677	Glycerophosphorylcholine (GPC) levels	GCST90199629	16	53774515	T	G	8212	-0.30	0.06	0.00	0.00	21.60
rs16973477	Glycerophosphorylcholine (GPC) levels	GCST90199629	16	71853478	G	A	8212	0.10	0.02	0.00	0.00	19.91
rs8064391	Glycerophosphorylcholine (GPC) levels	GCST90199629	17	81411346	G	A	8212	-0.29	0.06	0.00	0.00	21.63
rs7526830	Phenylacetate levels	GCST90199630	1	168675145	C	T	7059	0.12	0.03	0.00	0.00	21.67
rs76318294	Phenylacetate levels	GCST90199630	1	230418611	G	T	7059	-0.13	0.03	0.00	0.00	19.51

rs72825080	Phenylacetate levels	GCST90199630	2	101434829	C	T	7059	-0.15	0.03	0.00	0.00	20.03
rs76447789	Phenylacetate levels	GCST90199630	3	25420254	G	A	7059	-0.44	0.10	0.00	0.00	19.95
rs3856733	Phenylacetate levels	GCST90199630	3	42106201	G	C	7059	-0.09	0.02	0.00	0.00	23.94
rs1604572	Phenylacetate levels	GCST90199630	3	131672868	G	C	7059	-0.09	0.02	0.00	0.00	25.73
rs2632709	Phenylacetate levels	GCST90199630	4	42371565	C	A	7059	0.10	0.02	0.00	0.00	20.77
rs189587	Phenylacetate levels	GCST90199630	4	77578931	A	G	7059	0.08	0.02	0.00	0.00	24.02
rs14572129	Phenylacetate levels	GCST90199630	4	149241086	T	C	7059	0.45	0.10	0.00	0.00	20.21
rs18098260	Phenylacetate levels	GCST90199630	6	90966386	C	T	7059	-0.50	0.11	0.00	0.00	19.63
rs73057725	Phenylacetate levels	GCST90199630	7	5394476	A	G	7059	0.22	0.04	0.00	0.00	24.93
rs76151544	Phenylacetate levels	GCST90199630	7	15762235	G	A	7059	-0.25	0.05	0.00	0.00	20.52
rs14851568	Phenylacetate levels	GCST90199630	11	32806391	A	G	7059	0.33	0.07	0.00	0.00	22.28
rs3809205	Phenylacetate levels	GCST90199630	12	22044817	C	T	7059	0.18	0.04	0.00	0.00	20.78
rs15024829	Phenylacetate levels	GCST90199630	12	56853738	A	G	7059	-0.38	0.08	0.00	0.00	22.16
rs11219240	Phenylacetate levels	GCST90199630	12	68449464	A	G	7059	0.23	0.05	0.00	0.00	23.07
rs78580580	Phenylacetate levels	GCST90199630	12	104450374	C	A	7059	-0.29	0.06	0.00	0.00	23.02
rs8001043	Phenylacetate levels	GCST90199630	13	34753839	C	T	7059	-0.08	0.02	0.00	0.00	21.00
rs76379382	Phenylacetate levels	GCST90199630	15	64997213	T	C	7059	-0.16	0.04	0.00	0.00	19.93
rs59532339	Phenylacetate levels	GCST90199630	16	20568350	T	A	7059	0.46	0.05	0.00	0.01	73.01
rs7196912	Phenylacetate levels	GCST90199630	16	20589290	T	C	7059	0.23	0.05	0.00	0.00	23.84
rs18812434	Phenylacetate levels	GCST90199630	16	80540228	C	T	7059	0.36	0.07	0.00	0.00	24.05
rs16943430	Phenylacetate levels	GCST90199630	18	27277604	A	G	7059	-0.20	0.04	0.00	0.00	20.07
rs6566598	Phenylacetate levels	GCST90199630	18	72270169	C	T	7059	-0.21	0.05	0.00	0.00	20.39
rs11729158	Phenylacetate levels	GCST90199630	20	60269481	T	C	7059	0.24	0.05	0.00	0.00	21.22
rs1057157	Phenylacetate levels	GCST90199630	22	42383012	C	T	7059	0.08	0.02	0.00	0.00	19.87
rs6754181	3-methyl-2-oxovalerate levels	GCST90199631	2	29743514	C	T	8257	0.09	0.02	0.00	0.00	19.75
rs7660693	3-methyl-2-oxovalerate levels	GCST90199631	4	88307231	C	T	8257	0.08	0.01	0.00	0.00	28.39
rs77291466	3-methyl-2-oxovalerate levels	GCST90199631	5	60325998	C	T	8257	-0.12	0.03	0.00	0.00	20.26
rs12716450	3-methyl-2-oxovalerate levels	GCST90199631	5	93478693	T	C	8257	0.30	0.07	0.00	0.00	20.43
rs34372879	3-methyl-2-oxovalerate levels	GCST90199631	6	41524417	C	T	8257	-0.09	0.02	0.00	0.00	19.71
rs56107485	3-methyl-2-oxovalerate levels	GCST90199631	6	156517427	C	A	8257	-0.15	0.03	0.00	0.00	24.98
rs62524533	3-methyl-2-oxovalerate levels	GCST90199631	8	134040089	A	G	8257	-0.11	0.02	0.00	0.00	20.36
rs18371843	3-methyl-2-oxovalerate levels	GCST90199631	9	14739182	A	C	8257	-0.41	0.09	0.00	0.00	20.05

rs11791075	3-methyl-2-oxovalerate levels	GCST90199631	9	83720430	T	A	8257	-0.08	0.02	0.00	0.00	21.99
rs58729469	3-methyl-2-oxovalerate levels	GCST90199631	11	36050283	T	C	8257	0.10	0.02	0.00	0.00	25.12
rs145992024	3-methyl-2-oxovalerate levels	GCST90199631	12	24284993	T	C	8257	-0.35	0.07	0.00	0.00	22.36
rs142461926	3-methyl-2-oxovalerate levels	GCST90199631	14	25575454	G	A	8257	-0.22	0.05	0.00	0.00	22.03
rs116943713	3-methyl-2-oxovalerate levels	GCST90199631	14	28618182	G	A	8257	0.21	0.05	0.00	0.00	20.76
rs142174598	3-methyl-2-oxovalerate levels	GCST90199631	17	34165541	C	G	8257	-0.42	0.09	0.00	0.00	20.24
rs77876488	3-methyl-2-oxovalerate levels	GCST90199631	18	10810833	T	C	8257	-0.18	0.04	0.00	0.00	25.49
rs6055350	3-methyl-2-oxovalerate levels	GCST90199631	20	858872	C	G	8257	-0.22	0.04	0.00	0.00	29.52
rs58693102	3-methyl-2-oxovalerate levels	GCST90199631	21	40394897	A	G	8257	-0.19	0.04	0.00	0.00	20.52
rs116626434	Tartarate levels	GCST90199632	1	83175694	A	G	7099	-0.15	0.03	0.00	0.00	21.74
rs79983252	Tartarate levels	GCST90199632	1	175616377	A	C	7099	0.24	0.05	0.00	0.00	23.63
rs138430505	Tartarate levels	GCST90199632	2	25955752	C	T	7099	0.29	0.06	0.00	0.00	20.83
rs17026163	Tartarate levels	GCST90199632	2	101829183	T	C	7099	-0.22	0.05	0.00	0.00	22.66
rs75583177	Tartarate levels	GCST90199632	2	139887135	G	A	7099	-0.15	0.03	0.00	0.00	20.03
rs76501568	Tartarate levels	GCST90199632	2	199095080	T	C	7099	-0.27	0.06	0.00	0.00	20.74
rs13089230	Tartarate levels	GCST90199632	3	177836416	A	G	7099	0.08	0.02	0.00	0.00	22.04
rs10004542	Tartarate levels	GCST90199632	4	4718728	G	A	7099	0.08	0.02	0.00	0.00	21.21
rs298392	Tartarate levels	GCST90199632	5	74552072	T	C	7099	0.09	0.02	0.00	0.00	22.09
rs115272033	Tartarate levels	GCST90199632	6	31883030	C	T	7099	-0.17	0.04	0.00	0.00	19.90
rs628038	Tartarate levels	GCST90199632	6	73615534	C	T	7099	-0.08	0.02	0.00	0.00	21.12
rs10945808	Tartarate levels	GCST90199632	6	162299162	T	C	7099	-0.13	0.03	0.00	0.00	21.05
rs10247649	Tartarate levels	GCST90199632	7	95586935	G	A	7099	-0.08	0.02	0.00	0.00	21.43
rs143000803	Tartarate levels	GCST90199632	7	127307984	T	A	7099	0.37	0.08	0.00	0.00	21.74
rs117483011	Tartarate levels	GCST90199632	8	3339388	A	G	7099	-0.16	0.04	0.00	0.00	19.81
rs2468877	Tartarate levels	GCST90199632	8	113913215	A	T	7099	-0.08	0.02	0.00	0.00	19.89
rs142959592	Tartarate levels	GCST90199632	11	77121326	T	C	7099	-0.37	0.08	0.00	0.00	20.87
rs77798428	Tartarate levels	GCST90199632	15	58376202	A	G	7099	-0.32	0.06	0.00	0.00	26.93
rs142997067	Tartarate levels	GCST90199632	17	70342880	G	C	7099	0.61	0.13	0.00	0.00	20.55
rs9948951	Tartarate levels	GCST90199632	18	8592790	A	G	7099	-0.10	0.02	0.00	0.00	20.55
rs141660852	Tartarate levels	GCST90199632	18	62365105	T	C	7099	0.23	0.05	0.00	0.00	21.49
rs146593632	Tartarate levels	GCST90199632	21	22839328	T	C	7099	0.37	0.08	0.00	0.00	20.59
rs540278823	Tartarate levels	GCST90199632	21	27170812	C	T	7099	-0.21	0.05	0.00	0.00	19.93

rs14540619	Suberate (C8-DC) levels	GCST90199633	1	107260564	A	G	6902	0.37	0.08	0.00	0.00	19.78
rs848290	Suberate (C8-DC) levels	GCST90199633	2	58162047	T	A	6902	-0.17	0.03	0.00	0.00	24.97
rs189725310	Suberate (C8-DC) levels	GCST90199633	2	208748506	T	C	6902	-0.17	0.04	0.00	0.00	21.29
rs7616744	Suberate (C8-DC) levels	GCST90199633	3	24740196	A	G	6902	-0.09	0.02	0.00	0.00	19.58
rs11705994	Suberate (C8-DC) levels	GCST90199633	3	73318930	T	C	6902	0.22	0.05	0.00	0.00	19.64
rs4689177	Suberate (C8-DC) levels	GCST90199633	4	4592747	T	C	6902	0.11	0.02	0.00	0.00	21.04
rs34357043	Suberate (C8-DC) levels	GCST90199633	4	31925736	G	T	6902	0.27	0.06	0.00	0.00	23.39
rs4695288	Suberate (C8-DC) levels	GCST90199633	4	47852756	T	C	6902	0.20	0.05	0.00	0.00	19.53
rs78440527	Suberate (C8-DC) levels	GCST90199633	4	101864890	G	A	6902	0.20	0.04	0.00	0.00	19.86
rs10008401	Suberate (C8-DC) levels	GCST90199633	4	116858781	C	T	6902	0.08	0.02	0.00	0.00	22.02
rs9313297	Suberate (C8-DC) levels	GCST90199633	5	165978223	G	A	6902	0.10	0.02	0.00	0.00	20.44
rs9406110	Suberate (C8-DC) levels	GCST90199633	6	8236962	A	G	6902	-0.09	0.02	0.00	0.00	19.81
rs539316238	Suberate (C8-DC) levels	GCST90199633	6	18011466	T	C	6902	-0.27	0.06	0.00	0.00	21.49
rs6923178	Suberate (C8-DC) levels	GCST90199633	6	79684023	G	C	6902	0.12	0.03	0.00	0.00	22.02
rs6914551	Suberate (C8-DC) levels	GCST90199633	6	106686831	C	T	6902	-0.37	0.08	0.00	0.00	21.41
rs141183746	Suberate (C8-DC) levels	GCST90199633	6	163922203	C	A	6902	0.16	0.04	0.00	0.00	19.52
rs17738405	Suberate (C8-DC) levels	GCST90199633	7	3235891	C	T	6902	-0.19	0.04	0.00	0.00	24.00
rs146529314	Suberate (C8-DC) levels	GCST90199633	7	106007929	G	T	6902	0.34	0.07	0.00	0.00	23.35
rs140580838	Suberate (C8-DC) levels	GCST90199633	8	108977705	A	G	6902	0.31	0.07	0.00	0.00	19.67
rs148863405	Suberate (C8-DC) levels	GCST90199633	9	16581529	C	G	6902	0.80	0.18	0.00	0.00	20.08
rs12555229	Suberate (C8-DC) levels	GCST90199633	9	135788065	G	C	6902	-0.10	0.02	0.00	0.00	23.68
rs35904890	Suberate (C8-DC) levels	GCST90199633	11	8649229	T	C	6902	-0.23	0.05	0.00	0.00	20.73
rs11158833	Suberate (C8-DC) levels	GCST90199633	14	70111694	G	A	6902	-0.09	0.02	0.00	0.00	21.98
rs72777931	Suberate (C8-DC) levels	GCST90199633	16	23857673	A	G	6902	0.34	0.07	0.00	0.00	23.70
rs1551619	Suberate (C8-DC) levels	GCST90199633	17	75889724	T	C	6902	-0.10	0.02	0.00	0.00	23.44
rs117499033	Suberate (C8-DC) levels	GCST90199633	18	44998209	G	A	6902	0.31	0.07	0.00	0.00	19.73
rs191920017	Suberate (C8-DC) levels	GCST90199633	22	22277644	A	G	6902	-0.40	0.09	0.00	0.00	20.62
rs139663065	5-hydroxylysine	GCST90199634	1	14402942	T	C	8128	0.28	0.06	0.00	0.00	19.90
rs55700529	5-hydroxylysine	GCST90199634	1	17851418	A	G	8128	0.29	0.06	0.00	0.00	24.34
rs76751577	5-hydroxylysine	GCST90199634	1	234308092	A	G	8128	0.32	0.07	0.00	0.00	20.38
rs78818599	5-hydroxylysine	GCST90199634	2	179875859	G	T	8128	-0.22	0.05	0.00	0.00	19.51
rs9341222	5-hydroxylysine	GCST90199634	2	216664687	C	T	8128	0.23	0.05	0.00	0.00	20.04
rs144429282	5-hydroxylysine	GCST90199634	3	30096963	T	C	8128	0.39	0.07	0.00	0.00	30.08
rs12499749	5-hydroxylysine	GCST90199634	4	30325758	A	G	8128	0.18	0.04	0.00	0.00	23.49
rs75233276	5-hydroxylysine	GCST90199634	4	72366734	T	C	8128	0.35	0.08	0.00	0.00	19.72
rs1040519	5-hydroxylysine	GCST90199634	6	9542333	G	A	8128	-0.08	0.02	0.00	0.00	23.67
rs1330804	5-hydroxylysine	GCST90199634	6	113238996	A	G	8128	-0.07	0.02	0.00	0.00	20.02

rs73248769	5-hydroxylysine	GCST90199634	8	32271206	C	T	8128	0.40	0.08	0.00	0.00	22.29
rs73429419	5-hydroxylysine	GCST90199634	8	138372606	T	C	8128	-0.10	0.02	0.00	0.00	20.82
rs117462872	5-hydroxylysine	GCST90199634	8	141957630	G	A	8128	0.29	0.06	0.00	0.00	19.66
rs140233308	5-hydroxylysine	GCST90199634	9	81810718	T	G	8128	0.32	0.07	0.00	0.00	19.92
rs999856	5-hydroxylysine	GCST90199634	10	14019697	A	G	8128	-0.22	0.05	0.00	0.00	19.72
rs10877499	5-hydroxylysine	GCST90199634	12	61025502	C	T	8128	0.09	0.02	0.00	0.00	20.70
rs41322846	5-hydroxylysine	GCST90199634	12	96510327	C	G	8128	0.11	0.03	0.00	0.00	19.66
rs532070914	5-hydroxylysine	GCST90199634	12	124503617	C	T	8128	0.63	0.14	0.00	0.00	20.46
rs661331	5-hydroxylysine	GCST90199634	13	29933975	T	A	8128	0.11	0.03	0.00	0.00	19.87
rs17533872	5-hydroxylysine	GCST90199634	13	41641427	T	C	8128	0.08	0.02	0.00	0.00	22.64
rs1502069	5-hydroxylysine	GCST90199634	13	86458070	T	C	8128	-0.08	0.02	0.00	0.00	20.09
rs9559451	5-hydroxylysine	GCST90199634	13	108973515	C	T	8128	-0.08	0.02	0.00	0.00	20.80
rs3819547	5-hydroxylysine	GCST90199634	14	72465045	C	G	8128	-0.12	0.03	0.00	0.00	20.99
rs58374597	5-hydroxylysine	GCST90199634	15	78417591	A	T	8128	0.61	0.06	0.00	0.01	100.15
rs6495304	5-hydroxylysine	GCST90199634	15	78508074	A	G	8128	0.27	0.05	0.00	0.00	31.47
rs3885951	5-hydroxylysine	GCST90199634	15	78533575	G	A	8128	0.58	0.02	0.00	0.06	537.12
rs74582811	5-hydroxylysine	GCST90199634	15	78966596	G	A	8128	0.23	0.05	0.00	0.00	24.49
rs12901358	5-hydroxylysine	GCST90199634	15	98630252	C	T	8128	0.07	0.02	0.00	0.00	20.01
rs113983401	5-hydroxylysine	GCST90199634	16	87637966	C	G	8128	0.16	0.04	0.00	0.00	20.73
rs115469488	5-hydroxylysine	GCST90199634	22	22766918	A	G	8128	-0.66	0.14	0.00	0.00	21.20
rs191187061	phenylpropionate hydrocinnamate levels 3-	GCST90199635	1	156527256	T	C	7925	-0.30	0.06	0.00	0.00	26.86
rs112307471	phenylpropionate hydrocinnamate levels 3-	GCST90199635	1	204454067	A	G	7925	-0.24	0.05	0.00	0.00	22.24
rs75223710	phenylpropionate hydrocinnamate levels 3-	GCST90199635	1	246124049	T	C	7925	-0.22	0.05	0.00	0.00	19.74
rs145409686	phenylpropionate hydrocinnamate levels 3-	GCST90199635	2	28328582	C	T	7925	-0.55	0.12	0.00	0.00	20.94
rs17767728	phenylpropionate hydrocinnamate levels 3-	GCST90199635	2	133697804	C	T	7925	0.09	0.02	0.00	0.00	21.79
rs74432647	phenylpropionate hydrocinnamate levels	GCST90199635	2	224858109	T	C	7925	0.15	0.03	0.00	0.00	24.55

rs78674307	3-phenylpropionate hydrocinnamate levels	GCST90199635	3	43525745	G	T	7925	-0.15	0.03	0.00	0.00	19.62
rs77831208	3-phenylpropionate hydrocinnamate levels	GCST90199635	3	110665898	T	C	7925	0.25	0.05	0.00	0.00	20.61
rs187719086	3-phenylpropionate hydrocinnamate levels	GCST90199635	4	46001728	T	C	7925	-0.29	0.07	0.00	0.00	19.61
rs146175767	3-phenylpropionate hydrocinnamate levels	GCST90199635	4	86073341	T	C	7925	-0.12	0.03	0.00	0.00	21.08
rs116511059	3-phenylpropionate hydrocinnamate levels	GCST90199635	5	27584519	T	C	7925	0.40	0.08	0.00	0.00	25.12
rs73478203	3-phenylpropionate hydrocinnamate levels	GCST90199635	6	79617290	G	A	7925	0.08	0.02	0.00	0.00	20.00
rs147941428	3-phenylpropionate hydrocinnamate levels	GCST90199635	7	5766027	G	A	7925	-0.34	0.07	0.00	0.00	24.28
rs13283163	3-phenylpropionate hydrocinnamate levels	GCST90199635	9	3389660	A	G	7925	0.17	0.03	0.00	0.00	24.07
rs141685561	3-phenylpropionate hydrocinnamate levels	GCST90199635	11	23891620	T	C	7925	-0.14	0.03	0.00	0.00	23.06
rs2186671	3-phenylpropionate hydrocinnamate levels	GCST90199635	11	109407701	G	A	7925	-0.08	0.02	0.00	0.00	22.37
rs9510299	3-phenylpropionate hydrocinnamate levels	GCST90199635	13	22714494	C	G	7925	-0.07	0.02	0.00	0.00	19.77
rs79970883	3-phenylpropionate hydrocinnamate levels	GCST90199635	13	84382959	T	C	7925	-0.20	0.04	0.00	0.00	25.17
rs112423294	3-phenylpropionate hydrocinnamate levels	GCST90199635	14	48833025	A	G	7925	-0.40	0.09	0.00	0.00	20.69
rs12929353	3-phenylpropionate hydrocinnamate levels	GCST90199635	16	1189810	A	G	7925	-0.40	0.08	0.00	0.00	22.94

rs14815314 1	3-phenylpropionate hydrocinnamate levels	GCST90199635	16	20426589	G	A	7925	-0.28	0.06	0.00	0.00	25.50
rs34927101	3-phenylpropionate hydrocinnamate levels	GCST90199635	16	20433373	T	C	7925	0.29	0.06	0.00	0.00	25.23
rs62058082	3-phenylpropionate hydrocinnamate levels	GCST90199635	17	12879352	T	C	7925	-0.11	0.02	0.00	0.00	22.79
rs11226468 3	3-phenylpropionate hydrocinnamate levels	GCST90199635	18	1098668	C	T	7925	0.37	0.08	0.00	0.00	19.96
rs10073658	3-phenylpropionate hydrocinnamate levels	GCST90199635	18	51743877	G	A	7925	0.10	0.02	0.00	0.00	20.20
rs14398539 4	3-phenylpropionate hydrocinnamate levels	GCST90199635	19	14838555	G	A	7925	-0.24	0.05	0.00	0.00	19.80
rs4812445	3-phenylpropionate hydrocinnamate levels	GCST90199635	20	40610096	G	A	7925	-0.10	0.02	0.00	0.00	26.80
rs9988529	Kynurenine levels	GCST90199636	1	63194695	C	T	8244	-0.18	0.04	0.00	0.00	23.80
rs79435381	Kynurenine levels	GCST90199636	1	75842746	A	G	8244	-0.17	0.04	0.00	0.00	20.34
rs61825638	Kynurenine levels	GCST90199636	1	241550102	T	C	8244	0.13	0.02	0.00	0.01	57.79
rs55709807	Kynurenine levels	GCST90199636	2	137960969	A	G	8244	0.18	0.04	0.00	0.00	20.46
rs6440053	Kynurenine levels	GCST90199636	3	141940670	A	T	8244	0.10	0.02	0.00	0.00	22.35
rs9821445	Kynurenine levels	GCST90199636	3	184219831	C	T	8244	0.10	0.02	0.00	0.00	23.19
rs11679444 5	Kynurenine levels	GCST90199636	5	13501913	A	G	8244	-0.32	0.07	0.00	0.00	20.67
rs10516101	Kynurenine levels	GCST90199636	5	173639728	T	C	8244	-0.12	0.03	0.00	0.00	21.02
rs17240098	Kynurenine levels	GCST90199636	6	52270924	T	G	8244	0.15	0.03	0.00	0.00	20.70
rs17287314	Kynurenine levels	GCST90199636	7	105966054	A	T	8244	-0.07	0.02	0.00	0.00	20.20
rs10216901	Kynurenine levels	GCST90199636	8	39947074	T	C	8244	-0.09	0.02	0.00	0.00	36.58
rs55879891	Kynurenine levels	GCST90199636	8	127356687	A	C	8244	0.10	0.02	0.00	0.00	21.92
rs72761290	Kynurenine levels	GCST90199636	9	130403493	A	C	8244	0.14	0.03	0.00	0.00	22.48
rs6481144	Kynurenine levels	GCST90199636	10	55140633	C	A	8244	-0.21	0.05	0.00	0.00	22.11
rs10883982	Kynurenine levels	GCST90199636	10	104214575	C	A	8244	-0.08	0.02	0.00	0.00	20.36
rs11055387	Kynurenine levels	GCST90199636	12	13367062	C	G	8244	-0.15	0.03	0.00	0.00	20.38
rs3184504	Kynurenine levels	GCST90199636	12	111446804	C	T	8244	-0.11	0.01	0.00	0.01	53.30
rs75973738	Kynurenine levels	GCST90199636	14	84718587	A	T	8244	-0.19	0.04	0.00	0.00	26.90
rs35223481	Kynurenine levels	GCST90199636	14	94546420	A	T	8244	-0.11	0.02	0.00	0.00	20.25

rs9933330	Kynurenine levels	GCST90199636	16	20355488	T	C	8244	-0.10	0.02	0.00	0.00	28.66
rs72789484	Kynurenine levels	GCST90199636	16	75786534	A	G	8244	-0.14	0.03	0.00	0.00	19.68
rs6540080	Kynurenine levels	GCST90199636	16	87784963	A	G	8244	-0.11	0.02	0.00	0.01	43.16
rs4843270	Kynurenine levels	GCST90199636	16	87844466	A	C	8244	0.21	0.02	0.00	0.02	154.78
rs9909552	Kynurenine levels	GCST90199636	17	36834695	G	C	8244	0.07	0.02	0.00	0.00	19.83
rs34519073	Kynurenine levels	GCST90199636	22	49143607	A	G	8244	0.07	0.02	0.00	0.00	19.95
rs12070599	N-acetylglutamate levels	GCST90199637	1	166530566	A	G	7802	-0.08	0.02	0.00	0.00	23.08
rs79132971	N-acetylglutamate levels	GCST90199637	2	3293263	A	C	7802	0.13	0.03	0.00	0.00	20.05
rs10168931	N-acetylglutamate levels	GCST90199637	2	73650092	A	G	7802	0.12	0.02	0.00	0.01	45.12
rs148804382	N-acetylglutamate levels	GCST90199637	3	52078217	A	C	7802	0.40	0.08	0.00	0.00	26.46
rs76105072	N-acetylglutamate levels	GCST90199637	4	157967616	C	T	7802	0.18	0.04	0.00	0.00	20.90
rs186654219	N-acetylglutamate levels	GCST90199637	5	64819753	A	G	7802	0.36	0.08	0.00	0.00	22.60
rs187543759	N-acetylglutamate levels	GCST90199637	6	77383611	C	T	7802	-0.33	0.07	0.00	0.00	20.15
rs10872573	N-acetylglutamate levels	GCST90199637	6	100362746	C	T	7802	-0.08	0.02	0.00	0.00	21.22
rs148895950	N-acetylglutamate levels	GCST90199637	7	118109730	G	T	7802	-0.30	0.07	0.00	0.00	19.76
rs10957056	N-acetylglutamate levels	GCST90199637	8	58487627	C	A	7802	0.09	0.02	0.00	0.00	19.84
rs116233634	N-acetylglutamate levels	GCST90199637	9	14712674	G	A	7802	0.28	0.06	0.00	0.00	20.57
rs12554315	N-acetylglutamate levels	GCST90199637	9	26390175	A	T	7802	0.16	0.03	0.00	0.00	20.89
rs4336667	N-acetylglutamate levels	GCST90199637	9	105978380	A	G	7802	-0.07	0.02	0.00	0.00	21.42
rs2265815	N-acetylglutamate levels	GCST90199637	9	127531312	G	A	7802	0.09	0.02	0.00	0.00	20.70
rs10762589	N-acetylglutamate levels	GCST90199637	10	74229994	T	C	7802	-0.09	0.02	0.00	0.00	24.91
rs2803552	N-acetylglutamate levels	GCST90199637	10	86543369	C	T	7802	-0.21	0.04	0.00	0.00	23.88
rs60665648	N-acetylglutamate levels	GCST90199637	13	41455862	C	T	7802	-0.26	0.06	0.00	0.00	22.16
rs7154858	N-acetylglutamate levels	GCST90199637	14	70529167	C	T	7802	0.09	0.02	0.00	0.00	19.81
rs28690110	N-acetylglutamate levels	GCST90199637	17	43990158	T	C	7802	-0.08	0.02	0.00	0.00	20.17
rs10854172	N-acetylglutamate levels	GCST90199637	20	46598884	C	T	7802	0.12	0.02	0.00	0.00	34.90

rs72650882	Glycerol 3-phosphate levels	GCST90199638	1	20713817	C	T	8201	0.19	0.04	0.00	0.00	23.39
rs56704741	Glycerol 3-phosphate levels	GCST90199638	1	21378351	C	T	8201	-0.10	0.02	0.00	0.00	40.31
rs149344982	Glycerol 3-phosphate levels	GCST90199638	1	21563267	A	G	8201	0.32	0.07	0.00	0.00	22.49
rs1780318	Glycerol 3-phosphate levels	GCST90199638	1	21569132	T	A	8201	0.45	0.03	0.00	0.02	180.75
rs6695630	Glycerol 3-phosphate levels	GCST90199638	1	39602239	G	C	8201	-0.11	0.02	0.00	0.00	22.21
rs138201625	Glycerol 3-phosphate levels	GCST90199638	1	158472466	C	G	8201	0.33	0.07	0.00	0.00	23.01
rs16840029	Glycerol 3-phosphate levels	GCST90199638	1	240441410	A	G	8201	0.17	0.04	0.00	0.00	20.43
rs72852030	Glycerol 3-phosphate levels	GCST90199638	2	29222247	T	C	8201	0.27	0.06	0.00	0.00	20.71
rs149000340	Glycerol 3-phosphate levels	GCST90199638	2	207084178	T	C	8201	-0.28	0.06	0.00	0.00	22.67
rs162416	Glycerol 3-phosphate levels	GCST90199638	3	324356	G	T	8201	0.08	0.02	0.00	0.00	19.65
rs113971921	Glycerol 3-phosphate levels	GCST90199638	4	108745728	T	C	8201	0.10	0.02	0.00	0.00	20.63
rs79393239	Glycerol 3-phosphate levels	GCST90199638	4	184336884	T	C	8201	-0.21	0.05	0.00	0.00	20.47
rs337370	Glycerol 3-phosphate levels	GCST90199638	5	177500083	T	C	8201	-0.07	0.02	0.00	0.00	21.39
rs143671553	Glycerol 3-phosphate levels	GCST90199638	6	76893247	G	A	8201	-0.24	0.05	0.00	0.00	22.34
rs118174096	Glycerol 3-phosphate levels	GCST90199638	6	112661622	T	C	8201	-0.28	0.06	0.00	0.00	20.99
rs4709324	Glycerol 3-phosphate levels	GCST90199638	6	159442131	C	T	8201	-0.10	0.02	0.00	0.00	20.86
rs6945869	Glycerol 3-phosphate levels	GCST90199638	7	154196642	T	C	8201	-0.18	0.04	0.00	0.00	19.91
rs3750309	Glycerol 3-phosphate levels	GCST90199638	8	60876009	G	T	8201	0.08	0.02	0.00	0.00	24.65
rs12770630	Glycerol 3-phosphate levels	GCST90199638	10	109776626	T	C	8201	-0.12	0.02	0.00	0.00	23.94
rs118152300	Glycerol 3-phosphate levels	GCST90199638	10	120249022	T	G	8201	0.17	0.04	0.00	0.00	19.96
rs73499488	Glycerol 3-phosphate levels	GCST90199638	11	80347492	G	C	8201	0.25	0.05	0.00	0.00	22.94
rs11603769	Glycerol 3-phosphate levels	GCST90199638	11	98185552	C	G	8201	0.23	0.05	0.00	0.00	20.12
rs117110311	Glycerol 3-phosphate levels	GCST90199638	11	107383264	C	G	8201	0.49	0.11	0.00	0.00	21.13
rs7968044	Glycerol 3-phosphate levels	GCST90199638	12	97298167	C	A	8201	-0.10	0.02	0.00	0.00	19.75

rs75198564	Glycerol 3-phosphate levels	GCST90199638	12	125321224	G	A	8201	0.09	0.02	0.00	0.00	20.60
rs7319463	Glycerol 3-phosphate levels	GCST90199638	13	31418470	A	G	8201	-0.22	0.05	0.00	0.00	21.84
rs10521085	Glycerol 3-phosphate levels	GCST90199638	16	7662319	T	C	8201	-0.11	0.02	0.00	0.00	20.69
rs537609697	Glycerol 3-phosphate levels	GCST90199638	16	33920063	G	A	8201	-0.42	0.09	0.00	0.00	23.63
rs74622263	Glycerol 3-phosphate levels	GCST90199638	16	87361698	G	A	8201	-0.15	0.03	0.00	0.00	19.80
rs186366783	Glycerol 3-phosphate levels	GCST90199638	20	5516581	A	T	8201	0.30	0.05	0.00	0.00	31.72
rs186970614	Glycerol 3-phosphate levels	GCST90199638	20	42205095	C	G	8201	0.35	0.08	0.00	0.00	19.75
rs3765719	Imidazole lactate levels	GCST90199639	1	3687327	C	T	8256	0.13	0.03	0.00	0.00	20.28
rs61774831	Imidazole lactate levels	GCST90199639	1	53879416	A	C	8256	0.32	0.07	0.00	0.00	20.37
rs490379	Imidazole lactate levels	GCST90199639	1	88252216	C	A	8256	-0.13	0.02	0.00	0.00	36.82
rs7530513	Imidazole lactate levels	GCST90199639	1	88944228	A	G	8256	0.40	0.01	0.00	0.08	753.12
rs61798917	Imidazole lactate levels	GCST90199639	1	89040410	A	G	8256	0.08	0.02	0.00	0.00	24.41
rs7563086	Imidazole lactate levels	GCST90199639	2	46142357	T	C	8256	0.14	0.03	0.00	0.00	23.24
rs9878908	Imidazole lactate levels	GCST90199639	3	12260963	T	C	8256	-0.09	0.02	0.00	0.00	21.15
rs150565193	Imidazole lactate levels	GCST90199639	3	26721560	T	C	8256	-0.25	0.05	0.00	0.00	20.71
rs116793365	Imidazole lactate levels	GCST90199639	3	37065699	G	A	8256	-0.30	0.07	0.00	0.00	20.08
rs145281230	Imidazole lactate levels	GCST90199639	3	50205849	G	A	8256	-0.44	0.07	0.00	0.00	35.29
rs28410020	Imidazole lactate levels	GCST90199639	4	3849751	C	G	8256	0.08	0.02	0.00	0.00	22.86
rs2315488	Imidazole lactate levels	GCST90199639	4	139202403	A	G	8256	-0.09	0.02	0.00	0.00	22.40
rs72933650	Imidazole lactate levels	GCST90199639	6	105879701	T	C	8256	0.13	0.03	0.00	0.00	19.56
rs72943057	Imidazole lactate levels	GCST90199639	6	106574147	C	T	8256	-0.22	0.05	0.00	0.00	19.69
rs10277377	Imidazole lactate levels	GCST90199639	7	54909022	T	C	8256	0.12	0.03	0.00	0.00	20.56
rs149262976	Imidazole lactate levels	GCST90199639	7	79487462	C	T	8256	0.41	0.09	0.00	0.00	20.97
rs1441770	Imidazole lactate levels	GCST90199639	8	19899808	A	G	8256	-0.08	0.02	0.00	0.00	23.16
rs2805103	Imidazole lactate levels	GCST90199639	9	128836618	A	T	8256	0.10	0.02	0.00	0.00	33.18
rs148327605	Imidazole lactate levels	GCST90199639	10	92225957	T	C	8256	0.14	0.03	0.00	0.00	20.26
rs4150575	Imidazole lactate levels	GCST90199639	11	18334919	T	C	8256	0.11	0.02	0.00	0.01	41.72
rs10774021	Imidazole lactate levels	GCST90199639	12	240132	T	C	8256	0.19	0.02	0.00	0.02	150.43
rs146849590	Imidazole lactate levels	GCST90199639	12	89073057	C	A	8256	-0.50	0.11	0.00	0.00	19.52
rs11076256	Imidazole lactate levels	GCST90199639	16	58718562	T	C	8256	0.71	0.03	0.00	0.08	693.80
rs143277630	Imidazole lactate levels	GCST90199639	16	58781671	T	C	8256	-0.31	0.04	0.00	0.01	77.14
rs183176218	Imidazole lactate levels	GCST90199639	16	83825508	A	T	8256	-0.17	0.04	0.00	0.00	19.72
rs12601778	Imidazole lactate levels	GCST90199639	17	82233472	T	C	8256	-0.11	0.02	0.00	0.01	48.96

rs11672362	Imidazole lactate levels	GCST90199639	19	43645748	T	C	8256	0.18	0.04	0.00	0.00	19.73
rs2229742	Imidazole lactate levels	GCST90199639	21	14966851	C	G	8256	0.12	0.03	0.00	0.00	21.02
rs140527149	4-guanidinobutanoate levels	GCST90199640	1	15581637	C	A	8144	-0.46	0.01	0.00	0.12	#####
rs71631750	4-guanidinobutanoate levels	GCST90199640	1	15757403	C	G	8144	0.10	0.02	0.00	0.00	26.34
rs11580678	4-guanidinobutanoate levels	GCST90199640	1	90159570	T	G	8144	-0.07	0.02	0.00	0.00	21.43
rs57389554	4-guanidinobutanoate levels	GCST90199640	2	151848216	A	G	8144	-0.14	0.03	0.00	0.00	20.34
rs114708452	4-guanidinobutanoate levels	GCST90199640	3	146791475	T	C	8144	0.19	0.04	0.00	0.00	24.64
rs151040866	4-guanidinobutanoate levels	GCST90199640	4	6543550	A	G	8144	-0.16	0.03	0.00	0.00	23.81
rs13107325	4-guanidinobutanoate levels	GCST90199640	4	102267552	T	C	8144	0.13	0.03	0.00	0.00	21.01
rs6556949	4-guanidinobutanoate levels	GCST90199640	5	97146631	T	C	8144	0.07	0.02	0.00	0.00	19.85
rs7380998	4-guanidinobutanoate levels	GCST90199640	5	112609807	G	A	8144	-0.18	0.04	0.00	0.00	21.73
rs13163650	4-guanidinobutanoate levels	GCST90199640	5	155810911	G	A	8144	0.08	0.02	0.00	0.00	22.15
rs61287921	4-guanidinobutanoate levels	GCST90199640	6	89346157	A	G	8144	-0.31	0.07	0.00	0.00	20.20
rs706151	4-guanidinobutanoate levels	GCST90199640	7	134425414	G	A	8144	0.07	0.01	0.00	0.00	19.91
rs150629268	4-guanidinobutanoate levels	GCST90199640	8	24506353	T	G	8144	0.22	0.05	0.00	0.00	21.12
rs140852306	4-guanidinobutanoate levels	GCST90199640	9	95736243	T	C	8144	-0.13	0.03	0.00	0.00	20.99
rs11787780	4-guanidinobutanoate levels	GCST90199640	9	133589988	T	C	8144	0.07	0.02	0.00	0.00	20.27
rs72632963	4-guanidinobutanoate levels	GCST90199640	11	12411139	C	T	8144	-0.27	0.06	0.00	0.00	19.82
rs7969761	4-guanidinobutanoate levels	GCST90199640	12	246676	T	C	8144	0.09	0.02	0.00	0.00	35.48
rs61991622	4-guanidinobutanoate levels	GCST90199640	14	41384425	A	G	8144	0.14	0.03	0.00	0.00	20.39
rs45622433	4-guanidinobutanoate levels	GCST90199640	14	75023053	A	G	8144	-0.39	0.08	0.00	0.00	21.44
rs112807038	4-guanidinobutanoate levels	GCST90199640	18	14342105	T	C	8144	0.19	0.04	0.00	0.00	20.81
rs77951681	4-guanidinobutanoate levels	GCST90199640	18	21587191	C	T	8144	0.10	0.02	0.00	0.00	21.97
rs12092559	Glucuronate levels	GCST90199641	1	53119153	T	G	7988	-0.11	0.02	0.00	0.00	20.51
rs111273747	Glucuronate levels	GCST90199641	2	54160481	G	A	7988	0.35	0.08	0.00	0.00	21.12
rs140946796	Glucuronate levels	GCST90199641	3	13141142	G	T	7988	0.37	0.08	0.00	0.00	21.26

rs1561398	Glucuronate levels	GCST90199641	5	72190958	T	C	7988	-0.08	0.02	0.00	0.00	21.76
rs62391856	Glucuronate levels	GCST90199641	5	126449075	T	C	7988	0.09	0.02	0.00	0.00	21.04
rs9491556	Glucuronate levels	GCST90199641	6	98429880	T	C	7988	0.42	0.09	0.00	0.00	20.07
rs117910752	Glucuronate levels	GCST90199641	8	37721648	G	A	7988	0.19	0.04	0.00	0.00	23.73
rs141615044	Glucuronate levels	GCST90199641	9	129612425	A	C	7988	0.34	0.07	0.00	0.00	20.51
rs10898981	Glucuronate levels	GCST90199641	11	74381420	C	A	7988	0.08	0.02	0.00	0.00	22.05
rs189957470	Glucuronate levels	GCST90199641	12	56534866	T	C	7988	-0.29	0.06	0.00	0.00	22.27
rs6539427	Glucuronate levels	GCST90199641	12	108450527	C	T	7988	-0.08	0.02	0.00	0.00	21.09
rs1959120	Glucuronate levels	GCST90199641	14	101101893	T	A	7988	-0.07	0.02	0.00	0.00	21.01
rs12050756	Glucuronate levels	GCST90199641	15	32792425	G	A	7988	0.20	0.04	0.00	0.00	20.80
rs150551895	Glucuronate levels	GCST90199641	21	17149914	T	C	7988	0.26	0.06	0.00	0.00	20.36
rs7510321	Glucuronate levels	GCST90199641	21	31524330	C	T	7988	0.08	0.02	0.00	0.00	19.66
rs73231674	Glucuronate levels	GCST90199641	21	42831393	G	T	7988	-0.14	0.03	0.00	0.00	20.17
rs116932970	Glucuronate levels	GCST90199641	22	18070390	C	A	7988	0.17	0.04	0.00	0.00	19.60
rs3845611	Ribitol levels	GCST90199642	1	13580483	G	T	8128	-0.10	0.02	0.00	0.00	21.36
rs2744764	Ribitol levels	GCST90199642	1	25722122	T	C	8128	0.12	0.03	0.00	0.00	20.49
rs72688441	Ribitol levels	GCST90199642	1	45585381	A	G	8128	-0.60	0.03	0.00	0.04	323.83
rs12144476	Ribitol levels	GCST90199642	1	184922992	C	T	8128	0.22	0.05	0.00	0.00	21.28
rs74995512	Ribitol levels	GCST90199642	2	54360165	A	G	8128	-0.33	0.07	0.00	0.00	21.09
rs13100424	Ribitol levels	GCST90199642	3	62130041	G	C	8128	0.29	0.06	0.00	0.00	28.66
rs1420467	Ribitol levels	GCST90199642	3	169009292	A	G	8128	0.09	0.02	0.00	0.00	23.20
rs73248229	Ribitol levels	GCST90199642	4	41028911	G	T	8128	-0.19	0.04	0.00	0.00	20.74
rs115232717	Ribitol levels	GCST90199642	5	62246077	G	A	8128	-0.52	0.10	0.00	0.00	26.91
rs111534509	Ribitol levels	GCST90199642	5	97927918	A	G	8128	0.16	0.03	0.00	0.00	20.28
rs186730428	Ribitol levels	GCST90199642	5	119601173	G	A	8128	-0.07	0.02	0.00	0.00	20.67
rs144424724	Ribitol levels	GCST90199642	7	3631189	T	C	8128	-0.33	0.07	0.00	0.00	20.14
rs80012250	Ribitol levels	GCST90199642	7	8248643	G	A	8128	-0.16	0.04	0.00	0.00	20.42
rs60688348	Ribitol levels	GCST90199642	7	157052597	C	A	8128	0.08	0.02	0.00	0.00	20.19
rs77703857	Ribitol levels	GCST90199642	8	13054916	T	C	8128	0.19	0.04	0.00	0.00	19.61
rs73217598	Ribitol levels	GCST90199642	8	14190551	A	G	8128	0.31	0.06	0.00	0.00	22.51
rs113682909	Ribitol levels	GCST90199642	8	67846768	C	G	8128	-0.41	0.08	0.00	0.00	25.32
rs2186050	Ribitol levels	GCST90199642	9	129603702	C	G	8128	-0.08	0.02	0.00	0.00	22.23
rs142220999	Ribitol levels	GCST90199642	10	18476449	T	C	8128	0.33	0.07	0.00	0.00	20.13
rs7903429	Ribitol levels	GCST90199642	10	68178595	T	C	8128	0.10	0.02	0.00	0.00	22.35
rs117587050	Ribitol levels	GCST90199642	11	105893774	C	T	8128	0.30	0.06	0.00	0.00	22.72
rs77987208	Ribitol levels	GCST90199642	12	4758793	C	T	8128	-0.12	0.02	0.00	0.00	26.77
rs572823378	Ribitol levels	GCST90199642	12	40624697	A	C	8128	-0.27	0.06	0.00	0.00	20.64
rs73317157	Ribitol levels	GCST90199642	12	66992819	A	G	8128	-0.12	0.03	0.00	0.00	20.13
rs183901354	Ribitol levels	GCST90199642	13	32328310	T	C	8128	-0.90	0.19	0.00	0.00	22.75
rs192431765	Ribitol levels	GCST90199642	13	98287262	C	G	8128	0.41	0.09	0.00	0.00	21.54
rs145095548	Ribitol levels	GCST90199642	14	80786850	C	A	8128	0.52	0.11	0.00	0.00	21.59
rs72722075	Ribitol levels	GCST90199642	15	45031276	T	C	8128	-0.14	0.02	0.00	0.00	35.98
rs7190382	Ribitol levels	GCST90199642	16	77504386	T	A	8128	-0.08	0.02	0.00	0.00	24.42
rs34552467	Ribitol levels	GCST90199642	16	88476287	C	A	8128	0.07	0.02	0.00	0.00	20.30
rs62058095	Ribitol levels	GCST90199642	17	57525201	C	G	8128	-0.36	0.08	0.00	0.00	19.72
rs12967772	Ribitol levels	GCST90199642	18	66948438	T	C	8128	0.11	0.02	0.00	0.00	21.76
rs7252227	Ribitol levels	GCST90199642	19	40795210	T	G	8128	-0.07	0.02	0.00	0.00	20.51
rs12625462	Ribitol levels	GCST90199642	20	860453	A	G	8128	0.10	0.02	0.00	0.00	20.42
rs13046014	Ribitol levels	GCST90199642	21	23833029	C	G	8128	0.14	0.03	0.00	0.00	23.23

rs111422112	Ribitol levels	GCST90199642	22	23574266	C	T	8128	0.34	0.08	0.00	0.00	20.70
rs117035597	Ribitol levels	GCST90199642	22	36220843	A	C	8128	-0.16	0.04	0.00	0.00	19.84
rs146174820	Glycodeoxycholate levels	GCST90199643	2	68387100	A	G	6877	-0.29	0.06	0.00	0.00	21.90
rs2290258	Glycodeoxycholate levels	GCST90199643	2	99400611	C	A	6877	0.12	0.03	0.00	0.00	20.67
rs3132031	Glycodeoxycholate levels	GCST90199643	2	114219580	C	G	6877	0.14	0.03	0.00	0.00	19.75
rs73153108	Glycodeoxycholate levels	GCST90199643	3	27092670	T	C	6877	0.23	0.05	0.00	0.00	19.98
rs60930884	Glycodeoxycholate levels	GCST90199643	3	70517313	G	T	6877	-0.13	0.03	0.00	0.00	19.89
rs115480587	Glycodeoxycholate levels	GCST90199643	4	35291120	G	A	6877	-0.24	0.05	0.00	0.00	20.67
rs13101279	Glycodeoxycholate levels	GCST90199643	4	43747301	A	G	6877	0.08	0.02	0.00	0.00	19.83
rs7687207	Glycodeoxycholate levels	GCST90199643	4	89128817	G	A	6877	0.08	0.02	0.00	0.00	20.52
rs55917677	Glycodeoxycholate levels	GCST90199643	4	153779899	T	C	6877	0.09	0.02	0.00	0.00	20.82
rs80078071	Glycodeoxycholate levels	GCST90199643	4	180100099	A	G	6877	0.10	0.02	0.00	0.00	20.14
rs62448268	Glycodeoxycholate levels	GCST90199643	7	22789845	A	G	6877	0.10	0.02	0.00	0.00	21.42
rs76962381	Glycodeoxycholate levels	GCST90199643	8	58264401	T	C	6877	-0.11	0.02	0.00	0.00	27.52
rs75878687	Glycodeoxycholate levels	GCST90199643	9	7721779	C	G	6877	0.27	0.06	0.00	0.00	19.79
rs74927400	Glycodeoxycholate levels	GCST90199643	11	75231821	T	C	6877	0.33	0.07	0.00	0.00	23.63
rs2155345	Glycodeoxycholate levels	GCST90199643	11	106056961	T	G	6877	-0.08	0.02	0.00	0.00	19.81
rs9514591	Glycodeoxycholate levels	GCST90199643	13	106902887	C	T	6877	-0.08	0.02	0.00	0.00	19.75
rs2351511	Glycodeoxycholate levels	GCST90199643	14	61082729	T	C	6877	0.32	0.07	0.00	0.00	19.85
rs7403557	Glycodeoxycholate levels	GCST90199643	15	27057832	G	A	6877	0.10	0.02	0.00	0.00	27.86
rs115155467	Glycodeoxycholate levels	GCST90199643	16	22060895	G	A	6877	-0.46	0.09	0.00	0.00	23.88
rs118040844	Glycodeoxycholate levels	GCST90199643	17	14355668	A	T	6877	0.43	0.10	0.00	0.00	20.36
rs6669746	Theobromine levels	GCST90199644	1	15027271	A	G	8137	0.07	0.02	0.00	0.00	20.62
rs2628473	Theobromine levels	GCST90199644	2	88810258	C	G	8137	0.08	0.02	0.00	0.00	19.67
rs115810418	Theobromine levels	GCST90199644	2	105327409	T	A	8137	0.17	0.04	0.00	0.00	21.92
rs72870405	Theobromine levels	GCST90199644	2	162080573	A	T	8137	-0.15	0.03	0.00	0.00	22.06
rs35155698	Theobromine levels	GCST90199644	3	895304	C	T	8137	0.08	0.02	0.00	0.00	19.55
rs13065149	Theobromine levels	GCST90199644	3	176871340	T	G	8137	-0.08	0.02	0.00	0.00	23.14
rs79880362	Theobromine levels	GCST90199644	4	125202033	T	C	8137	0.15	0.03	0.00	0.00	24.80
rs6878843	Theobromine levels	GCST90199644	5	103831871	T	G	8137	0.12	0.03	0.00	0.00	20.73
rs116892987	Theobromine levels	GCST90199644	6	102527357	A	G	8137	-0.33	0.07	0.00	0.00	21.38
rs6569661	Theobromine levels	GCST90199644	6	130185619	G	A	8137	-0.09	0.02	0.00	0.00	23.28
rs62462718	Theobromine levels	GCST90199644	7	63832020	A	G	8137	-0.08	0.02	0.00	0.00	19.99
rs2529273	Theobromine levels	GCST90199644	7	74873835	T	C	8137	0.10	0.02	0.00	0.00	32.18
rs12549440	Theobromine levels	GCST90199644	8	122576372	T	C	8137	0.08	0.02	0.00	0.00	23.16
rs117966480	Theobromine levels	GCST90199644	9	126819947	C	A	8137	-0.32	0.07	0.00	0.00	24.28
rs144661998	Theobromine levels	GCST90199644	10	105655335	A	G	8137	0.10	0.02	0.00	0.00	20.24

rs147824813	Theobromine levels	GCST90199644	10	127259371	G	T	8137	0.30	0.07	0.00	0.00	19.71
rs7485735	Theobromine levels	GCST90199644	12	71325737	C	T	8137	-0.08	0.02	0.00	0.00	20.56
rs12431055	Theobromine levels	GCST90199644	13	29639326	T	C	8137	0.13	0.03	0.00	0.00	19.89
rs150576152	Theobromine levels	GCST90199644	15	62851995	G	A	8137	0.21	0.05	0.00	0.00	20.57
rs566861268	Theobromine levels	GCST90199644	16	13703714	A	G	8137	0.52	0.12	0.00	0.00	20.10
rs6497692	Theobromine levels	GCST90199644	16	23868061	T	C	8137	0.07	0.02	0.00	0.00	22.90
rs11657948	Theobromine levels	GCST90199644	17	9168331	A	G	8137	0.12	0.03	0.00	0.00	19.58
rs11653172	Theobromine levels	GCST90199644	17	12739959	G	A	8137	-0.07	0.02	0.00	0.00	19.79
rs56113850	Theobromine levels	GCST90199644	19	40847202	C	T	8137	-0.11	0.02	0.00	0.01	46.23
rs62205691	Theobromine levels	GCST90199644	20	57241225	A	G	8137	-0.28	0.06	0.00	0.00	19.90
rs139776	Theobromine levels	GCST90199644	22	24917479	T	C	8137	-0.08	0.02	0.00	0.00	24.19
rs113666924	Theobromine levels	GCST90199644	22	40846014	A	G	8137	-0.20	0.04	0.00	0.00	21.35
rs553719	Quinate levels	GCST90199645	1	36867336	C	T	8200	0.15	0.03	0.00	0.00	20.05
rs114371828	Quinate levels	GCST90199645	1	201989140	T	C	8200	-0.27	0.06	0.00	0.00	19.71
rs1594297	Quinate levels	GCST90199645	2	16476976	A	G	8200	0.22	0.05	0.00	0.00	19.82
rs116020639	Quinate levels	GCST90199645	2	64880349	C	T	8200	-0.32	0.06	0.00	0.00	25.67
rs112388569	Quinate levels	GCST90199645	4	7138269	T	C	8200	-0.30	0.07	0.00	0.00	19.78
rs140759816	Quinate levels	GCST90199645	5	16902686	A	T	8200	-0.19	0.04	0.00	0.00	21.06
rs34099891	Quinate levels	GCST90199645	5	60842512	T	G	8200	-0.08	0.02	0.00	0.00	22.36
rs74489311	Quinate levels	GCST90199645	5	163789181	A	T	8200	-1.13	0.24	0.00	0.00	21.98
rs77082173	Quinate levels	GCST90199645	6	6132622	T	C	8200	0.20	0.05	0.00	0.00	19.66
rs4148714	Quinate levels	GCST90199645	7	117598399	C	A	8200	-0.13	0.03	0.00	0.00	21.60
rs73202647	Quinate levels	GCST90199645	8	12746929	C	T	8200	-0.11	0.02	0.00	0.00	20.96
rs73328382	Quinate levels	GCST90199645	10	99422751	A	C	8200	-0.49	0.10	0.00	0.00	23.26
rs186185553	Quinate levels	GCST90199645	11	57944141	T	C	8200	-0.26	0.06	0.00	0.00	20.17
rs115520044	Quinate levels	GCST90199645	14	49488289	A	G	8200	0.33	0.06	0.00	0.00	29.60
rs62027288	Quinate levels	GCST90199645	15	75142406	C	T	8200	0.08	0.02	0.00	0.00	23.65
rs183574340	Quinate levels	GCST90199645	17	12699211	A	G	8200	-0.42	0.08	0.00	0.00	24.76
rs2108740	Quinate levels	GCST90199645	17	13876053	A	C	8200	-0.17	0.04	0.00	0.00	20.51
rs145444661	Quinate levels	GCST90199645	18	43137607	T	C	8200	-0.33	0.07	0.00	0.00	23.49
rs76051019	Quinate levels	GCST90199645	21	33150052	A	G	8200	-0.23	0.05	0.00	0.00	22.69
rs5997787	Quinate levels	GCST90199645	22	30858967	C	T	8200	0.07	0.02	0.00	0.00	21.24
rs3861695	Gentisate levels	GCST90199646	1	83506486	T	C	8013	-0.08	0.02	0.00	0.00	20.21
rs522708	Gentisate levels	GCST90199646	1	96017489	G	A	8013	-0.08	0.02	0.00	0.00	23.44
rs187258635	Gentisate levels	GCST90199646	1	207663120	T	C	8013	-0.24	0.05	0.00	0.00	19.67
rs72824920	Gentisate levels	GCST90199646	2	50345769	C	T	8013	0.19	0.04	0.00	0.00	26.90
rs12471344	Gentisate levels	GCST90199646	2	154259805	A	G	8013	-0.20	0.04	0.00	0.00	23.10
rs72950259	Gentisate levels	GCST90199646	2	215026687	G	T	8013	0.41	0.09	0.00	0.00	19.98
rs77380220	Gentisate levels	GCST90199646	3	70959872	A	G	8013	0.22	0.05	0.00	0.00	20.92
rs73217253	Gentisate levels	GCST90199646	3	133872734	A	G	8013	-0.16	0.03	0.00	0.00	24.08
rs147503040	Gentisate levels	GCST90199646	3	182797506	A	G	8013	0.24	0.05	0.00	0.00	24.47
rs79188489	Gentisate levels	GCST90199646	4	29074567	T	G	8013	0.34	0.08	0.00	0.00	20.95
rs62362979	Gentisate levels	GCST90199646	5	84208390	G	A	8013	0.27	0.06	0.00	0.00	20.01

rs62621664	Gentisate levels	GCST90199646	6	24504968	T	G	8013	0.27	0.06	0.00	0.00	21.26
rs37570948 2	Gentisate levels	GCST90199646	6	114434155	T	C	8013	-0.27	0.06	0.00	0.00	24.10
rs10097464	Gentisate levels	GCST90199646	8	135773275	C	T	8013	-0.07	0.02	0.00	0.00	20.94
rs1041350	Gentisate levels	GCST90199646	9	23613595	C	T	8013	0.10	0.02	0.00	0.00	22.69
rs1010664	Gentisate levels	GCST90199646	10	14923688	C	T	8013	0.20	0.04	0.00	0.00	21.44
rs77091748	Gentisate levels	GCST90199646	11	79180565	T	C	8013	0.26	0.06	0.00	0.00	19.74
rs76930336	Gentisate levels	GCST90199646	11	118594049	A	C	8013	-0.20	0.04	0.00	0.00	21.92
rs11381265 0	Gentisate levels	GCST90199646	12	95395376	T	C	8013	-0.42	0.09	0.00	0.00	20.88
rs9572022	Gentisate levels	GCST90199646	13	68811966	G	A	8013	-0.08	0.02	0.00	0.00	23.65
rs11716776 3	Gentisate levels	GCST90199646	13	75106967	T	C	8013	0.59	0.13	0.00	0.00	20.04
rs72645867	Gentisate levels	GCST90199646	13	95314726	A	G	8013	0.16	0.03	0.00	0.00	24.01
rs75476920	Gentisate levels	GCST90199646	17	42064447	C	T	8013	-0.09	0.02	0.00	0.00	19.76
rs9959080	Gentisate levels	GCST90199646	18	59433536	A	G	8013	-0.09	0.02	0.00	0.00	22.73
rs10153505	Gentisate levels	GCST90199646	19	652948	G	T	8013	-0.11	0.02	0.00	0.00	22.69
rs367715	Gentisate levels	GCST90199646	20	46487542	G	A	8013	0.07	0.02	0.00	0.00	20.17
rs2833465	Gentisate levels	GCST90199646	21	31591790	T	C	8013	-0.11	0.02	0.00	0.00	22.83
rs6010005	Gentisate levels	GCST90199646	22	50558690	C	G	8013	0.23	0.05	0.00	0.00	21.14
rs10902695	Theophylline levels	GCST90199647	1	28319022	T	C	7822	-0.08	0.02	0.00	0.00	21.30
rs72793907	Theophylline levels	GCST90199647	2	22537986	G	A	7822	-0.27	0.06	0.00	0.00	20.47
rs1388182	Theophylline levels	GCST90199647	2	179285708	T	C	7822	-0.16	0.03	0.00	0.00	19.93
rs11411047 8	Theophylline levels	GCST90199647	3	60439249	C	G	7822	0.14	0.03	0.00	0.00	22.09
rs75723819	Theophylline levels	GCST90199647	3	120099185	A	C	7822	-0.21	0.05	0.00	0.00	20.37
rs75870478	Theophylline levels	GCST90199647	4	35563982	T	C	7822	-0.28	0.06	0.00	0.00	21.93
rs67360043	Theophylline levels	GCST90199647	4	38938213	A	T	7822	0.09	0.02	0.00	0.00	20.35
rs258831	Theophylline levels	GCST90199647	5	11415085	G	C	7822	-0.10	0.02	0.00	0.00	19.76
rs11692660 4	Theophylline levels	GCST90199647	7	86916079	C	T	7822	-0.28	0.06	0.00	0.00	21.79
rs79361921	Theophylline levels	GCST90199647	8	58022004	A	G	7822	-0.23	0.05	0.00	0.00	24.54
rs17428030	Theophylline levels	GCST90199647	9	84338706	G	A	7822	0.14	0.03	0.00	0.00	20.48
rs12259905	Theophylline levels	GCST90199647	10	28920494	T	C	7822	0.16	0.03	0.00	0.00	25.74
rs4615950	Theophylline levels	GCST90199647	10	106010522	T	C	7822	-0.07	0.02	0.00	0.00	20.05
rs34804482	Theophylline levels	GCST90199647	11	27368192	C	T	7822	-0.24	0.05	0.00	0.00	21.10
rs643104	Theophylline levels	GCST90199647	11	118696416	C	T	7822	-0.08	0.02	0.00	0.00	21.81
rs74069834	Theophylline levels	GCST90199647	12	21946362	G	A	7822	-0.27	0.06	0.00	0.00	19.60
rs7323950	Theophylline levels	GCST90199647	13	22199638	G	A	7822	-0.08	0.02	0.00	0.00	20.55
rs11657294 6	Theophylline levels	GCST90199647	13	60080909	T	C	7822	-0.28	0.06	0.00	0.00	20.95
rs79542551	Theophylline levels	GCST90199647	13	93072020	G	A	7822	-0.33	0.07	0.00	0.00	21.04
rs11552004 4	Theophylline levels	GCST90199647	14	49488289	A	G	7822	0.32	0.06	0.00	0.00	27.12

rs75095637	Theophylline levels	GCST90199647	15	24913444	C	A	7822	0.14	0.03	0.00	0.00	20.67
rs180968112	Theophylline levels	GCST90199647	16	16587338	A	G	7822	-0.31	0.07	0.00	0.00	19.51
rs74526939	Theophylline levels	GCST90199647	18	50073331	G	A	7822	-0.20	0.04	0.00	0.00	20.53
rs149370966	Theophylline levels	GCST90199647	20	39722660	A	G	7822	-0.27	0.06	0.00	0.00	20.26
rs2245730	Theophylline levels	GCST90199647	21	42705218	C	A	7822	-0.08	0.02	0.00	0.00	23.47
rs526600	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	1	86900914	A	T	8139	-0.30	0.06	0.00	0.00	29.63
rs7536190	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	1	150426629	A	T	8139	0.11	0.02	0.00	0.00	22.28
rs2800798	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	1	164697016	A	G	8139	0.08	0.02	0.00	0.00	20.48
rs28429046	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	1	242003929	T	A	8139	0.09	0.02	0.00	0.00	21.20
rs219151	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	2	32990620	C	G	8139	-0.09	0.02	0.00	0.00	23.39
rs139280007	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	2	34621100	C	G	8139	-0.24	0.05	0.00	0.00	20.34
rs4988235	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	2	135851076	A	G	8139	0.13	0.02	0.00	0.01	65.01
rs138882034	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	3	14215441	C	T	8139	-0.40	0.08	0.00	0.00	22.34
rs147071339	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	3	120559843	G	A	8139	-0.72	0.16	0.00	0.00	21.65
rs6444144	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	3	165091228	T	C	8139	0.08	0.02	0.00	0.00	23.30
rs5026374	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	4	164806103	A	T	8139	0.07	0.02	0.00	0.00	20.65
rs112766573	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	6	75182536	T	C	8139	0.15	0.03	0.00	0.00	19.67
rs78394231	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	6	107327919	C	T	8139	0.12	0.03	0.00	0.00	20.42
rs118097969	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	7	8431366	A	C	8139	0.25	0.06	0.00	0.00	19.58
rs185053832	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	7	142063511	A	C	8139	-0.38	0.08	0.00	0.00	22.33
rs11976181	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	7	142097764	C	T	8139	-0.13	0.02	0.00	0.00	40.39
rs55646821	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	8	20747591	A	C	8139	0.15	0.03	0.00	0.00	23.44
rs868427	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	8	51531385	C	T	8139	-0.10	0.02	0.00	0.00	20.53
rs138306161	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	9	86712771	T	C	8139	-0.31	0.07	0.00	0.00	19.76
rs117813792	anhydroglucitol (1,5-ag) 1,5-	GCST90199648	9	113729402	G	A	8139	-0.33	0.07	0.00	0.00	24.94
rs111517692	anhydroglucitol (1,5-ag)	GCST90199648	9	130054393	A	G	8139	0.19	0.04	0.00	0.00	22.83

rs16923778	1,5-anhydroglucitol (1,5-ag)	GCST90199648	11	7241558	T	C	8139	-0.36	0.07	0.00	0.00	25.80
rs16936434	1,5-anhydroglucitol (1,5-ag)	GCST90199648	11	42229140	A	G	8139	-0.14	0.03	0.00	0.00	19.60
rs11219784	1,5-anhydroglucitol (1,5-ag)	GCST90199648	11	124810777	C	T	8139	-0.30	0.06	0.00	0.00	21.74
rs72670617	1,5-anhydroglucitol (1,5-ag)	GCST90199648	13	113913130	G	T	8139	-0.11	0.02	0.00	0.00	21.08
rs116855721	1,5-anhydroglucitol (1,5-ag)	GCST90199648	14	54584830	A	G	8139	0.24	0.05	0.00	0.00	21.68
rs10152997	1,5-anhydroglucitol (1,5-ag)	GCST90199648	15	60904958	C	T	8139	-0.08	0.02	0.00	0.00	24.86
rs34278530	1,5-anhydroglucitol (1,5-ag)	GCST90199648	16	84656112	C	T	8139	0.10	0.02	0.00	0.00	22.33
rs77283946	1,5-anhydroglucitol (1,5-ag)	GCST90199648	17	18982968	A	C	8139	-0.55	0.06	0.00	0.01	96.50
rs116139938	1,5-anhydroglucitol (1,5-ag)	GCST90199648	17	19002728	T	G	8139	-0.27	0.04	0.00	0.00	36.14
rs2638281	1,5-anhydroglucitol (1,5-ag)	GCST90199648	19	48707612	G	A	8139	0.08	0.02	0.00	0.00	24.78
rs190533843	1,5-anhydroglucitol (1,5-ag)	GCST90199648	21	44755668	G	A	8139	-0.40	0.08	0.00	0.00	22.98
rs11912766	1,5-anhydroglucitol (1,5-ag)	GCST90199648	22	26147122	A	G	8139	-3.06	0.69	0.00	0.00	19.95
rs11121795	GPI levels (18:0/20:4) 1-stearoyl-2-arachidonoyl-	GCST90199649	1	6399939	T	C	8134	-0.18	0.04	0.00	0.00	20.48
rs112957492	GPI levels (18:0/20:4) 1-stearoyl-2-arachidonoyl-	GCST90199649	1	62651339	C	T	8134	-0.20	0.02	0.00	0.02	154.99
rs74988287	GPI levels (18:0/20:4) 1-stearoyl-2-arachidonoyl-	GCST90199649	2	36690717	C	T	8134	-0.37	0.08	0.00	0.00	22.58
rs10188669	GPI levels (18:0/20:4) 1-stearoyl-2-arachidonoyl-	GCST90199649	2	150897389	A	G	8134	-0.07	0.02	0.00	0.00	19.72
rs115307528	GPI levels (18:0/20:4) 1-stearoyl-2-arachidonoyl-	GCST90199649	2	166268501	G	A	8134	-0.30	0.07	0.00	0.00	20.25
rs2712421	GPI levels (18:0/20:4) 1-stearoyl-2-arachidonoyl-	GCST90199649	3	128568900	T	G	8134	0.07	0.02	0.00	0.00	20.87
rs400810	GPI levels (18:0/20:4)	GCST90199649	5	31675054	G	A	8134	0.13	0.03	0.00	0.00	22.71

rs34542491	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	5	168805806	T	C	8134	0.09	0.02	0.00	0.00	20.15
rs140033739	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	6	30237375	A	G	8134	-0.17	0.04	0.00	0.00	22.33
rs3812316	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	7	73606007	G	C	8134	-0.14	0.02	0.00	0.00	35.14
rs60417901	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	7	92597062	T	C	8134	-0.23	0.05	0.00	0.00	19.66
rs141701630	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	7	100573450	T	C	8134	0.32	0.07	0.00	0.00	20.70
rs72697217	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	9	7763957	C	G	8134	0.14	0.03	0.00	0.00	20.11
rs174560	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	11	61814292	C	T	8134	-0.26	0.02	0.00	0.03	263.10
rs964184	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	11	116778201	C	G	8134	-0.19	0.02	0.00	0.01	74.98
rs2269938	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	12	119804210	G	C	8134	-0.10	0.02	0.00	0.00	26.33
rs112843621	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	14	26049841	G	A	8134	-0.37	0.08	0.00	0.00	22.04
rs80195574	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	14	34113605	A	G	8134	-0.22	0.05	0.00	0.00	22.03
rs1532085	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	15	58391167	G	A	8134	-0.09	0.02	0.00	0.00	33.93
rs79608464	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	16	71298685	A	G	8134	0.26	0.06	0.00	0.00	20.96
rs77960347	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	18	49583585	G	A	8134	0.48	0.06	0.00	0.01	57.27

rs7241918	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	18	49634583	T	G	8134	0.13	0.02	0.00	0.01	44.13
rs66466742	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	19	11225768	T	C	8134	-0.19	0.04	0.00	0.00	24.43
rs157595	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	19	44922203	G	A	8134	0.09	0.02	0.00	0.00	35.06
rs626283	1-stearoyl-2-arachidonoyl-GPI (18:0/20:4) levels	GCST90199649	19	54173307	G	C	8134	0.17	0.02	0.00	0.02	125.33
rs34380016	Indolelactate levels	GCST90199650	1	29231718	G	A	8233	-0.07	0.01	0.00	0.00	20.75
rs190002061	Indolelactate levels	GCST90199650	2	49252618	A	G	8233	-0.27	0.06	0.00	0.00	20.49
rs62154332	Indolelactate levels	GCST90199650	2	101471008	T	C	8233	0.12	0.03	0.00	0.00	19.94
rs7617388	Indolelactate levels	GCST90199650	3	18845898	G	A	8233	-0.09	0.02	0.00	0.00	19.57
rs185272650	Indolelactate levels	GCST90199650	3	183994764	T	C	8233	-0.30	0.07	0.00	0.00	19.67
rs1354368	Indolelactate levels	GCST90199650	4	99520729	G	A	8233	-0.07	0.01	0.00	0.00	23.89
rs11950935	Indolelactate levels	GCST90199650	5	27771436	C	T	8233	-0.08	0.02	0.00	0.00	19.90
rs73782967	Indolelactate levels	GCST90199650	5	116927323	A	G	8233	-0.15	0.03	0.00	0.00	23.30
rs1867457	Indolelactate levels	GCST90199650	5	180177217	C	T	8233	-0.10	0.02	0.00	0.00	19.83
rs113392484	Indolelactate levels	GCST90199650	6	78437780	C	T	8233	0.32	0.07	0.00	0.00	21.46
rs117078442	Indolelactate levels	GCST90199650	7	22296682	A	G	8233	-0.21	0.05	0.00	0.00	19.96
rs145909629	Indolelactate levels	GCST90199650	9	26547368	A	G	8233	0.32	0.06	0.00	0.00	29.74
rs2472509	Indolelactate levels	GCST90199650	9	104921949	G	T	8233	0.07	0.02	0.00	0.00	21.03
rs2997922	Indolelactate levels	GCST90199650	9	128818465	T	C	8233	0.19	0.02	0.00	0.02	139.05
rs142582686	Indolelactate levels	GCST90199650	10	101005147	T	G	8233	0.16	0.04	0.00	0.00	21.44
rs11598287	Indolelactate levels	GCST90199650	10	132100905	A	G	8233	0.07	0.02	0.00	0.00	21.89
rs75333405	Indolelactate levels	GCST90199650	12	89836373	C	T	8233	-0.17	0.04	0.00	0.00	19.65
rs2794660	Indolelactate levels	GCST90199650	13	46749020	T	C	8233	0.09	0.02	0.00	0.00	19.79
rs61674325	Indolelactate levels	GCST90199650	14	43587540	T	C	8233	-0.07	0.02	0.00	0.00	20.12
rs1255731	Indolelactate levels	GCST90199650	14	63549593	C	T	8233	-0.08	0.02	0.00	0.00	19.91
rs148403098	Indolelactate levels	GCST90199650	14	102351945	T	C	8233	0.17	0.04	0.00	0.00	21.75
rs139117506	Indolelactate levels	GCST90199650	15	83308234	C	A	8233	-0.18	0.04	0.00	0.00	21.48
rs11647808	Indolelactate levels	GCST90199650	16	58736977	A	C	8233	0.21	0.03	0.00	0.01	65.31
rs35021400	Indolelactate levels	GCST90199650	16	87013026	A	C	8233	-0.08	0.02	0.00	0.00	22.09
rs142009207	Indolelactate levels	GCST90199650	17	42394393	C	G	8233	-0.12	0.03	0.00	0.00	19.59
rs150393758	Indolelactate levels	GCST90199650	17	69863978	T	C	8233	0.17	0.04	0.00	0.00	19.63
rs19009	Indolelactate levels	GCST90199650	20	6755951	C	T	8233	-0.06	0.01	0.00	0.00	19.72

rs12129379	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	1	159995471	T	G	8279	0.09	0.02	0.00	0.00	22.30
rs181031465	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	2	164800745	T	C	8279	0.28	0.06	0.00	0.00	20.10
rs3731644	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	2	235041233	C	T	8279	0.11	0.02	0.00	0.00	20.62
rs11715464	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	3	42868195	G	A	8279	-0.07	0.02	0.00	0.00	20.02
rs11709701	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	3	197411278	T	C	8279	0.07	0.02	0.00	0.00	20.81
rs11930628	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	4	59788149	G	A	8279	0.12	0.03	0.00	0.00	22.39
rs1018091	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	4	143618621	C	T	8279	0.07	0.01	0.00	0.00	21.20
rs77207094	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	5	11520799	C	T	8279	-0.25	0.05	0.00	0.00	20.68
rs8523	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	6	10980820	A	G	8279	-0.08	0.01	0.00	0.00	28.19
rs187828726	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	6	158506347	G	T	8279	-0.22	0.05	0.00	0.00	20.68
rs73045049	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	7	2658714	A	G	8279	-0.18	0.04	0.00	0.00	20.77
rs34736275	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	7	80571027	A	G	8279	0.07	0.02	0.00	0.00	21.05
rs139278946	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	7	96776335	A	T	8279	-0.21	0.05	0.00	0.00	20.81
rs13268878	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	8	74456081	G	A	8279	-0.08	0.02	0.00	0.00	19.65
rs117676889	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	10	3308072	C	T	8279	0.19	0.04	0.00	0.00	20.44
rs148894582	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	10	58620420	G	A	8279	-0.29	0.07	0.00	0.00	20.07
rs174603	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	11	61858734	A	G	8279	-0.09	0.02	0.00	0.00	34.75
rs145325641	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	12	95241095	A	G	8279	-0.23	0.05	0.00	0.00	23.70
rs143268031	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	12	117697385	G	A	8279	0.48	0.10	0.00	0.00	21.19
rs73500833	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	13	26756076	T	C	8279	-0.27	0.06	0.00	0.00	20.59
rs144230997	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	13	70662972	T	A	8279	-0.32	0.07	0.00	0.00	21.61
rs1934826	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	13	75950409	A	G	8279	-0.07	0.01	0.00	0.00	19.55
rs9545715	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	13	81469066	C	G	8279	-0.07	0.02	0.00	0.00	23.11
rs6564915	Docosahexaen oate DHA; 22:6n3 levels	GCST90199651	16	81774628	G	T	8279	0.10	0.02	0.00	0.00	21.67

rs2055570	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	2	49116770	G	A	8055	-0.14	0.03	0.00	0.00	19.66
rs1354034	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	3	56815721	C	T	8055	0.14	0.02	0.00	0.01	75.47
rs78453362	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	3	78690859	A	G	8055	0.15	0.03	0.00	0.00	19.85
rs78365257	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	3	116530607	C	G	8055	-0.29	0.07	0.00	0.00	20.49
rs6871550	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	5	399096	C	T	8055	0.09	0.02	0.00	0.00	20.35
rs12652405	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	5	56959725	A	T	8055	-0.19	0.04	0.00	0.00	19.68
rs154803	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	5	92789493	A	T	8055	0.23	0.05	0.00	0.00	20.46
rs9277341	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	6	33071848	C	T	8055	-0.08	0.02	0.00	0.00	21.64
rs55731338	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	6	35173215	A	G	8055	-0.21	0.05	0.00	0.00	21.48
rs17831607	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	6	134363401	G	A	8055	-0.11	0.02	0.00	0.00	22.64
rs13234046	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	7	10971985	A	G	8055	-0.08	0.02	0.00	0.00	19.79
rs138806707	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	8	20999141	C	T	8055	-0.26	0.06	0.00	0.00	21.65
rs118096873	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	8	48726583	A	G	8055	-0.33	0.07	0.00	0.00	19.79
rs80312835	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	10	110417837	G	A	8055	0.30	0.07	0.00	0.00	20.13
rs117022836	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	11	37651035	T	C	8055	-0.23	0.05	0.00	0.00	24.94
rs7161063	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	14	88280172	G	C	8055	-0.19	0.04	0.00	0.00	21.00
rs72761668	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	15	101725739	G	A	8055	-0.17	0.04	0.00	0.00	20.57
rs55823223	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	17	75894282	A	G	8055	-0.11	0.02	0.00	0.00	23.74

rs12965592	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	18	100297	C	G	8055	-0.11	0.02	0.00	0.00	19.65
rs75129304	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	19	54070271	G	T	8055	-0.08	0.02	0.00	0.00	20.23
rs56058673	1-stearoyl-2-oleoyl-GPS (18:0/18:1) levels	GCST90199652	22	36081699	T	C	8055	-0.16	0.03	0.00	0.00	21.31
rs148311684	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	1	4888680	A	G	8271	-0.30	0.07	0.00	0.00	19.66
rs2996477	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	1	91920677	C	T	8271	0.13	0.03	0.00	0.00	20.03
rs114128846	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	2	118280459	A	G	8271	0.15	0.03	0.00	0.00	22.34
rs79682447	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	4	2260377	A	G	8271	-0.19	0.04	0.00	0.00	24.21
rs28867983	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	4	21108584	G	A	8271	0.09	0.02	0.00	0.00	19.66
rs4698782	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	4	109734125	C	T	8271	-0.07	0.02	0.00	0.00	22.15
rs12331085	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	4	171881699	A	G	8271	-0.09	0.02	0.00	0.00	28.03
rs4975528	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	5	1017800	A	G	8271	0.08	0.02	0.00	0.00	20.31
rs147325198	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	5	9684711	A	G	8271	0.31	0.07	0.00	0.00	22.75
rs9349828	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	6	56559434	C	T	8271	0.07	0.02	0.00	0.00	19.80
rs116926922	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	6	159958678	T	G	8271	0.20	0.04	0.00	0.00	22.25
rs10868484	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	9	86776740	C	T	8271	0.10	0.02	0.00	0.00	20.93
rs4485089	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	11	12409814	G	A	8271	-0.08	0.02	0.00	0.00	20.31
rs79292294	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	11	38215972	G	T	8271	0.22	0.05	0.00	0.00	19.82
rs17583806	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	13	104779166	A	G	8271	0.13	0.03	0.00	0.00	20.87

rs2676379	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	15	46615379	G	C	8271	0.07	0.02	0.00	0.00	21.36
rs28704912	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	18	7928036	A	C	8271	0.13	0.03	0.00	0.00	22.88
rs142273297	1-myristoyl-2-palmitoyl-gpc (14:0/16:0) levels	GCST90199653	20	3610520	A	G	8271	0.28	0.06	0.00	0.00	19.80
rs114830966	Paraxanthine levels in elite athletes	GCST90199654	1	74384420	A	G	7840	-0.35	0.08	0.00	0.00	20.12
rs72799346	Paraxanthine levels in elite athletes	GCST90199654	2	22414570	T	G	7840	-0.24	0.05	0.00	0.00	20.36
rs10194878	Paraxanthine levels in elite athletes	GCST90199654	2	138639888	C	T	7840	0.08	0.02	0.00	0.00	20.98
rs1503609	Paraxanthine levels in elite athletes	GCST90199654	4	126847694	A	G	7840	0.07	0.02	0.00	0.00	19.59
rs115087674	Paraxanthine levels in elite athletes	GCST90199654	4	155770669	T	A	7840	-0.31	0.07	0.00	0.00	20.08
rs9370260	Paraxanthine levels in elite athletes	GCST90199654	6	54056876	C	T	7840	0.08	0.02	0.00	0.00	22.51
rs150604675	Paraxanthine levels in elite athletes	GCST90199654	6	107115055	T	C	7840	-0.21	0.05	0.00	0.00	20.41
rs78574673	Paraxanthine levels in elite athletes	GCST90199654	6	152626771	G	T	7840	0.23	0.05	0.00	0.00	20.51
rs118105917	Paraxanthine levels in elite athletes	GCST90199654	6	159627396	T	C	7840	-0.39	0.09	0.00	0.00	19.65
rs7787264	Paraxanthine levels in elite athletes	GCST90199654	7	2667935	A	T	7840	-0.11	0.03	0.00	0.00	19.53
rs13243315	Paraxanthine levels in elite athletes	GCST90199654	7	25474434	C	T	7840	-0.09	0.02	0.00	0.00	21.43
rs150047778	Paraxanthine levels in elite athletes	GCST90199654	7	116118257	C	T	7840	-0.36	0.08	0.00	0.00	21.21
rs79361921	Paraxanthine levels in elite athletes	GCST90199654	8	58022004	A	G	7840	-0.23	0.05	0.00	0.00	23.31
rs78607630	Paraxanthine levels in elite athletes	GCST90199654	9	107914662	G	A	7840	-0.25	0.05	0.00	0.00	23.94
rs11599254	Paraxanthine levels in elite athletes	GCST90199654	10	28929032	T	C	7840	0.14	0.03	0.00	0.00	23.25
rs10509810	Paraxanthine levels in elite athletes	GCST90199654	10	106005598	G	A	7840	-0.08	0.02	0.00	0.00	21.93
rs143167061	Paraxanthine levels in elite athletes	GCST90199654	11	13186904	T	C	7840	-0.26	0.06	0.00	0.00	19.61
rs11032948	Paraxanthine levels in elite athletes	GCST90199654	11	34951350	T	C	7840	0.09	0.02	0.00	0.00	24.93
rs643104	Paraxanthine levels in elite athletes	GCST90199654	11	118696416	C	T	7840	-0.08	0.02	0.00	0.00	21.90
rs17653722	Paraxanthine levels in elite athletes	GCST90199654	12	52193734	T	G	7840	-0.10	0.02	0.00	0.00	20.08

rs75467050	Paraxanthine levels in elite athletes	GCST90199654	12	97703428	T	C	7840	-0.18	0.04	0.00	0.00	19.73
rs34563893	Paraxanthine levels in elite athletes	GCST90199654	12	98038615	C	T	7840	-0.34	0.07	0.00	0.00	23.55
rs2274148	Paraxanthine levels in elite athletes	GCST90199654	13	49278988	T	C	7840	0.20	0.04	0.00	0.00	20.34
rs7326993	Paraxanthine levels in elite athletes	GCST90199654	13	92197195	G	A	7840	-0.07	0.02	0.00	0.00	19.51
rs11552004 4	Paraxanthine levels in elite athletes	GCST90199654	14	49488289	A	G	7840	0.31	0.06	0.00	0.00	24.72
rs28491088	Paraxanthine levels in elite athletes	GCST90199654	15	24911167	C	A	7840	0.10	0.02	0.00	0.00	19.82
rs11249203 3	Paraxanthine levels in elite athletes	GCST90199654	15	80442893	A	G	7840	-0.27	0.06	0.00	0.00	21.54
rs62017761	Paraxanthine levels in elite athletes	GCST90199654	16	6502503	G	T	7840	-0.07	0.02	0.00	0.00	21.61
rs10459799	Paraxanthine levels in elite athletes	GCST90199654	16	59963158	G	C	7840	-0.10	0.02	0.00	0.00	21.42
rs57526497	Paraxanthine levels in elite athletes	GCST90199654	17	79549816	C	A	7840	-0.15	0.03	0.00	0.00	20.73
rs77866717	Paraxanthine levels in elite athletes	GCST90199654	18	43307829	C	T	7840	-0.15	0.03	0.00	0.00	19.56
rs56113850	Paraxanthine levels in elite athletes	GCST90199654	19	40847202	C	T	7840	-0.11	0.02	0.00	0.01	48.67
rs2245730	Paraxanthine levels in elite athletes	GCST90199654	21	42705218	C	A	7840	-0.08	0.02	0.00	0.00	22.39
rs2291115	4-methyl-2- oxopentanoate levels	GCST90199655	1	83555746	T	C	8255	-0.09	0.02	0.00	0.00	20.78
rs6754181	4-methyl-2- oxopentanoate levels	GCST90199655	2	29743514	C	T	8255	0.09	0.02	0.00	0.00	21.27
rs893971	4-methyl-2- oxopentanoate levels	GCST90199655	4	88282518	G	A	8255	0.09	0.02	0.00	0.00	37.68
rs56107485	4-methyl-2- oxopentanoate levels	GCST90199655	6	156517427	C	A	8255	-0.15	0.03	0.00	0.00	24.79
rs7012455	4-methyl-2- oxopentanoate levels	GCST90199655	8	51775791	T	C	8255	0.08	0.02	0.00	0.00	21.55
rs11248287 5	4-methyl-2- oxopentanoate levels	GCST90199655	11	20468924	C	G	8255	0.18	0.04	0.00	0.00	22.10
rs58729469	4-methyl-2- oxopentanoate levels	GCST90199655	11	36050283	T	C	8255	0.10	0.02	0.00	0.00	23.78
rs73597221	4-methyl-2- oxopentanoate levels	GCST90199655	11	132238300	A	G	8255	-0.17	0.03	0.00	0.00	24.85
rs75090459	4-methyl-2- oxopentanoate levels	GCST90199655	13	22127850	A	G	8255	0.27	0.06	0.00	0.00	21.94
rs12894999	4-methyl-2- oxopentanoate levels	GCST90199655	14	102071272	A	G	8255	-0.09	0.02	0.00	0.00	19.93
rs77753167	4-methyl-2- oxopentanoate levels	GCST90199655	18	10814502	T	C	8255	-0.15	0.03	0.00	0.00	22.42

rs6055350	4-methyl-2-oxopentanoate levels	GCST90199655	20	858872	C	G	8255	-0.19	0.04	0.00	0.00	22.37
rs14056091	3-indoxyl sulfate levels	GCST90199656	1	147564521	C	T	8242	0.29	0.07	0.00	0.00	19.96
rs492467	3-indoxyl sulfate levels	GCST90199656	1	165912242	G	A	8242	-0.07	0.02	0.00	0.00	20.17
rs55839541	3-indoxyl sulfate levels	GCST90199656	1	213870367	A	G	8242	0.10	0.02	0.00	0.00	21.01
rs4649261	3-indoxyl sulfate levels	GCST90199656	1	233808502	G	A	8242	0.07	0.02	0.00	0.00	21.51
rs146369127	3-indoxyl sulfate levels	GCST90199656	3	22383982	A	G	8242	0.27	0.06	0.00	0.00	22.58
rs7651697	3-indoxyl sulfate levels	GCST90199656	3	72185534	C	T	8242	0.07	0.02	0.00	0.00	20.64
rs4692540	3-indoxyl sulfate levels	GCST90199656	4	26529176	T	G	8242	-0.10	0.02	0.00	0.00	21.80
rs191105317	3-indoxyl sulfate levels	GCST90199656	4	128815359	G	C	8242	-0.36	0.07	0.00	0.00	26.78
rs13176353	3-indoxyl sulfate levels	GCST90199656	5	1801312	C	G	8242	-0.11	0.02	0.00	0.00	21.92
rs114842896	3-indoxyl sulfate levels	GCST90199656	5	99893693	A	G	8242	0.30	0.07	0.00	0.00	20.71
rs651578	3-indoxyl sulfate levels	GCST90199656	6	25873655	C	T	8242	0.08	0.02	0.00	0.00	19.98
rs6904845	3-indoxyl sulfate levels	GCST90199656	6	31256646	C	T	8242	0.08	0.02	0.00	0.00	19.69
rs2496679	3-indoxyl sulfate levels	GCST90199656	6	80609375	C	T	8242	0.21	0.05	0.00	0.00	19.71
rs9479849	3-indoxyl sulfate levels	GCST90199656	6	154431131	A	G	8242	-0.40	0.09	0.00	0.00	20.39
rs139986278	3-indoxyl sulfate levels	GCST90199656	7	79049588	C	T	8242	-0.32	0.07	0.00	0.00	19.99
rs2016346	3-indoxyl sulfate levels	GCST90199656	8	135425732	C	T	8242	-0.07	0.02	0.00	0.00	19.95
rs74334677	3-indoxyl sulfate levels	GCST90199656	10	59568572	A	G	8242	-0.22	0.04	0.00	0.00	23.57
rs117023050	3-indoxyl sulfate levels	GCST90199656	12	132005752	C	T	8242	0.16	0.04	0.00	0.00	19.78
rs11078452	3-indoxyl sulfate levels	GCST90199656	17	3503447	C	A	8242	-0.27	0.06	0.00	0.00	22.95
rs1971157	3-indoxyl sulfate levels	GCST90199656	17	29598325	C	G	8242	0.07	0.02	0.00	0.00	19.72
rs198542	3-indoxyl sulfate levels	GCST90199656	17	50567176	A	G	8242	0.07	0.02	0.00	0.00	20.95
rs72987107	3-indoxyl sulfate levels	GCST90199656	19	5335243	T	C	8242	-0.26	0.05	0.00	0.00	23.07
rs56113850	3-indoxyl sulfate levels	GCST90199656	19	40847202	C	T	8242	-0.08	0.02	0.00	0.00	25.25
rs140079282	Sphingosine 1-phosphate levels	GCST90199657	3	99447594	A	C	8246	-0.26	0.06	0.00	0.00	21.46
rs1488103	Sphingosine 1-phosphate levels	GCST90199657	3	169207806	A	G	8246	-0.07	0.02	0.00	0.00	20.58
rs1456759	Sphingosine 1-phosphate levels	GCST90199657	4	31547799	T	C	8246	-0.08	0.02	0.00	0.00	22.13
rs115939317	Sphingosine 1-phosphate levels	GCST90199657	4	113730518	T	C	8246	0.28	0.06	0.00	0.00	19.98
rs41397245	Sphingosine 1-phosphate levels	GCST90199657	5	77874839	A	G	8246	-0.08	0.02	0.00	0.00	23.25
rs71588370	Sphingosine 1-phosphate levels	GCST90199657	5	104821478	G	A	8246	0.18	0.04	0.00	0.00	22.09
rs138132596	Sphingosine 1-phosphate levels	GCST90199657	5	130309113	G	A	8246	0.51	0.11	0.00	0.00	22.10
rs141116536	Sphingosine 1-phosphate levels	GCST90199657	6	1332934	C	T	8246	0.23	0.05	0.00	0.00	22.38

rs9461721	Sphingosine 1-phosphate levels	GCST90199657	6	31770631	G	A	8246	-0.26	0.05	0.00	0.00	28.68
rs9360664	Sphingosine 1-phosphate levels	GCST90199657	6	73331701	A	G	8246	-0.09	0.02	0.00	0.00	21.79
rs11986857	Sphingosine 1-phosphate levels	GCST90199657	8	21182547	G	C	8246	0.15	0.03	0.00	0.00	21.21
rs10960927	Sphingosine 1-phosphate levels	GCST90199657	9	13072342	C	T	8246	0.16	0.04	0.00	0.00	19.86
rs10744901	Sphingosine 1-phosphate levels	GCST90199657	12	117707878	C	T	8246	-0.07	0.02	0.00	0.00	19.97
rs6493965	Sphingosine 1-phosphate levels	GCST90199657	15	57893963	G	A	8246	-0.07	0.02	0.00	0.00	20.13
rs7200047	Sphingosine 1-phosphate levels	GCST90199657	16	83117864	A	G	8246	0.07	0.02	0.00	0.00	21.26
rs1000821	Sphingosine 1-phosphate levels	GCST90199657	17	76437921	T	C	8246	0.10	0.02	0.00	0.00	39.14
rs10502344	Sphingosine 1-phosphate levels	GCST90199657	18	6107710	G	A	8246	0.19	0.04	0.00	0.00	21.09
rs72859389	Alpha-hydroxyisocaproate levels	GCST90199658	1	8192624	C	A	8250	0.13	0.03	0.00	0.00	19.81
rs142728688	Alpha-hydroxyisocaproate levels	GCST90199658	1	154655583	A	G	8250	-0.23	0.05	0.00	0.00	23.42
rs142808012	Alpha-hydroxyisocaproate levels	GCST90199658	1	240205226	T	A	8250	0.27	0.06	0.00	0.00	20.34
rs1955284	Alpha-hydroxyisocaproate levels	GCST90199658	2	8556927	T	C	8250	0.08	0.02	0.00	0.00	20.23
rs4852728	Alpha-hydroxyisocaproate levels	GCST90199658	2	70902908	A	C	8250	-0.09	0.02	0.00	0.00	21.09
rs11715398	Alpha-hydroxyisocaproate levels	GCST90199658	3	194116327	T	C	8250	0.12	0.02	0.00	0.00	24.02
rs1808859	Alpha-hydroxyisocaproate levels	GCST90199658	4	88313660	C	T	8250	0.07	0.01	0.00	0.00	24.55
rs35783478	Alpha-hydroxyisocaproate levels	GCST90199658	4	108308227	A	G	8250	0.08	0.02	0.00	0.00	23.51
rs620617	Alpha-hydroxyisocaproate levels	GCST90199658	5	19446738	T	C	8250	-0.07	0.01	0.00	0.00	22.55
rs1975533	Alpha-hydroxyisocaproate levels	GCST90199658	5	59406582	G	A	8250	-0.12	0.02	0.00	0.00	28.07
rs34973031	Alpha-hydroxyisocaproate levels	GCST90199658	5	73870529	C	A	8250	-0.12	0.03	0.00	0.00	22.67
rs7737487	Alpha-hydroxyisocaproate levels	GCST90199658	5	165055996	A	G	8250	0.07	0.01	0.00	0.00	24.80
rs734860	Alpha-hydroxyisocaproate levels	GCST90199658	5	173972838	C	T	8250	0.08	0.02	0.00	0.00	26.07
rs62485457	Alpha-hydroxyisocaproate levels	GCST90199658	7	104917075	C	T	8250	0.23	0.05	0.00	0.00	21.47
rs76445723	Alpha-hydroxyisocaproate levels	GCST90199658	8	19096342	T	G	8250	-0.23	0.05	0.00	0.00	20.35

rs4934976	Alpha-hydroxyisocaproate levels	GCST90199658	10	33502194	A	G	8250	-0.07	0.02	0.00	0.00	22.16
rs10832920	Alpha-hydroxyisocaproate levels	GCST90199658	11	18320322	G	A	8250	-0.07	0.01	0.00	0.00	21.36
rs113914810	Alpha-hydroxyisocaproate levels	GCST90199658	12	72255376	T	C	8250	0.20	0.04	0.00	0.00	20.29
rs78820411	Alpha-hydroxyisocaproate levels	GCST90199658	15	26233756	G	A	8250	0.17	0.04	0.00	0.00	20.83
rs10414919	Alpha-hydroxyisocaproate levels	GCST90199658	19	19944477	A	G	8250	-0.08	0.02	0.00	0.00	24.27
rs151029917	Alpha-hydroxyisocaproate levels	GCST90199658	20	717462	T	G	8250	0.41	0.09	0.00	0.00	20.09
rs79376596	Alpha-hydroxyisocaproate levels	GCST90199658	20	2418904	G	A	8250	0.20	0.04	0.00	0.00	20.40
rs10789117	1-stearoyl-GPI (18:0) levels	GCST90199659	1	62606594	C	A	8260	-0.08	0.02	0.00	0.00	26.18
rs9436300	1-stearoyl-GPI (18:0) levels	GCST90199659	1	65429581	G	A	8260	0.08	0.02	0.00	0.00	19.72
rs151115380	1-stearoyl-GPI (18:0) levels	GCST90199659	1	164755085	T	C	8260	0.31	0.07	0.00	0.00	22.05
rs13035306	1-stearoyl-GPI (18:0) levels	GCST90199659	2	123961851	T	C	8260	-0.16	0.03	0.00	0.00	22.93
rs35311550	1-stearoyl-GPI (18:0) levels	GCST90199659	3	542329	C	T	8260	-0.32	0.06	0.00	0.00	25.10
rs7610125	1-stearoyl-GPI (18:0) levels	GCST90199659	3	152913328	T	C	8260	-0.08	0.02	0.00	0.00	23.88
rs139782415	1-stearoyl-GPI (18:0) levels	GCST90199659	4	10514994	T	C	8260	0.13	0.03	0.00	0.00	22.77
rs6849130	1-stearoyl-GPI (18:0) levels	GCST90199659	4	164626088	C	T	8260	-0.11	0.02	0.00	0.00	20.75
rs4266604	1-stearoyl-GPI (18:0) levels	GCST90199659	7	52911031	C	T	8260	0.07	0.02	0.00	0.00	20.11
rs117400415	1-stearoyl-GPI (18:0) levels	GCST90199659	7	90119386	G	C	8260	0.09	0.02	0.00	0.00	20.67
rs13265847	1-stearoyl-GPI (18:0) levels	GCST90199659	8	29804288	G	A	8260	-0.16	0.03	0.00	0.00	21.58
rs78765237	1-stearoyl-GPI (18:0) levels	GCST90199659	9	8396478	A	G	8260	0.25	0.05	0.00	0.00	21.98
rs1836921	1-stearoyl-GPI (18:0) levels	GCST90199659	9	104991756	A	G	8260	-0.08	0.02	0.00	0.00	20.58
rs2435583	1-stearoyl-GPI (18:0) levels	GCST90199659	11	98703115	G	A	8260	-0.10	0.02	0.00	0.00	23.43
rs7302336	1-stearoyl-GPI (18:0) levels	GCST90199659	12	130523620	A	G	8260	0.11	0.02	0.00	0.00	22.25
rs1555942	1-stearoyl-GPI (18:0) levels	GCST90199659	14	68172250	A	T	8260	0.19	0.04	0.00	0.00	20.31
rs113735393	1-stearoyl-GPI (18:0) levels	GCST90199659	16	81524461	A	G	8260	-0.21	0.04	0.00	0.00	25.44
rs141437456	1-stearoyl-GPI (18:0) levels	GCST90199659	17	78927185	T	C	8260	-0.35	0.08	0.00	0.00	20.64
rs2745311	1,2-dipalmitoyl-gpc (16:0/16:0) levels	GCST90199660	1	18577539	A	C	8264	0.07	0.02	0.00	0.00	20.55
rs2032969	1,2-dipalmitoyl-gpc (16:0/16:0) levels	GCST90199660	1	74709980	A	G	8264	-0.11	0.02	0.00	0.00	19.93
rs6753019	1,2-dipalmitoyl-gpc (16:0/16:0) levels	GCST90199660	2	113190582	A	G	8264	-0.10	0.02	0.00	0.00	20.84
rs145128297	1,2-dipalmitoyl-gpc (16:0/16:0) levels	GCST90199660	5	25233533	A	G	8264	-0.30	0.06	0.00	0.00	21.97

rs4920834	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	5	85752257	A	G	8264	0.09	0.02	0.00	0.00	24.83
rs1061808	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	6	32168770	G	T	8264	0.20	0.02	0.00	0.02	163.25
rs9374755	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	6	97711860	C	T	8264	-0.08	0.02	0.00	0.00	20.33
rs18318195 4	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	8	11351824	G	A	8264	0.86	0.18	0.00	0.00	22.82
rs12544703	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	8	58397865	G	A	8264	-0.11	0.02	0.00	0.00	28.18
rs72728195	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	8	137578752	C	T	8264	-0.08	0.02	0.00	0.00	21.11
rs18577248 5	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	10	4381415	G	A	8264	-0.28	0.06	0.00	0.00	23.15
rs7900015	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	10	23801354	A	G	8264	0.16	0.04	0.00	0.00	20.12
rs102275	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	11	61790331	C	T	8264	-0.22	0.02	0.00	0.02	192.04
rs3019671	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	11	134624160	T	C	8264	-0.07	0.02	0.00	0.00	22.49
rs10778301	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	12	103893299	A	G	8264	-0.07	0.02	0.00	0.00	20.25
rs7320739	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	13	106285700	G	T	8264	-0.10	0.02	0.00	0.00	21.47
rs61979368	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	14	76348790	T	C	8264	0.08	0.02	0.00	0.00	20.79
rs45617141	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	15	43331199	G	T	8264	0.26	0.06	0.00	0.00	20.55
rs1601935	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	15	58379566	T	G	8264	-0.08	0.02	0.00	0.00	21.08
rs12438714	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	15	93042745	T	G	8264	-0.14	0.03	0.00	0.00	20.32
rs11747043 3	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	16	4834391	T	C	8264	0.26	0.06	0.00	0.00	20.20
rs14135795 7	1,2- dipalmitoyl- gpc (16:0/16:0) levels	GCST90199660	16	9809295	T	C	8264	-0.31	0.07	0.00	0.00	20.17

rs17231506	1,2-dipalmitoyl-gpc (16:0/16:0) levels	GCST90199660	16	56960616	T	C	8264	0.09	0.02	0.00	0.00	30.84
rs57942043	1,2-dipalmitoyl-gpc (16:0/16:0) levels	GCST90199660	17	73945909	C	A	8264	0.17	0.04	0.00	0.00	20.23
rs17248720	1,2-dipalmitoyl-gpc (16:0/16:0) levels	GCST90199660	19	11087511	T	C	8264	-0.12	0.02	0.00	0.00	26.29
rs11775211 1	1,2-dipalmitoyl-gpc (16:0/16:0) levels	GCST90199660	20	17379677	G	A	8264	0.24	0.05	0.00	0.00	19.81
rs2075269	1,2-dipalmitoyl-gpc (16:0/16:0) levels	GCST90199660	22	21001740	C	T	8264	-0.08	0.02	0.00	0.00	20.33
rs72710584	Maleate levels	GCST90199661	1	171037487	G	A	8171	-0.11	0.02	0.00	0.00	21.46
rs13906021 6	Maleate levels	GCST90199661	1	242382913	C	T	8171	-0.20	0.04	0.00	0.00	20.39
rs3856630	Maleate levels	GCST90199661	3	137699699	C	T	8171	0.25	0.06	0.00	0.00	19.69
rs11663390 1	Maleate levels	GCST90199661	4	148481453	G	T	8171	0.22	0.05	0.00	0.00	20.04
rs62337911	Maleate levels	GCST90199661	4	182887202	G	A	8171	-0.19	0.04	0.00	0.00	23.70
rs6553200	Maleate levels	GCST90199661	4	188374075	T	C	8171	-0.08	0.02	0.00	0.00	20.63
rs15035758 2	Maleate levels	GCST90199661	5	24390851	T	G	8171	-0.42	0.09	0.00	0.00	24.34
rs13200335	Maleate levels	GCST90199661	6	41723085	A	C	8171	-0.08	0.02	0.00	0.00	23.47
rs73073176	Maleate levels	GCST90199661	7	17523328	T	C	8171	-0.12	0.02	0.00	0.00	27.11
rs10504250	Maleate levels	GCST90199661	8	58286174	G	C	8171	-0.07	0.02	0.00	0.00	20.11
rs11724792 3	Maleate levels	GCST90199661	9	108564519	A	G	8171	0.29	0.06	0.00	0.00	21.69
rs12376985	Maleate levels	GCST90199661	9	134200542	G	A	8171	0.11	0.02	0.00	0.00	20.04
rs75102017	Maleate levels	GCST90199661	10	69166680	C	G	8171	-0.34	0.08	0.00	0.00	20.59
rs61880906	Maleate levels	GCST90199661	11	35453504	C	A	8171	-0.16	0.03	0.00	0.00	21.42
rs74069834	Maleate levels	GCST90199661	12	21946362	G	A	8171	-0.28	0.06	0.00	0.00	22.05
rs73396358	Maleate levels	GCST90199661	12	115022298	T	G	8171	-0.14	0.03	0.00	0.00	20.46
rs11552004 4	Maleate levels	GCST90199661	14	49488289	A	G	8171	0.29	0.06	0.00	0.00	22.36
rs2472297	Maleate levels	GCST90199661	15	74735539	T	C	8171	0.09	0.02	0.00	0.00	23.60
rs76680658	Maleate levels	GCST90199661	16	5075878	C	G	8171	-0.20	0.04	0.00	0.00	22.76
rs7245628	Maleate levels	GCST90199661	19	570206	A	G	8171	0.08	0.02	0.00	0.00	20.21
rs11726151 6	Maleate levels	GCST90199661	19	14808556	A	G	8171	0.35	0.07	0.00	0.00	28.28
rs61457016	Maleate levels	GCST90199661	19	40579494	G	T	8171	-0.27	0.05	0.00	0.00	26.13
rs6137886	Maleate levels	GCST90199661	20	23286377	G	T	8171	0.17	0.04	0.00	0.00	20.47
rs11688289 6	Maleate levels	GCST90199661	20	58754233	G	A	8171	-0.17	0.04	0.00	0.00	19.85
rs11424879 7	Isovalerate (i5:0) levels	GCST90199662	2	31395382	G	T	7862	0.36	0.08	0.00	0.00	21.14
rs59173308	Isovalerate (i5:0) levels	GCST90199662	2	185056021	A	G	7862	-0.17	0.04	0.00	0.00	21.74
rs887829	Isovalerate (i5:0) levels	GCST90199662	2	233759924	T	C	7862	0.08	0.02	0.00	0.00	24.45
rs2407999	Isovalerate (i5:0) levels	GCST90199662	5	123961638	G	A	7862	0.11	0.02	0.00	0.00	22.10
rs9295793	Isovalerate (i5:0) levels	GCST90199662	6	29129992	A	C	7862	-0.10	0.02	0.00	0.00	20.74
rs14270650 6	Isovalerate (i5:0) levels	GCST90199662	6	66591545	G	T	7862	0.25	0.05	0.00	0.00	21.91
rs80329585	Isovalerate (i5:0) levels	GCST90199662	8	33912188	C	A	7862	-0.35	0.08	0.00	0.00	20.77
rs7047835	Isovalerate (i5:0) levels	GCST90199662	9	36999904	C	T	7862	-0.15	0.03	0.00	0.00	20.50
rs11735034 0	Isovalerate (i5:0) levels	GCST90199662	9	70423053	C	T	7862	-0.16	0.04	0.00	0.00	20.35
rs15098135 8	Isovalerate (i5:0) levels	GCST90199662	10	30545016	A	G	7862	0.23	0.05	0.00	0.00	22.27
rs18824262 6	Isovalerate (i5:0) levels	GCST90199662	11	24360811	T	C	7862	-0.24	0.05	0.00	0.00	23.32

rs117742113	Isovalerate (i5:0) levels	GCST90199662	11	73348103	T	C	7862	-0.23	0.05	0.00	0.00	21.67
rs8014050	Isovalerate (i5:0) levels	GCST90199662	14	98902364	G	A	7862	-0.07	0.02	0.00	0.00	19.83
rs35721219	Isovalerate (i5:0) levels	GCST90199662	16	1452378	T	C	7862	0.16	0.04	0.00	0.00	20.34
rs117546625	Isovalerate (i5:0) levels	GCST90199662	16	81252545	G	A	7862	-0.24	0.05	0.00	0.00	24.10
rs112755187	Isovalerate (i5:0) levels	GCST90199662	19	16997625	T	C	7862	-0.18	0.04	0.00	0.00	22.13
rs4815566	Isovalerate (i5:0) levels	GCST90199662	20	3100992	T	C	7862	0.11	0.02	0.00	0.00	20.19
rs3767942	4-acetylphenol sulfate levels	GCST90199663	1	40825859	G	A	7135	0.09	0.02	0.00	0.00	21.44
rs114393741	4-acetylphenol sulfate levels	GCST90199663	2	38869235	A	G	7135	0.30	0.07	0.00	0.00	19.55
rs144625636	4-acetylphenol sulfate levels	GCST90199663	2	76289291	T	C	7135	0.32	0.07	0.00	0.00	19.65
rs6756669	4-acetylphenol sulfate levels	GCST90199663	2	190845343	G	A	7135	0.08	0.02	0.00	0.00	19.53
rs116272095	4-acetylphenol sulfate levels	GCST90199663	2	205356835	C	G	7135	0.32	0.07	0.00	0.00	22.78
rs76793324	4-acetylphenol sulfate levels	GCST90199663	3	89262202	C	T	7135	0.29	0.07	0.00	0.00	20.20
rs1969346	4-acetylphenol sulfate levels	GCST90199663	3	183586691	T	C	7135	0.17	0.04	0.00	0.00	19.72
rs78621707	4-acetylphenol sulfate levels	GCST90199663	4	38278308	A	G	7135	0.28	0.06	0.00	0.00	24.27
rs13102958	4-acetylphenol sulfate levels	GCST90199663	4	86957477	G	A	7135	0.08	0.02	0.00	0.00	20.31
rs4355631	4-acetylphenol sulfate levels	GCST90199663	6	131505809	G	A	7135	-0.08	0.02	0.00	0.00	21.71
rs10101376	4-acetylphenol sulfate levels	GCST90199663	8	1296114	G	A	7135	0.08	0.02	0.00	0.00	20.09
rs1521039	4-acetylphenol sulfate levels	GCST90199663	8	12987641	G	A	7135	-0.13	0.03	0.00	0.00	25.28
rs12354542	4-acetylphenol sulfate levels	GCST90199663	10	109553005	C	T	7135	-0.18	0.04	0.00	0.00	22.21
rs11040389	4-acetylphenol sulfate levels	GCST90199663	11	6040911	T	C	7135	0.08	0.02	0.00	0.00	23.18
rs79284264	4-acetylphenol sulfate levels	GCST90199663	11	19806821	C	T	7135	0.23	0.05	0.00	0.00	19.57
rs12319193	4-acetylphenol sulfate levels	GCST90199663	12	70404643	T	G	7135	0.44	0.09	0.00	0.00	23.22
rs12878900	4-acetylphenol sulfate levels	GCST90199663	14	84867017	G	A	7135	-0.13	0.03	0.00	0.00	25.51
rs116938011	4-acetylphenol sulfate levels	GCST90199663	16	28999791	T	C	7135	-0.38	0.08	0.00	0.00	20.25
rs12444105	4-acetylphenol sulfate levels	GCST90199663	16	82423578	G	A	7135	-0.08	0.02	0.00	0.00	20.62
rs739244	4-acetylphenol sulfate levels	GCST90199663	22	49666510	G	A	7135	-0.09	0.02	0.00	0.00	21.43
rs10802092	Phenyllactate (PLA) levels in elite athletes	GCST90199664	1	119392884	T	A	8235	0.07	0.01	0.00	0.00	22.03
rs13396369	Phenyllactate (PLA) levels in elite athletes	GCST90199664	2	113254175	T	C	8235	0.09	0.02	0.00	0.00	23.01
rs116721959	Phenyllactate (PLA) levels in elite athletes	GCST90199664	2	136773975	T	C	8235	-0.21	0.05	0.00	0.00	20.98
rs34064769	Phenyllactate (PLA) levels in elite athletes	GCST90199664	2	217776399	A	C	8235	0.07	0.01	0.00	0.00	21.77
rs78199411	Phenyllactate (PLA) levels in elite athletes	GCST90199664	3	137191426	C	T	8235	0.18	0.04	0.00	0.00	21.99
rs2359874	Phenyllactate (PLA) levels in elite athletes	GCST90199664	5	77382351	T	C	8235	0.07	0.01	0.00	0.00	23.76
rs79724540	Phenyllactate (PLA) levels in elite athletes	GCST90199664	5	180175657	T	C	8235	-0.12	0.02	0.00	0.00	25.52

rs4291084	Phenyllactate (PLA) levels in elite athletes	GCST90199664	6	23214941	G	A	8235	-0.08	0.02	0.00	0.00	24.50
rs9470970	Phenyllactate (PLA) levels in elite athletes	GCST90199664	6	39126256	A	G	8235	-0.15	0.03	0.00	0.00	25.00
rs9476273	Phenyllactate (PLA) levels in elite athletes	GCST90199664	6	60653341	A	T	8235	-0.09	0.02	0.00	0.00	19.58
rs12529420	Phenyllactate (PLA) levels in elite athletes	GCST90199664	6	169029431	A	G	8235	0.07	0.02	0.00	0.00	20.01
rs17634070	Phenyllactate (PLA) levels in elite athletes	GCST90199664	8	133177859	A	T	8235	0.15	0.03	0.00	0.00	21.37
rs73396011	Phenyllactate (PLA) levels in elite athletes	GCST90199664	9	3779667	G	A	8235	0.15	0.03	0.00	0.00	23.10
rs7867041	Phenyllactate (PLA) levels in elite athletes	GCST90199664	9	120012695	A	G	8235	0.08	0.02	0.00	0.00	20.39
rs73669981	Phenyllactate (PLA) levels in elite athletes	GCST90199664	9	128861549	T	C	8235	-0.19	0.04	0.00	0.00	24.34
rs10834052	Phenyllactate (PLA) levels in elite athletes	GCST90199664	11	1433445	C	T	8235	0.08	0.02	0.00	0.00	19.55
rs73351721	Phenyllactate (PLA) levels in elite athletes	GCST90199664	12	58437193	A	G	8235	-0.14	0.03	0.00	0.00	22.57
rs17783490	Phenyllactate (PLA) levels in elite athletes	GCST90199664	12	90256821	T	G	8235	0.17	0.04	0.00	0.00	21.48
rs937475	Phenyllactate (PLA) levels in elite athletes	GCST90199664	12	102854494	G	A	8235	-0.07	0.01	0.00	0.00	22.53
rs35446494	Phenyllactate (PLA) levels in elite athletes	GCST90199664	12	119095413	G	A	8235	0.17	0.04	0.00	0.00	20.80
rs56381820	Phenyllactate (PLA) levels in elite athletes	GCST90199664	13	62164419	C	T	8235	0.08	0.02	0.00	0.00	21.70
rs7141384	Phenyllactate (PLA) levels in elite athletes	GCST90199664	14	43591995	G	T	8235	-0.07	0.02	0.00	0.00	21.45
rs11076256	Phenyllactate (PLA) levels in elite athletes	GCST90199664	16	58718562	T	C	8235	0.45	0.03	0.00	0.03	284.89
rs143277630	Phenyllactate (PLA) levels in elite athletes	GCST90199664	16	58781671	T	C	8235	-0.19	0.03	0.00	0.00	32.81
rs74546847	Phenyllactate (PLA) levels in elite athletes	GCST90199664	18	34303331	T	C	8235	-0.24	0.05	0.00	0.00	24.79
rs143566944	Phenyllactate (PLA) levels in elite athletes	GCST90199664	21	41623472	T	C	8235	0.29	0.06	0.00	0.00	20.06
rs12039358	N-acetylaspartate (naa) levels	GCST90199665	1	159607962	G	T	8148	-0.09	0.02	0.00	0.00	24.24
rs35308250	N-acetylaspartate (naa) levels	GCST90199665	1	177997870	C	A	8148	0.08	0.02	0.00	0.00	20.44
rs139706814	N-acetylaspartate (naa) levels	GCST90199665	2	15960932	G	A	8148	-0.20	0.04	0.00	0.00	20.22
rs62127223	N-acetylaspartate (naa) levels	GCST90199665	2	45870207	A	G	8148	-0.14	0.03	0.00	0.00	22.99
rs9869057	N-acetylaspartate (naa) levels	GCST90199665	3	66407622	C	T	8148	-0.81	0.18	0.00	0.00	19.60

rs150965318	N-acetylaspartate (naa) levels	GCST90199665	3	181780441	C	T	8148	-0.21	0.05	0.00	0.00	19.98
rs544693361	N-acetylaspartate (naa) levels	GCST90199665	4	26543787	T	C	8148	-0.35	0.08	0.00	0.00	21.16
rs79315153	N-acetylaspartate (naa) levels	GCST90199665	8	116831071	G	A	8148	-0.11	0.02	0.00	0.00	20.12
rs2248456	N-acetylaspartate (naa) levels	GCST90199665	10	88032614	A	G	8148	0.07	0.02	0.00	0.00	23.16
rs35911794	N-acetylaspartate (naa) levels	GCST90199665	10	119061863	C	T	8148	0.19	0.04	0.00	0.00	20.15
rs10845794	N-acetylaspartate (naa) levels	GCST90199665	12	13509204	T	G	8148	-0.07	0.02	0.00	0.00	19.90
rs74895134	N-acetylaspartate (naa) levels	GCST90199665	12	71385691	A	G	8148	0.27	0.06	0.00	0.00	19.73
rs117572246	N-acetylaspartate (naa) levels	GCST90199665	12	83954847	A	G	8148	-0.34	0.07	0.00	0.00	23.43
rs2025408	N-acetylaspartate (naa) levels	GCST90199665	13	30670785	A	C	8148	-0.34	0.08	0.00	0.00	19.76
rs150753233	N-acetylaspartate (naa) levels	GCST90199665	15	79040461	G	A	8148	0.39	0.08	0.00	0.00	22.78
rs11073480	N-acetylaspartate (naa) levels	GCST90199665	15	96379916	G	A	8148	0.10	0.02	0.00	0.00	20.43
rs113199593	N-acetylaspartate (naa) levels	GCST90199665	16	13424059	G	A	8148	-0.32	0.07	0.00	0.00	19.73
rs74509445	N-acetylaspartate (naa) levels	GCST90199665	16	80975048	T	C	8148	-0.14	0.03	0.00	0.00	19.83
rs11868853	N-acetylaspartate (naa) levels	GCST90199665	17	72270399	G	A	8148	0.08	0.02	0.00	0.00	21.86
rs80135198	N-acetylaspartate (naa) levels	GCST90199665	18	66572172	T	C	8148	0.27	0.06	0.00	0.00	20.29
rs409751	N-acetylaspartate (naa) levels	GCST90199665	22	22924624	T	C	8148	0.07	0.02	0.00	0.00	21.14
rs113511960	tine levels (Metabolon platform) Palmitoylcarni	GCST90199666	1	27520714	T	C	8256	-0.29	0.06	0.00	0.00	21.04
rs17569868	tine levels (Metabolon platform) Palmitoylcarni	GCST90199666	1	39827239	C	A	8256	0.08	0.02	0.00	0.00	20.31
rs1799822	tine levels (Metabolon platform) Palmitoylcarni	GCST90199666	1	53213557	G	A	8256	0.08	0.02	0.00	0.00	21.55
rs10157929	tine levels (Metabolon platform) Palmitoylcarni	GCST90199666	1	64949885	G	C	8256	0.10	0.02	0.00	0.00	21.27
rs72696241	tine levels (Metabolon platform) Palmitoylcarni	GCST90199666	1	154232217	A	G	8256	0.08	0.02	0.00	0.00	21.34
rs114684303	tine levels (Metabolon platform)	GCST90199666	1	173290818	A	C	8256	-0.33	0.07	0.00	0.00	22.62

rs13386197	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	2	47571449	G	C	8256	0.15	0.03	0.00	0.00	19.59
rs2167534	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	2	106063072	A	G	8256	-0.08	0.02	0.00	0.00	20.21
rs72906893	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	2	185389163	T	C	8256	0.09	0.02	0.00	0.00	20.49
rs62264777	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	3	117934668	C	G	8256	-0.11	0.02	0.00	0.00	23.42
rs79450911	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	3	149250498	T	C	8256	-0.24	0.05	0.00	0.00	21.62
rs2612989	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	4	180741150	A	G	8256	0.09	0.02	0.00	0.00	22.80
rs2963905	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	5	9860625	A	C	8256	-0.08	0.02	0.00	0.00	23.02
rs72777087	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	5	92421692	G	A	8256	0.09	0.02	0.00	0.00	21.06
rs2631367	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	5	132369766	G	C	8256	0.12	0.02	0.00	0.01	66.05
rs143370068	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	5	151384678	T	C	8256	-0.31	0.07	0.00	0.00	20.32
rs12205483	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	6	21309401	T	C	8256	-0.23	0.05	0.00	0.00	20.06
rs12210538	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	6	110438805	G	A	8256	-0.17	0.02	0.00	0.01	92.01
rs7069718	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	10	57423364	T	A	8256	0.08	0.02	0.00	0.00	19.81
rs1171623	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	10	59703726	T	G	8256	0.11	0.02	0.00	0.00	32.95
rs144564761	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	10	88265384	C	G	8256	-0.26	0.05	0.00	0.00	22.02
rs174544	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	11	61800281	A	C	8256	-0.09	0.02	0.00	0.00	27.36
rs111269071	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	11	98016962	C	T	8256	0.14	0.03	0.00	0.00	21.23
rs887477	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	12	6336816	C	A	8256	0.07	0.02	0.00	0.00	21.35

rs7143692	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	14	77232936	G	A	8256	0.09	0.02	0.00	0.00	21.22
rs12907371	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	15	100266916	C	G	8256	0.11	0.02	0.00	0.00	20.30
rs138066517	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	17	36800135	T	C	8256	-0.19	0.04	0.00	0.00	20.09
rs75555206	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	17	68326876	A	G	8256	-0.22	0.05	0.00	0.00	20.09
rs74714644	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	18	40568868	A	G	8256	0.30	0.07	0.00	0.00	20.92
rs78422675	Palmitoylcarnitine levels (Metabolon platform)	GCST90199666	18	72567505	T	C	8256	0.56	0.11	0.00	0.00	24.94
rs6029454	Erythritol	GCST90199666	20	40940425	G	C	8256	-0.16	0.04	0.00	0.00	19.83
rs72692616	levels in elite athletes	GCST90199667	1	45941615	A	G	8167	-0.33	0.03	0.00	0.01	109.05
rs150074699	Erythritol	GCST90199667	1	64594052	A	G	8167	1.31	0.29	0.00	0.00	20.29
rs376874259	levels in elite athletes	GCST90199667	1	176310423	G	T	8167	-0.18	0.04	0.00	0.00	24.54
rs75505443	Erythritol	GCST90199667	2	45864492	T	A	8167	0.37	0.08	0.00	0.00	19.80
rs55769487	levels in elite athletes	GCST90199667	2	127080539	T	C	8167	0.09	0.02	0.00	0.00	21.36
rs116078994	Erythritol	GCST90199667	3	41058781	A	C	8167	0.25	0.05	0.00	0.00	22.14
rs9858049	levels in elite athletes	GCST90199667	3	53243795	T	C	8167	-0.14	0.02	0.00	0.00	38.08
rs12633047	Erythritol	GCST90199667	3	53359817	T	C	8167	0.13	0.03	0.00	0.00	21.22
rs4426692	levels in elite athletes	GCST90199667	3	84693906	G	A	8167	-0.07	0.02	0.00	0.00	20.11
rs9813594	Erythritol	GCST90199667	3	109996814	C	T	8167	-0.07	0.02	0.00	0.00	22.36
rs142601344	levels in elite athletes	GCST90199667	3	165864102	T	C	8167	0.34	0.07	0.00	0.00	24.77
rs27598	Erythritol	GCST90199667	5	50862465	A	G	8167	-0.07	0.01	0.00	0.00	20.53
rs144368133	levels in elite athletes	GCST90199667	5	57931118	G	A	8167	-0.33	0.07	0.00	0.00	22.62
rs553220097	Erythritol	GCST90199667	7	62517059	C	G	8167	2.05	0.46	0.00	0.00	19.86
rs79695006	levels in elite athletes	GCST90199667	7	108293669	G	A	8167	0.15	0.03	0.00	0.00	21.98

rs181823223	Erythritol levels in elite athletes	GCST90199667	11	32514486	T	C	8167	-0.11	0.02	0.00	0.00	22.05
rs71480323	Erythritol levels in elite athletes	GCST90199667	11	116900884	A	G	8167	-0.10	0.02	0.00	0.00	21.61
rs9596367	Erythritol levels in elite athletes	GCST90199667	13	50789856	C	G	8167	0.07	0.01	0.00	0.00	21.70
rs12893100	Erythritol levels in elite athletes	GCST90199667	14	90695719	T	C	8167	0.07	0.02	0.00	0.00	20.11
rs1865475	Erythritol levels in elite athletes	GCST90199667	15	55114297	A	G	8167	-0.12	0.02	0.00	0.00	22.20
rs35208507	Erythritol levels in elite athletes	GCST90199667	16	20377607	G	A	8167	-0.08	0.02	0.00	0.00	24.60
rs148188291	Erythritol levels in elite athletes	GCST90199667	18	21282765	G	A	8167	-0.31	0.07	0.00	0.00	20.88
rs117113173	Erythritol levels in elite athletes	GCST90199667	19	32380400	G	C	8167	0.25	0.05	0.00	0.00	26.15
rs111274172	Erythritol levels in elite athletes	GCST90199667	20	38117116	T	A	8167	0.26	0.05	0.00	0.00	25.28
rs150921780	Erythritol levels in elite athletes	GCST90199667	22	43342695	T	C	8167	0.16	0.03	0.00	0.00	20.32
rs75690409	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	1	9468265	G	A	8242	0.27	0.06	0.00	0.00	20.56
rs149556176	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	1	74971148	C	T	8242	0.49	0.06	0.00	0.01	59.90
rs2185152	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	1	75758325	T	C	8242	-0.43	0.02	0.00	0.09	791.30
rs36012907	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	1	204619938	T	C	8242	0.13	0.03	0.00	0.00	23.70
rs16865990	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	2	224459365	G	A	8242	-0.36	0.08	0.00	0.00	22.50
rs1391967	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	3	1322878	G	A	8242	-0.09	0.02	0.00	0.00	19.83
rs62290256	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	3	185538454	G	A	8242	0.16	0.03	0.00	0.00	26.10
rs17843902	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	4	158719996	C	T	8242	-0.08	0.02	0.00	0.00	25.96
rs2631367	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	5	132369766	G	C	8242	0.10	0.01	0.00	0.01	49.15
rs77010315	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	5	151343594	A	C	8242	-0.45	0.07	0.00	0.01	43.91
rs80254170	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	6	160093251	G	A	8242	-0.12	0.03	0.00	0.00	19.52

rs662138	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	6	160143444	G	C	8242	-0.13	0.02	0.00	0.01	46.43
rs28540007	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	8	4552597	C	T	8242	-0.24	0.05	0.00	0.00	20.74
rs144724596	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	8	104841775	T	C	8242	0.43	0.09	0.00	0.00	23.01
rs1171617	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	10	59707424	T	G	8242	0.15	0.02	0.00	0.01	71.08
rs141882839	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	11	7573189	A	G	8242	0.25	0.05	0.00	0.00	26.80
rs73001574	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	11	76064320	T	G	8242	-0.28	0.06	0.00	0.00	22.04
rs898847	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	11	110193739	C	T	8242	0.08	0.02	0.00	0.00	23.17
rs117548628	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	12	70520580	A	G	8242	-0.27	0.06	0.00	0.00	21.01
rs117138561	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	12	78559627	T	C	8242	0.35	0.08	0.00	0.00	19.92
rs75586607	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	13	113921180	C	G	8242	-0.18	0.04	0.00	0.00	20.49
rs7496462	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	15	68441781	G	C	8242	0.07	0.01	0.00	0.00	20.45
rs111262693	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	18	639341	T	G	8242	0.13	0.03	0.00	0.00	20.69
rs117907282	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	18	21078686	A	G	8242	-0.35	0.08	0.00	0.00	20.82
rs113915691	Hexanoylecarnitine levels (Biocrates platform)	GCST90199668	19	56248382	A	G	8242	-0.14	0.03	0.00	0.00	20.26
rs188283366	Acetylcarnitine levels (Biocrates platform)	GCST90199669	1	28663212	C	G	8262	0.25	0.06	0.00	0.00	19.52
rs61765007	Acetylcarnitine levels (Biocrates platform)	GCST90199669	1	71569179	A	G	8262	-0.26	0.06	0.00	0.00	20.47
rs1839212	Acetylcarnitine levels (Biocrates platform)	GCST90199669	2	14271175	A	G	8262	0.22	0.05	0.00	0.00	21.83
rs16865990	Acetylcarnitine levels (Biocrates platform)	GCST90199669	2	224459365	G	A	8262	-0.37	0.08	0.00	0.00	24.65

rs13926431	Acetylcarnitine levels (Biocrates platform)	GCST90199669	3	19751997	G	A	8262	-0.23	0.05	0.00	0.00	19.61
rs138268157	Acetylcarnitine levels (Biocrates platform)	GCST90199669	3	57058647	G	A	8262	0.11	0.02	0.00	0.00	22.68
rs112845131	Acetylcarnitine levels (Biocrates platform)	GCST90199669	3	144385482	T	A	8262	0.32	0.07	0.00	0.00	23.60
rs115362213	Acetylcarnitine levels (Biocrates platform)	GCST90199669	3	170171917	C	G	8262	-0.31	0.07	0.00	0.00	21.98
rs79958740	Acetylcarnitine levels (Biocrates platform)	GCST90199669	3	174319298	T	A	8262	0.20	0.04	0.00	0.00	23.43
rs55640226	Acetylcarnitine levels (Biocrates platform)	GCST90199669	5	96602182	C	T	8262	-0.13	0.03	0.00	0.00	19.53
rs2631367	Acetylcarnitine levels (Biocrates platform)	GCST90199669	5	132369766	G	C	8262	0.11	0.01	0.00	0.01	55.86
rs74823953	Acetylcarnitine levels (Biocrates platform)	GCST90199669	5	151300049	T	C	8262	-0.41	0.07	0.00	0.00	35.97
rs662138	Acetylcarnitine levels (Biocrates platform)	GCST90199669	6	160143444	G	C	8262	-0.09	0.02	0.00	0.00	19.54
rs117508585	Acetylcarnitine levels (Biocrates platform)	GCST90199669	7	1486664	A	G	8262	-0.26	0.06	0.00	0.00	20.06
rs114798927	Acetylcarnitine levels (Biocrates platform)	GCST90199669	8	9363866	C	T	8262	-0.11	0.02	0.00	0.00	21.96
rs10984356	Acetylcarnitine levels (Biocrates platform)	GCST90199669	9	118991295	G	A	8262	-0.14	0.03	0.00	0.00	19.63
rs1171617	Acetylcarnitine levels (Biocrates platform)	GCST90199669	10	59707424	T	G	8262	0.22	0.02	0.00	0.02	142.98
rs898847	Acetylcarnitine levels (Biocrates platform)	GCST90199669	11	110193739	C	T	8262	0.09	0.02	0.00	0.00	24.97
rs71454277	Acetylcarnitine levels (Biocrates platform)	GCST90199669	12	70452222	A	C	8262	0.26	0.06	0.00	0.00	19.83
rs55796423	Acetylcarnitine levels (Biocrates platform)	GCST90199669	14	34313094	A	G	8262	-0.10	0.02	0.00	0.00	21.08
rs146712130	Acetylcarnitine levels (Biocrates platform)	GCST90199669	15	61468442	A	T	8262	-0.38	0.09	0.00	0.00	19.56
rs147882444	Acetylcarnitine levels (Biocrates platform)	GCST90199669	19	2924973	A	G	8262	-0.27	0.06	0.00	0.00	20.17

rs273694	Acetylcarnitine levels (Biocrates platform)	GCST90199669	19	51129448	C	T	8262	0.07	0.02	0.00	0.00	21.10
rs11402892	Iminodiacetate (IDA) levels	GCST90199670	1	86556257	C	G	8213	0.16	0.03	0.00	0.00	22.29
rs7626271	Iminodiacetate (IDA) levels	GCST90199670	3	6732966	G	T	8213	0.19	0.04	0.00	0.00	22.75
rs11486357	Iminodiacetate (IDA) levels	GCST90199670	3	176551303	C	G	8213	0.19	0.04	0.00	0.00	20.85
rs79787801	Iminodiacetate (IDA) levels	GCST90199670	8	13384089	A	G	8213	-0.13	0.03	0.00	0.00	20.84
rs72704298	Iminodiacetate (IDA) levels	GCST90199670	9	8146661	G	A	8213	0.13	0.03	0.00	0.00	21.86
rs2094632	Iminodiacetate (IDA) levels	GCST90199670	9	90417237	G	A	8213	0.08	0.02	0.00	0.00	22.23
rs18300869	Iminodiacetate (IDA) levels	GCST90199670	9	110154414	T	C	8213	-0.37	0.08	0.00	0.00	21.45
rs11340187	Iminodiacetate (IDA) levels	GCST90199670	9	116781555	A	G	8213	0.25	0.06	0.00	0.00	20.00
rs11744850	Iminodiacetate (IDA) levels	GCST90199670	11	105342649	T	G	8213	0.26	0.06	0.00	0.00	19.71
rs18571794	Iminodiacetate (IDA) levels	GCST90199670	12	63630484	C	T	8213	0.29	0.07	0.00	0.00	19.56
rs11617909	Iminodiacetate (IDA) levels	GCST90199670	13	32800725	T	G	8213	-0.15	0.03	0.00	0.00	21.78
rs2967159	Iminodiacetate (IDA) levels	GCST90199670	16	57777675	C	T	8213	-0.09	0.02	0.00	0.00	22.38
rs6506794	Iminodiacetate (IDA) levels	GCST90199670	18	78213176	G	A	8213	0.08	0.02	0.00	0.00	19.82
rs2386992	Iminodiacetate (IDA) levels	GCST90199670	19	47966428	G	A	8213	0.08	0.02	0.00	0.00	20.61
rs1080669	Iminodiacetate (IDA) levels	GCST90199670	19	51063011	T	C	8213	-0.11	0.02	0.00	0.00	21.55
rs55746532	Iminodiacetate (IDA) levels	GCST90199670	20	49843197	C	G	8213	0.14	0.03	0.00	0.00	20.02
rs1297208	Iminodiacetate (IDA) levels	GCST90199670	21	14935708	C	T	8213	-0.07	0.02	0.00	0.00	20.08
rs11806682	Cysteine s-sulfate levels	GCST90199671	2	200242258	T	C	8229	0.51	0.11	0.00	0.00	19.94
rs17028699	Cysteine s-sulfate levels	GCST90199671	3	3211589	T	C	8229	0.12	0.02	0.00	0.00	25.82
rs14198826	Cysteine s-sulfate levels	GCST90199671	3	158194544	T	C	8229	0.18	0.04	0.00	0.00	21.68
rs949204	Cysteine s-sulfate levels	GCST90199671	4	159438824	A	C	8229	-0.18	0.04	0.00	0.00	25.30
rs14079890	Cysteine s-sulfate levels	GCST90199671	5	92863313	C	T	8229	0.35	0.08	0.00	0.00	21.01
rs14024777	Cysteine s-sulfate levels	GCST90199671	6	18015216	T	C	8229	0.13	0.03	0.00	0.00	19.66
rs9349017	Cysteine s-sulfate levels	GCST90199671	6	36843824	A	G	8229	-0.07	0.02	0.00	0.00	19.78
rs9294112	Cysteine s-sulfate levels	GCST90199671	6	78464403	T	C	8229	-0.08	0.02	0.00	0.00	25.41
rs17417592	Cysteine s-sulfate levels	GCST90199671	7	18146568	G	C	8229	0.19	0.04	0.00	0.00	20.61
rs73391840	Cysteine s-sulfate levels	GCST90199671	7	54342514	G	A	8229	0.12	0.03	0.00	0.00	19.53
rs67512771	Cysteine s-sulfate levels	GCST90199671	10	11380921	T	C	8229	0.37	0.08	0.00	0.00	22.68
rs11721532	Cysteine s-sulfate levels	GCST90199671	10	49522298	T	C	8229	0.26	0.05	0.00	0.00	22.18
rs11244781	Cysteine s-sulfate levels	GCST90199671	10	126043660	T	C	8229	-0.09	0.02	0.00	0.00	23.77
rs76358805	Cysteine s-sulfate levels	GCST90199671	12	39096642	C	A	8229	-0.33	0.07	0.00	0.00	21.33
rs8024193	Cysteine s-sulfate levels	GCST90199671	15	79234797	C	T	8229	-0.13	0.03	0.00	0.00	20.27
rs11641923	Cysteine s-sulfate levels	GCST90199671	16	4292671	A	G	8229	-0.27	0.06	0.00	0.00	21.17
rs62047236	Cysteine s-sulfate levels	GCST90199671	16	64040080	T	A	8229	-0.14	0.03	0.00	0.00	19.62
rs11708863	Cysteine s-sulfate levels	GCST90199671	17	22734962	A	G	8229	0.27	0.06	0.00	0.00	22.33

rs72680272	Oxalate (ethanedioate) levels	GCST90199672	1	73727760	A	G	8181	-0.38	0.08	0.00	0.00	20.24
rs647667	Oxalate (ethanedioate) levels	GCST90199672	1	181416933	C	T	8181	0.15	0.03	0.00	0.00	23.05
rs2809969	Oxalate (ethanedioate) levels	GCST90199672	1	199832888	C	T	8181	-0.07	0.02	0.00	0.00	20.91
rs4953634	Oxalate (ethanedioate) levels	GCST90199672	2	48825697	C	T	8181	-0.15	0.03	0.00	0.00	20.27
rs149160598	Oxalate (ethanedioate) levels	GCST90199672	2	101781434	A	G	8181	-0.31	0.06	0.00	0.00	25.67
rs1449141	Oxalate (ethanedioate) levels	GCST90199672	2	231519173	C	A	8181	-0.08	0.02	0.00	0.00	23.37
rs1428090	Oxalate (ethanedioate) levels	GCST90199672	5	116034218	C	A	8181	0.07	0.02	0.00	0.00	22.58
rs62381198	Oxalate (ethanedioate) levels	GCST90199672	5	138843482	T	C	8181	-0.32	0.05	0.00	0.01	45.09
rs77555311	Oxalate (ethanedioate) levels	GCST90199672	5	162775308	G	A	8181	-0.20	0.04	0.00	0.00	21.87
rs145121944	Oxalate (ethanedioate) levels	GCST90199672	6	83426346	G	A	8181	-0.28	0.06	0.00	0.00	22.66
rs71537594	Oxalate (ethanedioate) levels	GCST90199672	7	81912854	A	T	8181	0.14	0.03	0.00	0.00	21.44
rs11766962	Oxalate (ethanedioate) levels	GCST90199672	7	126853325	C	T	8181	-0.08	0.02	0.00	0.00	20.37
rs1995538	Oxalate (ethanedioate) levels	GCST90199672	8	4330081	T	G	8181	0.45	0.10	0.00	0.00	21.89
rs145856286	Oxalate (ethanedioate) levels	GCST90199672	8	30666453	A	G	8181	-0.39	0.08	0.00	0.00	20.92
rs112268836	Oxalate (ethanedioate) levels	GCST90199672	9	98839030	C	T	8181	0.36	0.08	0.00	0.00	22.20
rs77008478	Oxalate (ethanedioate) levels	GCST90199672	10	61457539	G	A	8181	-0.33	0.07	0.00	0.00	21.36
rs117338371	Oxalate (ethanedioate) levels	GCST90199672	11	90979532	A	G	8181	-0.18	0.04	0.00	0.00	19.57
rs4931397	Oxalate (ethanedioate) levels	GCST90199672	12	27762376	C	G	8181	-0.07	0.02	0.00	0.00	20.76
rs117461873	Oxalate (ethanedioate) levels	GCST90199672	12	106362215	A	G	8181	-0.27	0.06	0.00	0.00	22.10
rs113601767	Oxalate (ethanedioate) levels	GCST90199672	13	57109096	G	A	8181	-0.17	0.04	0.00	0.00	20.50
rs373578	Oxalate (ethanedioate) levels	GCST90199672	13	110571088	G	A	8181	0.08	0.02	0.00	0.00	20.53
rs7147156	Oxalate (ethanedioate) levels	GCST90199672	14	22303835	G	T	8181	-0.33	0.07	0.00	0.00	19.87
rs756874	Oxalate (ethanedioate) levels	GCST90199672	15	91174007	G	A	8181	0.08	0.02	0.00	0.00	23.61
rs7201295	Oxalate (ethanedioate) levels	GCST90199672	16	78769592	A	G	8181	-0.07	0.02	0.00	0.00	19.89

rs274865	Oxalate (ethanedioate) levels	GCST90199672	19	48170827	C	G	8181	-0.52	0.12	0.00	0.00	20.05
rs7478	Oxalate (ethanedioate) levels	GCST90199672	19	55487144	A	T	8181	0.07	0.02	0.00	0.00	21.02
rs5760895	Oxalate (ethanedioate) levels	GCST90199672	22	25182992	C	G	8181	-0.08	0.02	0.00	0.00	22.91
rs75561083	DHEAS levels	GCST90199673	1	18620603	T	C	8228	0.24	0.05	0.00	0.00	19.85
rs141370991	DHEAS levels	GCST90199673	1	95564733	T	C	8228	-0.24	0.05	0.00	0.00	25.01
rs10494157	DHEAS levels	GCST90199673	1	113348416	A	G	8228	-0.09	0.02	0.00	0.00	21.42
rs6428823	DHEAS levels	GCST90199673	1	119408720	T	C	8228	-0.06	0.01	0.00	0.00	21.49
rs12049195	DHEAS levels	GCST90199673	1	156063096	A	G	8228	-0.07	0.01	0.00	0.00	25.34
rs76895520	DHEAS levels	GCST90199673	1	211502804	A	G	8228	-0.21	0.05	0.00	0.00	20.09
rs76768009	DHEAS levels	GCST90199673	1	218069033	A	G	8228	-0.16	0.04	0.00	0.00	19.60
rs1807334	DHEAS levels	GCST90199673	2	30631364	A	G	8228	0.06	0.01	0.00	0.00	20.83
rs79317397	DHEAS levels	GCST90199673	2	139657929	A	C	8228	0.24	0.05	0.00	0.00	21.92
rs534538291	DHEAS levels	GCST90199673	2	178483341	T	A	8228	-0.27	0.06	0.00	0.00	19.61
rs2055157	DHEAS levels	GCST90199673	3	23208068	A	C	8228	0.08	0.02	0.00	0.00	21.08
rs7687817	DHEAS levels	GCST90199673	4	109052965	T	C	8228	-0.11	0.02	0.00	0.00	21.65
rs28552668	DHEAS levels	GCST90199673	4	140286964	T	C	8228	-0.12	0.03	0.00	0.00	20.86
rs71606471	DHEAS levels	GCST90199673	5	3053182	A	C	8228	-0.11	0.02	0.00	0.00	22.99
rs150374297	DHEAS levels	GCST90199673	5	9285583	C	T	8228	-0.26	0.06	0.00	0.00	21.13
rs784420	DHEAS levels	GCST90199673	5	78691701	G	A	8228	0.08	0.01	0.00	0.00	32.14
rs6879686	DHEAS levels	GCST90199673	5	99330721	T	G	8228	-0.07	0.02	0.00	0.00	20.42
rs115255559	DHEAS levels	GCST90199673	5	104256740	G	A	8228	-0.22	0.05	0.00	0.00	21.50
rs12658172	DHEAS levels	GCST90199673	5	124869692	C	G	8228	-0.08	0.02	0.00	0.00	19.91
rs142295380	DHEAS levels	GCST90199673	6	8572205	G	C	8228	-0.33	0.07	0.00	0.00	20.86
rs10806995	DHEAS levels	GCST90199673	6	24845553	G	A	8228	-0.07	0.01	0.00	0.00	19.98
rs150328525	DHEAS levels	GCST90199673	6	155492437	G	T	8228	-0.30	0.07	0.00	0.00	20.64
rs10228292	DHEAS levels	GCST90199673	7	64520810	T	C	8228	-0.07	0.01	0.00	0.00	20.11
rs148982377	DHEAS levels	GCST90199673	7	99477415	C	T	8228	-0.42	0.04	0.00	0.02	133.29
rs75280042	DHEAS levels	GCST90199673	8	68372972	T	A	8228	-0.18	0.04	0.00	0.00	19.99
rs529543	DHEAS levels	GCST90199673	9	90582418	G	T	8228	-0.06	0.01	0.00	0.00	21.91
rs7855576	DHEAS levels	GCST90199673	9	134737617	A	C	8228	-0.07	0.02	0.00	0.00	21.68
rs9420589	DHEAS levels	GCST90199673	10	92690476	T	G	8228	-0.06	0.01	0.00	0.00	22.75
rs191866531	DHEAS levels	GCST90199673	11	99965551	A	G	8228	0.33	0.07	0.00	0.00	20.04
rs149982314	DHEAS levels	GCST90199673	11	128095982	T	C	8228	-0.36	0.07	0.00	0.00	26.83
rs144814135	DHEAS levels	GCST90199673	12	49156161	A	G	8228	-0.24	0.05	0.00	0.00	20.89
rs706795	DHEAS levels	GCST90199673	12	49903887	C	T	8228	0.06	0.01	0.00	0.00	19.97
rs659964	DHEAS levels	GCST90199673	12	111692395	C	G	8228	0.09	0.02	0.00	0.00	21.89
rs955783	DHEAS levels	GCST90199673	13	21724936	T	A	8228	0.09	0.01	0.00	0.00	38.70
rs9594288	DHEAS levels	GCST90199673	13	38664751	T	C	8228	-0.17	0.04	0.00	0.00	20.20
rs74041508	DHEAS levels	GCST90199673	14	31872220	C	G	8228	-0.08	0.02	0.00	0.00	20.00
rs148769396	DHEAS levels	GCST90199673	14	63696057	A	G	8228	0.23	0.05	0.00	0.00	19.55
rs698050	DHEAS levels	GCST90199673	14	98071057	T	A	8228	0.06	0.01	0.00	0.00	20.67
rs560835392	DHEAS levels	GCST90199673	15	43655195	A	C	8228	0.21	0.04	0.00	0.00	21.66
rs7173332	DHEAS levels	GCST90199673	15	84978503	C	G	8228	-0.09	0.02	0.00	0.00	22.18
rs1111474	DHEAS levels	GCST90199673	16	52762028	T	C	8228	0.12	0.03	0.00	0.00	19.69
rs76294479	DHEAS levels	GCST90199673	16	81547979	T	C	8228	0.16	0.03	0.00	0.00	35.77
rs117833456	DHEAS levels	GCST90199673	18	243820	C	T	8228	-0.17	0.04	0.00	0.00	19.82
rs184445849	DHEAS levels	GCST90199673	19	29980806	T	C	8228	0.25	0.05	0.00	0.00	21.21
rs212100	DHEAS levels	GCST90199673	19	47873738	C	T	8228	0.09	0.02	0.00	0.00	21.61
rs731722243-	DHEAS levels	GCST90199673	22	50452326	A	G	8228	-0.09	0.02	0.00	0.00	21.77
rs79142871	hydroxymyristate levels	GCST90199674	1	89875384	A	G	8235	0.27	0.06	0.00	0.00	22.43

rs1532133	3- hydroxymyrist ate levels	GCST90199674	1	152024132	T	C	8235	0.08	0.02	0.00	0.00	23.67
rs78085499	3- hydroxymyrist ate levels	GCST90199674	1	175877423	T	C	8235	-0.21	0.05	0.00	0.00	21.16
rs1202578	3- hydroxymyrist ate levels	GCST90199674	1	230863290	C	T	8235	0.07	0.02	0.00	0.00	20.91
rs62273444	3- hydroxymyrist ate levels	GCST90199674	3	118292161	A	G	8235	-0.15	0.03	0.00	0.00	20.75
rs62294541	3- hydroxymyrist ate levels	GCST90199674	4	38989621	G	A	8235	-0.11	0.03	0.00	0.00	20.50
rs73240592	3- hydroxymyrist ate levels	GCST90199674	4	56746704	A	G	8235	0.17	0.04	0.00	0.00	20.79
rs710362	3- hydroxymyrist ate levels	GCST90199674	5	87845250	G	A	8235	0.15	0.03	0.00	0.00	19.89
rs79795772	3- hydroxymyrist ate levels	GCST90199674	5	96753823	A	G	8235	-0.17	0.04	0.00	0.00	20.67
rs11621338 5	3- hydroxymyrist ate levels	GCST90199674	5	170030685	T	A	8235	-0.26	0.05	0.00	0.00	23.26
rs14664361 1	3- hydroxymyrist ate levels	GCST90199674	6	52965053	T	C	8235	-0.16	0.03	0.00	0.00	20.42
rs79589895	3- hydroxymyrist ate levels	GCST90199674	6	116967560	G	A	8235	-0.19	0.04	0.00	0.00	20.31
rs1349890	3- hydroxymyrist ate levels	GCST90199674	6	156385615	C	T	8235	-0.07	0.02	0.00	0.00	21.18
rs760201	3- hydroxymyrist ate levels	GCST90199674	7	156166713	G	C	8235	-0.10	0.02	0.00	0.00	20.15
rs2026430	3- hydroxymyrist ate levels	GCST90199674	10	6514079	C	T	8235	0.07	0.02	0.00	0.00	20.02
rs7897119	3- hydroxymyrist ate levels	GCST90199674	10	123558658	C	G	8235	-0.08	0.02	0.00	0.00	19.54
rs14143648 4	3- hydroxymyrist ate levels	GCST90199674	13	78081794	G	A	8235	0.10	0.02	0.00	0.00	20.44
rs11753624 4	3- hydroxymyrist ate levels	GCST90199674	14	37392148	C	G	8235	-0.16	0.04	0.00	0.00	20.01
rs989915	3- hydroxymyrist ate levels	GCST90199674	14	98678172	T	C	8235	0.07	0.02	0.00	0.00	20.87
rs13993893 5	3- hydroxymyrist ate levels	GCST90199674	18	21664649	G	A	8235	-0.48	0.10	0.00	0.00	23.74
rs34544263	Homoarginine levels	GCST90199675	1	32569015	G	A	8265	0.09	0.02	0.00	0.00	23.22
rs18287160 3	Homoarginine levels	GCST90199675	1	223453245	A	T	8265	-0.32	0.07	0.00	0.00	22.80
rs76205147	Homoarginine levels	GCST90199675	2	54065347	A	G	8265	0.16	0.03	0.00	0.00	21.56
rs11491703 5	Homoarginine levels	GCST90199675	2	132615774	C	T	8265	0.26	0.06	0.00	0.00	19.64
rs1047891	Homoarginine levels	GCST90199675	2	210675783	A	C	8265	-0.27	0.02	0.00	0.04	301.14
rs56162443	Homoarginine levels	GCST90199675	3	197019188	T	C	8265	0.22	0.05	0.00	0.00	20.08
rs13135092	Homoarginine levels	GCST90199675	4	102276925	G	A	8265	0.15	0.03	0.00	0.00	33.30
rs72682642	Homoarginine levels	GCST90199675	4	121989928	A	G	8265	0.27	0.06	0.00	0.00	19.78

rs37370	Homoarginine levels	GCST90199675	5	35039381	T	C	8265	-0.15	0.02	0.00	0.00	37.83
rs62356073	Homoarginine levels	GCST90199675	5	36241820	A	G	8265	-0.06	0.01	0.00	0.00	19.70
rs3095953	Homoarginine levels	GCST90199675	5	165167810	C	G	8265	0.19	0.04	0.00	0.00	21.09
rs2282841	Homoarginine levels	GCST90199675	6	16423181	T	C	8265	-0.11	0.02	0.00	0.00	20.24
rs2781666	Homoarginine levels	GCST90199675	6	131572419	T	G	8265	0.08	0.02	0.00	0.00	24.85
rs6465696	Homoarginine levels	GCST90199675	7	98675533	T	A	8265	-0.07	0.02	0.00	0.00	20.72
rs1805120	Homoarginine levels	GCST90199675	7	150952443	A	G	8265	0.08	0.02	0.00	0.00	19.95
rs7818335	Homoarginine levels	GCST90199675	8	41146640	T	C	8265	0.07	0.02	0.00	0.00	21.60
rs6473159	Homoarginine levels	GCST90199675	8	79462003	G	A	8265	-0.07	0.02	0.00	0.00	19.51
rs4978869	Homoarginine levels	GCST90199675	9	110101283	T	G	8265	0.10	0.02	0.00	0.00	19.54
rs144260607	Homoarginine levels	GCST90199675	10	130768274	T	C	8265	-0.22	0.05	0.00	0.00	21.84
rs146683630	Homoarginine levels	GCST90199675	11	98743205	C	G	8265	0.22	0.04	0.00	0.00	28.55
rs77433867	Homoarginine levels	GCST90199675	12	21504329	A	G	8265	-0.16	0.04	0.00	0.00	19.93
rs12306007	Homoarginine levels	GCST90199675	12	46790259	T	C	8265	0.10	0.02	0.00	0.00	25.46
rs116979298	Homoarginine levels	GCST90199675	12	65944802	T	C	8265	-0.18	0.04	0.00	0.00	21.06
rs72623915	Homoarginine levels	GCST90199675	15	45355235	T	C	8265	0.36	0.02	0.00	0.06	495.38
rs35770448	Homoarginine levels	GCST90199675	15	90246328	C	T	8265	0.11	0.02	0.00	0.00	20.16
rs145421014	Homoarginine levels	GCST90199675	16	87911551	A	C	8265	-0.37	0.07	0.00	0.00	24.72
rs75686987	Homoarginine levels	GCST90199675	17	77819845	A	G	8265	0.22	0.05	0.00	0.00	21.90
rs117313139	Homoarginine levels	GCST90199675	19	2940349	G	C	8265	0.13	0.03	0.00	0.00	21.19
rs72629024	Homoarginine levels	GCST90199675	20	63521166	G	C	8265	0.12	0.02	0.00	0.00	32.32
rs17268364	oleoylglycerol (18:1) levels	GCST90199676	2	203913095	A	G	8225	0.07	0.02	0.00	0.00	21.93
rs111879519	oleoylglycerol (18:1) levels	GCST90199676	2	233028533	T	C	8225	0.15	0.03	0.00	0.00	20.66
rs146172549	oleoylglycerol (18:1) levels	GCST90199676	3	99971059	C	T	8225	0.34	0.07	0.00	0.00	21.19
rs139236053	oleoylglycerol (18:1) levels	GCST90199676	3	124540052	A	G	8225	-0.15	0.03	0.00	0.00	19.92
rs114951684	oleoylglycerol (18:1) levels	GCST90199676	3	177280337	G	A	8225	-0.21	0.05	0.00	0.00	20.42
rs73808455	oleoylglycerol (18:1) levels	GCST90199676	4	39517767	T	C	8225	-0.28	0.06	0.00	0.00	20.64
rs114881696	oleoylglycerol (18:1) levels	GCST90199676	4	92980470	G	C	8225	-0.24	0.04	0.00	0.00	30.08
rs57601959	oleoylglycerol (18:1) levels	GCST90199676	4	157170888	A	G	8225	-0.16	0.04	0.00	0.00	19.65
rs72691394	oleoylglycerol (18:1) levels	GCST90199676	4	160206480	A	G	8225	-0.18	0.04	0.00	0.00	22.68
rs57994859	oleoylglycerol (18:1) levels	GCST90199676	5	107881849	T	C	8225	-0.13	0.03	0.00	0.00	19.63

rs158835	1- oleoylglycerol (18:1) levels	GCST90199676	5	163642228	G	C	8225	-0.08	0.02	0.00	0.00	21.60
rs6936055	1- oleoylglycerol (18:1) levels	GCST90199676	6	89974636	T	C	8225	0.10	0.02	0.00	0.00	25.08
rs10484587	1- oleoylglycerol (18:1) levels	GCST90199676	6	142820440	T	A	8225	0.09	0.02	0.00	0.00	22.46
rs11754776	1- oleoylglycerol (18:1) levels	GCST90199676	6	166982299	T	C	8225	-0.17	0.03	0.00	0.00	22.55
rs14555751 7	1- oleoylglycerol (18:1) levels	GCST90199676	7	33489150	A	G	8225	0.31	0.07	0.00	0.00	21.97
rs13238458	1- oleoylglycerol (18:1) levels	GCST90199676	7	87881104	A	G	8225	0.13	0.03	0.00	0.00	19.55
rs17091891	1- oleoylglycerol (18:1) levels	GCST90199676	8	19985660	C	T	8225	-0.12	0.02	0.00	0.00	26.70
rs7860081	1- oleoylglycerol (18:1) levels	GCST90199676	9	113154387	C	G	8225	0.07	0.02	0.00	0.00	21.25
rs76911913	1- oleoylglycerol (18:1) levels	GCST90199676	10	71142820	G	C	8225	-0.49	0.11	0.00	0.00	21.25
rs4962425	1- oleoylglycerol (18:1) levels	GCST90199676	10	125131154	C	T	8225	0.09	0.02	0.00	0.00	20.27
rs10840108	1- oleoylglycerol (18:1) levels	GCST90199676	11	8682394	C	T	8225	-0.08	0.02	0.00	0.00	21.92
rs11724536 3	1- oleoylglycerol (18:1) levels	GCST90199676	11	34772147	A	G	8225	0.29	0.06	0.00	0.00	20.88
rs2514155	1- oleoylglycerol (18:1) levels	GCST90199676	11	84000834	A	C	8225	-0.16	0.04	0.00	0.00	19.61
rs964184	1- oleoylglycerol (18:1) levels	GCST90199676	11	116778201	C	G	8225	-0.18	0.02	0.00	0.01	60.15
rs18674004 8	1- oleoylglycerol (18:1) levels	GCST90199676	12	49868661	A	G	8225	-0.30	0.07	0.00	0.00	19.99
rs72676439	1- oleoylglycerol (18:1) levels	GCST90199676	14	20604272	T	C	8225	-0.13	0.03	0.00	0.00	19.52
rs72785421	1- oleoylglycerol (18:1) levels	GCST90199676	16	14193978	C	T	8225	-0.12	0.02	0.00	0.00	30.20
rs74732810	1- oleoylglycerol (18:1) levels	GCST90199676	16	87945357	G	T	8225	0.16	0.03	0.00	0.00	21.68
rs19159192 5	1- oleoylglycerol (18:1) levels	GCST90199676	17	75925202	T	C	8225	-0.44	0.10	0.00	0.00	20.90
rs14812521 9	1- oleoylglycerol (18:1) levels	GCST90199676	18	77128744	A	G	8225	-0.36	0.08	0.00	0.00	21.51
rs11287101 2	1- oleoylglycerol (18:1) levels	GCST90199676	19	44928640	A	G	8225	0.16	0.03	0.00	0.00	32.16
rs1002762	1- oleoylglycerol (18:1) levels	GCST90199676	20	60005830	G	A	8225	-0.10	0.02	0.00	0.00	23.97
rs6437111	3-methyl-2- oxobutyrate levels	GCST90199677	2	149856643	T	C	8254	-0.07	0.02	0.00	0.00	21.53
rs71434672	3-methyl-2- oxobutyrate levels	GCST90199677	2	189947754	T	A	8254	-0.15	0.03	0.00	0.00	22.12

rs11183841 3	3-methyl-2-oxobutyrate levels	GCST90199677	3	18040522	C	A	8254	0.18	0.04	0.00	0.00	20.13
rs1129043	3-methyl-2-oxobutyrate levels	GCST90199677	4	88261979	C	T	8254	-0.13	0.02	0.00	0.01	68.93
rs20135785 3	3-methyl-2-oxobutyrate levels	GCST90199677	6	163888112	T	A	8254	0.12	0.03	0.00	0.00	20.33
rs77095091	3-methyl-2-oxobutyrate levels	GCST90199677	7	22393127	C	T	8254	-0.13	0.03	0.00	0.00	19.61
rs13270448	3-methyl-2-oxobutyrate levels	GCST90199677	8	49088657	G	A	8254	0.08	0.02	0.00	0.00	24.40
rs11767512 1	3-methyl-2-oxobutyrate levels	GCST90199677	8	65921438	C	A	8254	-0.23	0.05	0.00	0.00	21.52
rs16922127	3-methyl-2-oxobutyrate levels	GCST90199677	9	4823425	T	G	8254	-0.14	0.03	0.00	0.00	21.19
rs14696432 2	3-methyl-2-oxobutyrate levels	GCST90199677	9	131051546	G	C	8254	0.15	0.03	0.00	0.00	22.89
rs80195374	3-methyl-2-oxobutyrate levels	GCST90199677	10	10954589	A	G	8254	0.25	0.05	0.00	0.00	23.17
rs13928208 2	3-methyl-2-oxobutyrate levels	GCST90199677	10	109383655	G	T	8254	-0.21	0.05	0.00	0.00	19.80
rs34402912	3-methyl-2-oxobutyrate levels	GCST90199677	13	59107201	C	T	8254	0.12	0.03	0.00	0.00	19.66
rs14143648 4	3-methyl-2-oxobutyrate levels	GCST90199677	13	78081794	G	A	8254	0.12	0.02	0.00	0.00	25.79
rs45591543	3-methyl-2-oxobutyrate levels	GCST90199677	14	89576997	T	C	8254	0.27	0.06	0.00	0.00	20.57
rs12894999	3-methyl-2-oxobutyrate levels	GCST90199677	14	102071272	A	G	8254	-0.10	0.02	0.00	0.00	24.75
rs14386665 3	3-methyl-2-oxobutyrate levels	GCST90199677	15	39517901	C	A	8254	-0.23	0.05	0.00	0.00	21.54
rs76701293	3-methyl-2-oxobutyrate levels	GCST90199677	15	56470746	A	G	8254	-0.16	0.04	0.00	0.00	19.53
rs13844797 3	3-methyl-2-oxobutyrate levels	GCST90199677	17	6288440	C	T	8254	0.23	0.05	0.00	0.00	20.54
rs9963006	3-methyl-2-oxobutyrate levels	GCST90199677	18	59936651	A	G	8254	-0.08	0.02	0.00	0.00	21.20
rs77723081	3-methyl-2-oxobutyrate levels	GCST90199677	21	17644260	C	G	8254	-0.42	0.09	0.00	0.00	19.94
rs77182631	3-methyl-2-oxobutyrate levels	GCST90199677	21	36290919	A	G	8254	-0.18	0.04	0.00	0.00	22.35
rs14059176 4	Tartronate (hydroxymalate) levels	GCST90199678	1	58043724	T	C	8125	-0.48	0.10	0.00	0.00	23.34
rs15109645 0	Tartronate (hydroxymalate) levels	GCST90199678	1	196882123	T	G	8125	-0.11	0.02	0.00	0.00	20.08
rs11691183	Tartronate (hydroxymalate) levels	GCST90199678	2	231569787	T	C	8125	-0.08	0.02	0.00	0.00	22.15
rs17688758	Tartronate (hydroxymalate) levels	GCST90199678	4	71131542	C	T	8125	-0.13	0.03	0.00	0.00	21.36

rs276286	Tartronate (hydroxymalo nate) levels	GCST90199678	5	42051492	A	G	8125	-0.08	0.02	0.00	0.00	23.15
rs72801867	Tartronate (hydroxymalo nate) levels	GCST90199678	5	114478030	G	A	8125	0.10	0.02	0.00	0.00	21.18
rs62381620	Tartronate (hydroxymalo nate) levels	GCST90199678	5	139350290	G	T	8125	-0.29	0.04	0.00	0.01	41.91
rs114537403	Tartronate (hydroxymalo nate) levels	GCST90199678	6	36795468	T	C	8125	0.25	0.06	0.00	0.00	19.74
rs191390190	Tartronate (hydroxymalo nate) levels	GCST90199678	7	16909507	A	T	8125	-0.28	0.06	0.00	0.00	20.15
rs73396929	Tartronate (hydroxymalo nate) levels	GCST90199678	7	98588077	A	G	8125	-0.13	0.03	0.00	0.00	23.02
rs11766962	Tartronate (hydroxymalo nate) levels	GCST90199678	7	126853325	C	T	8125	-0.09	0.02	0.00	0.00	23.69
rs77181656	Tartronate (hydroxymalo nate) levels	GCST90199678	8	11560832	T	C	8125	-0.30	0.07	0.00	0.00	19.67
rs55703838	Tartronate (hydroxymalo nate) levels	GCST90199678	11	1236954	T	C	8125	-0.34	0.07	0.00	0.00	20.47
rs9599028	Tartronate (hydroxymalo nate) levels	GCST90199678	13	65857995	A	T	8125	0.08	0.02	0.00	0.00	21.75
rs7147156	Tartronate (hydroxymalo nate) levels	GCST90199678	14	22303835	G	T	8125	-0.34	0.08	0.00	0.00	20.65
rs191302291	Tartronate (hydroxymalo nate) levels	GCST90199678	15	54795883	T	G	8125	-0.30	0.06	0.00	0.00	24.35
rs756874	Tartronate (hydroxymalo nate) levels	GCST90199678	15	91174007	G	A	8125	0.07	0.02	0.00	0.00	21.79
rs117550283	Tartronate (hydroxymalo nate) levels	GCST90199678	16	6878320	C	G	8125	-0.12	0.03	0.00	0.00	19.63
rs145469088	Tartronate (hydroxymalo nate) levels	GCST90199678	16	34025958	G	A	8125	-1.63	0.33	0.00	0.00	25.01
rs7478	Tartronate (hydroxymalo nate) levels	GCST90199678	19	55487144	A	T	8125	0.07	0.02	0.00	0.00	19.76
rs5996848	Tartronate (hydroxymalo nate) levels	GCST90199678	22	25181963	G	A	8125	-0.08	0.02	0.00	0.00	21.62
rs141568347	2,3- dihydroxypyri dine levels	GCST90199679	1	3516381	A	G	6496	-0.75	0.16	0.00	0.00	22.35
rs7593862	2,3- dihydroxypyri dine levels	GCST90199679	2	23047125	C	T	6496	0.09	0.02	0.00	0.00	21.20
rs2090997	2,3- dihydroxypyri dine levels	GCST90199679	2	158883384	G	A	6496	0.11	0.03	0.00	0.00	19.90
rs11129828	2,3- dihydroxypyri dine levels	GCST90199679	3	39406103	T	C	6496	-0.09	0.02	0.00	0.00	21.63
rs13114094	2,3- dihydroxypyri dine levels	GCST90199679	4	67837087	C	T	6496	0.11	0.02	0.00	0.00	20.39
rs149272613	2,3- dihydroxypyri dine levels	GCST90199679	4	180249379	T	C	6496	-0.29	0.06	0.00	0.00	23.01
rs62337911	2,3- dihydroxypyri dine levels	GCST90199679	4	182887202	G	A	6496	-0.21	0.04	0.00	0.00	22.04

rs143968247	2,3-dihydroxypyridine levels	GCST90199679	5	68697341	A	G	6496	-0.22	0.05	0.00	0.00	20.32
rs11167700	2,3-dihydroxypyridine levels	GCST90199679	5	154783191	T	A	6496	-0.11	0.02	0.00	0.00	21.92
rs2749675	2,3-dihydroxypyridine levels	GCST90199679	6	157374474	G	A	6496	0.12	0.03	0.00	0.00	22.76
rs12216347	2,3-dihydroxypyridine levels	GCST90199679	6	168808954	G	A	6496	-0.08	0.02	0.00	0.00	20.12
rs10250619	2,3-dihydroxypyridine levels	GCST90199679	7	17673607	C	T	6496	-0.09	0.02	0.00	0.00	19.71
rs324498	2,3-dihydroxypyridine levels	GCST90199679	9	9059545	A	G	6496	0.12	0.03	0.00	0.00	20.83
rs117746629	2,3-dihydroxypyridine levels	GCST90199679	9	25018686	T	A	6496	0.17	0.04	0.00	0.00	21.14
rs10823297	2,3-dihydroxypyridine levels	GCST90199679	10	69085335	C	T	6496	-0.22	0.05	0.00	0.00	20.36
rs11608247	2,3-dihydroxypyridine levels	GCST90199679	11	64299099	G	A	6496	0.19	0.04	0.00	0.00	20.57
rs4898864	2,3-dihydroxypyridine levels	GCST90199679	14	55443567	A	T	6496	-0.08	0.02	0.00	0.00	20.80
rs114966657	2,3-dihydroxypyridine levels	GCST90199679	15	46028691	C	T	6496	0.13	0.03	0.00	0.00	19.84
rs2472297	2,3-dihydroxypyridine levels	GCST90199679	15	74735539	T	C	6496	0.09	0.02	0.00	0.00	21.77
rs148948230	2,3-dihydroxypyridine levels	GCST90199679	16	54205730	T	C	6496	-0.28	0.06	0.00	0.00	19.64
rs62063470	2,3-dihydroxypyridine levels	GCST90199679	17	6366068	C	G	6496	-0.09	0.02	0.00	0.00	19.64
rs8072466	2,3-dihydroxypyridine levels	GCST90199679	17	31556453	C	T	6496	-0.11	0.02	0.00	0.00	19.83
rs62095761	2,3-dihydroxypyridine levels	GCST90199679	18	12894289	A	G	6496	0.10	0.02	0.00	0.00	23.06
rs2313588	3-dihydroxypyridine levels	GCST90199679	20	62833658	A	C	6496	-0.12	0.03	0.00	0.00	22.04
rs380155	3-hydroxyoctanoate levels	GCST90199680	1	119656566	T	C	8182	-0.07	0.02	0.00	0.00	20.89
rs28415528	3-hydroxyoctanoate levels	GCST90199680	1	151907285	A	G	8182	-0.12	0.02	0.00	0.01	53.88
rs186490153	3-hydroxyoctanoate levels	GCST90199680	2	142248590	C	T	8182	-0.25	0.06	0.00	0.00	20.31
rs557560710	3-hydroxyoctanoate levels	GCST90199680	2	208748597	C	T	8182	-0.15	0.03	0.00	0.00	20.65
rs139897381	3-hydroxyoctanoate levels	GCST90199680	3	190042188	C	T	8182	-0.33	0.07	0.00	0.00	24.09
rs150955925	3-hydroxyoctanoate levels	GCST90199680	4	11555380	C	G	8182	-0.31	0.07	0.00	0.00	21.48
rs72668359	3-hydroxyoctanoate levels	GCST90199680	4	108907496	C	T	8182	0.28	0.06	0.00	0.00	22.00

rs18872985 2	3- hydroxyoctano ate levels 3-	GCST90199680	5	66077437	A	G	8182	0.67	0.15	0.00	0.00	21.35
rs79795772	hydroxyoctano ate levels 3-	GCST90199680	5	96753823	A	G	8182	-0.17	0.04	0.00	0.00	20.01
rs9314051	hydroxyoctano ate levels 3-	GCST90199680	5	165050300	A	C	8182	0.08	0.02	0.00	0.00	23.87
rs7741311	hydroxyoctano ate levels 3-	GCST90199680	6	158160562	G	T	8182	0.10	0.02	0.00	0.00	20.70
rs3752651	hydroxyoctano ate levels 3-	GCST90199680	7	55161850	C	T	8182	-0.09	0.02	0.00	0.00	22.92
rs1481852	hydroxyoctano ate levels 3-	GCST90199680	8	71839992	G	A	8182	-0.08	0.02	0.00	0.00	23.29
rs12554019	hydroxyoctano ate levels 3-	GCST90199680	9	29241348	G	C	8182	-0.09	0.02	0.00	0.00	19.97
rs11141654	hydroxyoctano ate levels 3-	GCST90199680	9	87030986	A	G	8182	-0.10	0.02	0.00	0.00	23.09
rs34097396	hydroxyoctano ate levels 3-	GCST90199680	11	4572181	A	G	8182	-0.14	0.03	0.00	0.00	20.45
rs10844993	hydroxyoctano ate levels 3-	GCST90199680	12	9871408	G	T	8182	0.08	0.02	0.00	0.00	22.16
rs12878802	hydroxyoctano ate levels 3-	GCST90199680	14	29432672	C	T	8182	-0.08	0.02	0.00	0.00	24.89
rs9302385	hydroxyoctano ate levels 3-	GCST90199680	16	20462998	C	A	8182	-0.09	0.02	0.00	0.00	28.27
rs9913532	hydroxyoctano ate levels 3-	GCST90199680	17	74267491	T	C	8182	-0.11	0.02	0.00	0.00	21.34
rs11879271	hydroxyoctano ate levels 2-	GCST90199680	19	39941114	T	C	8182	0.14	0.03	0.00	0.00	20.22
rs14358406 7	hydroxyoctano ate levels 2-	GCST90199681	1	12161570	A	G	8224	0.40	0.09	0.00	0.00	20.00
rs76963882	hydroxyoctano ate levels 2-	GCST90199681	1	75702239	C	T	8224	0.07	0.02	0.00	0.00	19.73
rs18807737 8	hydroxyoctano ate levels 2-	GCST90199681	1	104217807	A	G	8224	-0.19	0.04	0.00	0.00	25.17
rs12562486	hydroxyoctano ate levels 2-	GCST90199681	1	109896185	T	G	8224	0.75	0.16	0.00	0.00	21.57
rs13384756	hydroxyoctano ate levels 2-	GCST90199681	2	73644538	T	C	8224	-0.22	0.02	0.00	0.02	146.65
rs11280973 3	hydroxyoctano ate levels 2-	GCST90199681	2	216040672	C	T	8224	0.12	0.03	0.00	0.00	22.55
rs74637339	hydroxyoctano ate levels 2-	GCST90199681	3	15586533	A	T	8224	0.22	0.03	0.00	0.00	39.47
rs35254234	hydroxyoctano ate levels 2-	GCST90199681	3	18702604	A	G	8224	0.32	0.07	0.00	0.00	21.45
rs18348917 5	hydroxyoctano ate levels 2-	GCST90199681	3	66418124	A	G	8224	0.41	0.09	0.00	0.00	20.14
rs14572977 7	hydroxyoctano ate levels	GCST90199681	3	73243416	A	G	8224	-0.46	0.10	0.00	0.00	19.51

rs1479581	2-hydroxyoctanoate levels	GCST90199681	5	25646458	C	T	8224	-0.09	0.02	0.00	0.00	21.25
rs17470667	2-hydroxyoctanoate levels	GCST90199681	5	39371973	G	A	8224	0.16	0.04	0.00	0.00	21.28
rs35538886	2-hydroxyoctanoate levels	GCST90199681	6	117466443	T	C	8224	-0.13	0.03	0.00	0.00	19.84
rs7029211	2-hydroxyoctanoate levels	GCST90199681	9	73862954	T	C	8224	-0.28	0.06	0.00	0.00	21.25
rs12250365	2-hydroxyoctanoate levels	GCST90199681	10	89772422	A	G	8224	0.09	0.02	0.00	0.00	25.28
rs77585588	2-hydroxyoctanoate levels	GCST90199681	11	45063972	A	G	8224	0.45	0.09	0.00	0.00	25.46
rs76619244	2-hydroxyoctanoate levels	GCST90199681	11	99815568	C	G	8224	0.30	0.06	0.00	0.00	22.35
rs72622236	2-hydroxyoctanoate levels	GCST90199681	16	49627427	C	A	8224	-0.07	0.02	0.00	0.00	21.20
rs118085936	2-hydroxyoctanoate levels	GCST90199681	16	83280712	C	T	8224	0.16	0.03	0.00	0.00	20.94
rs6503343	2-hydroxyoctanoate levels	GCST90199681	17	11018282	A	G	8224	-0.11	0.02	0.00	0.00	20.23
rs11574581	2-hydroxyoctanoate levels	GCST90199681	19	54667225	G	A	8224	0.14	0.03	0.00	0.00	25.00
rs5748916	2-hydroxyoctanoate levels	GCST90199681	22	17156988	A	G	8224	-0.07	0.02	0.00	0.00	19.64
rs12726652	Homocitrulline levels	GCST90199682	1	106889954	A	G	7998	-0.08	0.02	0.00	0.00	20.40
rs149152049	Homocitrulline levels	GCST90199682	1	211797411	A	C	7998	-0.28	0.06	0.00	0.00	21.05
rs145449041	Homocitrulline levels	GCST90199682	2	59983063	C	T	7998	0.39	0.09	0.00	0.00	20.51
rs6736866	Homocitrulline levels	GCST90199682	2	73434858	G	C	7998	-0.08	0.02	0.00	0.00	21.40
rs17011873	Homocitrulline levels	GCST90199682	2	124688613	C	T	7998	-0.08	0.02	0.00	0.00	21.37
rs149381367	Homocitrulline levels	GCST90199682	2	159109365	G	C	7998	0.28	0.06	0.00	0.00	19.67
rs12989742	Homocitrulline levels	GCST90199682	2	240789660	C	T	7998	0.08	0.02	0.00	0.00	20.24
rs12490555	Homocitrulline levels	GCST90199682	3	53194820	T	C	7998	0.08	0.02	0.00	0.00	21.79
rs2285761	Homocitrulline levels	GCST90199682	4	7768996	T	G	7998	0.09	0.02	0.00	0.00	19.91
rs11741406	Homocitrulline levels	GCST90199682	5	6518191	A	G	7998	0.09	0.02	0.00	0.00	20.06
rs34463406	Homocitrulline levels	GCST90199682	5	115969714	T	C	7998	-0.07	0.02	0.00	0.00	19.78
rs148874160	Homocitrulline levels	GCST90199682	6	23183054	A	G	7998	0.25	0.05	0.00	0.00	22.93
rs148170430	Homocitrulline levels	GCST90199682	6	159148535	C	T	7998	0.48	0.09	0.00	0.00	26.25
rs17544266	Homocitrulline levels	GCST90199682	7	42728817	C	T	7998	-0.19	0.04	0.00	0.00	19.77
rs2727548	Homocitrulline levels	GCST90199682	7	151726259	A	G	7998	-0.07	0.02	0.00	0.00	20.92
rs117283049	Homocitrulline levels	GCST90199682	11	7669396	G	T	7998	-0.19	0.04	0.00	0.00	21.03
rs147045808	Homocitrulline levels	GCST90199682	11	92545337	T	C	7998	0.35	0.08	0.00	0.00	20.24
rs78978101	Homocitrulline levels	GCST90199682	12	130026756	A	C	7998	-0.35	0.08	0.00	0.00	20.09
rs8025295	Homocitrulline levels	GCST90199682	15	93464119	G	C	7998	0.09	0.02	0.00	0.00	21.87

rs140994086	Homocitrulline levels	GCST90199682	16	51773494	T	C	7998	0.21	0.05	0.00	0.00	20.33
rs929300	Homocitrulline levels	GCST90199682	16	74025708	T	C	7998	0.19	0.04	0.00	0.00	20.03
rs138767120	Homocitrulline levels	GCST90199682	16	87449270	G	C	7998	-0.21	0.04	0.00	0.00	21.97
rs3211568	Homocitrulline levels	GCST90199682	16	89563372	A	G	7998	0.09	0.02	0.00	0.00	21.32
rs74251908	Homocitrulline levels	GCST90199682	17	430928	T	C	7998	0.20	0.04	0.00	0.00	22.30
rs4390625	Homocitrulline levels	GCST90199682	17	39464094	G	A	7998	-0.09	0.02	0.00	0.00	29.83
rs61197953	Homocitrulline levels	GCST90199682	18	1613350	C	T	7998	0.07	0.02	0.00	0.00	20.82
rs75459253	Homocitrulline levels	GCST90199682	18	11989017	A	G	7998	0.22	0.05	0.00	0.00	23.94
rs200399858	Homocitrulline levels	GCST90199682	19	32851497	T	C	7998	-0.12	0.02	0.00	0.01	63.34
rs8101881	Homocitrulline levels	GCST90199682	19	32873722	T	C	7998	0.25	0.02	0.00	0.03	276.08
rs2999546	Indoleacetate levels	GCST90199683	1	151935363	T	G	8208	0.07	0.02	0.00	0.00	20.75
rs4584428	Indoleacetate levels	GCST90199683	1	234491997	T	G	8208	0.11	0.02	0.00	0.00	21.04
rs11889711	Indoleacetate levels	GCST90199683	2	17935969	T	C	8208	-0.07	0.02	0.00	0.00	21.01
rs1479	Indoleacetate levels	GCST90199683	2	113217527	G	T	8208	0.09	0.02	0.00	0.00	22.22
rs72551330	Indoleacetate levels	GCST90199683	2	233672032	C	T	8208	0.30	0.06	0.00	0.00	23.24
rs146089696	Indoleacetate levels	GCST90199683	2	240648988	C	A	8208	-0.23	0.05	0.00	0.00	22.18
rs77535679	Indoleacetate levels	GCST90199683	3	46593678	A	G	8208	0.27	0.05	0.00	0.00	26.64
rs73152633	Indoleacetate levels	GCST90199683	3	149475443	T	C	8208	0.18	0.04	0.00	0.00	21.94
rs9866361	Indoleacetate levels	GCST90199683	3	179190061	A	G	8208	0.10	0.02	0.00	0.00	21.33
rs115634566	Indoleacetate levels	GCST90199683	4	1675590	C	G	8208	0.24	0.05	0.00	0.00	19.73
rs13353672	Indoleacetate levels	GCST90199683	4	181238448	A	G	8208	0.08	0.02	0.00	0.00	19.73
rs138960177	Indoleacetate levels	GCST90199683	4	189747117	T	C	8208	0.20	0.04	0.00	0.00	23.12
rs2187200	Indoleacetate levels	GCST90199683	6	162035178	G	T	8208	-0.07	0.02	0.00	0.00	19.58
rs78906653	Indoleacetate levels	GCST90199683	7	50427357	T	C	8208	-0.14	0.03	0.00	0.00	24.85
rs11575549	Indoleacetate levels	GCST90199683	7	50462479	T	C	8208	-0.38	0.06	0.00	0.01	44.43
rs867704	Indoleacetate levels	GCST90199683	7	130051469	G	C	8208	-0.07	0.02	0.00	0.00	20.47
rs72663013	Indoleacetate levels	GCST90199683	8	56843191	T	G	8208	-0.28	0.05	0.00	0.00	26.68
rs41280729	Indoleacetate levels	GCST90199683	9	5571105	G	A	8208	-0.15	0.03	0.00	0.00	20.99
rs1929252	Indoleacetate levels	GCST90199683	10	29902027	C	A	8208	-0.08	0.02	0.00	0.00	20.19
rs10999904	Indoleacetate levels	GCST90199683	10	71591392	A	G	8208	-0.13	0.03	0.00	0.00	27.34
rs76522692	Indoleacetate levels	GCST90199683	10	117400423	G	A	8208	-0.22	0.05	0.00	0.00	21.69
rs11518601	Indoleacetate levels	GCST90199683	11	55238964	T	C	8208	-0.11	0.02	0.00	0.00	21.63
rs11227288	Indoleacetate levels	GCST90199683	11	65749117	C	G	8208	0.09	0.02	0.00	0.00	20.77
rs35291122	Indoleacetate levels	GCST90199683	14	44601011	A	G	8208	-0.22	0.05	0.00	0.00	23.17
rs118052117	Indoleacetate levels	GCST90199683	15	42517608	T	C	8208	0.23	0.05	0.00	0.00	20.45
rs8061485	Indoleacetate levels	GCST90199683	16	20463360	C	T	8208	-0.08	0.02	0.00	0.00	24.96
rs184875464	Indoleacetate levels	GCST90199683	16	70288328	T	C	8208	0.53	0.10	0.00	0.00	26.52

rs181823597	Indoleacetate levels	GCST90199683	16	87640321	G	C	8208	0.16	0.03	0.00	0.00	24.43
rs79441299	Indoleacetate levels	GCST90199683	17	12355766	T	C	8208	0.29	0.06	0.00	0.00	21.09
rs240759	Indoleacetate levels	GCST90199683	20	17872813	A	G	8208	-0.17	0.04	0.00	0.00	20.04
rs113532410	Indoleacetate levels	GCST90199683	22	33441144	T	G	8208	0.17	0.03	0.00	0.00	27.06
rs5751124	Indoleacetate levels	GCST90199683	22	41550972	A	G	8208	0.19	0.04	0.00	0.00	20.19
rs75445316	linoleoylglycerol (18:2) levels	GCST90199684	2	114276169	T	C	8212	0.24	0.05	0.00	0.00	23.76
rs113627835	linoleoylglycerol (18:2) levels	GCST90199684	2	225063702	C	G	8212	0.38	0.08	0.00	0.00	20.69
rs114473062	linoleoylglycerol (18:2) levels	GCST90199684	4	32419463	T	C	8212	0.23	0.05	0.00	0.00	21.20
rs77982886	linoleoylglycerol (18:2) levels	GCST90199684	4	64106675	G	A	8212	0.32	0.06	0.00	0.00	24.87
rs10006032	linoleoylglycerol (18:2) levels	GCST90199684	4	159919833	G	A	8212	-0.15	0.03	0.00	0.00	20.67
rs10072491	linoleoylglycerol (18:2) levels	GCST90199684	5	4715384	T	C	8212	-0.18	0.04	0.00	0.00	20.88
rs62385039	linoleoylglycerol (18:2) levels	GCST90199684	6	895419	G	A	8212	-0.26	0.06	0.00	0.00	21.82
rs17410962	linoleoylglycerol (18:2) levels	GCST90199684	8	19990569	A	G	8212	-0.11	0.02	0.00	0.00	23.41
rs2943179	linoleoylglycerol (18:2) levels	GCST90199684	8	87113088	T	C	8212	-0.08	0.02	0.00	0.00	19.71
rs6475038	linoleoylglycerol (18:2) levels	GCST90199684	9	16346456	G	C	8212	-0.07	0.02	0.00	0.00	20.48
rs10735636	linoleoylglycerol (18:2) levels	GCST90199684	9	74877161	G	C	8212	0.27	0.06	0.00	0.00	19.56
rs117168942	linoleoylglycerol (18:2) levels	GCST90199684	10	21701387	C	T	8212	0.19	0.04	0.00	0.00	19.65
rs11033752	linoleoylglycerol (18:2) levels	GCST90199684	11	36708159	T	C	8212	-0.09	0.02	0.00	0.00	19.59
rs964184	linoleoylglycerol (18:2) levels	GCST90199684	11	116778201	C	G	8212	-0.12	0.02	0.00	0.00	25.88
rs56354314	linoleoylglycerol (18:2) levels	GCST90199684	12	106280157	A	G	8212	0.24	0.05	0.00	0.00	20.54
rs12858688	linoleoylglycerol (18:2) levels	GCST90199684	13	69782332	T	C	8212	-0.22	0.05	0.00	0.00	20.28
rs11160050	linoleoylglycerol (18:2) levels	GCST90199684	14	92187131	G	A	8212	0.13	0.03	0.00	0.00	20.18
rs12447287	linoleoylglycerol (18:2) levels	GCST90199684	16	56904086	C	T	8212	0.08	0.02	0.00	0.00	20.51
rs9894638	linoleoylglycerol (18:2) levels	GCST90199684	17	46835535	C	T	8212	0.09	0.02	0.00	0.00	19.87
rs17035713	linoleoylglycerol (18:2) levels	GCST90199685	1	10780848	G	A	6378	-0.18	0.04	0.00	0.00	20.27
rs77599553	linoleoylglycerol (18:2) levels	GCST90199685	1	114230144	A	T	6378	-0.27	0.06	0.00	0.00	21.74

rs113718400	2- linoleoylglycerol (18:2) levels	GCST90199685	1	241640505	A	C	6378	-0.28	0.06	0.00	0.00	19.57
rs952263	2- linoleoylglycerol (18:2) levels	GCST90199685	2	52595363	T	G	6378	0.10	0.02	0.00	0.00	21.08
rs55920120	2- linoleoylglycerol (18:2) levels	GCST90199685	2	71527599	A	C	6378	0.21	0.05	0.00	0.00	19.70
rs4972489	2- linoleoylglycerol (18:2) levels	GCST90199685	2	175869870	C	A	6378	0.11	0.02	0.00	0.00	25.75
rs11924632	2- linoleoylglycerol (18:2) levels	GCST90199685	3	8342446	G	A	6378	-0.08	0.02	0.00	0.00	19.59
rs73121585	2- linoleoylglycerol (18:2) levels	GCST90199685	3	78579458	A	C	6378	-0.29	0.06	0.00	0.00	19.51
rs141172381	2- linoleoylglycerol (18:2) levels	GCST90199685	3	155364642	A	G	6378	0.29	0.06	0.00	0.00	19.66
rs7643986	2- linoleoylglycerol (18:2) levels	GCST90199685	3	194026260	C	T	6378	0.24	0.05	0.00	0.00	21.87
rs12498693	2- linoleoylglycerol (18:2) levels	GCST90199685	4	21558733	A	C	6378	-0.14	0.03	0.00	0.00	20.88
rs72679893	2- linoleoylglycerol (18:2) levels	GCST90199685	4	99294430	T	C	6378	-0.14	0.03	0.00	0.00	19.86
rs190199861	2- linoleoylglycerol (18:2) levels	GCST90199685	4	127836164	G	A	6378	0.30	0.06	0.00	0.00	21.18
rs117372736	2- linoleoylglycerol (18:2) levels	GCST90199685	6	69477429	T	G	6378	0.35	0.08	0.00	0.00	20.49
rs4946146	2- linoleoylglycerol (18:2) levels	GCST90199685	6	116234813	T	C	6378	0.31	0.07	0.00	0.00	22.31
rs59927118	2- linoleoylglycerol (18:2) levels	GCST90199685	8	10927516	T	C	6378	0.10	0.02	0.00	0.00	21.22
rs34291068	2- linoleoylglycerol (18:2) levels	GCST90199685	10	33157079	A	C	6378	0.16	0.04	0.00	0.00	19.75
rs78575779	2- linoleoylglycerol (18:2) levels	GCST90199685	11	132983703	G	A	6378	-0.23	0.05	0.00	0.00	19.83
rs111764634	2- linoleoylglycerol (18:2) levels	GCST90199685	12	26030131	A	C	6378	0.16	0.03	0.00	0.00	21.83
rs189863837	2- linoleoylglycerol (18:2) levels	GCST90199685	12	129450796	A	G	6378	0.28	0.06	0.00	0.00	24.31
rs56327721	2- linoleoylglycerol (18:2) levels	GCST90199685	17	78409221	T	C	6378	-0.13	0.03	0.00	0.00	21.64
rs6081988	2- linoleoylglycerol (18:2) levels	GCST90199685	20	20401286	C	T	6378	0.13	0.03	0.00	0.00	19.81
rs11552067	2- linoleoylglycerol (18:2) levels	GCST90199685	21	44330365	A	G	6378	0.08	0.02	0.00	0.00	21.62
rs9432398	Indolepropionate levels	GCST90199686	1	94868430	G	A	8153	0.22	0.04	0.00	0.00	24.72
rs80346659	Indolepropionate levels	GCST90199686	1	190587579	C	G	8153	-0.22	0.05	0.00	0.00	20.75
rs6664713	Indolepropionate levels	GCST90199686	1	204382965	A	C	8153	0.22	0.05	0.00	0.00	19.79
rs1878503	Indolepropionate levels	GCST90199686	2	72024621	A	G	8153	0.07	0.02	0.00	0.00	19.89
rs11681248	Indolepropionate levels	GCST90199686	2	136062506	T	C	8153	-0.09	0.02	0.00	0.00	29.86

rs76260755	Indolepropionate levels	GCST90199686	3	2566507	T	C	8153	-0.11	0.03	0.00	0.00	19.56
rs9857968	Indolepropionate levels	GCST90199686	3	185638205	T	C	8153	0.15	0.03	0.00	0.00	20.25
rs76157950	Indolepropionate levels	GCST90199686	5	94928720	A	G	8153	0.26	0.06	0.00	0.00	20.54
rs853154	Indolepropionate levels	GCST90199686	5	143246483	C	G	8153	0.10	0.02	0.00	0.00	23.03
rs117276795	Indolepropionate levels	GCST90199686	10	72312216	A	G	8153	0.36	0.08	0.00	0.00	21.43
rs11822621	Indolepropionate levels	GCST90199686	11	109342489	T	G	8153	-0.12	0.03	0.00	0.00	20.69
rs497768	Indolepropionate levels	GCST90199686	11	117880025	G	C	8153	-0.07	0.02	0.00	0.00	21.36
rs9565718	Indolepropionate levels	GCST90199686	13	82019296	A	T	8153	-0.08	0.02	0.00	0.00	25.72
rs61974973	Indolepropionate levels	GCST90199686	14	33440005	G	A	8153	0.13	0.03	0.00	0.00	19.97
rs198260	Indolepropionate levels	GCST90199686	14	56714297	A	G	8153	0.23	0.05	0.00	0.00	22.03
rs8061485	Indolepropionate levels	GCST90199686	16	20463360	C	T	8153	-0.18	0.02	0.00	0.01	104.24
rs4316784	Indolepropionate levels	GCST90199686	16	74617721	C	T	8153	0.09	0.02	0.00	0.00	19.59
rs9981680	Indolepropionate levels	GCST90199686	21	32008646	G	T	8153	0.17	0.04	0.00	0.00	19.56
rs567440118	Threonate levels	GCST90199687	1	83001622	A	G	8151	-0.48	0.10	0.00	0.00	22.25
rs647667	Threonate levels	GCST90199687	1	181416933	C	T	8151	0.14	0.03	0.00	0.00	19.72
rs75194109	Threonate levels	GCST90199687	2	41679986	C	T	8151	-0.40	0.09	0.00	0.00	21.87
rs11126412	Threonate levels	GCST90199687	2	73660507	T	A	8151	0.08	0.02	0.00	0.00	19.81
rs4663135	Threonate levels	GCST90199687	2	234402679	C	T	8151	0.08	0.02	0.00	0.00	19.55
rs535146	Threonate levels	GCST90199687	3	6939905	A	T	8151	0.07	0.02	0.00	0.00	22.23
rs145376871	Threonate levels	GCST90199687	3	78448608	T	G	8151	-0.25	0.06	0.00	0.00	19.79
rs76954195	Threonate levels	GCST90199687	3	87879048	G	C	8151	0.21	0.05	0.00	0.00	20.08
rs78921993	Threonate levels	GCST90199687	4	7631167	G	A	8151	-0.13	0.03	0.00	0.00	19.73
rs184637108	Threonate levels	GCST90199687	4	87970891	T	A	8151	-0.38	0.09	0.00	0.00	19.63
rs139591016	Threonate levels	GCST90199687	4	98895019	C	T	8151	-0.24	0.05	0.00	0.00	20.54
rs73766900	Threonate levels	GCST90199687	5	67428058	A	G	8151	0.21	0.05	0.00	0.00	21.32
rs111498995	Threonate levels	GCST90199687	5	69524538	T	A	8151	0.28	0.06	0.00	0.00	21.76
rs62381620	Threonate levels	GCST90199687	5	139350290	G	T	8151	-0.29	0.04	0.00	0.01	44.23
rs61744140	Threonate levels	GCST90199687	5	141194505	G	T	8151	-2.87	0.56	0.00	0.00	26.00
rs80179348	Threonate levels	GCST90199687	6	92821947	T	A	8151	-0.32	0.07	0.00	0.00	22.77
rs149656965	Threonate levels	GCST90199687	6	169391708	T	C	8151	-0.32	0.07	0.00	0.00	21.18
rs78263978	Threonate levels	GCST90199687	7	16795578	A	G	8151	-0.23	0.05	0.00	0.00	22.27
rs2394872	Threonate levels	GCST90199687	7	98583433	C	A	8151	-0.12	0.03	0.00	0.00	21.40
rs77181656	Threonate levels	GCST90199687	8	11560832	T	C	8151	-0.32	0.07	0.00	0.00	22.74
rs76379749	Threonate levels	GCST90199687	8	16238488	C	T	8151	-0.23	0.05	0.00	0.00	19.61
rs7875568	Threonate levels	GCST90199687	9	127750741	G	T	8151	-0.26	0.05	0.00	0.00	21.85
rs72774956	Threonate levels	GCST90199687	10	2830418	A	G	8151	-0.24	0.05	0.00	0.00	20.08
rs826459	Threonate levels	GCST90199687	10	70646994	A	G	8151	0.08	0.02	0.00	0.00	20.24

rs74850022	Threonate levels	GCST90199687	12	94667490	T	C	8151	-0.31	0.07	0.00	0.00	19.84
rs7960425	Threonate levels	GCST90199687	12	118971939	C	G	8151	0.24	0.05	0.00	0.00	23.89
rs4783107	Threonate levels	GCST90199687	16	84962841	C	T	8151	-0.12	0.02	0.00	0.00	23.72
rs75446748	N-acetylglycine	GCST90199688	1	34909640	C	T	8250	-0.10	0.02	0.00	0.00	21.90
rs1890452	N-acetylglycine	GCST90199688	1	75726823	A	G	8250	-0.08	0.02	0.00	0.00	24.04
rs112816924	N-acetylglycine	GCST90199688	1	212158947	T	C	8250	0.28	0.06	0.00	0.00	20.52
rs16824802	N-acetylglycine	GCST90199688	2	145354897	T	C	8250	0.10	0.02	0.00	0.00	26.84
rs1047891	N-acetylglycine	GCST90199688	2	210675783	A	C	8250	0.38	0.02	0.00	0.07	586.80
rs62182612	N-acetylglycine	GCST90199688	2	212238489	A	G	8250	-0.08	0.02	0.00	0.00	20.03
rs77976040	N-acetylglycine	GCST90199688	3	66829559	C	A	8250	0.25	0.06	0.00	0.00	19.77
rs9821781	N-acetylglycine	GCST90199688	3	149644618	A	G	8250	0.08	0.02	0.00	0.00	29.31
rs358908	N-acetylglycine	GCST90199688	3	155687953	C	T	8250	-0.09	0.02	0.00	0.00	26.26
rs12233751	N-acetylglycine	GCST90199688	4	81933213	C	A	8250	-0.11	0.02	0.00	0.00	24.92
rs115090460	N-acetylglycine	GCST90199688	6	38257980	T	A	8250	-0.21	0.05	0.00	0.00	20.01
rs243795	N-acetylglycine	GCST90199688	6	54528751	C	T	8250	0.09	0.02	0.00	0.00	22.98
rs4947536	N-acetylglycine	GCST90199688	7	56111673	G	C	8250	-0.07	0.02	0.00	0.00	19.97
rs11136810	N-acetylglycine	GCST90199688	8	4954816	G	C	8250	0.07	0.02	0.00	0.00	22.34
rs76513761	N-acetylglycine	GCST90199688	8	135742865	C	T	8250	0.20	0.05	0.00	0.00	19.96
rs78612075	N-acetylglycine	GCST90199688	9	12854868	A	G	8250	0.27	0.06	0.00	0.00	20.19
rs10757444	N-acetylglycine	GCST90199688	9	23661372	A	G	8250	0.08	0.02	0.00	0.00	24.26
rs144831076	N-acetylglycine	GCST90199688	9	103329540	C	T	8250	-0.28	0.06	0.00	0.00	25.28
rs151202997	N-acetylglycine	GCST90199688	11	47595900	T	G	8250	0.19	0.04	0.00	0.00	20.56
rs596603	N-acetylglycine	GCST90199688	11	67592132	G	T	8250	-0.12	0.01	0.00	0.01	59.94
rs7127777	N-acetylglycine	GCST90199688	11	122218881	C	G	8250	-0.07	0.02	0.00	0.00	22.54
rs11108842	N-acetylglycine	GCST90199688	12	97145788	G	T	8250	-0.35	0.08	0.00	0.00	21.32
rs2329096	N-acetylglycine	GCST90199688	13	78475624	T	C	8250	0.07	0.02	0.00	0.00	19.92
rs141342711	N-acetylglycine	GCST90199688	16	20725063	T	C	8250	0.16	0.03	0.00	0.00	22.95
rs78829102	N-acetylglycine	GCST90199688	17	36687208	A	G	8250	0.19	0.04	0.00	0.00	21.91
rs117206739	N-acetylglycine	GCST90199688	18	45172745	T	C	8250	0.24	0.05	0.00	0.00	20.28
rs9614932	N-acetylglycine	GCST90199688	22	44786685	T	C	8250	-0.10	0.02	0.00	0.00	22.28
rs187970821	Glycolithocholate levels	GCST90199689	1	202289989	G	A	7158	-0.36	0.08	0.00	0.00	19.55
rs115887046	Glycolithocholate levels	GCST90199689	2	18065994	C	T	7158	-0.21	0.05	0.00	0.00	19.74
rs73918203	Glycolithocholate levels	GCST90199689	2	22872700	A	G	7158	-0.18	0.04	0.00	0.00	21.46
rs13405102	Glycolithocholate levels	GCST90199689	2	47022693	G	A	7158	0.08	0.02	0.00	0.00	20.70
rs79407744	Glycolithocholate levels	GCST90199689	2	76983307	A	G	7158	0.36	0.08	0.00	0.00	21.09
rs77376288	Glycolithocholate levels	GCST90199689	2	80717604	C	T	7158	0.42	0.09	0.00	0.00	23.82
rs113654354	Glycolithocholate levels	GCST90199689	2	198289969	G	A	7158	-0.24	0.05	0.00	0.00	19.62

rs55971662	Glycolithocholate levels	GCST90199689	2	240645537	T	C	7158	0.08	0.02	0.00	0.00	19.97
rs7646869	Glycolithocholate levels	GCST90199689	3	18611927	A	C	7158	-0.08	0.02	0.00	0.00	20.04
rs7629795	Glycolithocholate levels	GCST90199689	3	180870396	A	T	7158	0.11	0.02	0.00	0.00	19.99
rs6823721	Glycolithocholate levels	GCST90199689	4	121651899	T	C	7158	-0.08	0.02	0.00	0.00	21.17
rs6810998	Glycolithocholate levels	GCST90199689	4	139772114	T	C	7158	-0.15	0.03	0.00	0.00	26.05
rs138634970	Glycolithocholate levels	GCST90199689	5	14557386	T	C	7158	-0.33	0.07	0.00	0.00	20.25
rs146058026	Glycolithocholate levels	GCST90199689	6	37710361	G	C	7158	-0.35	0.08	0.00	0.00	21.05
rs12662646	Glycolithocholate levels	GCST90199689	6	105989266	A	G	7158	-0.17	0.03	0.00	0.00	22.73
rs11101389	Glycolithocholate levels	GCST90199689	10	48579492	A	T	7158	-0.09	0.02	0.00	0.00	23.23
rs11817632	Glycolithocholate levels	GCST90199689	10	107699656	A	G	7158	-0.27	0.06	0.00	0.00	20.17
rs182015775	Glycolithocholate levels	GCST90199689	11	37031811	A	G	7158	-0.13	0.03	0.00	0.00	24.28
rs118171449	Glycolithocholate levels	GCST90199689	11	39814174	T	C	7158	0.14	0.03	0.00	0.00	19.92
rs146355728	Glycolithocholate levels	GCST90199689	14	21042448	T	G	7158	-0.42	0.09	0.00	0.00	21.49
rs60850040	Glycolithocholate levels	GCST90199689	14	51299783	C	T	7158	-0.15	0.03	0.00	0.00	21.54
rs1818709	Glycolithocholate levels	GCST90199689	15	54502079	C	G	7158	-0.08	0.02	0.00	0.00	20.39
rs62052803	Glycolithocholate levels	GCST90199689	17	22189280	C	T	7158	-0.18	0.04	0.00	0.00	19.54
rs296366	Glycolithocholate levels	GCST90199689	19	47871281	C	T	7158	-0.09	0.02	0.00	0.00	23.52
rs16982178	Glycolithocholate levels	GCST90199689	22	26481497	A	G	7158	-0.11	0.02	0.00	0.00	22.09
rs116301309	EDTA levels	GCST90199690	1	205899302	A	C	8239	-0.32	0.07	0.00	0.00	21.95
rs9784059	EDTA levels	GCST90199690	2	53494172	T	C	8239	-0.15	0.03	0.00	0.00	20.82
rs2435388	EDTA levels	GCST90199690	2	136866289	G	A	8239	-0.08	0.02	0.00	0.00	21.39
rs11688483	EDTA levels	GCST90199690	2	152948430	G	A	8239	-0.08	0.02	0.00	0.00	21.23
rs73212280	EDTA levels	GCST90199690	3	195598495	G	A	8239	0.12	0.02	0.00	0.00	26.18
rs10512739	EDTA levels	GCST90199690	5	40431779	G	A	8239	-0.11	0.03	0.00	0.00	19.52
rs79242179	EDTA levels	GCST90199690	5	114110083	A	G	8239	-0.33	0.07	0.00	0.00	22.84
rs149452470	EDTA levels	GCST90199690	5	174912278	G	C	8239	0.27	0.06	0.00	0.00	21.17
rs7776366	EDTA levels	GCST90199690	6	161120087	C	T	8239	0.07	0.02	0.00	0.00	19.57
rs57900160	EDTA levels	GCST90199690	7	94356953	G	C	8239	-0.08	0.02	0.00	0.00	21.66
rs62577978	EDTA levels	GCST90199690	9	120507275	A	G	8239	-0.10	0.02	0.00	0.00	20.07
rs12831673	EDTA levels	GCST90199690	12	23205863	A	G	8239	0.16	0.03	0.00	0.00	22.77
rs117358502	EDTA levels	GCST90199690	14	35759681	A	G	8239	0.19	0.04	0.00	0.00	20.78
rs77657639	EDTA levels	GCST90199690	15	80590631	C	A	8239	0.12	0.03	0.00	0.00	19.92
rs34922061	EDTA levels	GCST90199690	15	81905474	A	C	8239	0.09	0.02	0.00	0.00	20.43
rs10459865	EDTA levels	GCST90199690	16	77083529	C	T	8239	0.11	0.02	0.00	0.00	20.05
rs183037566	EDTA levels	GCST90199690	22	35799865	A	G	8239	0.35	0.08	0.00	0.00	22.05
rs56407361	1-methylhistidine levels	GCST90199691	1	230901445	T	C	8226	0.14	0.03	0.00	0.00	20.92
rs140416084	1-methylhistidine levels	GCST90199691	1	246956201	A	G	8226	-0.12	0.02	0.00	0.00	25.78
rs149464341	1-methylhistidine levels	GCST90199691	2	81969769	T	G	8226	-0.37	0.08	0.00	0.00	20.66
rs4686501	1-methylhistidine levels	GCST90199691	3	189158048	G	A	8226	-0.12	0.03	0.00	0.00	20.36
rs546649	1-methylhistidine levels	GCST90199691	4	16723935	T	C	8226	-0.07	0.02	0.00	0.00	23.29

rs544646419	1-methylhistidine levels	GCST90199691	4	86135840	G	A	8226	-0.25	0.06	0.00	0.00	20.28
rs73864608	1-methylhistidine levels	GCST90199691	4	168685775	A	G	8226	-0.25	0.05	0.00	0.00	21.08
rs11133665	1-methylhistidine levels	GCST90199691	5	1188170	A	G	8226	0.16	0.02	0.00	0.01	89.82
rs79479138	1-methylhistidine levels	GCST90199691	5	1238873	T	C	8226	0.28	0.06	0.00	0.00	22.03
rs1990897	1-methylhistidine levels	GCST90199691	5	115192691	G	T	8226	0.08	0.02	0.00	0.00	23.89
rs80220760	1-methylhistidine levels	GCST90199691	6	15241783	G	A	8226	0.29	0.06	0.00	0.00	22.54
rs78654791	1-methylhistidine levels	GCST90199691	6	75129988	G	C	8226	0.21	0.05	0.00	0.00	19.96
rs7746774	1-methylhistidine levels	GCST90199691	6	139030342	G	A	8226	-0.11	0.02	0.00	0.00	25.48
rs10094039	1-methylhistidine levels	GCST90199691	8	129577430	G	A	8226	-0.07	0.02	0.00	0.00	20.13
rs2218687	1-methylhistidine levels	GCST90199691	9	103158134	A	G	8226	0.09	0.02	0.00	0.00	19.64
rs1903860	1-methylhistidine levels	GCST90199691	10	87860453	C	T	8226	-0.10	0.02	0.00	0.00	19.77
rs10886134	1-methylhistidine levels	GCST90199691	10	117779893	C	A	8226	0.07	0.02	0.00	0.00	19.80
rs61910449	1-methylhistidine levels	GCST90199691	11	96704082	T	C	8226	-0.18	0.04	0.00	0.00	20.41
rs111339300	1-methylhistidine levels	GCST90199691	12	101440638	A	G	8226	-0.12	0.02	0.00	0.00	25.16
rs73154072	1-methylhistidine levels	GCST90199691	13	26966935	G	A	8226	-0.27	0.06	0.00	0.00	20.90
rs9526057	1-methylhistidine levels	GCST90199691	13	45312323	A	G	8226	-0.08	0.02	0.00	0.00	22.66
rs1535573	1-methylhistidine levels	GCST90199691	14	57602334	G	A	8226	-0.08	0.02	0.00	0.00	20.80
rs7145174	1-methylhistidine levels	GCST90199691	14	70820051	A	G	8226	0.17	0.04	0.00	0.00	21.11
rs148226190	1-methylhistidine levels	GCST90199691	14	73457377	G	T	8226	-0.33	0.07	0.00	0.00	22.21
rs12901652	1-methylhistidine levels	GCST90199691	15	38508928	T	C	8226	0.16	0.03	0.00	0.00	19.95
rs1554410	1-methylhistidine levels	GCST90199691	15	56428517	G	T	8226	0.07	0.02	0.00	0.00	20.29
rs1670276	1-methylhistidine levels	GCST90199691	15	99073027	C	T	8226	0.11	0.02	0.00	0.00	23.69
rs35285898	1-methylhistidine levels	GCST90199691	17	39399619	C	A	8226	0.16	0.02	0.00	0.01	89.21
rs4043681	1-methylhistidine levels	GCST90199691	18	24087281	G	A	8226	0.13	0.03	0.00	0.00	24.96

rs6118747	1-methylhistidine levels	GCST90199691	20	9834021	G	A	8226	-0.09	0.02	0.00	0.00	25.13
rs35042303	1-methylhistidine levels	GCST90199691	20	52070514	T	C	8226	0.17	0.03	0.00	0.00	31.89
rs148357196	1-methylhistidine levels	GCST90199691	20	58290517	T	A	8226	0.35	0.08	0.00	0.00	19.94
rs188517032	Citramalate levels	GCST90199692	1	153753929	G	A	7125	0.27	0.06	0.00	0.00	19.90
rs12131960	Citramalate levels	GCST90199692	1	221267758	A	T	7125	0.08	0.02	0.00	0.00	20.03
rs13391525	Citramalate levels	GCST90199692	2	59226342	G	C	7125	-0.10	0.02	0.00	0.00	20.87
rs79981355	Citramalate levels	GCST90199692	2	78319900	C	T	7125	-0.12	0.03	0.00	0.00	21.85
rs62180249	Citramalate levels	GCST90199692	2	211596857	T	C	7125	0.09	0.02	0.00	0.00	23.67
rs11563055	Citramalate levels	GCST90199692	2	233996744	G	A	7125	-0.33	0.07	0.00	0.00	19.80
rs76762532	Citramalate levels	GCST90199692	4	96681142	T	G	7125	-0.21	0.05	0.00	0.00	21.22
rs72713558	Citramalate levels	GCST90199692	4	188410042	G	A	7125	-0.13	0.03	0.00	0.00	19.57
rs12055187	Citramalate levels	GCST90199692	5	16725923	A	G	7125	0.27	0.06	0.00	0.00	19.72
rs141073864	Citramalate levels	GCST90199692	5	150052701	C	T	7125	0.31	0.07	0.00	0.00	20.17
rs80028711	Citramalate levels	GCST90199692	5	173119322	G	A	7125	0.34	0.08	0.00	0.00	20.10
rs148830279	Citramalate levels	GCST90199692	6	48982240	T	C	7125	-0.44	0.10	0.00	0.00	20.32
rs2502543	Citramalate levels	GCST90199692	6	69767427	G	A	7125	-0.08	0.02	0.00	0.00	20.15
rs12211905	Citramalate levels	GCST90199692	6	73748110	G	T	7125	0.08	0.02	0.00	0.00	20.50
rs188983534	Citramalate levels	GCST90199692	6	103709194	A	G	7125	-0.16	0.03	0.00	0.00	21.19
rs17665117	Citramalate levels	GCST90199692	6	148905721	A	T	7125	0.13	0.03	0.00	0.00	19.58
rs116991170	Citramalate levels	GCST90199692	7	118935307	T	C	7125	0.27	0.06	0.00	0.00	21.41
rs1889899	Citramalate levels	GCST90199692	9	26789942	G	A	7125	0.09	0.02	0.00	0.00	27.77
rs76427286	Citramalate levels	GCST90199692	10	2677448	A	G	7125	-0.25	0.05	0.00	0.00	20.46
rs117013417	Citramalate levels	GCST90199692	10	7133489	T	C	7125	-0.34	0.08	0.00	0.00	19.90
rs1157094	Citramalate levels	GCST90199692	11	97304894	A	C	7125	-0.10	0.02	0.00	0.00	23.63
rs221084	Citramalate levels	GCST90199692	12	69484339	T	C	7125	0.11	0.02	0.00	0.00	21.12
rs41281112	Citramalate levels	GCST90199692	13	99866380	T	C	7125	-0.27	0.05	0.00	0.00	24.42
rs12900072	Citramalate levels	GCST90199692	15	75014807	A	G	7125	0.08	0.02	0.00	0.00	21.67
rs142847889	Citramalate levels	GCST90199692	17	34976593	G	C	7125	0.53	0.11	0.00	0.00	22.82
rs28415528	3-hydroxydecanoate levels	GCST90199693	1	151907285	A	G	8239	-0.21	0.02	0.00	0.02	171.50
rs299647	3-hydroxydecanoate levels	GCST90199693	3	12497739	C	T	8239	-0.09	0.02	0.00	0.00	21.50
rs6844622	3-hydroxydecanoate levels	GCST90199693	4	56743629	G	C	8239	-0.07	0.02	0.00	0.00	21.16
rs114537113	3-hydroxydecanoate levels	GCST90199693	5	9706991	T	C	8239	-0.33	0.07	0.00	0.00	21.46
rs80144245	3-hydroxydecanoate levels	GCST90199693	5	96792319	C	T	8239	-0.21	0.04	0.00	0.00	24.14

rs111528473	3-hydroxydecanoate levels	GCST90199693	6	37702057	A	G	8239	0.40	0.09	0.00	0.00	20.84
rs144727225	3-hydroxydecanoate levels	GCST90199693	8	82629961	T	C	8239	-0.23	0.05	0.00	0.00	20.84
rs488485	3-hydroxydecanoate levels	GCST90199693	11	116412455	C	T	8239	-0.09	0.02	0.00	0.00	19.98
rs11052064	3-hydroxydecanoate levels	GCST90199693	12	32548263	C	T	8239	0.15	0.03	0.00	0.00	19.79
rs9603710	3-hydroxydecanoate levels	GCST90199693	13	40254891	G	T	8239	-0.07	0.01	0.00	0.00	19.62
rs9530666	3-hydroxydecanoate levels	GCST90199693	13	77482029	C	A	8239	-0.07	0.02	0.00	0.00	20.49
rs59627096	3-hydroxydecanoate levels	GCST90199693	13	109665263	G	A	8239	-0.09	0.02	0.00	0.00	20.94
rs12453818	3-hydroxydecanoate levels	GCST90199693	17	8931278	G	A	8239	0.08	0.02	0.00	0.00	20.44
rs10445235	3-hydroxydecanoate levels	GCST90199693	17	74264155	T	C	8239	0.08	0.02	0.00	0.00	21.20
rs148758368	3-hydroxydecanoate levels	GCST90199693	20	22738936	T	A	8239	0.37	0.08	0.00	0.00	20.98
rs138045396	1,3-dimethylurate levels	GCST90199694	1	28561889	A	G	7444	0.20	0.04	0.00	0.00	19.74
rs10194878	1,3-dimethylurate levels	GCST90199694	2	138639888	C	T	7444	0.09	0.02	0.00	0.00	22.88
rs78121311	1,3-dimethylurate levels	GCST90199694	3	103812795	G	T	7444	-0.20	0.04	0.00	0.00	22.52
rs7699259	1,3-dimethylurate levels	GCST90199694	4	32221352	A	G	7444	0.08	0.02	0.00	0.00	23.48
rs6859899	1,3-dimethylurate levels	GCST90199694	5	58612645	G	A	7444	-0.10	0.02	0.00	0.00	21.23
rs1388107	1,3-dimethylurate levels	GCST90199694	5	119573311	T	G	7444	-0.11	0.02	0.00	0.00	20.03
rs72818634	1,3-dimethylurate levels	GCST90199694	5	179204735	A	G	7444	-0.11	0.02	0.00	0.00	20.45
rs35094757	1,3-dimethylurate levels	GCST90199694	7	73963515	G	A	7444	-0.31	0.07	0.00	0.00	19.80
rs57238734	1,3-dimethylurate levels	GCST90199694	9	7568135	C	A	7444	-0.32	0.07	0.00	0.00	19.85
rs72712651	1,3-dimethylurate levels	GCST90199694	9	26048982	C	T	7444	-0.22	0.05	0.00	0.00	20.10
rs7038710	1,3-dimethylurate levels	GCST90199694	9	107718105	G	A	7444	-0.28	0.05	0.00	0.00	26.64
rs7091698	1,3-dimethylurate levels	GCST90199694	10	14812506	A	G	7444	0.10	0.02	0.00	0.00	19.63
rs11599254	1,3-dimethylurate levels	GCST90199694	10	28929032	T	C	7444	0.13	0.03	0.00	0.00	19.74
rs72868316	1,3-dimethylurate levels	GCST90199694	10	133391165	A	G	7444	0.34	0.05	0.00	0.01	49.20

rs11101870	1,3-dimethylurate levels	GCST90199694	10	133589198	T	C	7444	-0.12	0.02	0.00	0.00	27.68
rs28452143	1,3-dimethylurate levels	GCST90199694	11	1194472	G	A	7444	0.08	0.02	0.00	0.00	20.71
rs143167061	1,3-dimethylurate levels	GCST90199694	11	13186904	T	C	7444	-0.27	0.06	0.00	0.00	19.83
rs11235978	1,3-dimethylurate levels	GCST90199694	11	74024780	A	G	7444	0.13	0.03	0.00	0.00	20.62
rs117238703	1,3-dimethylurate levels	GCST90199694	11	99642289	G	T	7444	-0.22	0.05	0.00	0.00	19.78
rs12855367	1,3-dimethylurate levels	GCST90199694	13	20173700	G	A	7444	0.12	0.02	0.00	0.00	21.57
rs1033930	1,3-dimethylurate levels	GCST90199694	13	29875471	T	G	7444	0.08	0.02	0.00	0.00	21.68
rs188985963	1,3-dimethylurate levels	GCST90199694	15	56704677	T	C	7444	0.51	0.11	0.00	0.00	22.45
rs78018441	1,3-dimethylurate levels	GCST90199694	16	6461406	A	G	7444	-0.16	0.03	0.00	0.00	22.80
rs226220	1,3-dimethylurate levels	GCST90199694	17	38874390	G	A	7444	0.13	0.03	0.00	0.00	24.96
rs143552547	1,3-dimethylurate levels	GCST90199694	18	34518968	A	G	7444	-0.18	0.04	0.00	0.00	20.23
rs205788	1,3-dimethylurate levels	GCST90199694	20	57794868	T	C	7444	-0.10	0.02	0.00	0.00	21.35
rs6701658	Galactonate levels	GCST90199695	1	99961422	G	A	7518	-0.16	0.03	0.00	0.00	21.14
rs144275620	Galactonate levels	GCST90199695	1	178039614	T	C	7518	0.35	0.08	0.00	0.00	20.09
rs1446585	Galactonate levels	GCST90199695	2	135649909	G	A	7518	-0.12	0.02	0.00	0.01	53.46
rs4668098	Galactonate levels	GCST90199695	2	168690200	G	A	7518	0.09	0.02	0.00	0.00	20.50
rs114843083	Galactonate levels	GCST90199695	3	55929641	A	C	7518	-0.28	0.06	0.00	0.00	21.36
rs78414202	Galactonate levels	GCST90199695	4	96102778	A	G	7518	-0.38	0.08	0.00	0.00	21.28
rs55947356	Galactonate levels	GCST90199695	7	156264075	A	G	7518	-0.53	0.11	0.00	0.00	23.32
rs144166724	Galactonate levels	GCST90199695	8	82053788	T	C	7518	-0.42	0.09	0.00	0.00	24.45
rs10965244	Galactonate levels	GCST90199695	9	22130390	T	A	7518	0.09	0.02	0.00	0.00	21.19
rs16956661	Galactonate levels	GCST90199695	15	72278241	C	G	7518	-0.16	0.03	0.00	0.00	28.21
rs118097128	Galactonate levels	GCST90199695	18	71217969	T	A	7518	-0.20	0.04	0.00	0.00	22.48
rs187521737	Galactonate levels	GCST90199695	19	3565143	A	G	7518	0.44	0.10	0.00	0.00	20.62
rs116885105	Galactonate levels	GCST90199695	19	4500213	A	T	7518	-0.22	0.05	0.00	0.00	22.17
rs75684329	Galactonate levels	GCST90199695	19	9404705	A	T	7518	-0.16	0.03	0.00	0.00	24.83
rs11668541	Galactonate levels	GCST90199695	19	20010644	A	G	7518	0.25	0.06	0.00	0.00	21.12
rs73136572	Galactonate levels	GCST90199695	20	63923460	C	T	7518	0.18	0.04	0.00	0.00	21.16
rs115558877	Trigonelline levels	GCST90199696	1	22251216	G	A	8272	0.28	0.06	0.00	0.00	21.79
rs114830966	Trigonelline levels	GCST90199696	1	74384420	A	G	8272	-0.38	0.08	0.00	0.00	23.84
rs1594297	Trigonelline levels	GCST90199696	2	16476976	A	G	8272	0.24	0.05	0.00	0.00	23.84

rs116020639	Trigonelline levels	GCST90199696	2	64880349	C	T	8272	-0.28	0.06	0.00	0.00	19.98
rs4848147	Trigonelline levels	GCST90199696	2	121197584	A	G	8272	-0.07	0.02	0.00	0.00	20.29
rs61419985	Trigonelline levels	GCST90199696	2	232984793	C	T	8272	-0.33	0.07	0.00	0.00	19.87
rs62246138	Trigonelline levels	GCST90199696	3	46412462	A	G	8272	-0.21	0.04	0.00	0.00	22.22
rs4856225	Trigonelline levels	GCST90199696	3	79930958	T	C	8272	0.09	0.02	0.00	0.00	20.55
rs1601568	Trigonelline levels	GCST90199696	3	131433569	T	A	8272	0.10	0.02	0.00	0.00	23.87
rs75972606	Trigonelline levels	GCST90199696	3	192328051	C	T	8272	0.21	0.05	0.00	0.00	20.20
rs115146351	Trigonelline levels	GCST90199696	4	121657784	A	G	8272	-0.15	0.03	0.00	0.00	20.15
rs75166338	Trigonelline levels	GCST90199696	4	125085932	G	A	8272	-0.33	0.07	0.00	0.00	20.70
rs3849062	Trigonelline levels	GCST90199696	5	126038191	G	A	8272	-0.08	0.02	0.00	0.00	20.75
rs6909263	Trigonelline levels	GCST90199696	6	1326892	A	G	8272	0.07	0.02	0.00	0.00	19.93
rs45603636	Trigonelline levels	GCST90199696	6	43623319	A	G	8272	-0.39	0.08	0.00	0.00	26.01
rs115151170	Trigonelline levels	GCST90199696	6	54906289	C	T	8272	-0.34	0.07	0.00	0.00	21.99
rs117187192	Trigonelline levels	GCST90199696	6	155825162	A	G	8272	-0.20	0.04	0.00	0.00	20.25
rs10088682	Trigonelline levels	GCST90199696	8	58287443	T	C	8272	0.07	0.02	0.00	0.00	20.00
rs73328382	Trigonelline levels	GCST90199696	10	99422751	A	C	8272	-0.47	0.10	0.00	0.00	21.69
rs117728044	Trigonelline levels	GCST90199696	13	39575423	G	A	8272	-0.26	0.06	0.00	0.00	20.72
rs345471	Trigonelline levels	GCST90199696	13	91758624	A	G	8272	-0.07	0.02	0.00	0.00	20.29
rs115520044	Trigonelline levels	GCST90199696	14	49488289	A	G	8272	0.30	0.06	0.00	0.00	24.07
rs77535466	Trigonelline levels	GCST90199696	15	93079228	C	A	8272	-0.29	0.06	0.00	0.00	22.17
rs118074685	Trigonelline levels	GCST90199696	17	35080621	C	T	8272	0.17	0.03	0.00	0.00	24.66
rs59603647	Trigonelline levels	GCST90199696	17	77623124	G	C	8272	0.10	0.02	0.00	0.00	20.72
rs1126743	Dodecanedioate levels	GCST90199697	1	46930301	A	G	8240	0.14	0.02	0.00	0.01	54.19
rs2351032	Dodecanedioate levels	GCST90199697	1	77423138	A	G	8240	-0.07	0.02	0.00	0.00	22.32
rs3123536	Dodecanedioate levels	GCST90199697	1	212636264	T	C	8240	0.13	0.02	0.00	0.00	26.44
rs6719212	Dodecanedioate levels	GCST90199697	2	53600047	A	G	8240	-0.07	0.01	0.00	0.00	19.96
rs80102840	Dodecanedioate levels	GCST90199697	3	30613380	A	G	8240	-0.27	0.06	0.00	0.00	22.02
rs13070262	Dodecanedioate levels	GCST90199697	3	54784197	T	C	8240	-0.08	0.02	0.00	0.00	19.95
rs73135319	Dodecanedioate levels	GCST90199697	4	46491749	T	C	8240	0.10	0.02	0.00	0.00	21.21
rs148536062	Dodecanedioate levels	GCST90199697	4	56465194	C	G	8240	-0.29	0.06	0.00	0.00	21.87
rs75648263	Dodecanedioate levels	GCST90199697	4	111550690	A	T	8240	-0.15	0.03	0.00	0.00	22.25
rs184688493	Dodecanedioate levels	GCST90199697	5	76715970	A	C	8240	0.18	0.04	0.00	0.00	25.33
rs114733295	Dodecanedioate levels	GCST90199697	6	56324014	T	G	8240	0.28	0.06	0.00	0.00	21.22
rs12662092	Dodecanedioate levels	GCST90199697	6	147991761	A	G	8240	0.10	0.02	0.00	0.00	22.13
rs6983258	Dodecanedioate levels	GCST90199697	8	121940855	G	T	8240	0.11	0.03	0.00	0.00	20.52
rs192475369	Dodecanedioate levels	GCST90199697	9	33552509	T	A	8240	0.27	0.06	0.00	0.00	21.97
rs55674412	Dodecanedioate levels	GCST90199697	9	130531579	T	A	8240	-0.14	0.03	0.00	0.00	20.46

rs7116407	Dodecanedioate levels	GCST90199697	11	32615368	T	C	8240	-0.17	0.04	0.00	0.00	19.58
rs35281705	Dodecanedioate levels	GCST90199697	11	97658406	A	G	8240	0.07	0.02	0.00	0.00	19.55
rs4149067	Dodecanedioate levels	GCST90199697	12	21200977	G	C	8240	0.08	0.02	0.00	0.00	19.57
rs146947505	Dodecanedioate levels	GCST90199697	12	117586522	A	G	8240	0.29	0.06	0.00	0.00	24.01
rs79949294	Dodecanedioate levels	GCST90199697	14	54089161	T	G	8240	-0.30	0.06	0.00	0.00	24.27
rs11070743	Dodecanedioate levels	GCST90199697	15	50058487	T	C	8240	0.07	0.02	0.00	0.00	22.22
rs8054168	Dodecanedioate levels	GCST90199697	16	83582178	A	C	8240	-0.07	0.02	0.00	0.00	20.81
rs34744504	Dodecanedioate levels	GCST90199697	18	40995214	G	T	8240	-0.08	0.02	0.00	0.00	27.23
rs185720945	Dodecanedioate levels	GCST90199697	20	39950331	C	A	8240	0.25	0.06	0.00	0.00	20.11
rs6024739	Dodecanedioate levels	GCST90199697	20	56264559	C	T	8240	-0.08	0.02	0.00	0.00	20.97
rs623898	Isobutyrylcarnitine (c4) levels	GCST90199698	1	181524905	G	A	8243	0.10	0.02	0.00	0.00	20.14
rs72754719	Isobutyrylcarnitine (c4) levels	GCST90199698	1	202995831	T	C	8243	0.38	0.08	0.00	0.00	21.74
rs75005157	Isobutyrylcarnitine (c4) levels	GCST90199698	2	20268182	G	A	8243	0.44	0.09	0.00	0.00	22.22
rs594855	Isobutyrylcarnitine (c4) levels	GCST90199698	3	109968106	G	A	8243	0.07	0.02	0.00	0.00	19.74
rs192049058	Isobutyrylcarnitine (c4) levels	GCST90199698	3	136723542	A	C	8243	-0.09	0.02	0.00	0.00	23.35
rs28504259	Isobutyrylcarnitine (c4) levels	GCST90199698	4	88314718	G	C	8243	0.11	0.02	0.00	0.01	42.11
rs72758669	Isobutyrylcarnitine (c4) levels	GCST90199698	5	43528755	C	G	8243	0.22	0.05	0.00	0.00	23.31
rs72778532	Isobutyrylcarnitine (c4) levels	GCST90199698	5	82287036	T	C	8243	0.14	0.03	0.00	0.00	22.31
rs191926926	Isobutyrylcarnitine (c4) levels	GCST90199698	5	89986641	T	C	8243	-0.26	0.06	0.00	0.00	22.39
rs17876025	Isobutyrylcarnitine (c4) levels	GCST90199698	5	177406285	G	A	8243	0.46	0.10	0.00	0.00	22.80
rs117599469	Isobutyrylcarnitine (c4) levels	GCST90199698	6	76033684	T	C	8243	0.46	0.10	0.00	0.00	20.20
rs1361218	Isobutyrylcarnitine (c4) levels	GCST90199698	6	154394978	A	G	8243	0.07	0.02	0.00	0.00	19.58
rs7759074	Isobutyrylcarnitine (c4) levels	GCST90199698	6	159867833	C	A	8243	-0.10	0.02	0.00	0.00	24.45
rs80254170	Isobutyrylcarnitine (c4) levels	GCST90199698	6	160093251	G	A	8243	-0.40	0.03	0.00	0.02	192.41
rs662138	Isobutyrylcarnitine (c4) levels	GCST90199698	6	160143444	G	C	8243	-0.43	0.02	0.00	0.05	464.52
rs2392361	Isobutyrylcarnitine (c4) levels	GCST90199698	7	35351600	A	G	8243	-0.08	0.02	0.00	0.00	20.32
rs74505345	Isobutyrylcarnitine (c4) levels	GCST90199698	7	158267569	T	C	8243	-0.18	0.04	0.00	0.00	19.77
rs73212370	Isobutyrylcarnitine (c4) levels	GCST90199698	8	13974211	T	G	8243	-0.15	0.03	0.00	0.00	21.40
rs10746936	Isobutyrylcarnitine (c4) levels	GCST90199698	9	74171381	T	C	8243	0.07	0.02	0.00	0.00	19.66
rs2938016	Isobutyrylcarnitine (c4) levels	GCST90199698	10	11315304	A	G	8243	-0.10	0.02	0.00	0.00	21.00
rs76370801	Isobutyrylcarnitine (c4) levels	GCST90199698	10	21531418	T	A	8243	0.14	0.03	0.00	0.00	22.19
rs1171616	Isobutyrylcarnitine (c4) levels	GCST90199698	10	59708831	T	G	8243	0.14	0.02	0.00	0.01	59.50
rs10999904	Isobutyrylcarnitine (c4) levels	GCST90199698	10	71591392	A	G	8243	-0.12	0.03	0.00	0.00	20.86
rs4076181	Isobutyrylcarnitine (c4) levels	GCST90199698	11	11560975	T	C	8243	0.09	0.02	0.00	0.00	22.70
rs7111570	Isobutyrylcarnitine (c4) levels	GCST90199698	11	134271204	T	C	8243	0.78	0.05	0.00	0.03	279.58
rs17419942	Isobutyrylcarnitine (c4) levels	GCST90199698	12	27866608	T	C	8243	-0.17	0.04	0.00	0.00	21.94
rs9600076	Isobutyrylcarnitine (c4) levels	GCST90199698	13	73148694	C	A	8243	0.20	0.04	0.00	0.00	19.82

rs137953078	Isobutyrylcarnitine (c4) levels	GCST90199698	13	73706473	C	T	8243	0.36	0.08	0.00	0.00	21.88
rs118057342	Isobutyrylcarnitine (c4) levels	GCST90199698	15	31405249	A	G	8243	-0.41	0.08	0.00	0.00	24.40
rs79495512	Isobutyrylcarnitine (c4) levels	GCST90199698	15	76199996	C	T	8243	0.14	0.03	0.00	0.00	26.42
rs138449764	Isobutyrylcarnitine (c4) levels	GCST90199698	16	6491089	G	T	8243	0.28	0.06	0.00	0.00	21.36
rs58452291	Isobutyrylcarnitine (c4) levels	GCST90199698	16	71516833	A	G	8243	-0.08	0.02	0.00	0.00	22.45
rs191504380	Isobutyrylcarnitine (c4) levels	GCST90199698	17	2553978	T	C	8243	-0.94	0.21	0.00	0.00	20.83
rs4350602	Isobutyrylcarnitine (c4) levels	GCST90199698	17	75359688	T	C	8243	0.10	0.02	0.00	0.00	34.36
rs79149266	3-methylxanthine levels	GCST90199699	1	11429183	T	A	8085	0.33	0.07	0.00	0.00	21.75
rs35757962	3-methylxanthine levels	GCST90199699	2	14434613	T	C	8085	-0.24	0.05	0.00	0.00	20.07
rs112705243	3-methylxanthine levels	GCST90199699	2	21483693	A	G	8085	0.38	0.08	0.00	0.00	23.04
rs186066346	3-methylxanthine levels	GCST90199699	2	61643705	A	C	8085	0.44	0.10	0.00	0.00	20.61
rs78453216	3-methylxanthine levels	GCST90199699	4	42176777	A	C	8085	0.08	0.02	0.00	0.00	19.70
rs182687982	3-methylxanthine levels	GCST90199699	4	116977565	T	C	8085	-0.48	0.11	0.00	0.00	19.65
rs1527707	3-methylxanthine levels	GCST90199699	6	46443371	A	G	8085	0.08	0.02	0.00	0.00	19.67
rs116892987	3-methylxanthine levels	GCST90199699	6	102527357	A	G	8085	-0.37	0.07	0.00	0.00	26.52
rs6569661	3-methylxanthine levels	GCST90199699	6	130185619	G	A	8085	-0.09	0.02	0.00	0.00	25.02
rs180747702	3-methylxanthine levels	GCST90199699	6	144118592	T	C	8085	-0.35	0.07	0.00	0.00	21.85
rs77910442	3-methylxanthine levels	GCST90199699	10	25422750	A	G	8085	-0.13	0.03	0.00	0.00	19.73
rs143087551	3-methylxanthine levels	GCST90199699	10	38516132	A	G	8085	-0.79	0.18	0.00	0.00	19.90
rs78937667	3-methylxanthine levels	GCST90199699	11	7329252	C	T	8085	-0.19	0.04	0.00	0.00	26.47
rs7940662	3-methylxanthine levels	GCST90199699	11	102237078	G	T	8085	-0.16	0.04	0.00	0.00	19.73
rs111796206	3-methylxanthine levels	GCST90199699	11	134147737	T	C	8085	-0.12	0.02	0.00	0.00	23.39
rs79654336	3-methylxanthine levels	GCST90199699	12	26170389	A	G	8085	-0.17	0.04	0.00	0.00	21.79
rs7485338	3-methylxanthine levels	GCST90199699	12	71346172	A	G	8085	-0.08	0.02	0.00	0.00	21.16
rs34180124	3-methylxanthine levels	GCST90199699	15	41908697	A	T	8085	-0.18	0.04	0.00	0.00	22.41
rs78785915	3-methylxanthine levels	GCST90199699	16	78772122	G	A	8085	-0.19	0.03	0.00	0.00	29.48
rs4510117	3-methylxanthine levels	GCST90199699	18	76705747	G	A	8085	-0.10	0.02	0.00	0.00	25.46

rs56113850	3-methylxanthine levels	GCST90199699	19	40847202	C	T	8085	0.10	0.02	0.00	0.01	43.62
rs114587740	3-methylxanthine levels	GCST90199699	19	53640557	C	A	8085	-0.12	0.03	0.00	0.00	20.15
rs4239694	3-methylxanthine levels	GCST90199699	20	36939427	G	T	8085	-0.08	0.02	0.00	0.00	21.17
rs12627283	3-methylxanthine levels	GCST90199699	21	38830424	A	G	8085	0.08	0.02	0.00	0.00	22.63
rs139776	3-methylxanthine levels	GCST90199699	22	24917479	T	C	8085	-0.08	0.02	0.00	0.00	22.57
rs142641102	3-methylxanthine levels	GCST90199699	22	45477253	A	C	8085	-0.36	0.08	0.00	0.00	20.17
rs10788817	3-hydroxylaurate levels	GCST90199700	1	151910380	G	C	8206	0.11	0.02	0.00	0.01	49.18
rs78085499	3-hydroxylaurate levels	GCST90199700	1	175877423	T	C	8206	-0.21	0.05	0.00	0.00	21.75
rs6795560	3-hydroxylaurate levels	GCST90199700	3	14791567	T	C	8206	-0.20	0.04	0.00	0.00	21.95
rs6844622	3-hydroxylaurate levels	GCST90199700	4	56743629	G	C	8206	-0.08	0.02	0.00	0.00	24.50
rs1500511	3-hydroxylaurate levels	GCST90199700	5	17378659	T	C	8206	-0.08	0.02	0.00	0.00	25.98
rs710362	3-hydroxylaurate levels	GCST90199700	5	87845250	G	A	8206	0.16	0.03	0.00	0.00	20.62
rs78283788	3-hydroxylaurate levels	GCST90199700	7	146860036	C	A	8206	0.30	0.06	0.00	0.00	22.26
rs117822743	3-hydroxylaurate levels	GCST90199700	7	158119914	T	C	8206	0.27	0.06	0.00	0.00	21.67
rs10134992	3-hydroxylaurate levels	GCST90199700	14	38017356	G	T	8206	-0.14	0.03	0.00	0.00	19.86
rs144872231	3-hydroxylaurate levels	GCST90199700	15	86859213	T	C	8206	-0.34	0.07	0.00	0.00	26.50
rs117212316	3-hydroxylaurate levels	GCST90199700	18	21565217	C	T	8206	-0.46	0.10	0.00	0.00	21.82
rs148758368	3-hydroxylaurate levels	GCST90199700	20	22738936	T	A	8206	0.37	0.08	0.00	0.00	20.50
rs780598	Pyridoxate levels	GCST90199701	1	4452045	A	G	8089	-0.11	0.02	0.00	0.00	22.46
rs72673300	Pyridoxate levels	GCST90199701	1	74395727	A	G	8089	0.15	0.03	0.00	0.00	19.83
rs114037693	Pyridoxate levels	GCST90199701	1	163511808	C	G	8089	0.41	0.09	0.00	0.00	19.53
rs147647394	Pyridoxate levels	GCST90199701	2	3246716	T	C	8089	0.24	0.05	0.00	0.00	20.11
rs62185065	Pyridoxate levels	GCST90199701	2	223718305	C	G	8089	0.07	0.02	0.00	0.00	21.08
rs148487090	Pyridoxate levels	GCST90199701	2	227749462	T	C	8089	0.11	0.02	0.00	0.00	20.05
rs140718044	Pyridoxate levels	GCST90199701	3	87530094	C	T	8089	0.57	0.12	0.00	0.00	23.26
rs12651574	Pyridoxate levels	GCST90199701	4	44264328	T	A	8089	0.09	0.02	0.00	0.00	22.49
rs35737522	Pyridoxate levels	GCST90199701	4	95547353	C	A	8089	0.08	0.02	0.00	0.00	19.98
rs186411642	Pyridoxate levels	GCST90199701	4	105740999	A	C	8089	0.57	0.12	0.00	0.00	22.79

rs537084084	Pyridoxate levels	GCST90199701	6	100185021	T	A	8089	0.37	0.08	0.00	0.00	21.57
rs61577547	Pyridoxate levels	GCST90199701	7	11785794	T	C	8089	0.24	0.05	0.00	0.00	24.48
rs147773070	Pyridoxate levels	GCST90199701	7	27411552	G	A	8089	0.28	0.06	0.00	0.00	22.83
rs7918084	Pyridoxate levels	GCST90199701	10	92669710	T	C	8089	0.07	0.02	0.00	0.00	21.59
rs10769857	Pyridoxate levels	GCST90199701	11	7959165	G	A	8089	-0.07	0.02	0.00	0.00	21.44
rs79879497	Pyridoxate levels	GCST90199701	11	95387605	C	T	8089	0.34	0.07	0.00	0.00	25.07
rs117284243	Pyridoxate levels	GCST90199701	11	123048271	T	A	8089	0.47	0.10	0.00	0.00	23.28
rs118132523	Pyridoxate levels	GCST90199701	12	66693901	T	G	8089	0.40	0.09	0.00	0.00	19.83
rs149053219	Pyridoxate levels	GCST90199701	13	34656395	A	G	8089	0.36	0.07	0.00	0.00	23.41
rs80089268	Pyridoxate levels	GCST90199701	13	65070456	T	C	8089	-0.18	0.04	0.00	0.00	20.34
rs75590589	Pyridoxate levels	GCST90199701	13	94159279	T	A	8089	-0.12	0.03	0.00	0.00	21.46
rs181087352	Pyridoxate levels	GCST90199701	14	48584341	A	T	8089	0.24	0.05	0.00	0.00	21.40
rs17129121	Pyridoxate levels	GCST90199701	14	93615273	T	C	8089	0.10	0.02	0.00	0.00	20.49
rs139624237	Pyridoxate levels	GCST90199701	17	63202284	A	G	8089	-0.25	0.05	0.00	0.00	21.86
rs522043	Pyridoxate levels	GCST90199701	18	79720478	A	G	8089	0.10	0.02	0.00	0.00	22.74
rs116680535-	Pyridoxate levels	GCST90199701	19	19691756	G	A	8089	0.08	0.02	0.00	0.00	24.18
rs1323009	hydroxyhexanoate levels	GCST90199702	1	188035902	A	G	7097	0.26	0.05	0.00	0.00	26.21
rs360435275-	hydroxyhexanoate levels	GCST90199702	2	12981020	C	T	7097	-0.09	0.02	0.00	0.00	24.21
rs2577620	hydroxyhexanoate levels	GCST90199702	2	108473496	G	A	7097	0.10	0.02	0.00	0.00	19.92
rs343212715-	hydroxyhexanoate levels	GCST90199702	2	121871958	T	C	7097	0.13	0.03	0.00	0.00	24.25
rs678168265-	hydroxyhexanoate levels	GCST90199702	3	181757516	T	C	7097	0.16	0.03	0.00	0.00	22.66
rs732321755-	hydroxyhexanoate levels	GCST90199702	4	41320349	G	A	7097	0.24	0.05	0.00	0.00	20.91
rs623642485-	hydroxyhexanoate levels	GCST90199702	5	84133232	C	T	7097	0.27	0.06	0.00	0.00	19.76
rs113394196	hydroxyhexanoate levels	GCST90199702	5	126577999	C	T	7097	0.13	0.03	0.00	0.00	19.86
rs1234128	hydroxyhexanoate levels	GCST90199702	6	46865231	G	A	7097	0.11	0.03	0.00	0.00	19.51
rs566247205	hydroxyhexanoate levels	GCST90199702	6	154529566	G	A	7097	0.46	0.10	0.00	0.00	19.60
rs289558	hydroxyhexanoate levels	GCST90199702	8	13390923	T	C	7097	-0.16	0.03	0.00	0.00	24.15
rs118149671	hydroxyhexanoate levels	GCST90199702	10	81565851	T	G	7097	-0.32	0.07	0.00	0.00	19.66
rs116845450	hydroxyhexanoate levels	GCST90199702	10	129004289	T	C	7097	-0.19	0.04	0.00	0.00	20.56
rs192540541	hydroxyhexanoate levels	GCST90199702	11	33419883	C	T	7097	0.22	0.05	0.00	0.00	21.01

rs10896072	5-hydroxyhexanoate levels	GCST90199702	11	65983146	G	C	7097	0.12	0.03	0.00	0.00	19.95
rs11219832	5-hydroxyhexanoate levels	GCST90199702	11	124897394	T	C	7097	0.16	0.04	0.00	0.00	20.47
rs7136437	5-hydroxyhexanoate levels	GCST90199702	12	25943988	A	G	7097	0.08	0.02	0.00	0.00	20.95
rs112156059	5-hydroxyhexanoate levels	GCST90199702	14	97621652	G	A	7097	0.27	0.06	0.00	0.00	21.38
rs74891946	5-hydroxyhexanoate levels	GCST90199702	16	71924122	G	C	7097	-0.13	0.03	0.00	0.00	21.82
rs148641172	5-hydroxyhexanoate levels	GCST90199702	18	12835479	A	G	7097	0.26	0.06	0.00	0.00	20.87
rs11663973	5-hydroxyhexanoate levels	GCST90199702	18	36539854	A	G	7097	-0.08	0.02	0.00	0.00	20.70
rs7248502	5-hydroxyhexanoate levels	GCST90199702	19	49396380	A	G	7097	-0.07	0.02	0.00	0.00	19.70
rs76683466	Gamma-glutamylvaline levels	GCST90199703	1	154747658	T	C	8179	-0.16	0.04	0.00	0.00	19.55
rs11264359	Gamma-glutamylvaline levels	GCST90199703	1	155313038	G	A	8179	0.08	0.02	0.00	0.00	19.83
rs78873744	Gamma-glutamylvaline levels	GCST90199703	1	183135970	A	G	8179	-0.23	0.05	0.00	0.00	21.73
rs3755840	Gamma-glutamylvaline levels	GCST90199703	4	5708742	C	T	8179	-0.14	0.03	0.00	0.00	23.50
rs12649558	Gamma-glutamylvaline levels	GCST90199703	4	180381064	G	A	8179	0.07	0.02	0.00	0.00	19.52
rs72737428	Gamma-glutamylvaline levels	GCST90199703	5	19532190	T	A	8179	0.20	0.05	0.00	0.00	19.86
rs274554	Gamma-glutamylvaline levels	GCST90199703	5	132389258	C	T	8179	-0.15	0.02	0.00	0.01	56.54
rs143145930	Gamma-glutamylvaline levels	GCST90199703	6	57136304	G	A	8179	-0.33	0.07	0.00	0.00	19.57
rs6930584	Gamma-glutamylvaline levels	GCST90199703	6	89973842	A	G	8179	0.09	0.02	0.00	0.00	21.17
rs190374566	Gamma-glutamylvaline levels	GCST90199703	7	132915956	A	T	8179	-0.12	0.03	0.00	0.00	21.09
rs62497379	Gamma-glutamylvaline levels	GCST90199703	8	12638477	A	G	8179	0.22	0.05	0.00	0.00	22.92
rs77864761	Gamma-glutamylvaline levels	GCST90199703	9	36573937	T	C	8179	-0.23	0.05	0.00	0.00	25.31
rs10982103	Gamma-glutamylvaline levels	GCST90199703	9	114209860	G	C	8179	-0.25	0.05	0.00	0.00	23.12
rs117014471	Gamma-glutamylvaline levels	GCST90199703	10	1098314	G	C	8179	-0.25	0.06	0.00	0.00	19.52
rs117535619	Gamma-glutamylvaline levels	GCST90199703	11	77499288	T	C	8179	-0.21	0.05	0.00	0.00	20.08
rs139358701	Gamma-glutamylvaline levels	GCST90199703	11	108850834	T	C	8179	-0.37	0.08	0.00	0.00	20.97

rs19009995 1	Gamma- glutamylvaline levels	GCST90199703	12	15809546	G	T	8179	0.26	0.06	0.00	0.00	21.57
rs34345842	Gamma- glutamylvaline levels	GCST90199703	12	50163022	T	C	8179	0.18	0.04	0.00	0.00	20.40
rs78981419	Gamma- glutamylvaline levels	GCST90199703	12	72642415	G	A	8179	-0.27	0.06	0.00	0.00	21.25
rs34111586	Gamma- glutamylvaline levels	GCST90199703	14	44646574	C	T	8179	-0.10	0.02	0.00	0.00	20.84
rs77943558	Gamma- glutamylvaline levels	GCST90199703	14	75772296	T	C	8179	0.38	0.08	0.00	0.00	21.02
rs20067955 2	Gamma- glutamylvaline levels	GCST90199703	15	24800374	A	T	8179	-2.14	0.39	0.00	0.00	29.84
rs8051286	Gamma- glutamylvaline levels	GCST90199703	16	52515759	A	G	8179	-0.10	0.02	0.00	0.00	24.05
rs11171308 5	Gamma- glutamylvaline levels	GCST90199703	17	15379436	G	A	8179	-0.18	0.04	0.00	0.00	20.31
rs12326933	Gamma- glutamylvaline levels	GCST90199703	18	25106241	T	C	8179	0.07	0.02	0.00	0.00	20.03
rs60482625	Gamma- glutamylvaline levels	GCST90199703	19	1783028	C	T	8179	0.17	0.04	0.00	0.00	22.12
rs9710247	Gamma- glutamylvaline levels	GCST90199703	19	40254542	G	A	8179	0.07	0.02	0.00	0.00	21.71
rs2169784	Gamma- glutamylvaline levels	GCST90199703	19	53386907	G	C	8179	0.08	0.02	0.00	0.00	23.18
rs4471995	Gamma- glutamylvaline levels	GCST90199703	22	24654365	T	G	8179	0.14	0.03	0.00	0.00	20.02
rs3009980	3- hydroxysebacate levels	GCST90199704	1	45233912	G	A	7325	-0.08	0.02	0.00	0.00	20.16
rs1126742	3- hydroxysebacate levels	GCST90199704	1	46932824	G	A	7325	-0.25	0.02	0.00	0.01	110.65
rs6668000	3- hydroxysebacate levels	GCST90199704	1	110464247	A	G	7325	0.08	0.02	0.00	0.00	21.63
rs7542137	3- hydroxysebacate levels	GCST90199704	1	151896416	T	C	7325	0.10	0.02	0.00	0.01	40.91
rs75995468	3- hydroxysebacate levels	GCST90199704	3	13281529	T	C	7325	0.11	0.02	0.00	0.00	23.92
rs1153602	3- hydroxysebacate levels	GCST90199704	3	25529661	A	T	7325	-0.08	0.02	0.00	0.00	23.60
rs18585392 5	3- hydroxysebacate levels	GCST90199704	4	156651330	T	C	7325	0.32	0.07	0.00	0.00	22.15
rs10028378	3- hydroxysebacate levels	GCST90199704	4	163861080	G	T	7325	0.10	0.02	0.00	0.00	21.54
rs79795772	3- hydroxysebacate levels	GCST90199704	5	96753823	A	G	7325	-0.19	0.04	0.00	0.00	21.74
rs62384970	3- hydroxysebacate levels	GCST90199704	5	158481569	C	T	7325	0.16	0.04	0.00	0.00	19.97
rs72817577	3- hydroxysebacate levels	GCST90199704	5	165160204	T	C	7325	-0.24	0.05	0.00	0.00	24.59

rs73213447	3-hydroxysebacte levels	GCST90199704	7	120166325	G	A	7325	-0.40	0.09	0.00	0.00	20.54
rs117724688	3-hydroxysebacte levels	GCST90199704	8	129334868	C	T	7325	-0.29	0.06	0.00	0.00	20.10
rs75538425	3-hydroxysebacte levels	GCST90199704	9	120917062	A	G	7325	-0.24	0.05	0.00	0.00	20.38
rs61875118	3-hydroxysebacte levels	GCST90199704	10	112990477	C	T	7325	0.09	0.02	0.00	0.00	20.79
rs77899273	3-hydroxysebacte levels	GCST90199704	12	56759356	C	T	7325	0.14	0.03	0.00	0.00	20.80
rs150942244	3-hydroxysebacte levels	GCST90199704	12	128293491	T	C	7325	0.27	0.06	0.00	0.00	22.10
rs184542354	3-hydroxysebacte levels	GCST90199704	13	87334320	A	G	7325	0.38	0.08	0.00	0.00	19.76
rs78813940	3-hydroxysebacte levels	GCST90199704	15	53834097	T	C	7325	0.56	0.13	0.00	0.00	20.07
rs113017771	3-hydroxysebacte levels	GCST90199704	19	1719642	C	G	7325	0.39	0.08	0.00	0.00	24.17
rs2837077	3-hydroxysebacte levels	GCST90199704	21	39564222	T	C	7325	0.08	0.02	0.00	0.00	23.74
rs79939937	Propionylglycine levels	GCST90199705	1	167438834	C	G	7311	0.26	0.06	0.00	0.00	21.04
rs113113237	Propionylglycine levels	GCST90199705	1	169228505	A	G	7311	0.16	0.03	0.00	0.00	24.89
rs72850271	Propionylglycine levels	GCST90199705	2	129135119	T	C	7311	0.22	0.05	0.00	0.00	21.73
rs1047891	Propionylglycine levels	GCST90199705	2	210675783	A	C	7311	0.36	0.02	0.00	0.06	430.97
rs116354475	Propionylglycine levels	GCST90199705	3	65313637	A	T	7311	-0.15	0.03	0.00	0.00	19.98
rs62395189	Propionylglycine levels	GCST90199705	5	179511106	C	T	7311	-0.10	0.02	0.00	0.00	21.59
rs1761768	Propionylglycine levels	GCST90199705	6	43712725	A	G	7311	0.08	0.02	0.00	0.00	20.78
rs117262899	Propionylglycine levels	GCST90199705	7	1791994	C	T	7311	-0.35	0.08	0.00	0.00	21.57
rs10271639	Propionylglycine levels	GCST90199705	7	19739981	A	G	7311	0.11	0.02	0.00	0.00	19.55
rs2297442	Propionylglycine levels	GCST90199705	9	6540540	C	T	7311	-0.10	0.02	0.00	0.00	30.23
rs34312136	Propionylglycine levels	GCST90199705	9	134377610	C	T	7311	-0.08	0.02	0.00	0.00	21.72
rs144151801	Propionylglycine levels	GCST90199705	10	119380638	C	T	7311	-0.40	0.08	0.00	0.00	23.25
rs568861	Propionylglycine levels	GCST90199705	11	58704390	C	T	7311	0.33	0.07	0.00	0.00	21.17
rs60774377	Propionylglycine levels	GCST90199705	11	67614755	C	T	7311	0.12	0.02	0.00	0.01	50.28
rs139058708	Propionylglycine levels	GCST90199705	12	4181643	A	G	7311	0.34	0.07	0.00	0.00	21.15
rs71452677	Propionylglycine levels	GCST90199705	12	118827288	T	C	7311	0.21	0.05	0.00	0.00	19.70
rs183900347	Propionylglycine levels	GCST90199705	13	100223843	G	A	7311	0.41	0.08	0.00	0.00	24.31
rs17738836	Propionylglycine levels	GCST90199705	15	87299466	A	T	7311	0.11	0.02	0.00	0.00	20.20
rs149451223	Propionylglycine levels	GCST90199705	16	8785345	A	G	7311	-0.14	0.03	0.00	0.00	21.17
rs35279025	Propionylglycine levels	GCST90199705	16	83439627	C	T	7311	-0.15	0.03	0.00	0.00	20.81
rs10502723	Propionylglycine levels	GCST90199705	18	39318408	C	A	7311	-0.11	0.02	0.00	0.00	24.81
rs140429917	Propionylglycine levels	GCST90199705	22	45055171	C	A	7311	0.24	0.05	0.00	0.00	20.61

rs7589705	Butyrylglycine levels	GCST90199706	2	50868364	G	T	6044	-0.21	0.04	0.00	0.00	22.72
rs275159	Butyrylglycine levels	GCST90199706	2	145209523	C	T	6044	-0.69	0.15	0.00	0.00	20.01
rs6752046	Butyrylglycine levels	GCST90199706	2	150538326	G	A	6044	-0.09	0.02	0.00	0.00	21.61
rs1047891	Butyrylglycine levels	GCST90199706	2	210675783	A	C	6044	0.30	0.02	0.00	0.04	243.39
rs11649419 6	Butyrylglycine levels	GCST90199706	3	7457853	G	A	6044	-0.32	0.07	0.00	0.00	20.57
rs10511029	Butyrylglycine levels	GCST90199706	3	73853349	C	A	6044	-0.13	0.03	0.00	0.00	19.87
rs973080	Butyrylglycine levels	GCST90199706	5	32749318	T	A	6044	-0.10	0.02	0.00	0.00	23.77
rs18929035 0	Butyrylglycine levels	GCST90199706	5	76580207	T	C	6044	0.31	0.06	0.00	0.00	26.16
rs11338646 9	Butyrylglycine levels	GCST90199706	5	118478632	T	C	6044	0.31	0.07	0.00	0.00	20.44
rs19963349 5	Butyrylglycine levels	GCST90199706	6	81683879	A	T	6044	0.18	0.04	0.00	0.00	20.26
rs14791522 7	Butyrylglycine levels	GCST90199706	7	44545029	A	G	6044	-0.39	0.08	0.00	0.00	22.66
rs2297442	Butyrylglycine levels	GCST90199706	9	6540540	C	T	6044	-0.09	0.02	0.00	0.00	20.84
rs78912274	Butyrylglycine levels	GCST90199706	9	11274294	G	A	6044	-0.19	0.04	0.00	0.00	20.36
rs11741359 0	Butyrylglycine levels	GCST90199706	9	22148568	A	G	6044	-0.51	0.10	0.00	0.00	25.43
rs10114702	Butyrylglycine levels	GCST90199706	9	36262123	T	C	6044	-0.08	0.02	0.00	0.00	20.00
rs56312428 2	Butyrylglycine levels	GCST90199706	9	122627393	T	A	6044	-0.40	0.09	0.00	0.00	19.60
rs10791908	Butyrylglycine levels	GCST90199706	11	67625342	C	T	6044	-0.09	0.02	0.00	0.00	27.01
rs2014355	Butyrylglycine levels	GCST90199706	12	120737721	C	T	6044	0.56	0.02	0.00	0.13	921.94
rs10774580	Butyrylglycine levels	GCST90199706	12	121038620	G	A	6044	-0.10	0.02	0.00	0.01	31.46
rs12929740	Butyrylglycine levels	GCST90199706	16	8490729	T	C	6044	0.21	0.04	0.00	0.00	23.49
rs11737977 5	Butyrylglycine levels	GCST90199706	18	62234378	T	C	6044	0.19	0.04	0.00	0.00	20.73
rs14445366 2	Butyrylglycine levels	GCST90199706	21	24695366	A	G	6044	-0.37	0.08	0.00	0.00	20.06
rs35220549	Butyrylglycine levels	GCST90199706	22	49666168	G	A	6044	0.15	0.03	0.00	0.00	21.88
rs11205923	Pro-hydroxy-pro levels	GCST90199707	1	52078302	T	C	8208	0.16	0.03	0.00	0.00	20.51
rs60037927	Pro-hydroxy-pro levels	GCST90199707	1	77171394	A	G	8208	-0.13	0.03	0.00	0.00	21.93
rs7519829	Pro-hydroxy-pro levels	GCST90199707	1	109777868	A	G	8208	-0.09	0.02	0.00	0.00	21.10
rs12093576	Pro-hydroxy-pro levels	GCST90199707	1	243492595	T	C	8208	0.07	0.02	0.00	0.00	21.91
rs2582975	Pro-hydroxy-pro levels	GCST90199707	2	103965828	A	T	8208	-0.11	0.03	0.00	0.00	19.54
rs1833216	Pro-hydroxy-pro levels	GCST90199707	2	206221424	C	T	8208	0.07	0.02	0.00	0.00	20.27
rs16851395	Pro-hydroxy-pro levels	GCST90199707	3	105654364	C	T	8208	0.33	0.07	0.00	0.00	22.15
rs14717763 1	Pro-hydroxy-pro levels	GCST90199707	4	82478785	A	G	8208	-0.28	0.06	0.00	0.00	20.48
rs62316592	Pro-hydroxy-pro levels	GCST90199707	4	137090518	C	A	8208	0.24	0.04	0.00	0.00	30.06
rs6887345	Pro-hydroxy-pro levels	GCST90199707	5	39572267	G	T	8208	0.07	0.02	0.00	0.00	20.47
rs10515706	Pro-hydroxy-pro levels	GCST90199707	5	154198958	T	C	8208	0.07	0.02	0.00	0.00	19.91
rs14505296 0	Pro-hydroxy-pro levels	GCST90199707	6	64767634	T	A	8208	0.42	0.09	0.00	0.00	20.49
rs9480064	Pro-hydroxy-pro levels	GCST90199707	6	155131254	T	G	8208	0.07	0.02	0.00	0.00	21.29
rs2583825	Pro-hydroxy-pro levels	GCST90199707	6	165109962	C	T	8208	-0.07	0.02	0.00	0.00	20.72

rs191591122	Pro-hydroxy-pro levels	GCST90199707	7	127691652	T	G	8208	0.18	0.04	0.00	0.00	20.82
rs10096113	Pro-hydroxy-pro levels	GCST90199707	8	14954793	C	T	8208	0.09	0.02	0.00	0.00	24.50
rs143638473	Pro-hydroxy-pro levels	GCST90199707	8	38696417	G	A	8208	-0.36	0.08	0.00	0.00	22.58
rs111891663	Pro-hydroxy-pro levels	GCST90199707	8	69629234	A	G	8208	-0.14	0.03	0.00	0.00	20.95
rs12553678	Pro-hydroxy-pro levels	GCST90199707	9	2599517	T	A	8208	0.11	0.03	0.00	0.00	19.79
rs1868000	Pro-hydroxy-pro levels	GCST90199707	10	71587355	G	A	8208	0.10	0.02	0.00	0.00	21.65
rs141240026	Pro-hydroxy-pro levels	GCST90199707	10	103843950	A	C	8208	0.35	0.07	0.00	0.00	23.51
rs687448	Pro-hydroxy-pro levels	GCST90199707	12	3140340	G	C	8208	-0.07	0.02	0.00	0.00	21.27
rs1543169	Pro-hydroxy-pro levels	GCST90199707	12	83123351	G	A	8208	-0.07	0.02	0.00	0.00	19.92
rs9531672	Pro-hydroxy-pro levels	GCST90199707	13	84917329	T	C	8208	0.10	0.02	0.00	0.00	21.91
rs11156811	Pro-hydroxy-pro levels	GCST90199707	14	33698325	T	A	8208	0.15	0.03	0.00	0.00	19.70
rs11259907	Pro-hydroxy-pro levels	GCST90199707	15	83326686	G	A	8208	0.07	0.02	0.00	0.00	19.90
rs10852553	Pro-hydroxy-pro levels	GCST90199707	16	56791754	A	G	8208	-0.10	0.02	0.00	0.00	22.04
rs116851649	Pro-hydroxy-pro levels	GCST90199707	19	42942702	C	T	8208	0.13	0.03	0.00	0.00	26.61
rs6085145	Pro-hydroxy-pro levels	GCST90199707	20	5399345	A	G	8208	0.08	0.02	0.00	0.00	20.96
rs11912766	Pro-hydroxy-pro levels	GCST90199707	22	26147122	A	G	8208	-3.27	0.69	0.00	0.00	22.27
rs61777299	Propionylcarnitine (c3) levels	GCST90199708	1	23623188	C	A	8273	-0.07	0.02	0.00	0.00	20.21
rs74586727	Propionylcarnitine (c3) levels	GCST90199708	2	215355689	T	G	8273	0.23	0.05	0.00	0.00	21.42
rs138150612	Propionylcarnitine (c3) levels	GCST90199708	3	44093997	T	C	8273	0.47	0.10	0.00	0.00	20.31
rs41271129	Propionylcarnitine (c3) levels	GCST90199708	5	82276055	C	A	8273	0.13	0.03	0.00	0.00	20.35
rs272863	Propionylcarnitine (c3) levels	GCST90199708	5	132347959	A	G	8273	-0.14	0.02	0.00	0.01	88.81
rs77010315	Propionylcarnitine (c3) levels	GCST90199708	5	151343594	A	C	8273	-0.32	0.07	0.00	0.00	22.31
rs9405575	Propionylcarnitine (c3) levels	GCST90199708	6	2668638	T	C	8273	-0.09	0.02	0.00	0.00	20.26
rs34536959	Propionylcarnitine (c3) levels	GCST90199708	6	18418658	A	G	8273	0.16	0.04	0.00	0.00	19.64
rs113625841	Propionylcarnitine (c3) levels	GCST90199708	6	112070019	A	G	8273	0.08	0.02	0.00	0.00	21.30
rs80254170	Propionylcarnitine (c3) levels	GCST90199708	6	160093251	G	A	8273	-0.15	0.03	0.00	0.00	29.77
rs662138	Propionylcarnitine (c3) levels	GCST90199708	6	160143444	G	C	8273	-0.16	0.02	0.00	0.01	70.99
rs2155483	Propionylcarnitine (c3) levels	GCST90199708	6	161861134	T	C	8273	-0.07	0.02	0.00	0.00	19.84
rs1285961	Propionylcarnitine (c3) levels	GCST90199708	7	141881525	T	G	8273	0.07	0.02	0.00	0.00	20.31
rs4363195	Propionylcarnitine (c3) levels	GCST90199708	8	13298748	C	T	8273	0.07	0.02	0.00	0.00	22.79
rs80329585	Propionylcarnitine (c3) levels	GCST90199708	8	33912188	C	A	8273	-0.32	0.07	0.00	0.00	19.83
rs139859957	Propionylcarnitine (c3) levels	GCST90199708	8	47154486	G	A	8273	0.37	0.08	0.00	0.00	21.87
rs1171617	Propionylcarnitine (c3) levels	GCST90199708	10	59707424	T	G	8273	0.25	0.02	0.00	0.02	193.54
rs117762677	Propionylcarnitine (c3) levels	GCST90199708	12	97348121	T	C	8273	0.19	0.04	0.00	0.00	20.59
rs11067600	Propionylcarnitine (c3) levels	GCST90199708	12	115439972	C	T	8273	-0.26	0.06	0.00	0.00	21.44
rs149413352	Propionylcarnitine (c3) levels	GCST90199708	13	100478057	A	C	8273	0.69	0.07	0.00	0.01	90.59
rs4777434	Propionylcarnitine (c3) levels	GCST90199708	15	71667795	T	G	8273	-0.20	0.05	0.00	0.00	19.63

rs59871056	Propionylcarnitine (c3) levels	GCST90199708	17	46761320	T	G	8273	0.26	0.06	0.00	0.00	21.25
rs140119231	Propionylcarnitine (c3) levels	GCST90199708	17	72769129	C	T	8273	-0.38	0.08	0.00	0.00	20.02
rs78802404	Propionylcarnitine (c3) levels	GCST90199708	21	41817942	A	T	8273	0.33	0.07	0.00	0.00	25.26
rs142156573	Adrenate (22:4n6) levels	GCST90199709	1	8849188	C	A	8279	-0.31	0.06	0.00	0.00	23.44
rs4657374	Adrenate (22:4n6) levels	GCST90199709	1	164791381	T	A	8279	0.08	0.02	0.00	0.00	22.21
rs56214525	Adrenate (22:4n6) levels	GCST90199709	1	206023974	C	G	8279	-0.40	0.09	0.00	0.00	20.34
rs12491225	Adrenate (22:4n6) levels	GCST90199709	3	46706963	A	G	8279	0.07	0.02	0.00	0.00	19.96
rs113384879	Adrenate (22:4n6) levels	GCST90199709	4	4788689	A	G	8279	-0.20	0.05	0.00	0.00	20.17
rs11735283	Adrenate (22:4n6) levels	GCST90199709	4	48030694	C	T	8279	0.09	0.02	0.00	0.00	20.02
rs116530753	Adrenate (22:4n6) levels	GCST90199709	4	156785921	A	G	8279	-0.16	0.04	0.00	0.00	20.60
rs183113456	Adrenate (22:4n6) levels	GCST90199709	4	171863761	T	C	8279	-0.33	0.07	0.00	0.00	19.71
rs7694943	Adrenate (22:4n6) levels	GCST90199709	4	188106189	A	T	8279	-0.08	0.02	0.00	0.00	19.73
rs77207094	Adrenate (22:4n6) levels	GCST90199709	5	11520799	C	T	8279	-0.25	0.06	0.00	0.00	19.62
rs1418573	Adrenate (22:4n6) levels	GCST90199709	6	51486330	G	A	8279	0.08	0.02	0.00	0.00	21.98
rs75198642	Adrenate (22:4n6) levels	GCST90199709	7	89354866	T	G	8279	-0.14	0.03	0.00	0.00	25.41
rs117756469	Adrenate (22:4n6) levels	GCST90199709	8	38084362	T	C	8279	0.23	0.05	0.00	0.00	22.26
rs174546	Adrenate (22:4n6) levels	GCST90199709	11	61802358	T	C	8279	-0.18	0.02	0.00	0.02	130.74
rs55875221	Adrenate (22:4n6) levels	GCST90199709	11	97649939	G	A	8279	0.08	0.02	0.00	0.00	22.24
rs79507970	Adrenate (22:4n6) levels	GCST90199709	12	24993537	C	G	8279	0.25	0.05	0.00	0.00	20.59
rs12431272	Adrenate (22:4n6) levels	GCST90199709	13	31391571	G	A	8279	0.17	0.04	0.00	0.00	19.87
rs117647504	Adrenate (22:4n6) levels	GCST90199709	15	39489740	G	A	8279	-1.44	0.33	0.00	0.00	19.51
rs111550309	Adrenate (22:4n6) levels	GCST90199709	15	53368967	A	C	8279	0.23	0.05	0.00	0.00	20.46
rs9807638	Adrenate (22:4n6) levels	GCST90199709	18	59939466	G	A	8279	0.08	0.02	0.00	0.00	22.17
rs118125312	Adrenate (22:4n6) levels	GCST90199709	18	67385308	A	G	8279	0.35	0.07	0.00	0.00	23.61
rs147004933	Adrenate (22:4n6) levels	GCST90199709	20	18018930	T	G	8279	0.35	0.08	0.00	0.00	21.20
rs131291	Adrenate (22:4n6) levels	GCST90199709	22	29773447	A	G	8279	-0.08	0.02	0.00	0.00	20.03
rs12628438	Adrenate (22:4n6) levels	GCST90199709	22	49609657	C	G	8279	-0.09	0.02	0.00	0.00	19.75
rs115021433	Docosatrienoate (22:3n3) levels	GCST90199710	1	5036999	C	A	6511	0.23	0.05	0.00	0.00	20.44
rs12737465	Docosatrienoate (22:3n3) levels	GCST90199710	1	164774541	A	G	6511	0.09	0.02	0.00	0.00	23.42
rs149314501	Docosatrienoate (22:3n3) levels	GCST90199710	2	28957762	C	T	6511	-0.41	0.08	0.00	0.00	23.03
rs17821152	Docosatrienoate (22:3n3) levels	GCST90199710	2	108290039	G	A	6511	-0.08	0.02	0.00	0.00	21.80
rs34156842	Docosatrienoate (22:3n3) levels	GCST90199710	2	211712539	G	T	6511	-0.10	0.02	0.00	0.00	20.72
rs56281468	Docosatrienoate (22:3n3) levels	GCST90199710	3	13262919	C	G	6511	0.12	0.03	0.00	0.00	23.40

rs78525462	Docosatrienoate (22:3n3) levels	GCST90199710	4	156767118	C	T	6511	-0.17	0.03	0.00	0.00	27.39
rs12191730	Docosatrienoate (22:3n3) levels	GCST90199710	6	42712474	A	G	6511	-0.39	0.08	0.00	0.00	21.65
rs987672	Docosatrienoate (22:3n3) levels	GCST90199710	6	76700598	A	G	6511	0.08	0.02	0.00	0.00	19.55
rs75530230	Docosatrienoate (22:3n3) levels	GCST90199710	7	24425899	T	C	6511	-0.74	0.17	0.00	0.00	19.71
rs73179662	Docosatrienoate (22:3n3) levels	GCST90199710	8	4794776	A	G	6511	-0.18	0.04	0.00	0.00	21.03
rs79715983	Docosatrienoate (22:3n3) levels	GCST90199710	9	14170637	C	T	6511	0.12	0.03	0.00	0.00	20.59
rs1331432	Docosatrienoate (22:3n3) levels	GCST90199710	9	86545717	T	C	6511	-0.09	0.02	0.00	0.00	21.94
rs7874009	Docosatrienoate (22:3n3) levels	GCST90199710	9	123487532	T	C	6511	-0.17	0.04	0.00	0.00	20.92
rs61897793	Docosatrienoate (22:3n3) levels	GCST90199710	11	61831875	A	G	6511	0.28	0.02	0.00	0.03	170.96
rs1192922	Docosatrienoate (22:3n3) levels	GCST90199710	11	69687993	A	C	6511	0.08	0.02	0.00	0.00	20.04
rs182193976	Docosatrienoate (22:3n3) levels	GCST90199710	11	82728820	A	G	6511	-0.34	0.08	0.00	0.00	19.80
rs188133144	Docosatrienoate (22:3n3) levels	GCST90199710	11	125536520	A	G	6511	-0.33	0.07	0.00	0.00	24.91
rs1674120	Docosatrienoate (22:3n3) levels	GCST90199710	12	113088440	T	C	6511	-0.10	0.02	0.00	0.00	19.87
rs4790506	Docosatrienoate (22:3n3) levels	GCST90199710	17	3515164	G	A	6511	-0.10	0.02	0.00	0.00	20.86
rs2912547	Docosatrienoate (22:3n3) levels	GCST90199710	17	55753349	T	G	6511	0.10	0.02	0.00	0.00	20.84
rs11084170	Docosatrienoate (22:3n3) levels	GCST90199710	19	52520472	G	A	6511	-0.08	0.02	0.00	0.00	20.22
rs6034162	Docosatrienoate (22:3n3) levels	GCST90199710	20	15360828	A	G	6511	-0.09	0.02	0.00	0.00	24.04
rs4657374	Docosadienoate (22:2n6) levels	GCST90199711	1	164791381	T	A	8264	0.08	0.02	0.00	0.00	20.80
rs3731644	Docosadienoate (22:2n6) levels	GCST90199711	2	235041233	C	T	8264	0.12	0.03	0.00	0.00	20.77
rs56040563	Docosadienoate (22:2n6) levels	GCST90199711	3	132984079	T	C	8264	0.12	0.03	0.00	0.00	21.72
rs9853845	Docosadienoate (22:2n6) levels	GCST90199711	3	183360291	G	A	8264	0.16	0.03	0.00	0.00	21.43
rs73065156	Docosadienoate (22:2n6) levels	GCST90199711	3	193114771	G	A	8264	-0.27	0.06	0.00	0.00	19.91
rs116530753	Docosadienoate (22:2n6) levels	GCST90199711	4	156785921	A	G	8264	-0.17	0.04	0.00	0.00	23.15
rs10057995	Docosadienoate (22:2n6) levels	GCST90199711	5	88147094	A	G	8264	-0.15	0.03	0.00	0.00	19.72

rs197490	Docosadienoate (22:2n6) levels	GCST90199711	6	142741666	C	T	8264	-0.07	0.02	0.00	0.00	20.42
rs117324423	Docosadienoate (22:2n6) levels	GCST90199711	7	150410020	C	G	8264	-0.14	0.03	0.00	0.00	24.34
rs76689759	Docosadienoate (22:2n6) levels	GCST90199711	8	276715	A	T	8264	-0.11	0.03	0.00	0.00	19.60
rs79534035	Docosadienoate (22:2n6) levels	GCST90199711	8	1723701	C	G	8264	-0.15	0.03	0.00	0.00	19.53
rs72609841	Docosadienoate (22:2n6) levels	GCST90199711	8	122978585	T	C	8264	0.09	0.02	0.00	0.00	21.20
rs79715983	Docosadienoate (22:2n6) levels	GCST90199711	9	14170637	C	T	8264	0.11	0.02	0.00	0.00	20.17
rs79950608	Docosadienoate (22:2n6) levels	GCST90199711	9	110873692	T	C	8264	0.17	0.04	0.00	0.00	22.48
rs6585751	Docosadienoate (22:2n6) levels	GCST90199711	10	121684122	A	G	8264	0.07	0.02	0.00	0.00	20.11
rs11051139	Docosadienoate (22:2n6) levels	GCST90199711	12	30885715	A	G	8264	0.18	0.04	0.00	0.00	22.03
rs2484589	Docosadienoate (22:2n6) levels	GCST90199711	12	114887461	A	G	8264	-0.11	0.02	0.00	0.00	20.03
rs57582149	Docosadienoate (22:2n6) levels	GCST90199711	16	84946796	G	T	8264	0.08	0.02	0.00	0.00	19.84
rs118125312	Docosadienoate (22:2n6) levels	GCST90199711	18	67385308	A	G	8264	0.33	0.07	0.00	0.00	21.54
rs79373650	Docosadienoate (22:2n6) levels	GCST90199711	19	14266923	G	A	8264	-0.23	0.05	0.00	0.00	23.75
rs111949383	Docosadienoate (22:2n6) levels	GCST90199711	19	56248371	G	C	8264	-0.16	0.03	0.00	0.00	25.44
rs1112454	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (cmmf)	GCST90199712	1	96139619	G	A	8270	-0.13	0.03	0.00	0.00	19.81
rs115372546	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (cmmf)	GCST90199712	1	104189295	T	G	8270	-0.29	0.06	0.00	0.00	20.48
rs12616476	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (cmmf)	GCST90199712	2	76490429	G	A	8270	0.08	0.02	0.00	0.00	22.72
rs74965424	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (cmmf)	GCST90199712	2	162976838	T	C	8270	0.21	0.05	0.00	0.00	19.98
rs145934755	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (cmmf)	GCST90199712	3	8917069	C	A	8270	-0.18	0.04	0.00	0.00	19.95
rs4273331	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (cmmf)	GCST90199712	3	28355105	C	T	8270	-0.08	0.02	0.00	0.00	21.46

rs13168118	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (rmmf)	GCST90199712	5	122322020	C	A	8270	-0.10	0.02	0.00	0.00	22.11
rs2328895	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (rmmf)	GCST90199712	6	25801855	T	C	8270	-0.10	0.02	0.00	0.01	45.74
rs56045372	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (rmmf)	GCST90199712	6	150173371	A	C	8270	-0.27	0.06	0.00	0.00	19.59
rs17427882	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (rmmf)	GCST90199712	7	27186810	T	G	8270	0.29	0.06	0.00	0.00	21.25
rs113019952	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (rmmf)	GCST90199712	7	97393411	C	G	8270	0.29	0.06	0.00	0.00	21.97
rs2334	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (rmmf)	GCST90199712	7	141412006	G	T	8270	-0.07	0.02	0.00	0.00	20.38
rs140080167	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (rmmf)	GCST90199712	8	65246758	T	G	8270	-0.22	0.05	0.00	0.00	22.62
rs7039675	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (rmmf)	GCST90199712	9	2278436	T	C	8270	0.11	0.02	0.00	0.00	22.18
rs80195214	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (rmmf)	GCST90199712	10	121787629	C	T	8270	-0.21	0.05	0.00	0.00	20.86
rs117706414	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (rmmf)	GCST90199712	16	77904506	A	G	8270	0.30	0.06	0.00	0.00	24.05
rs62087948	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (rmmf)	GCST90199712	17	1379362	G	A	8270	-0.14	0.03	0.00	0.00	20.41
rs2635038	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	1	164760197	C	T	8284	-0.07	0.02	0.00	0.00	21.04
rs61818941	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	1	213778959	T	C	8284	-0.37	0.08	0.00	0.00	19.60
rs3731644	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	2	235041233	C	T	8284	0.11	0.02	0.00	0.00	20.67
rs11715464	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	3	42868195	G	A	8284	-0.07	0.02	0.00	0.00	20.69
rs55823596	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	3	47758541	G	A	8284	0.08	0.02	0.00	0.00	22.12
rs9859509	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	3	86386059	G	T	8284	0.08	0.02	0.00	0.00	19.71

rs12631177	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	3	152884469	T	A	8284	-0.08	0.02	0.00	0.00	19.82
rs112061817	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	4	4829724	T	C	8284	-0.33	0.07	0.00	0.00	21.05
rs78052874	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	4	152378000	A	C	8284	-0.21	0.05	0.00	0.00	19.55
rs116530753	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	4	156785921	A	G	8284	-0.16	0.03	0.00	0.00	22.87
rs77207094	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	5	11520799	C	T	8284	-0.26	0.05	0.00	0.00	21.94
rs710362	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	5	87845250	G	A	8284	0.15	0.03	0.00	0.00	20.42
rs73045049	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	7	2658714	A	G	8284	-0.20	0.04	0.00	0.00	23.46
rs1485003	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	7	95632804	A	G	8284	-0.07	0.01	0.00	0.00	20.01
rs117822743	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	7	158119914	T	C	8284	0.25	0.06	0.00	0.00	20.22
rs79715983	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	9	14170637	C	T	8284	0.11	0.02	0.00	0.00	21.87
rs28618184	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	9	104421149	G	A	8284	0.16	0.04	0.00	0.00	19.73
rs150941261	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	10	129642407	C	T	8284	-0.30	0.07	0.00	0.00	21.62
rs4246215	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	11	61796827	T	G	8284	-0.14	0.02	0.00	0.01	85.99
rs150969060	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	11	130173894	G	C	8284	-0.20	0.04	0.00	0.00	21.19
rs61959375	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	13	88151149	G	A	8284	0.17	0.03	0.00	0.00	25.79
rs77515565	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	14	22494440	T	C	8284	-0.30	0.07	0.00	0.00	19.67
rs150012979	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	18	3881693	T	C	8284	0.28	0.06	0.00	0.00	22.14
rs12151295	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	19	2314181	A	G	8284	-0.17	0.04	0.00	0.00	20.62
rs5751579	Docosapentae noate n3 DPA; 22:5n3 levels	GCST90199713	22	23087037	T	C	8284	0.08	0.02	0.00	0.00	19.88
rs28474977	3-hydroxy-2-ethylpropionat e levels	GCST90199714	1	5790096	T	C	8238	0.08	0.02	0.00	0.00	19.74
rs140665602	3-hydroxy-2-ethylpropionat e levels	GCST90199714	1	15404646	A	G	8238	0.25	0.05	0.00	0.00	21.15
rs186590722	3-hydroxy-2-ethylpropionat e levels	GCST90199714	1	77295201	A	G	8238	0.28	0.06	0.00	0.00	21.12
rs116213334	3-hydroxy-2-ethylpropionat e levels	GCST90199714	1	209206845	T	C	8238	0.23	0.05	0.00	0.00	21.52
rs113119256	3-hydroxy-2-ethylpropionat e levels	GCST90199714	2	14200625	C	T	8238	0.15	0.03	0.00	0.00	22.05

rs13003648	3-hydroxy-2-ethylpropionate levels	GCST90199714	2	29660853	A	G	8238	0.08	0.02	0.00	0.00	27.63
rs565571337	3-hydroxy-2-ethylpropionate levels	GCST90199714	2	38750916	A	C	8238	0.24	0.05	0.00	0.00	24.93
rs923226	3-hydroxy-2-ethylpropionate levels	GCST90199714	3	150220548	A	T	8238	-0.07	0.02	0.00	0.00	19.72
rs73232138	3-hydroxy-2-ethylpropionate levels	GCST90199714	4	41247850	T	C	8238	0.15	0.03	0.00	0.00	19.88
rs6869328	3-hydroxy-2-ethylpropionate levels	GCST90199714	5	81085345	C	A	8238	0.14	0.03	0.00	0.00	22.24
rs145634777	3-hydroxy-2-ethylpropionate levels	GCST90199714	5	150564562	T	C	8238	-0.41	0.09	0.00	0.00	20.35
rs2272600	3-hydroxy-2-ethylpropionate levels	GCST90199714	5	162141934	T	A	8238	-0.10	0.02	0.00	0.00	19.75
rs9359594	3-hydroxy-2-ethylpropionate levels	GCST90199714	6	84495032	C	T	8238	0.07	0.02	0.00	0.00	20.18
rs62488736	3-hydroxy-2-ethylpropionate levels	GCST90199714	8	10148478	T	C	8238	-0.52	0.11	0.00	0.00	23.50
rs2873903	3-hydroxy-2-ethylpropionate levels	GCST90199714	8	139307840	G	A	8238	0.08	0.02	0.00	0.00	20.66
rs10820721	3-hydroxy-2-ethylpropionate levels	GCST90199714	9	104751842	A	G	8238	-0.12	0.02	0.00	0.01	41.79
rs1414990	3-hydroxy-2-ethylpropionate levels	GCST90199714	10	33497360	T	C	8238	-0.08	0.02	0.00	0.00	24.40
rs10786187	3-hydroxy-2-ethylpropionate levels	GCST90199714	10	95096253	G	A	8238	0.13	0.02	0.00	0.01	70.15
rs60168285	3-hydroxy-2-ethylpropionate levels	GCST90199714	11	26797543	T	C	8238	0.19	0.04	0.00	0.00	20.95
rs10877079	3-hydroxy-2-ethylpropionate levels	GCST90199714	12	58168969	G	A	8238	0.07	0.02	0.00	0.00	21.77
rs2620340	3-hydroxy-2-ethylpropionate levels	GCST90199714	12	121853355	A	G	8238	0.11	0.02	0.00	0.00	23.06
rs67188235	3-hydroxy-2-ethylpropionate levels	GCST90199714	13	62137078	C	T	8238	0.14	0.03	0.00	0.00	21.42
rs7150815	3-hydroxy-2-ethylpropionate levels	GCST90199714	14	74038784	A	G	8238	-0.08	0.02	0.00	0.00	26.10
rs10136501	3-hydroxy-2-ethylpropionate levels	GCST90199714	14	102131653	C	A	8238	0.13	0.03	0.00	0.00	22.39
rs12442883	3-hydroxy-2-ethylpropionate levels	GCST90199714	15	89525156	G	C	8238	-0.25	0.05	0.00	0.00	23.03
rs12911273	3-hydroxy-2-ethylpropionate levels	GCST90199714	15	98752421	T	C	8238	-0.08	0.02	0.00	0.00	23.06
rs77972904	3-hydroxy-2-ethylpropionate levels	GCST90199714	16	14206311	A	G	8238	-0.16	0.04	0.00	0.00	20.68
rs9928003	3-hydroxy-2-ethylpropionate levels	GCST90199714	16	20346926	C	A	8238	-0.09	0.02	0.00	0.00	21.07
rs8106803	3-hydroxy-2-ethylpropionate levels	GCST90199714	19	12538550	G	A	8238	0.08	0.02	0.00	0.00	22.12

rs7278735	3-hydroxy-2-ethylpropionate levels	GCST90199714	21	33072776	T	C	8238	0.09	0.02	0.00	0.00	19.59
rs4657374	Myristoleate (14:1n5) levels	GCST90199715	1	164791381	T	A	8255	0.07	0.02	0.00	0.00	22.56
rs10164764	Myristoleate (14:1n5) levels	GCST90199715	2	164605721	A	G	8255	-0.17	0.04	0.00	0.00	23.88
rs115386728	Myristoleate (14:1n5) levels	GCST90199715	2	228624020	A	C	8255	0.19	0.04	0.00	0.00	19.51
rs143706129	Myristoleate (14:1n5) levels	GCST90199715	2	230022412	A	G	8255	-0.13	0.03	0.00	0.00	22.17
rs12497825	Myristoleate (14:1n5) levels	GCST90199715	3	47628057	T	A	8255	-0.07	0.02	0.00	0.00	23.87
rs10008293	Myristoleate (14:1n5) levels	GCST90199715	4	32350080	A	T	8255	0.07	0.02	0.00	0.00	19.92
rs62316458	Myristoleate (14:1n5) levels	GCST90199715	4	87862419	A	T	8255	-0.08	0.02	0.00	0.00	19.72
rs113020642	Myristoleate (14:1n5) levels	GCST90199715	4	152333620	C	T	8255	-0.21	0.04	0.00	0.00	22.38
rs74359901	Myristoleate (14:1n5) levels	GCST90199715	4	163033822	T	A	8255	0.17	0.03	0.00	0.00	24.60
rs1422881	Myristoleate (14:1n5) levels	GCST90199715	5	159438793	T	C	8255	-0.07	0.01	0.00	0.00	23.66
rs78325276	Myristoleate (14:1n5) levels	GCST90199715	6	80520159	C	T	8255	-0.11	0.02	0.00	0.00	20.29
rs2371397	Myristoleate (14:1n5) levels	GCST90199715	7	144404409	A	G	8255	-0.07	0.01	0.00	0.00	22.76
rs621211	Myristoleate (14:1n5) levels	GCST90199715	9	29535543	C	T	8255	0.07	0.01	0.00	0.00	20.78
rs148890850	Myristoleate (14:1n5) levels	GCST90199715	9	33336480	T	C	8255	0.18	0.04	0.00	0.00	19.62
rs603424	Myristoleate (14:1n5) levels	GCST90199715	10	100315722	A	G	8255	-0.10	0.02	0.00	0.00	27.26
rs182193976	Myristoleate (14:1n5) levels	GCST90199715	11	82728820	A	G	8255	-0.29	0.06	0.00	0.00	20.38
rs180670669	Myristoleate (14:1n5) levels	GCST90199715	12	70769855	A	G	8255	0.15	0.03	0.00	0.00	27.16
rs116885450	Myristoleate (14:1n5) levels	GCST90199715	14	37588354	T	C	8255	-0.16	0.04	0.00	0.00	19.59
rs8024577	Myristoleate (14:1n5) levels	GCST90199715	15	52191180	T	C	8255	-0.07	0.01	0.00	0.00	22.00
rs291035	Myristoleate (14:1n5) levels	GCST90199715	15	95095723	A	C	8255	0.09	0.02	0.00	0.00	20.64
rs113915691	Myristoleate (14:1n5) levels	GCST90199715	19	56248382	A	G	8255	-0.14	0.03	0.00	0.00	23.99
rs80053496	Myristoleate (14:1n5) levels	GCST90199715	21	39201944	A	G	8255	-0.22	0.05	0.00	0.00	19.86
rs3765698	undecenoate (11:1n1) levels	GCST90199716	1	3670994	C	T	8243	0.13	0.03	0.00	0.00	19.55
rs9438621	undecenoate (11:1n1) levels	GCST90199716	1	26395893	A	G	8243	0.14	0.03	0.00	0.00	21.52
rs1126742	undecenoate (11:1n1) levels	GCST90199716	1	46932824	G	A	8243	0.47	0.02	0.00	0.05	437.96
rs17103464	undecenoate (11:1n1) levels	GCST90199716	1	47561947	A	G	8243	0.22	0.04	0.00	0.00	28.89
rs187480892	undecenoate (11:1n1) levels	GCST90199716	1	75197642	T	G	8243	-0.40	0.08	0.00	0.00	28.27
rs72694660	undecenoate (11:1n1) levels	GCST90199716	1	112030726	T	C	8243	0.17	0.03	0.00	0.00	26.09
rs141105076	undecenoate (11:1n1) levels	GCST90199716	1	234652357	T	C	8243	0.23	0.05	0.00	0.00	20.04
rs1057868	undecenoate (11:1n1) levels	GCST90199716	7	75985688	T	C	8243	-0.09	0.02	0.00	0.00	25.38
rs149673443	undecenoate (11:1n1) levels	GCST90199716	7	157483077	T	G	8243	-0.25	0.06	0.00	0.00	20.33

rs7032874	10-undecenoate (11:1n1) levels	GCST90199716	9	5373793	A	G	8243	-0.08	0.02	0.00	0.00	22.99
rs4498620	10-undecenoate (11:1n1) levels	GCST90199716	9	121052426	G	T	8243	-0.10	0.02	0.00	0.00	19.90
rs79083227	10-undecenoate (11:1n1) levels	GCST90199716	12	128598537	T	G	8243	-0.44	0.09	0.00	0.00	25.83
rs61962718	10-undecenoate (11:1n1) levels	GCST90199716	13	78606312	C	G	8243	-0.19	0.04	0.00	0.00	20.24
rs62015210	10-undecenoate (11:1n1) levels	GCST90199716	16	6410008	C	T	8243	-0.34	0.07	0.00	0.00	20.95
rs1825063	10-undecenoate (11:1n1) levels	GCST90199716	17	35173190	G	A	8243	0.08	0.02	0.00	0.00	22.33
rs11082247	10-undecenoate (11:1n1) levels	GCST90199716	18	41805664	G	A	8243	-0.07	0.02	0.00	0.00	20.10
rs117706134	10-undecenoate (11:1n1) levels	GCST90199716	19	46179484	C	A	8243	-0.44	0.09	0.00	0.00	21.29
rs2837608	10-undecenoate (11:1n1) levels	GCST90199716	21	40391993	T	C	8243	0.07	0.02	0.00	0.00	21.00
rs6684689	1-methyl-4-imidazoleacetate levels	GCST90199717	1	201093036	A	G	8090	0.17	0.04	0.00	0.00	19.71
rs641783	1-methyl-4-imidazoleacetate levels	GCST90199717	1	207866357	A	G	8090	-0.15	0.03	0.00	0.00	24.62
rs75160509	1-methyl-4-imidazoleacetate levels	GCST90199717	1	237722793	C	A	8090	0.12	0.03	0.00	0.00	22.55
rs12751842	1-methyl-4-imidazoleacetate levels	GCST90199717	1	237797320	A	T	8090	-0.18	0.04	0.00	0.00	20.35
rs112393335	1-methyl-4-imidazoleacetate levels	GCST90199717	1	245811013	A	C	8090	-0.15	0.03	0.00	0.00	21.84
rs79508881	1-methyl-4-imidazoleacetate levels	GCST90199717	2	46043968	C	T	8090	0.26	0.06	0.00	0.00	21.39
rs56169018	1-methyl-4-imidazoleacetate levels	GCST90199717	3	157829313	C	T	8090	0.18	0.04	0.00	0.00	21.09
rs149288214	1-methyl-4-imidazoleacetate levels	GCST90199717	3	172070950	G	A	8090	0.38	0.08	0.00	0.00	20.59
rs73198075	1-methyl-4-imidazoleacetate levels	GCST90199717	4	6130481	G	A	8090	0.08	0.02	0.00	0.00	20.56
rs115425972	1-methyl-4-imidazoleacetate levels	GCST90199717	4	77588429	C	T	8090	0.21	0.05	0.00	0.00	20.93
rs11739255	1-methyl-4-imidazoleacetate levels	GCST90199717	5	180460237	C	T	8090	-0.08	0.02	0.00	0.00	20.98
rs492233	1-methyl-4-imidazoleacetate levels	GCST90199717	6	152431177	A	C	8090	0.08	0.02	0.00	0.00	24.56
rs11238434	1-methyl-4-imidazoleacetate levels	GCST90199717	7	51206466	C	T	8090	-0.07	0.01	0.00	0.00	20.57
rs58418946	1-methyl-4-imidazoleacetate levels	GCST90199717	7	153944137	T	G	8090	-0.40	0.09	0.00	0.00	19.70
rs79974985	1-methyl-4-imidazoleacetate levels	GCST90199717	8	68956977	C	G	8090	0.38	0.08	0.00	0.00	20.09

rs2205260	1-methyl-4-imidazoleacetate levels	GCST90199717	8	115947612	C	A	8090	0.10	0.02	0.00	0.00	25.05
rs17473790	1-methyl-4-imidazoleacetate levels	GCST90199717	9	2335725	T	C	8090	0.15	0.03	0.00	0.00	22.89
rs7932134	1-methyl-4-imidazoleacetate levels	GCST90199717	11	102689166	C	T	8090	-0.08	0.02	0.00	0.00	20.45
rs10774021	1-methyl-4-imidazoleacetate levels	GCST90199717	12	240132	T	C	8090	0.36	0.02	0.00	0.07	565.57
rs1316571	1-methyl-4-imidazoleacetate levels	GCST90199717	13	67746586	T	C	8090	-0.10	0.02	0.00	0.00	23.13
rs1201332	1-methyl-4-imidazoleacetate levels	GCST90199717	16	54582325	C	T	8090	-0.10	0.02	0.00	0.00	20.58
rs79167181	1-methyl-4-imidazoleacetate levels	GCST90199717	16	77622165	G	A	8090	0.15	0.03	0.00	0.00	19.94
rs117236919	1-methyl-4-imidazoleacetate levels	GCST90199717	17	70001741	T	C	8090	-0.20	0.04	0.00	0.00	21.94
rs117081362	1-methyl-4-imidazoleacetate levels	GCST90199717	17	83063492	A	G	8090	-0.30	0.06	0.00	0.00	21.90
rs72936464	1-methyl-4-imidazoleacetate levels	GCST90199717	18	9475163	C	A	8090	0.15	0.03	0.00	0.00	21.15
rs10407741	1-methyl-4-imidazoleacetate levels	GCST90199717	19	19678274	C	T	8090	0.21	0.05	0.00	0.00	19.92
rs73069516	1-methyl-4-imidazoleacetate levels	GCST90199717	20	9991466	G	T	8090	0.24	0.05	0.00	0.00	22.50
rs146181806	1-methyl-4-imidazoleacetate levels	GCST90199717	21	46186515	A	G	8090	-0.39	0.08	0.00	0.00	21.34
rs1126743	Sebacate (C10-DC) levels	GCST90199718	1	46930301	A	G	7926	0.15	0.02	0.00	0.01	64.90
rs12094842	Sebacate (C10-DC) levels	GCST90199718	1	75783905	A	G	7926	-0.08	0.02	0.00	0.00	23.62
rs2012674	Sebacate (C10-DC) levels	GCST90199718	1	152007294	G	C	7926	-0.11	0.02	0.00	0.01	41.05
rs117989284	Sebacate (C10-DC) levels	GCST90199718	2	16624457	C	T	7926	2.19	0.48	0.00	0.00	20.86
rs3815385	Sebacate (C10-DC) levels	GCST90199718	2	127708996	G	T	7926	0.26	0.06	0.00	0.00	19.95
rs1454534	Sebacate (C10-DC) levels	GCST90199718	2	220365468	C	A	7926	0.08	0.02	0.00	0.00	22.76
rs143451206	Sebacate (C10-DC) levels	GCST90199718	5	55809117	T	G	7926	0.26	0.05	0.00	0.00	27.90
rs72716851	Sebacate (C10-DC) levels	GCST90199718	9	29840445	C	T	7926	-0.13	0.03	0.00	0.00	20.53
rs16907457	Sebacate (C10-DC) levels	GCST90199718	9	91406198	G	A	7926	0.11	0.02	0.00	0.00	20.38
rs56224008	Sebacate (C10-DC) levels	GCST90199718	9	128345355	A	G	7926	0.21	0.05	0.00	0.00	19.59
rs1623017	Sebacate (C10-DC) levels	GCST90199718	10	48243008	C	A	7926	0.37	0.08	0.00	0.00	20.76
rs149350662	Sebacate (C10-DC) levels	GCST90199718	11	20568837	G	C	7926	0.17	0.04	0.00	0.00	19.86
rs73159211	Sebacate (C10-DC) levels	GCST90199718	12	81974962	T	C	7926	-0.11	0.03	0.00	0.00	20.35
rs76146586	Sebacate (C10-DC) levels	GCST90199718	13	96560843	C	T	7926	0.22	0.05	0.00	0.00	21.70
rs193055818	Sebacate (C10-DC) levels	GCST90199718	14	28125831	T	C	7926	0.28	0.06	0.00	0.00	23.37
rs11247224	Sebacate (C10-DC) levels	GCST90199718	15	100549096	G	C	7926	0.07	0.02	0.00	0.00	20.28
rs67920180	Sebacate (C10-DC) levels	GCST90199718	16	48881435	T	G	7926	0.11	0.02	0.00	0.00	27.65

rs6563953	Sebacate (C10-DC) levels	GCST90199718	16	83625281	G	C	7926	0.11	0.02	0.00	0.00	22.24
rs461427	Sebacate (C10-DC) levels	GCST90199718	21	18947844	C	T	7926	0.07	0.02	0.00	0.00	20.24
rs3769545	Tauro-beta-muricholate levels	GCST90199719	2	33311084	G	A	4661	-0.10	0.02	0.00	0.00	20.04
rs201816256	Tauro-beta-muricholate levels	GCST90199719	2	114097514	A	G	4661	0.10	0.02	0.00	0.00	19.98
rs72868921	Tauro-beta-muricholate levels	GCST90199719	2	130815363	A	G	4661	0.27	0.06	0.00	0.00	20.56
rs62230211	Tauro-beta-muricholate levels	GCST90199719	3	3233921	C	G	4661	0.24	0.05	0.00	0.00	20.82
rs142892118	Tauro-beta-muricholate levels	GCST90199719	4	4101254	T	C	4661	0.47	0.10	0.00	0.00	21.14
rs114775931	Tauro-beta-muricholate levels	GCST90199719	4	67590286	C	T	4661	0.43	0.08	0.00	0.01	26.38
rs115218534	Tauro-beta-muricholate levels	GCST90199719	4	116154497	C	G	4661	0.52	0.11	0.00	0.00	22.00
rs76800580	Tauro-beta-muricholate levels	GCST90199719	5	73290818	T	C	4661	0.31	0.07	0.00	0.00	21.09
rs114721503	Tauro-beta-muricholate levels	GCST90199719	5	152058198	A	G	4661	0.44	0.10	0.00	0.00	21.64
rs10230752	Tauro-beta-muricholate levels	GCST90199719	7	78925235	C	T	4661	0.42	0.09	0.00	0.00	19.57
rs148982377	Tauro-beta-muricholate levels	GCST90199719	7	99477415	C	T	4661	0.93	0.05	0.00	0.08	411.38
rs62471929	Tauro-beta-muricholate levels	GCST90199719	7	99676693	G	A	4661	-0.27	0.05	0.00	0.01	28.99
rs74454415	Tauro-beta-muricholate levels	GCST90199719	7	100509339	C	A	4661	0.52	0.11	0.00	0.00	22.66
rs1812845	Tauro-beta-muricholate levels	GCST90199719	8	13700441	T	C	4661	0.10	0.02	0.00	0.00	21.95
rs190941914	Tauro-beta-muricholate levels	GCST90199719	8	72059481	T	G	4661	0.50	0.11	0.00	0.00	21.58
rs7122991	Tauro-beta-muricholate levels	GCST90199719	11	3531922	T	G	4661	-0.12	0.03	0.00	0.00	22.18
rs10765927	Tauro-beta-muricholate levels	GCST90199719	11	12138593	C	T	4661	0.18	0.04	0.00	0.00	22.64
rs77405434	Tauro-beta-muricholate levels	GCST90199719	13	34212399	A	G	4661	0.39	0.08	0.00	0.00	21.12
rs9538352	Tauro-beta-muricholate levels	GCST90199719	13	59250923	A	T	4661	0.43	0.09	0.00	0.00	22.85
rs6491848	Tauro-beta-muricholate levels	GCST90199719	13	104397184	T	C	4661	-0.11	0.02	0.00	0.01	23.74
rs3826503	Tauro-beta-muricholate levels	GCST90199719	17	3571366	A	G	4661	0.12	0.03	0.00	0.00	19.95
rs4808888	Tauro-beta-muricholate levels	GCST90199719	19	18964724	A	G	4661	0.10	0.02	0.00	0.00	21.17
rs28876163	Tauro-beta-muricholate levels	GCST90199719	19	24013356	A	C	4661	-0.10	0.02	0.00	0.00	21.84

rs137915919	Tauro-beta-muricholate levels	GCST90199719	19	52867867	T	C	4661	0.38	0.09	0.00	0.00	19.51
rs6074474	Tauro-beta-muricholate levels	GCST90199719	20	12651722	G	C	4661	-0.12	0.03	0.00	0.00	20.55
rs2822807	Tauro-beta-muricholate levels	GCST90199719	21	14607358	T	C	4661	0.52	0.11	0.00	0.01	23.98
rs76136208	Tauro-beta-muricholate levels	GCST90199719	22	21030988	T	C	4661	0.42	0.09	0.00	0.00	20.04
rs114046167	Octanoylcarnitine (c8) levels	GCST90199720	1	43460145	T	G	8226	-0.16	0.04	0.00	0.00	20.05
rs149556176	Octanoylcarnitine (c8) levels	GCST90199720	1	74971148	C	T	8226	0.46	0.06	0.00	0.01	52.16
rs2185152	Octanoylcarnitine (c8) levels	GCST90199720	1	75758325	T	C	8226	-0.39	0.02	0.00	0.07	632.06
rs116076966	Octanoylcarnitine (c8) levels	GCST90199720	1	193439226	C	A	8226	0.31	0.07	0.00	0.00	20.64
rs36012907	Octanoylcarnitine (c8) levels	GCST90199720	1	204619938	T	C	8226	0.12	0.03	0.00	0.00	20.85
rs148620988	Octanoylcarnitine (c8) levels	GCST90199720	2	159434655	C	T	8226	0.27	0.06	0.00	0.00	20.23
rs62302032	Octanoylcarnitine (c8) levels	GCST90199720	4	36913032	C	T	8226	-0.08	0.02	0.00	0.00	28.03
rs79947198	Octanoylcarnitine (c8) levels	GCST90199720	4	106207771	C	A	8226	0.18	0.04	0.00	0.00	21.80
rs17843929	Octanoylcarnitine (c8) levels	GCST90199720	4	158715961	T	C	8226	-0.19	0.02	0.00	0.02	127.43
rs147000073	Octanoylcarnitine (c8) levels	GCST90199720	5	151329150	G	C	8226	-0.36	0.07	0.00	0.00	27.16
rs116479000	Octanoylcarnitine (c8) levels	GCST90199720	6	148219026	G	C	8226	-0.34	0.07	0.00	0.00	21.60
rs4725442	Octanoylcarnitine (c8) levels	GCST90199720	7	151997577	G	A	8226	0.07	0.02	0.00	0.00	19.72
rs144724596	Octanoylcarnitine (c8) levels	GCST90199720	8	104841775	T	C	8226	0.41	0.09	0.00	0.00	20.50
rs9407772	Octanoylcarnitine (c8) levels	GCST90199720	9	16391503	G	C	8226	-0.07	0.02	0.00	0.00	20.64
rs141882839	Octanoylcarnitine (c8) levels	GCST90199720	11	7573189	A	G	8226	0.24	0.05	0.00	0.00	25.30
rs116949598	Octanoylcarnitine (c8) levels	GCST90199720	11	12402235	A	G	8226	0.18	0.04	0.00	0.00	19.52
rs11022982	Octanoylcarnitine (c8) levels	GCST90199720	11	13841158	C	T	8226	-0.20	0.05	0.00	0.00	19.97
rs35966446	Octanoylcarnitine (c8) levels	GCST90199720	11	25780183	G	A	8226	0.07	0.01	0.00	0.00	20.49
rs11231666	Octanoylcarnitine (c8) levels	GCST90199720	11	63977907	A	G	8226	-0.16	0.04	0.00	0.00	19.71
rs572618129	Octanoylcarnitine (c8) levels	GCST90199720	12	11842868	A	C	8226	-0.37	0.08	0.00	0.00	19.91
rs7308192	Octanoylcarnitine (c8) levels	GCST90199720	12	132740600	T	C	8226	0.13	0.03	0.00	0.00	20.23
rs59514998	Octanoylcarnitine (c8) levels	GCST90199720	15	50281418	G	A	8226	-0.08	0.02	0.00	0.00	20.24
rs2062541	Octanoylcarnitine (c8) levels	GCST90199720	16	16033378	A	G	8226	0.11	0.02	0.00	0.01	50.59
rs75371468	Octanoylcarnitine (c8) levels	GCST90199720	16	71344803	A	G	8226	-0.12	0.03	0.00	0.00	20.62
rs146857047	Octanoylcarnitine (c8) levels	GCST90199720	17	22450406	T	G	8226	-0.28	0.06	0.00	0.00	19.53
rs111262693	Octanoylcarnitine (c8) levels	GCST90199720	18	639341	T	G	8226	0.13	0.03	0.00	0.00	20.42
rs149340696	Octanoylcarnitine (c8) levels	GCST90199720	18	21339055	T	C	8226	-0.39	0.08	0.00	0.00	23.32
rs2051394	Octanoylcarnitine (c8) levels	GCST90199720	21	34833845	G	C	8226	-0.07	0.02	0.00	0.00	19.76
rs4657374	Stearidonate (18:4n3) levels	GCST90199721	1	164791381	T	A	8240	0.07	0.02	0.00	0.00	20.03
rs61260044	Stearidonate (18:4n3) levels	GCST90199721	2	82771552	C	A	8240	-0.36	0.08	0.00	0.00	20.82
rs11715464	Stearidonate (18:4n3) levels	GCST90199721	3	42868195	G	A	8240	-0.07	0.02	0.00	0.00	23.78

rs80044222	Stearidonate (18:4n3) levels	GCST90199721	3	73284174	A	G	8240	-0.25	0.05	0.00	0.00	21.52
rs9853845	Stearidonate (18:4n3) levels	GCST90199721	3	183360291	G	A	8240	0.15	0.03	0.00	0.00	20.67
rs6533441	Stearidonate (18:4n3) levels	GCST90199721	4	109628763	A	C	8240	0.07	0.01	0.00	0.00	21.50
rs11653075 3	Stearidonate (18:4n3) levels	GCST90199721	4	156785921	A	G	8240	-0.17	0.03	0.00	0.00	26.86
rs77207094	Stearidonate (18:4n3) levels	GCST90199721	5	11520799	C	T	8240	-0.28	0.05	0.00	0.00	27.00
rs75603478	Stearidonate (18:4n3) levels	GCST90199721	7	80597858	A	G	8240	0.16	0.03	0.00	0.00	22.87
rs11380031 6	Stearidonate (18:4n3) levels	GCST90199721	8	13326823	G	C	8240	-0.29	0.06	0.00	0.00	20.58
rs14948959 6	Stearidonate (18:4n3) levels	GCST90199721	8	88744893	T	C	8240	0.30	0.06	0.00	0.00	22.29
rs79239522	Stearidonate (18:4n3) levels	GCST90199721	9	116212135	G	C	8240	-0.23	0.05	0.00	0.00	21.97
rs73615759	Stearidonate (18:4n3) levels	GCST90199721	10	7541281	T	C	8240	-0.37	0.08	0.00	0.00	22.67
rs7073253	Stearidonate (18:4n3) levels	GCST90199721	10	128247852	C	T	8240	-0.09	0.02	0.00	0.00	22.02
rs174535	Stearidonate (18:4n3) levels	GCST90199721	11	61783884	C	T	8240	-0.12	0.02	0.00	0.01	62.99
rs61908776	Stearidonate (18:4n3) levels	GCST90199721	11	85730577	G	A	8240	-0.39	0.08	0.00	0.00	25.87
rs33151	Stearidonate (18:4n3) levels	GCST90199721	12	30829044	A	G	8240	0.07	0.02	0.00	0.00	19.91
rs9315968	Stearidonate (18:4n3) levels	GCST90199721	13	42884423	C	T	8240	-0.07	0.01	0.00	0.00	20.59
rs9555329	Stearidonate (18:4n3) levels	GCST90199721	13	107218796	T	C	8240	0.12	0.02	0.00	0.00	24.37
rs11742836 3	Stearidonate (18:4n3) levels	GCST90199721	16	86153053	A	G	8240	-0.22	0.05	0.00	0.00	20.07
rs13993108 3	Stearidonate (18:4n3) levels	GCST90199721	18	38806972	G	A	8240	-0.38	0.08	0.00	0.00	24.57
rs9956244	Stearidonate (18:4n3) levels	GCST90199721	18	50669188	A	G	8240	-0.10	0.02	0.00	0.00	21.53
rs11812531 2	Stearidonate (18:4n3) levels	GCST90199721	18	67385308	A	G	8240	0.31	0.07	0.00	0.00	20.58
rs79373650	Stearidonate (18:4n3) levels	GCST90199721	19	14266923	G	A	8240	-0.20	0.04	0.00	0.00	21.22
rs2207696	Stearidonate (18:4n3) levels	GCST90199721	20	7592364	G	A	8240	-0.09	0.02	0.00	0.00	19.67
rs2023636	Stearidonate (18:4n3) levels	GCST90199721	22	19001685	C	A	8240	0.08	0.02	0.00	0.00	19.64
rs196066	Stearidonate (18:4n3) levels	GCST90199721	22	38456390	A	G	8240	0.07	0.02	0.00	0.00	20.82
rs74801711	Decanoylcarni tine (C10)	GCST90199722	1	61298468	T	C	8225	-0.19	0.04	0.00	0.00	20.56
rs14955617 6	Decanoylcarni tine (C10)	GCST90199722	1	74971148	C	T	8225	0.33	0.06	0.00	0.00	26.86
rs2185152	Decanoylcarni tine (C10)	GCST90199722	1	75758325	T	C	8225	-0.30	0.02	0.00	0.04	359.72
rs12613519	Decanoylcarni tine (C10)	GCST90199722	2	46328082	G	A	8225	0.07	0.02	0.00	0.00	20.66
rs60284548	Decanoylcarni tine (C10)	GCST90199722	2	235034605	T	C	8225	0.15	0.03	0.00	0.00	19.92
rs4688320	Decanoylcarni tine (C10)	GCST90199722	3	62707677	G	C	8225	-0.07	0.02	0.00	0.00	20.95
rs73808416	Decanoylcarni tine (C10)	GCST90199722	4	29909614	G	C	8225	-0.16	0.04	0.00	0.00	20.60
rs62302032	Decanoylcarni tine (C10)	GCST90199722	4	36913032	C	T	8225	-0.07	0.02	0.00	0.00	22.63
rs4865149	Decanoylcarni tine (C10)	GCST90199722	4	56740522	C	A	8225	-0.07	0.02	0.00	0.00	19.62
rs17843966	Decanoylcarni tine (C10)	GCST90199722	4	158708662	C	A	8225	-0.19	0.02	0.00	0.01	120.59
rs14676777 5	Decanoylcarni tine (C10)	GCST90199722	5	151313145	T	G	8225	-0.31	0.07	0.00	0.00	20.14
rs11456321 6	Decanoylcarni tine (C10)	GCST90199722	5	180714626	A	G	8225	0.25	0.06	0.00	0.00	19.85
rs14928752 9	Decanoylcarni tine (C10)	GCST90199722	7	108363227	G	A	8225	-0.30	0.07	0.00	0.00	20.33

rs144724596	Decanoylcarnitine (C10)	GCST90199722	8	104841775	T	C	8225	0.42	0.09	0.00	0.00	21.03
rs1670008	Decanoylcarnitine (C10)	GCST90199722	10	105042471	C	G	8225	-0.07	0.02	0.00	0.00	19.76
rs141882839	Decanoylcarnitine (C10)	GCST90199722	11	7573189	A	G	8225	0.22	0.05	0.00	0.00	21.93
rs11231635	Decanoylcarnitine (C10)	GCST90199722	11	63897095	C	G	8225	-0.14	0.03	0.00	0.00	20.11
rs572618129	Decanoylcarnitine (C10)	GCST90199722	12	11842868	A	C	8225	-0.38	0.08	0.00	0.00	21.41
rs8019784	Decanoylcarnitine (C10)	GCST90199722	14	46911508	C	T	8225	0.07	0.02	0.00	0.00	22.25
rs59514998	Decanoylcarnitine (C10)	GCST90199722	15	50281418	G	A	8225	-0.08	0.02	0.00	0.00	20.46
rs2062541	Decanoylcarnitine (C10)	GCST90199722	16	16033378	A	G	8225	0.10	0.02	0.00	0.00	38.71
rs75371468	Decanoylcarnitine (C10)	GCST90199722	16	71344803	A	G	8225	-0.12	0.03	0.00	0.00	20.89
rs2738576	Decanoylcarnitine (C10)	GCST90199722	16	78627286	C	A	8225	-0.09	0.02	0.00	0.00	24.30
rs144365599	Decanoylcarnitine (C10)	GCST90199722	17	11630111	G	A	8225	-0.27	0.06	0.00	0.00	20.46
rs146857047	Decanoylcarnitine (C10)	GCST90199722	17	22450406	T	G	8225	-0.29	0.06	0.00	0.00	20.81
rs2619994	Decanoylcarnitine (C10)	GCST90199722	17	73705723	C	T	8225	-0.14	0.03	0.00	0.00	19.56
rs111262693	Decanoylcarnitine (C10)	GCST90199722	18	639341	T	G	8225	0.14	0.03	0.00	0.00	22.49
rs149340696	Decanoylcarnitine (C10)	GCST90199722	18	21339055	T	C	8225	-0.37	0.08	0.00	0.00	20.11
rs113335533	Decanoylcarnitine (C10)	GCST90199722	20	10864920	G	A	8225	-0.35	0.08	0.00	0.00	19.74
rs17457343	5-dodecenoate (12:1n7) levels	GCST90199723	1	87467146	T	C	8248	0.20	0.05	0.00	0.00	20.37
rs72696919	5-dodecenoate (12:1n7) levels	GCST90199723	1	152048802	A	C	8248	-0.08	0.01	0.00	0.00	28.82
rs1202578	5-dodecenoate (12:1n7) levels	GCST90199723	1	230863290	C	T	8248	0.07	0.02	0.00	0.00	20.49
rs58132852	5-dodecenoate (12:1n7) levels	GCST90199723	2	120680873	T	C	8248	0.12	0.03	0.00	0.00	20.44
rs148620988	5-dodecenoate (12:1n7) levels	GCST90199723	2	159434655	C	T	8248	0.27	0.06	0.00	0.00	22.25
rs143706129	5-dodecenoate (12:1n7) levels	GCST90199723	2	230022412	A	G	8248	-0.13	0.03	0.00	0.00	20.44
rs1391967	5-dodecenoate (12:1n7) levels	GCST90199723	3	1322878	G	A	8248	-0.09	0.02	0.00	0.00	23.14
rs113020642	5-dodecenoate (12:1n7) levels	GCST90199723	4	152333620	C	T	8248	-0.22	0.04	0.00	0.00	23.51
rs10099683	5-dodecenoate (12:1n7) levels	GCST90199723	8	91169328	G	A	8248	-0.10	0.02	0.00	0.00	20.81
rs11005196	5-dodecenoate (12:1n7) levels	GCST90199723	10	56049270	T	G	8248	-0.20	0.04	0.00	0.00	19.96
rs117917716	5-dodecenoate (12:1n7) levels	GCST90199723	10	83106126	A	T	8248	-0.32	0.06	0.00	0.00	28.13
rs75338517	5-dodecenoate (12:1n7) levels	GCST90199723	10	83193212	G	A	8248	0.19	0.04	0.00	0.00	20.34
rs603424	5-dodecenoate (12:1n7) levels	GCST90199723	10	100315722	A	G	8248	-0.11	0.02	0.00	0.00	35.97
rs180670669	5-dodecenoate (12:1n7) levels	GCST90199723	12	70769855	A	G	8248	0.14	0.03	0.00	0.00	21.80
rs2281810	5-dodecenoate (12:1n7) levels	GCST90199723	13	42887507	G	A	8248	0.07	0.01	0.00	0.00	22.53
rs112674672	N-acetylisooleucine levels	GCST90199724	1	241107794	C	T	7223	0.25	0.06	0.00	0.00	20.08
rs75558424	N-acetylisooleucine levels	GCST90199724	2	200098586	G	A	7223	0.12	0.03	0.00	0.00	20.19
rs115005389	N-acetylisooleucine levels	GCST90199724	3	26534836	G	A	7223	-0.19	0.04	0.00	0.00	19.60
rs1598915	N-acetylisooleucine levels	GCST90199724	3	97386708	T	C	7223	-0.15	0.03	0.00	0.00	22.00

rs12485642	N- acetylisooleucin e levels	GCST90199724	3	156616668	A	C	7223	-0.13	0.03	0.00	0.00	24.70
rs4240247	N- acetylisooleucin e levels	GCST90199724	4	38687569	T	C	7223	-0.10	0.02	0.00	0.00	21.82
rs79911842	N- acetylisooleucin e levels	GCST90199724	5	164081657	C	A	7223	0.31	0.07	0.00	0.00	20.98
rs9446221	N- acetylisooleucin e levels	GCST90199724	6	70302273	C	G	7223	-0.15	0.03	0.00	0.00	20.47
rs75047193	N- acetylisooleucin e levels	GCST90199724	7	132364264	C	T	7223	0.20	0.04	0.00	0.00	20.76
rs76884538	N- acetylisooleucin e levels	GCST90199724	8	88640516	G	A	7223	0.24	0.05	0.00	0.00	21.82
rs10818417	N- acetylisooleucin e levels	GCST90199724	9	120009536	T	C	7223	0.08	0.02	0.00	0.00	20.60
rs10895266	N- acetylisooleucin e levels	GCST90199724	11	102157164	G	A	7223	0.08	0.02	0.00	0.00	21.52
rs14140420 7	N- acetylisooleucin e levels	GCST90199724	11	133783229	T	G	7223	0.20	0.04	0.00	0.00	20.21
rs34942834	N- acetylisooleucin e levels	GCST90199724	12	479769	A	G	7223	0.17	0.04	0.00	0.00	22.02
rs12582424	N- acetylisooleucin e levels	GCST90199724	12	89094994	G	T	7223	-0.14	0.03	0.00	0.00	20.13
rs4764714	N- acetylisooleucin e levels	GCST90199724	12	102790747	T	A	7223	0.08	0.02	0.00	0.00	20.98
rs4964343	N- acetylisooleucin e levels	GCST90199724	12	105256297	T	C	7223	0.07	0.02	0.00	0.00	20.47
rs72779836	N- acetylisooleucin e levels	GCST90199724	16	9667956	T	C	7223	-0.13	0.03	0.00	0.00	19.84
rs9972911	N- acetylisooleucin e levels	GCST90199724	17	49100385	T	C	7223	0.08	0.02	0.00	0.00	20.62
rs11659228	N- acetylisooleucin e levels	GCST90199724	18	25624032	A	T	7223	-0.08	0.02	0.00	0.00	21.74
rs72963585	N- acetylisooleucin e levels	GCST90199724	18	69534306	C	T	7223	-0.11	0.02	0.00	0.00	20.55
rs79812211	Campesterol levels	GCST90199725	1	91066192	T	C	5300	-0.14	0.03	0.00	0.00	20.35
rs2295613	Campesterol levels	GCST90199725	1	160647267	T	C	5300	0.17	0.04	0.00	0.00	20.53
rs6730449	Campesterol levels	GCST90199725	2	43787580	A	T	5300	0.12	0.02	0.00	0.01	29.67
rs4299376	Campesterol levels	GCST90199725	2	43845437	T	G	5300	-0.37	0.02	0.00	0.06	347.03
rs62185746	Campesterol levels	GCST90199725	2	223991607	T	G	5300	0.25	0.06	0.00	0.00	19.54
rs2029665	Campesterol levels	GCST90199725	3	4623881	G	A	5300	0.09	0.02	0.00	0.00	19.96
rs14816421 5	Campesterol levels	GCST90199725	3	149480942	T	C	5300	0.21	0.04	0.00	0.01	29.75
rs28635242	Campesterol levels	GCST90199725	4	32055156	C	T	5300	-0.34	0.07	0.00	0.00	22.10
rs14618400 4	Campesterol levels	GCST90199725	6	160345302	T	C	5300	0.27	0.06	0.00	0.00	20.86
rs217386	Campesterol levels	GCST90199725	7	44561096	A	G	5300	-0.10	0.02	0.00	0.00	25.01
rs6972435	Campesterol levels	GCST90199725	7	89948316	G	A	5300	-0.09	0.02	0.00	0.00	21.11

rs74933660	Campesterol levels	GCST90199725	7	122342203	C	T	5300	-0.16	0.03	0.00	0.00	20.44
rs10986661	Campesterol levels	GCST90199725	9	125232852	A	C	5300	-0.17	0.04	0.00	0.00	19.69
rs532436	Campesterol levels	GCST90199725	9	133274414	G	A	5300	-0.17	0.02	0.00	0.01	51.34
rs1535717	Campesterol levels	GCST90199725	11	34479619	C	T	5300	0.19	0.04	0.00	0.00	22.19
rs75601171	Campesterol levels	GCST90199725	11	113635829	A	G	5300	0.11	0.02	0.00	0.00	22.70
rs11724082 4	Campesterol levels	GCST90199725	12	41090461	A	G	5300	0.24	0.05	0.00	0.00	22.37
rs7332129	Campesterol levels	GCST90199725	13	41580967	A	G	5300	0.10	0.02	0.00	0.00	23.50
rs2784545	Campesterol levels	GCST90199725	13	54102493	G	C	5300	-0.16	0.03	0.00	0.00	22.15
rs71462821	Campesterol levels	GCST90199725	15	32735604	G	A	5300	-0.20	0.04	0.00	0.00	20.52
rs2076091	Campesterol levels	GCST90199725	22	44537502	A	G	5300	0.10	0.02	0.00	0.00	23.42
rs10494405	N- acetylthreonin e levels	GCST90199726	1	163979236	C	T	8223	0.10	0.02	0.00	0.00	23.63
rs34105619	N- acetylthreonin e levels	GCST90199726	1	222057507	G	T	8223	-0.08	0.02	0.00	0.00	20.04
rs14391518 3	N- acetylthreonin e levels	GCST90199726	2	26951211	A	G	8223	-0.16	0.04	0.00	0.00	19.77
rs11385939 6	N- acetylthreonin e levels	GCST90199726	2	121298674	T	C	8223	-0.34	0.07	0.00	0.00	25.07
rs1047891	N- acetylthreonin e levels	GCST90199726	2	210675783	A	C	8223	-0.09	0.02	0.00	0.00	30.48
rs75005790	N- acetylthreonin e levels	GCST90199726	3	6427950	G	C	8223	0.10	0.02	0.00	0.00	22.73
rs971538	N- acetylthreonin e levels	GCST90199726	3	193431661	C	T	8223	0.07	0.01	0.00	0.00	21.08
rs7654754	N- acetylthreonin e levels	GCST90199726	4	76488642	A	G	8223	0.08	0.01	0.00	0.00	29.60
rs1032355	N- acetylthreonin e levels	GCST90199726	4	99618739	C	T	8223	0.08	0.02	0.00	0.00	20.60
rs78486246	N- acetylthreonin e levels	GCST90199726	6	15287617	A	C	8223	0.27	0.06	0.00	0.00	21.70
rs2005992	N- acetylthreonin e levels	GCST90199726	6	16599705	A	G	8223	0.08	0.02	0.00	0.00	21.23
rs2158725	N- acetylthreonin e levels	GCST90199726	7	83667925	C	T	8223	0.10	0.02	0.00	0.00	20.10
rs61865625	N- acetylthreonin e levels	GCST90199726	10	132461024	T	C	8223	0.16	0.03	0.00	0.00	27.13
rs1833492	N- acetylthreonin e levels	GCST90199726	11	100142207	C	G	8223	-0.09	0.02	0.00	0.00	19.57
rs35971116	N- acetylthreonin e levels	GCST90199726	12	59818447	G	A	8223	-0.09	0.02	0.00	0.00	24.57
rs6500746	N- acetylthreonin e levels	GCST90199726	16	6063708	G	A	8223	-0.10	0.02	0.00	0.00	22.12
rs77924615	N- acetylthreonin e levels	GCST90199726	16	20381010	A	G	8223	-0.09	0.02	0.00	0.00	21.36
rs11641965	N- acetylthreonin e levels	GCST90199726	16	76588806	G	A	8223	-0.07	0.02	0.00	0.00	19.75

rs1703824	N-acetylthreonine levels	GCST90199726	17	910084	A	C	8223	-0.07	0.01	0.00	0.00	19.78
rs11653803	N-acetylthreonine levels	GCST90199726	17	35724105	G	T	8223	-0.16	0.03	0.00	0.00	21.96
rs149777477	N-acetylthreonine levels	GCST90199726	18	76282390	T	C	8223	0.25	0.05	0.00	0.00	22.25
rs117770003	N-acetylthreonine levels	GCST90199726	19	46085553	T	C	8223	0.27	0.05	0.00	0.00	25.29
rs77692382	1-oleoyl-GPC (18:1) levels	GCST90199727	1	39941043	T	C	8257	0.16	0.02	0.00	0.01	77.11
rs860340	1-oleoyl-GPC (18:1) levels	GCST90199727	3	187171532	G	A	8257	-0.15	0.03	0.00	0.00	20.26
rs113829571	1-oleoyl-GPC (18:1) levels	GCST90199727	4	89514822	G	C	8257	-0.34	0.07	0.00	0.00	22.84
rs78720321	1-oleoyl-GPC (18:1) levels	GCST90199727	5	9952752	A	C	8257	-0.16	0.04	0.00	0.00	20.94
rs72815030	1-oleoyl-GPC (18:1) levels	GCST90199727	6	6123386	G	A	8257	0.17	0.04	0.00	0.00	21.63
rs11773889	1-oleoyl-GPC (18:1) levels	GCST90199727	7	36298980	T	C	8257	-0.09	0.02	0.00	0.00	22.49
rs7785121	1-oleoyl-GPC (18:1) levels	GCST90199727	7	97353569	C	T	8257	-0.08	0.02	0.00	0.00	21.32
rs7840019	1-oleoyl-GPC (18:1) levels	GCST90199727	8	3617068	T	G	8257	-0.11	0.02	0.00	0.00	23.39
rs147564030	1-oleoyl-GPC (18:1) levels	GCST90199727	8	28842915	A	G	8257	0.26	0.06	0.00	0.00	19.66
rs7042179	1-oleoyl-GPC (18:1) levels	GCST90199727	9	111972068	T	C	8257	0.22	0.05	0.00	0.00	19.86
rs141595765	1-oleoyl-GPC (18:1) levels	GCST90199727	9	136249803	A	G	8257	-0.23	0.05	0.00	0.00	19.52
rs117109614	1-oleoyl-GPC (18:1) levels	GCST90199727	10	55978876	C	T	8257	-0.30	0.06	0.00	0.00	21.32
rs61916719	1-oleoyl-GPC (18:1) levels	GCST90199727	12	721129	T	C	8257	0.07	0.02	0.00	0.00	20.69
rs673105	1-oleoyl-GPC (18:1) levels	GCST90199727	12	31260128	C	T	8257	0.13	0.03	0.00	0.00	19.54
rs75872593	1-oleoyl-GPC (18:1) levels	GCST90199727	12	114002584	T	A	8257	-0.21	0.05	0.00	0.00	20.41
rs225466	1-oleoyl-GPC (18:1) levels	GCST90199727	12	126009997	G	A	8257	-0.11	0.02	0.00	0.00	20.30
rs17659208	1-oleoyl-GPC (18:1) levels	GCST90199727	18	31333782	A	G	8257	-0.35	0.08	0.00	0.00	20.31
rs10177868	nonadecenoate (19:1n9) levels	GCST90199728	2	66117073	T	G	8277	0.08	0.02	0.00	0.00	20.05
rs10864859	nonadecenoate (19:1n9) levels	GCST90199728	2	120682642	T	G	8277	-0.13	0.03	0.00	0.00	19.83
rs143706129	nonadecenoate (19:1n9) levels	GCST90199728	2	230022412	A	G	8277	-0.14	0.03	0.00	0.00	23.57
rs12497825	nonadecenoate (19:1n9) levels	GCST90199728	3	47628057	T	A	8277	-0.08	0.02	0.00	0.00	24.07
rs116530753	nonadecenoate (19:1n9) levels	GCST90199728	4	156785921	A	G	8277	-0.17	0.03	0.00	0.00	24.16
rs79859092	nonadecenoate (19:1n9) levels	GCST90199728	5	96814807	C	T	8277	-0.19	0.04	0.00	0.00	22.44
rs7803343	nonadecenoate (19:1n9) levels	GCST90199728	7	10226349	A	G	8277	-0.07	0.02	0.00	0.00	19.56
rs2670012	nonadecenoate (19:1n9) levels	GCST90199728	8	56521717	T	C	8277	0.07	0.02	0.00	0.00	21.30
rs7040332	nonadecenoate (19:1n9) levels	GCST90199728	9	111683067	T	C	8277	0.07	0.02	0.00	0.00	22.32

rs79507970	10- nonadecenoate (19:1n9) levels	GCST90199728	12	24993537	C	G	8277	0.24	0.05	0.00	0.00	19.61
rs19121486 7	10- nonadecenoate (19:1n9) levels	GCST90199728	15	81668588	A	G	8277	0.17	0.04	0.00	0.00	19.66
rs11391569 1	10- nonadecenoate (19:1n9) levels	GCST90199728	19	56248382	A	G	8277	-0.16	0.03	0.00	0.00	26.89
rs80053496	10- nonadecenoate (19:1n9) levels	GCST90199728	21	39201944	A	G	8277	-0.24	0.05	0.00	0.00	21.03
rs76898899	Piperine levels	GCST90199729	1	6943205	T	C	8155	-0.21	0.05	0.00	0.00	19.81
rs61789219	Piperine levels	GCST90199729	1	116472759	A	C	8155	0.13	0.03	0.00	0.00	21.59
rs34800360	Piperine levels	GCST90199729	2	64809889	G	C	8155	0.08	0.02	0.00	0.00	20.55
rs18496698 5	Piperine levels	GCST90199729	2	168043896	T	C	8155	-0.40	0.09	0.00	0.00	20.64
rs11939197	Piperine levels	GCST90199729	4	47956358	G	A	8155	-0.37	0.07	0.00	0.00	25.67
rs6837172	Piperine levels	GCST90199729	4	62484252	A	G	8155	0.07	0.02	0.00	0.00	21.36
rs6824447	Piperine levels	GCST90199729	4	110199557	A	G	8155	-0.07	0.02	0.00	0.00	20.78
rs78813791	Piperine levels	GCST90199729	6	45717583	T	C	8155	0.17	0.04	0.00	0.00	22.05
rs1999558	Piperine levels	GCST90199729	6	137404388	G	A	8155	0.08	0.02	0.00	0.00	23.11
rs4410790	Piperine levels	GCST90199729	7	17244953	C	T	8155	-0.08	0.02	0.00	0.00	25.69
rs2530416	Piperine levels	GCST90199729	7	67678707	C	T	8155	0.07	0.02	0.00	0.00	21.31
rs14840566 1	Piperine levels	GCST90199729	8	5847953	G	A	8155	0.30	0.07	0.00	0.00	20.53
rs4278149	Piperine levels	GCST90199729	8	34687055	G	C	8155	0.09	0.02	0.00	0.00	21.99
rs9414948	Piperine levels	GCST90199729	10	66866368	C	T	8155	0.10	0.02	0.00	0.00	20.59
rs11146389	Piperine levels	GCST90199729	10	132477171	G	T	8155	0.07	0.02	0.00	0.00	20.52
rs14190646 2	Piperine levels	GCST90199729	13	108584415	C	T	8155	-0.27	0.06	0.00	0.00	21.85
rs4442730	Piperine levels	GCST90199729	14	57741737	C	T	8155	0.09	0.02	0.00	0.00	23.63
rs56679513	Piperine levels	GCST90199729	15	74436808	G	A	8155	0.17	0.04	0.00	0.00	20.52
rs1048943	Piperine levels	GCST90199729	15	74720644	C	T	8155	-0.20	0.04	0.00	0.00	21.19
rs500285	Piperine levels	GCST90199729	16	26735502	G	C	8155	0.16	0.03	0.00	0.00	21.46
rs11645735	Piperine levels	GCST90199729	16	60853116	G	C	8155	0.09	0.02	0.00	0.00	20.19
rs9961356	Piperine levels	GCST90199729	18	71596579	A	T	8155	-0.07	0.02	0.00	0.00	20.79
rs14560433 9	Piperine levels	GCST90199729	18	74178305	A	G	8155	0.33	0.07	0.00	0.00	21.16
rs60447252	Piperine levels	GCST90199729	19	4341089	T	G	8155	-0.21	0.04	0.00	0.00	25.37
rs4815298	Piperine levels	GCST90199729	20	2539461	G	A	8155	-0.07	0.02	0.00	0.00	20.81
rs14061105 4	Piperine levels	GCST90199729	20	15983841	T	C	8155	-0.20	0.04	0.00	0.00	19.98
rs11810562 9	Piperine levels	GCST90199729	20	17356961	A	T	8155	0.17	0.04	0.00	0.00	22.87
rs79599128	Carnitine C14 levels	GCST90199730	1	86835748	G	A	8241	-0.15	0.03	0.00	0.00	22.94
rs11458293 5	Carnitine C14 levels	GCST90199730	2	117603390	T	G	8241	-0.47	0.10	0.00	0.00	20.26
rs34904621	Carnitine C14 levels	GCST90199730	3	33217571	T	C	8241	-0.08	0.02	0.00	0.00	19.75
rs4146338	Carnitine C14 levels	GCST90199730	3	117775117	T	C	8241	0.12	0.02	0.00	0.00	24.75
rs80279825	Carnitine C14 levels	GCST90199730	3	152211889	C	A	8241	0.26	0.06	0.00	0.00	19.53
rs14819759 3	Carnitine C14 levels	GCST90199730	4	149218421	A	G	8241	-0.21	0.05	0.00	0.00	20.69
rs72777054	Carnitine C14 levels	GCST90199730	5	92319117	A	G	8241	0.13	0.03	0.00	0.00	20.68
rs11242109	Carnitine C14 levels	GCST90199730	5	132341354	T	G	8241	-0.11	0.01	0.00	0.01	59.95
rs11699421 3	Carnitine C14 levels	GCST90199730	9	78894851	C	T	8241	-0.25	0.05	0.00	0.00	21.25
rs11126907 1	Carnitine C14 levels	GCST90199730	11	98016962	C	T	8241	0.13	0.03	0.00	0.00	20.90
rs4149577	Carnitine C14 levels	GCST90199730	12	6338356	A	G	8241	0.07	0.02	0.00	0.00	21.28
rs4964471	Carnitine C14 levels	GCST90199730	12	106585970	C	T	8241	0.10	0.02	0.00	0.00	19.78
rs17643150	Carnitine C14 levels	GCST90199730	13	91387826	A	G	8241	-0.19	0.04	0.00	0.00	21.85
rs80081601	Carnitine C14 levels	GCST90199730	14	48909534	A	T	8241	-0.41	0.08	0.00	0.00	24.32

rs34402821	Carnitine C14 levels	GCST90199730	15	34816690	G	A	8241	0.12	0.03	0.00	0.00	22.82
rs12907371	Carnitine C14 levels	GCST90199730	15	100266916	C	G	8241	0.11	0.02	0.00	0.00	21.46
rs56308528	Carnitine C14 levels	GCST90199730	16	12603161	A	G	8241	0.10	0.02	0.00	0.00	22.36
rs75555206	Carnitine C14 levels	GCST90199730	17	68326876	A	G	8241	-0.22	0.05	0.00	0.00	20.70
rs14934069	Carnitine C14 levels	GCST90199730	18	21339055	T	C	8241	-0.36	0.08	0.00	0.00	20.73
rs14837153	Carnitine C14 levels	GCST90199730	19	4346542	T	C	8241	0.20	0.04	0.00	0.00	21.82
rs28864674	Carnitine C14 levels	GCST90199730	20	5661904	G	A	8241	-0.07	0.02	0.00	0.00	19.83
rs6067734	Carnitine C14 levels	GCST90199730	20	51310709	A	G	8241	-0.13	0.03	0.00	0.00	19.77
rs10177868	heptadecenoate (17:1n7) levels	GCST90199731	2	66117073	T	G	8282	0.08	0.02	0.00	0.00	19.90
rs143706129	heptadecenoate (17:1n7) levels	GCST90199731	2	230022412	A	G	8282	-0.14	0.03	0.00	0.00	22.28
rs12497825	heptadecenoate (17:1n7) levels	GCST90199731	3	47628057	T	A	8282	-0.08	0.02	0.00	0.00	29.28
rs10933724	heptadecenoate (17:1n7) levels	GCST90199731	3	194249062	C	G	8282	-0.10	0.02	0.00	0.00	19.67
rs74359901	heptadecenoate (17:1n7) levels	GCST90199731	4	163033822	T	A	8282	0.18	0.04	0.00	0.00	25.15
rs6552232	heptadecenoate (17:1n7) levels	GCST90199731	4	177427940	T	C	8282	0.10	0.02	0.00	0.00	21.79
rs73045049	heptadecenoate (17:1n7) levels	GCST90199731	7	2658714	A	G	8282	-0.18	0.04	0.00	0.00	19.59
rs212832	heptadecenoate (17:1n7) levels	GCST90199731	7	26626391	T	G	8282	0.11	0.02	0.00	0.00	19.52
rs75198642	heptadecenoate (17:1n7) levels	GCST90199731	7	89354866	T	G	8282	-0.13	0.03	0.00	0.00	21.45
rs7040332	heptadecenoate (17:1n7) levels	GCST90199731	9	111683067	T	C	8282	0.07	0.02	0.00	0.00	20.83
rs577111185	heptadecenoate (17:1n7) levels	GCST90199731	10	18344386	C	T	8282	-0.24	0.05	0.00	0.00	19.99
rs7070122	heptadecenoate (17:1n7) levels	GCST90199731	10	76937548	G	C	8282	-0.10	0.02	0.00	0.00	20.70
rs79507970	heptadecenoate (17:1n7) levels	GCST90199731	12	24993537	C	G	8282	0.24	0.05	0.00	0.00	21.05
rs11170960	heptadecenoate (17:1n7) levels	GCST90199731	12	54511237	A	G	8282	-0.14	0.03	0.00	0.00	19.92

rs18067069	10-heptadecenoate (17:1n7) levels	GCST90199731	12	70769855	A	G	8282	0.15	0.03	0.00	0.00	24.39
rs148163874	10-heptadecenoate (17:1n7) levels	GCST90199731	12	97667788	A	G	8282	-0.26	0.06	0.00	0.00	19.68
rs12431272	10-heptadecenoate (17:1n7) levels	GCST90199731	13	31391571	G	A	8282	0.17	0.04	0.00	0.00	19.87
rs2031900	10-heptadecenoate (17:1n7) levels	GCST90199731	13	98827749	G	A	8282	0.23	0.05	0.00	0.00	19.89
rs28468489	10-heptadecenoate (17:1n7) levels	GCST90199731	18	49542767	G	A	8282	0.22	0.04	0.00	0.00	23.80
rs113915691	10-heptadecenoate (17:1n7) levels	GCST90199731	19	56248382	A	G	8282	-0.15	0.03	0.00	0.00	23.97
rs566623596	10-heptadecenoate (17:1n7) levels	GCST90199731	20	26237585	C	T	8282	-0.53	0.12	0.00	0.00	20.15
rs77255613	10-heptadecenoate (17:1n7) levels	GCST90199731	21	21437508	T	C	8282	-0.09	0.02	0.00	0.00	20.82
rs80053496	10-heptadecenoate (17:1n7) levels	GCST90199731	21	39201944	A	G	8282	-0.23	0.05	0.00	0.00	20.14
rs77692382	1-stearoyl-gpc (18:0) levels	GCST90199732	1	39941043	T	C	8240	0.16	0.02	0.00	0.01	78.22
rs1168041	1-stearoyl-gpc (18:0) levels	GCST90199732	1	62494579	C	T	8240	0.09	0.02	0.00	0.00	27.58
rs1132	1-stearoyl-gpc (18:0) levels	GCST90199732	1	94928796	A	T	8240	-0.08	0.02	0.00	0.00	29.01
rs4846976	1-stearoyl-gpc (18:0) levels	GCST90199732	1	230502383	G	A	8240	0.21	0.05	0.00	0.00	19.97
rs4516473	1-stearoyl-gpc (18:0) levels	GCST90199732	2	130996785	T	C	8240	-0.08	0.02	0.00	0.00	20.61
rs2165310	1-stearoyl-gpc (18:0) levels	GCST90199732	2	163614870	T	A	8240	-0.26	0.06	0.00	0.00	21.85
rs11678511	1-stearoyl-gpc (18:0) levels	GCST90199732	2	210772462	G	A	8240	-0.07	0.02	0.00	0.00	21.46
rs1511811	1-stearoyl-gpc (18:0) levels	GCST90199732	4	188517379	G	T	8240	-0.07	0.02	0.00	0.00	21.80
rs80177654	1-stearoyl-gpc (18:0) levels	GCST90199732	5	9972556	G	A	8240	-0.18	0.04	0.00	0.00	25.39
rs404673	1-stearoyl-gpc (18:0) levels	GCST90199732	5	31674985	T	C	8240	0.15	0.03	0.00	0.00	30.61
rs192540706	1-stearoyl-gpc (18:0) levels	GCST90199732	5	106684389	T	C	8240	-0.23	0.05	0.00	0.00	21.69
rs11759093	1-stearoyl-gpc (18:0) levels	GCST90199732	6	7213549	T	C	8240	-0.16	0.04	0.00	0.00	19.71
rs865353	1-stearoyl-gpc (18:0) levels	GCST90199732	6	35068576	T	C	8240	0.07	0.02	0.00	0.00	19.76
rs9471968	1-stearoyl-gpc (18:0) levels	GCST90199732	6	42937497	G	A	8240	0.07	0.02	0.00	0.00	20.13
rs377658524	1-stearoyl-gpc (18:0) levels	GCST90199732	6	102408598	T	C	8240	0.24	0.05	0.00	0.00	21.85
rs117940165	1-stearoyl-gpc (18:0) levels	GCST90199732	7	8713549	G	T	8240	0.31	0.06	0.00	0.00	25.43
rs1858942	1-stearoyl-gpc (18:0) levels	GCST90199732	7	20596885	A	G	8240	0.07	0.02	0.00	0.00	19.55
rs9792470	1-stearoyl-gpc (18:0) levels	GCST90199732	9	8598737	A	G	8240	0.11	0.02	0.00	0.00	20.22
rs79211402	1-stearoyl-gpc (18:0) levels	GCST90199732	10	88682273	C	A	8240	0.23	0.05	0.00	0.00	20.46

rs72816932	1-stearoyl-gpc (18:0) levels	GCST90199732	10	107213387	C	T	8240	-0.31	0.07	0.00	0.00	20.52
rs174560	1-stearoyl-gpc (18:0) levels	GCST90199732	11	61814292	C	T	8240	-0.12	0.02	0.00	0.01	49.42
rs12800198	1-stearoyl-gpc (18:0) levels	GCST90199732	11	94197482	C	T	8240	0.17	0.04	0.00	0.00	22.61
rs56101043	1-stearoyl-gpc (18:0) levels	GCST90199732	11	99144643	A	G	8240	0.18	0.04	0.00	0.00	19.62
rs964184	1-stearoyl-gpc (18:0) levels	GCST90199732	11	116778201	C	G	8240	-0.10	0.02	0.00	0.00	20.02
rs11742493 4	1-stearoyl-gpc (18:0) levels	GCST90199732	11	119479306	G	T	8240	0.29	0.06	0.00	0.00	20.33
rs4251520	1-stearoyl-gpc (18:0) levels	GCST90199732	12	43781535	C	T	8240	0.11	0.02	0.00	0.00	20.03
rs17009719	1-stearoyl-gpc (18:0) levels	GCST90199732	12	82568906	T	G	8240	0.14	0.03	0.00	0.00	20.60
rs71468473	1-stearoyl-gpc (18:0) levels	GCST90199732	12	131213698	T	C	8240	0.10	0.02	0.00	0.00	23.20
rs9518568	1-stearoyl-gpc (18:0) levels	GCST90199732	13	101812735	T	C	8240	-0.08	0.02	0.00	0.00	23.97
rs14186670 6	1-stearoyl-gpc (18:0) levels	GCST90199732	14	73791661	C	T	8240	-0.33	0.07	0.00	0.00	19.95
rs13848143 4	1-stearoyl-gpc (18:0) levels	GCST90199732	15	89551775	A	G	8240	0.26	0.06	0.00	0.00	21.32
rs75549711	1-stearoyl-gpc (18:0) levels	GCST90199732	15	99058093	T	C	8240	0.28	0.06	0.00	0.00	20.18
rs62036205	1-stearoyl-gpc (18:0) levels	GCST90199732	16	78841158	C	A	8240	-0.14	0.03	0.00	0.00	26.17
rs440446	1-stearoyl-gpc (18:0) levels	GCST90199732	19	44905910	G	C	8240	0.07	0.02	0.00	0.00	19.60
rs62205296	1-stearoyl-gpc (18:0) levels	GCST90199732	20	5665896	A	G	8240	0.27	0.06	0.00	0.00	22.62
rs14677604 5	1-stearoyl-gpc (18:0) levels	GCST90199732	22	25193217	G	A	8240	-0.45	0.09	0.00	0.00	24.08
rs1492701	1-palmitoyl- GPC (16:0) levels	GCST90199733	1	39956146	G	C	8232	0.18	0.02	0.00	0.01	103.57
rs1168041	1-palmitoyl- GPC (16:0) levels	GCST90199733	1	62494579	C	T	8232	0.08	0.02	0.00	0.00	24.29
rs11532290 1	1-palmitoyl- GPC (16:0) levels	GCST90199733	1	212660276	G	A	8232	-0.18	0.04	0.00	0.00	22.72
rs56355004	1-palmitoyl- GPC (16:0) levels	GCST90199733	1	231033999	C	T	8232	-0.11	0.02	0.00	0.00	22.53
rs1260326	1-palmitoyl- GPC (16:0) levels	GCST90199733	2	27508073	C	T	8232	-0.07	0.02	0.00	0.00	20.12
rs74377160	1-palmitoyl- GPC (16:0) levels	GCST90199733	2	168080926	C	G	8232	-0.22	0.05	0.00	0.00	20.57
rs11220315 7	1-palmitoyl- GPC (16:0) levels	GCST90199733	4	29982419	C	T	8232	0.22	0.05	0.00	0.00	19.94
rs404673	1-palmitoyl- GPC (16:0) levels	GCST90199733	5	31674985	T	C	8232	0.14	0.03	0.00	0.00	28.24
rs2662619	1-palmitoyl- GPC (16:0) levels	GCST90199733	5	58481053	A	G	8232	-0.08	0.02	0.00	0.00	19.98
rs11657621 8	1-palmitoyl- GPC (16:0) levels	GCST90199733	5	163608210	A	C	8232	0.41	0.09	0.00	0.00	20.78
rs623263	1-palmitoyl- GPC (16:0) levels	GCST90199733	6	83759926	C	T	8232	0.10	0.02	0.00	0.00	21.88
rs1858942	1-palmitoyl- GPC (16:0) levels	GCST90199733	7	20596885	A	G	8232	0.07	0.02	0.00	0.00	20.57
rs11773889	1-palmitoyl- GPC (16:0) levels	GCST90199733	7	36298980	T	C	8232	-0.09	0.02	0.00	0.00	20.85

rs35006996	1-palmitoyl- GPC (16:0) levels	GCST90199733	7	73388636	A	G	8232	-0.22	0.05	0.00	0.00	19.67
rs791597	1-palmitoyl- GPC (16:0) levels	GCST90199733	7	128224283	G	A	8232	-0.08	0.02	0.00	0.00	22.30
rs75286371	1-palmitoyl- GPC (16:0) levels	GCST90199733	8	23594572	A	G	8232	-0.17	0.04	0.00	0.00	20.95
rs28601761	1-palmitoyl- GPC (16:0) levels	GCST90199733	8	125487789	G	C	8232	-0.07	0.02	0.00	0.00	20.48
rs144164029	1-palmitoyl- GPC (16:0) levels	GCST90199733	10	65312253	G	A	8232	-0.35	0.08	0.00	0.00	20.88
rs174544	1-palmitoyl- GPC (16:0) levels	GCST90199733	11	61800281	A	C	8232	-0.08	0.02	0.00	0.00	23.07
rs12800198	1-palmitoyl- GPC (16:0) levels	GCST90199733	11	94197482	C	T	8232	0.17	0.04	0.00	0.00	21.30
rs73067080	1-palmitoyl- GPC (16:0) levels	GCST90199733	12	21235895	C	T	8232	0.10	0.02	0.00	0.00	23.56
rs71468473	1-palmitoyl- GPC (16:0) levels	GCST90199733	12	131213698	T	C	8232	0.10	0.02	0.00	0.00	21.87
rs141135256	1-palmitoyl- GPC (16:0) levels	GCST90199733	13	98564483	A	T	8232	0.25	0.05	0.00	0.00	20.75
rs9518568	1-palmitoyl- GPC (16:0) levels	GCST90199733	13	101812735	T	C	8232	-0.08	0.02	0.00	0.00	23.50
rs141866706	1-palmitoyl- GPC (16:0) levels	GCST90199733	14	73791661	C	T	8232	-0.34	0.07	0.00	0.00	20.65
rs148544135	1-palmitoyl- GPC (16:0) levels	GCST90199733	14	76961782	G	A	8232	-0.35	0.07	0.00	0.00	21.59
rs140130592	1-palmitoyl- GPC (16:0) levels	GCST90199733	16	52383741	C	A	8232	-0.24	0.05	0.00	0.00	19.86
rs62036205	1-palmitoyl- GPC (16:0) levels	GCST90199733	16	78841158	C	A	8232	-0.15	0.03	0.00	0.00	32.80
rs116791819	Hyocholate levels	GCST90199734	1	161777251	A	G	5782	0.40	0.09	0.00	0.00	20.39
rs189786260	Hyocholate levels	GCST90199734	3	166636613	A	G	5782	1.00	0.22	0.00	0.00	20.16
rs35345268	Hyocholate levels	GCST90199734	4	180588512	G	A	5782	0.18	0.04	0.00	0.00	19.64
rs72764531	Hyocholate levels	GCST90199734	5	52444459	C	G	5782	-0.40	0.09	0.00	0.00	21.37
rs9405331	Hyocholate levels	GCST90199734	6	7204503	A	G	5782	0.09	0.02	0.00	0.00	23.95
rs12669002	Hyocholate levels	GCST90199734	7	123675168	A	G	5782	0.14	0.03	0.00	0.00	22.99
rs4731730	Hyocholate levels	GCST90199734	7	131005878	C	T	5782	0.08	0.02	0.00	0.00	20.07
rs10263383	Hyocholate levels	GCST90199734	7	141991714	T	C	5782	0.55	0.10	0.00	0.00	28.05
rs117640571	Hyocholate levels	GCST90199734	8	8852949	A	T	5782	0.19	0.04	0.00	0.00	24.69
rs556430423	Hyocholate levels	GCST90199734	9	91792368	C	T	5782	0.28	0.06	0.00	0.00	21.77
rs72764714	Hyocholate levels	GCST90199734	9	115649501	A	G	5782	-0.12	0.03	0.00	0.00	19.55
rs138604147	Hyocholate levels	GCST90199734	10	30651958	C	T	5782	0.41	0.09	0.00	0.00	21.60
rs10998852	Hyocholate levels	GCST90199734	10	69545511	T	C	5782	0.11	0.02	0.00	0.00	19.86
rs10882265	Hyocholate levels	GCST90199734	10	93543277	A	C	5782	0.10	0.02	0.00	0.00	20.08

rs72916458	Hyocholate levels	GCST90199734	11	63043589	C	A	5782	0.43	0.09	0.00	0.00	20.99
rs1018158	Hyocholate levels	GCST90199734	11	99344428	C	T	5782	0.08	0.02	0.00	0.00	19.98
rs4418881	Hyocholate levels	GCST90199734	12	132481480	A	G	5782	-0.09	0.02	0.00	0.00	19.76
rs117017727	Hyocholate levels	GCST90199734	15	80999809	A	G	5782	-0.48	0.11	0.00	0.00	20.14
rs4786487	Hyocholate levels	GCST90199734	16	4390396	C	G	5782	0.10	0.02	0.00	0.00	22.60
rs75929318	Hyocholate levels	GCST90199734	16	5911092	G	C	5782	0.27	0.06	0.00	0.00	21.34
rs9911250	Hyocholate levels	GCST90199734	17	7269200	T	G	5782	0.56	0.12	0.00	0.00	23.08
rs6510071	Hyocholate levels	GCST90199734	19	57451275	G	C	5782	-0.08	0.02	0.00	0.00	19.55
rs149763694	N-acetylhistidine levels	GCST90199735	1	211465780	A	G	7054	-0.27	0.06	0.00	0.00	20.91
rs142619827	N-acetylhistidine levels	GCST90199735	2	37719751	G	A	7054	-0.27	0.06	0.00	0.00	20.31
rs58032747	N-acetylhistidine levels	GCST90199735	2	39662318	A	G	7054	0.54	0.12	0.00	0.00	19.88
rs6546861	N-acetylhistidine levels	GCST90199735	2	73622734	T	C	7054	0.38	0.02	0.00	0.06	445.06
rs13068016	N-acetylhistidine levels	GCST90199735	3	146309548	T	A	7054	-0.09	0.02	0.00	0.00	20.05
rs13059608	N-acetylhistidine levels	GCST90199735	3	156503918	C	A	7054	-0.09	0.02	0.00	0.00	24.52
rs13065347	N-acetylhistidine levels	GCST90199735	3	189142382	C	A	7054	-0.18	0.04	0.00	0.00	21.86
rs10937732	N-acetylhistidine levels	GCST90199735	4	6468334	C	T	7054	0.08	0.02	0.00	0.00	20.35
rs115223886	N-acetylhistidine levels	GCST90199735	5	105232124	A	T	7054	-0.27	0.06	0.00	0.00	20.00
rs12209125	N-acetylhistidine levels	GCST90199735	6	25769561	C	A	7054	-0.10	0.02	0.00	0.01	35.74
rs3798167	N-acetylhistidine levels	GCST90199735	6	160146896	T	G	7054	0.10	0.02	0.00	0.00	23.13
rs75082775	N-acetylhistidine levels	GCST90199735	7	101171479	C	G	7054	0.42	0.04	0.00	0.02	128.89
rs34985488	N-acetylhistidine levels	GCST90199735	7	101174620	G	A	7054	-0.75	0.03	0.00	0.08	580.28
rs147346510	N-acetylhistidine levels	GCST90199735	8	573804	A	G	7054	-0.24	0.05	0.00	0.00	19.89
rs10962477	N-acetylhistidine levels	GCST90199735	9	16538944	T	C	7054	-0.08	0.02	0.00	0.00	19.57
rs117813792	N-acetylhistidine levels	GCST90199735	9	113729402	G	A	7054	-0.30	0.07	0.00	0.00	19.56
rs7108760	N-acetylhistidine levels	GCST90199735	11	67647176	G	A	7054	0.10	0.02	0.00	0.00	22.82
rs79947648	N-acetylhistidine levels	GCST90199735	15	31484791	A	G	7054	0.15	0.04	0.00	0.00	19.52
rs12900591	N-acetylhistidine levels	GCST90199735	15	94989528	G	A	7054	0.10	0.02	0.00	0.00	20.69

rs77924615	N-acetylhistidine levels	GCST90199735	16	20381010	A	G	7054	-0.09	0.02	0.00	0.00	20.16
rs12604641	N-acetylhistidine levels	GCST90199735	18	5631848	C	T	7054	-0.32	0.07	0.00	0.00	22.06
rs118038920	N-acetylhistidine levels	GCST90199735	19	6404665	G	T	7054	0.33	0.07	0.00	0.00	21.38
rs77489325	N-acetylhistidine levels	GCST90199735	20	920391	T	C	7054	-0.13	0.03	0.00	0.00	20.94
rs146663516	N-acetylhistidine levels	GCST90199735	20	36610238	T	C	7054	0.28	0.06	0.00	0.00	22.58
rs149713055	N-acetylhistidine levels	GCST90199735	22	37580569	A	G	7054	-0.34	0.08	0.00	0.00	20.58
rs114874682	Alpha-hydroxyisovalerate levels	GCST90199736	1	118744159	A	T	8208	-0.20	0.04	0.00	0.00	24.66
rs10802092	Alpha-hydroxyisovalerate levels	GCST90199736	1	119392884	T	A	8208	0.17	0.01	0.00	0.02	136.01
rs6696772	Alpha-hydroxyisovalerate levels	GCST90199736	1	203049062	C	G	8208	-0.08	0.02	0.00	0.00	19.74
rs76197763	Alpha-hydroxyisovalerate levels	GCST90199736	2	203371394	G	A	8208	-0.18	0.04	0.00	0.00	20.00
rs142429133	Alpha-hydroxyisovalerate levels	GCST90199736	3	13335739	T	A	8208	0.50	0.11	0.00	0.00	20.54
rs950950	Alpha-hydroxyisovalerate levels	GCST90199736	4	23560039	T	C	8208	0.07	0.01	0.00	0.00	22.29
rs10018448	Alpha-hydroxyisovalerate levels	GCST90199736	4	88304019	G	A	8208	0.09	0.01	0.00	0.00	40.04
rs112297849	Alpha-hydroxyisovalerate levels	GCST90199736	6	35909194	G	A	8208	0.33	0.07	0.00	0.00	19.58
rs10225370	Alpha-hydroxyisovalerate levels	GCST90199736	7	115100848	A	T	8208	-0.10	0.02	0.00	0.00	20.15
rs10808894	Alpha-hydroxyisovalerate levels	GCST90199736	8	48025439	T	A	8208	0.15	0.03	0.00	0.00	19.81
rs186454994	Alpha-hydroxyisovalerate levels	GCST90199736	8	143246678	T	C	8208	0.31	0.07	0.00	0.00	22.09
rs541290556	Alpha-hydroxyisovalerate levels	GCST90199736	10	79505218	T	C	8208	-0.24	0.05	0.00	0.00	19.53
rs1891761	Alpha-hydroxyisovalerate levels	GCST90199736	10	113496381	G	A	8208	-0.07	0.01	0.00	0.00	23.98
rs3802967	Alpha-hydroxyisovalerate levels	GCST90199736	11	18322517	C	T	8208	-0.26	0.01	0.00	0.04	326.91
rs655558	Alpha-hydroxyisovalerate levels	GCST90199736	11	127955217	T	C	8208	-0.07	0.02	0.00	0.00	20.74
rs117055304	Alpha-hydroxyisovalerate levels	GCST90199736	12	61933251	C	T	8208	0.22	0.05	0.00	0.00	21.93
rs2393791	Alpha-hydroxyisovalerate levels	GCST90199736	12	120986153	T	C	8208	-0.12	0.02	0.00	0.01	58.19
rs555068032	Alpha-hydroxyisovalerate levels	GCST90199736	12	127876146	T	C	8208	0.54	0.11	0.00	0.00	25.47

rs28456695	Alpha-hydroxyisovalerate levels	GCST90199736	14	102151115	G	C	8208	0.22	0.05	0.00	0.00	21.67
rs7236320	Alpha-hydroxyisovalerate levels	GCST90199736	18	54807820	A	G	8208	-0.08	0.02	0.00	0.00	21.55
rs165107	Alpha-hydroxyisovalerate levels	GCST90199736	18	77683799	T	G	8208	-0.10	0.02	0.00	0.00	23.13
rs2927480	Alpha-hydroxyisovalerate levels	GCST90199736	19	44834128	C	G	8208	-0.08	0.02	0.00	0.00	25.40
rs6085741	Alpha-hydroxyisovalerate levels	GCST90199736	20	764800	A	C	8208	0.10	0.02	0.00	0.00	29.03
rs113005280	N-acetylproline	GCST90199737	1	238886688	A	G	7100	-0.26	0.06	0.00	0.00	19.63
rs1522591	N-acetylproline	GCST90199737	2	33835037	A	G	7100	0.08	0.02	0.00	0.00	20.74
rs71431011	N-acetylproline	GCST90199737	2	226616939	T	C	7100	-0.17	0.04	0.00	0.00	19.96
rs35190616	N-acetylproline	GCST90199737	3	37904576	T	G	7100	-0.24	0.05	0.00	0.00	22.63
rs2676836	N-acetylproline	GCST90199737	3	195049215	C	T	7100	-0.14	0.03	0.00	0.00	21.87
rs13170951	N-acetylproline	GCST90199737	5	2822845	G	A	7100	-0.08	0.02	0.00	0.00	21.95
rs13237611	N-acetylproline	GCST90199737	7	47844957	G	A	7100	0.08	0.02	0.00	0.00	20.83
rs150618487	N-acetylproline	GCST90199737	8	50924614	A	G	7100	-0.19	0.04	0.00	0.00	20.19
rs7125757	N-acetylproline	GCST90199737	11	18233723	T	C	7100	-0.10	0.02	0.00	0.00	20.26
rs118027917	N-acetylproline	GCST90199737	12	87726721	C	T	7100	-0.24	0.06	0.00	0.00	19.75
rs78421876	N-acetylproline	GCST90199737	14	28267701	T	C	7100	-0.13	0.03	0.00	0.00	23.15
rs945016	N-acetylproline	GCST90199737	14	82833677	A	T	7100	0.10	0.02	0.00	0.00	20.35
rs181243987	N-acetylproline	GCST90199737	16	17469775	C	G	7100	-0.40	0.08	0.00	0.00	23.11
rs7206796	N-acetylproline	GCST90199737	16	56347365	T	C	7100	-0.09	0.02	0.00	0.00	19.65
rs57525550	N-acetylproline	GCST90199737	17	70769811	T	G	7100	0.13	0.03	0.00	0.00	21.84
rs182528317	N-acetylproline	GCST90199737	18	66441566	C	T	7100	-0.47	0.10	0.00	0.00	22.86
rs6065509	N-acetylproline	GCST90199737	20	42545465	C	A	7100	0.08	0.02	0.00	0.00	21.71
rs142565412	N-acetylproline	GCST90199737	21	33223139	A	G	7100	-0.34	0.07	0.00	0.00	22.63
rs2518814	N-acetylproline	GCST90199737	22	18973132	T	C	7100	0.18	0.03	0.00	0.01	38.59
rs5768157	N-acetylproline	GCST90199737	22	47919267	G	A	7100	-0.08	0.02	0.00	0.00	20.46
rs73179601	N-acetylproline	GCST90199737	22	48921930	T	C	7100	-0.13	0.03	0.00	0.00	20.06
rs78360616	Stachydrine levels	GCST90199738	1	116479652	A	G	8297	-0.40	0.09	0.00	0.00	19.87
rs17010827	Stachydrine levels	GCST90199738	2	124077633	T	C	8297	-0.13	0.03	0.00	0.00	19.64
rs72912513	Stachydrine levels	GCST90199738	2	193549240	G	A	8297	0.08	0.02	0.00	0.00	20.06
rs146178519	Stachydrine levels	GCST90199738	4	3849644	A	G	8297	-0.32	0.07	0.00	0.00	20.47
rs111238885	Stachydrine levels	GCST90199738	4	139500698	A	G	8297	0.32	0.07	0.00	0.00	21.97
rs116522067	Stachydrine levels	GCST90199738	5	56626273	T	A	8297	0.30	0.06	0.00	0.00	22.56
rs7789829	Stachydrine levels	GCST90199738	7	14824580	A	T	8297	-0.20	0.04	0.00	0.00	22.93
rs138210559	Stachydrine levels	GCST90199738	7	138699219	G	T	8297	-0.20	0.04	0.00	0.00	23.24

rs4871710	Stachydrine levels	GCST90199738	8	126422152	A	G	8297	-0.18	0.04	0.00	0.00	20.72
rs77149865	Stachydrine levels	GCST90199738	8	130493370	A	G	8297	0.21	0.05	0.00	0.00	21.70
rs10815617	Stachydrine levels	GCST90199738	9	7489047	C	T	8297	0.07	0.02	0.00	0.00	19.79
rs117323470	Stachydrine levels	GCST90199738	9	29886797	C	T	8297	-0.40	0.09	0.00	0.00	19.88
rs17099139	Stachydrine levels	GCST90199738	10	119659975	G	C	8297	-0.08	0.02	0.00	0.00	20.00
rs35295103	Stachydrine levels	GCST90199738	11	35517406	T	C	8297	-0.09	0.02	0.00	0.00	19.62
rs73086173	Stachydrine levels	GCST90199738	12	30067553	T	A	8297	0.29	0.06	0.00	0.00	24.05
rs34630226	Stachydrine levels	GCST90199738	12	76708285	A	C	8297	-0.07	0.02	0.00	0.00	19.61
rs10859531	Stachydrine levels	GCST90199738	12	93564881	G	A	8297	-0.13	0.02	0.00	0.00	25.41
rs12916345	Stachydrine levels	GCST90199738	15	33688079	A	C	8297	0.08	0.02	0.00	0.00	22.85
rs28612374	Stachydrine levels	GCST90199738	15	34714693	G	A	8297	0.11	0.03	0.00	0.00	19.98
rs3131570	Stachydrine levels	GCST90199738	15	50463199	T	C	8297	0.08	0.02	0.00	0.00	20.57
rs4519291	Stachydrine levels	GCST90199738	15	59909075	T	C	8297	0.07	0.02	0.00	0.00	22.74
rs55897641	Stachydrine levels	GCST90199738	17	59093737	C	T	8297	-0.21	0.05	0.00	0.00	20.28
rs115966849	Stachydrine levels	GCST90199738	18	8867033	G	A	8297	-0.30	0.07	0.00	0.00	20.40
rs2617755	Stachydrine levels	GCST90199738	19	53436207	A	T	8297	-0.07	0.02	0.00	0.00	20.78
rs138481335	Stachydrine levels	GCST90199738	19	56268982	C	T	8297	-0.27	0.05	0.00	0.00	24.65
rs78639945	Salicyluric glucuronide levels	GCST90199739	1	110033323	C	T	5190	0.25	0.06	0.00	0.00	19.65
rs16881495	Salicyluric glucuronide levels	GCST90199739	4	11411001	C	T	5190	0.10	0.02	0.00	0.00	21.05
rs17157439	Salicyluric glucuronide levels	GCST90199739	5	105018465	C	T	5190	-0.09	0.02	0.00	0.00	19.63
rs72804625	Salicyluric glucuronide levels	GCST90199739	5	153790203	G	A	5190	-0.25	0.05	0.00	0.00	24.18
rs79109711	Salicyluric glucuronide levels	GCST90199739	5	162223246	A	G	5190	0.12	0.03	0.00	0.00	20.68
rs372901845	Salicyluric glucuronide levels	GCST90199739	6	125702291	A	G	5190	0.56	0.12	0.00	0.00	21.26
rs9298746	Salicyluric glucuronide levels	GCST90199739	9	16168118	G	A	5190	0.09	0.02	0.00	0.00	19.93
rs148763668	Salicyluric glucuronide levels	GCST90199739	9	74330191	A	G	5190	0.51	0.11	0.00	0.00	20.43
rs13295927	Salicyluric glucuronide levels	GCST90199739	9	89117794	C	T	5190	-0.12	0.03	0.00	0.00	20.81
rs77546866	Salicyluric glucuronide levels	GCST90199739	11	85824103	A	T	5190	0.20	0.04	0.00	0.00	20.26
rs71463074	Salicyluric glucuronide levels	GCST90199739	12	20104062	A	G	5190	-0.12	0.03	0.00	0.00	19.85
rs9524410	Salicyluric glucuronide levels	GCST90199739	13	94293431	G	A	5190	0.08	0.02	0.00	0.00	19.53
rs111402024	Salicyluric glucuronide levels	GCST90199739	15	54757209	C	A	5190	-0.49	0.11	0.00	0.00	20.15

rs139099791	Salicyluric glucuronide levels	GCST90199739	16	15429143	G	T	5190	0.36	0.08	0.00	0.00	20.49
rs117198027	Salicyluric glucuronide levels	GCST90199739	19	4208791	T	C	5190	-0.27	0.06	0.00	0.00	22.73
rs138542012	Salicyluric glucuronide levels	GCST90199739	19	38698584	G	A	5190	0.37	0.08	0.00	0.00	19.64
rs55703141	Salicyluric glucuronide levels	GCST90199739	19	47013320	C	G	5190	0.27	0.06	0.00	0.00	22.50
rs2247536	P-cresol sulfate levels	GCST90199740	1	77453753	C	G	8183	0.08	0.02	0.00	0.00	23.44
rs113695269	P-cresol sulfate levels	GCST90199740	1	87539946	T	C	8183	0.08	0.02	0.00	0.00	19.79
rs116599332	P-cresol sulfate levels	GCST90199740	2	2923771	C	T	8183	-0.18	0.04	0.00	0.00	21.96
rs72801275	P-cresol sulfate levels	GCST90199740	2	41743096	G	C	8183	-0.15	0.03	0.00	0.00	21.58
rs78278593	P-cresol sulfate levels	GCST90199740	3	127829574	A	C	8183	-0.25	0.05	0.00	0.00	20.79
rs4602391	P-cresol sulfate levels	GCST90199740	3	164418450	A	T	8183	0.21	0.04	0.00	0.00	21.44
rs546041819	P-cresol sulfate levels	GCST90199740	4	143118550	C	T	8183	-0.34	0.08	0.00	0.00	19.90
rs1385836	P-cresol sulfate levels	GCST90199740	4	174771832	A	G	8183	0.08	0.02	0.00	0.00	20.92
rs7719918	P-cresol sulfate levels	GCST90199740	5	109550554	A	C	8183	-0.15	0.03	0.00	0.00	21.61
rs55796634	P-cresol sulfate levels	GCST90199740	5	150412774	T	C	8183	0.11	0.03	0.00	0.00	19.79
rs2776859	P-cresol sulfate levels	GCST90199740	9	78331375	T	C	8183	0.07	0.02	0.00	0.00	20.21
rs111162487	P-cresol sulfate levels	GCST90199740	9	89370652	T	C	8183	0.09	0.02	0.00	0.00	19.67
rs2091479	P-cresol sulfate levels	GCST90199740	9	130919802	A	G	8183	-0.08	0.02	0.00	0.00	21.30
rs79860030	P-cresol sulfate levels	GCST90199740	11	59775127	T	C	8183	0.28	0.06	0.00	0.00	20.27
rs10846384	P-cresol sulfate levels	GCST90199740	12	16627668	A	G	8183	-0.11	0.02	0.00	0.00	27.14
rs143470418	P-cresol sulfate levels	GCST90199740	13	27395134	G	A	8183	-0.26	0.05	0.00	0.00	23.06
rs7160277	P-cresol sulfate levels	GCST90199740	14	23752401	G	C	8183	-0.09	0.02	0.00	0.00	21.19
rs55916120	P-cresol sulfate levels	GCST90199740	16	3727835	C	T	8183	0.21	0.04	0.00	0.00	20.93
rs13335367	P-cresol sulfate levels	GCST90199740	16	73874160	T	G	8183	-0.31	0.07	0.00	0.00	22.47
rs143734577	P-cresol sulfate levels	GCST90199740	17	31706338	A	G	8183	0.28	0.06	0.00	0.00	20.90
rs79684932	P-cresol sulfate levels	GCST90199740	19	35329599	C	T	8183	0.17	0.04	0.00	0.00	20.11
rs6022123	P-cresol sulfate levels	GCST90199740	20	37972293	T	C	8183	-0.09	0.02	0.00	0.00	19.92
rs113521853	P-cresol sulfate levels	GCST90199740	21	13890810	A	G	8183	-0.18	0.04	0.00	0.00	21.93
rs4646961	Gamma-glutamylglycine levels	GCST90199741	1	75751484	A	G	8263	0.10	0.02	0.00	0.00	38.62
rs4384293	Gamma-glutamylglycine levels	GCST90199741	1	217601660	T	A	8263	0.08	0.02	0.00	0.00	22.09
rs12990953	Gamma-glutamylglycine levels	GCST90199741	2	145050948	A	C	8263	0.12	0.03	0.00	0.00	20.95
rs34284160	Gamma-glutamylglycine levels	GCST90199741	2	209023344	T	C	8263	0.09	0.02	0.00	0.00	20.43
rs1047891	Gamma-glutamylglycine levels	GCST90199741	2	210675783	A	C	8263	0.48	0.02	0.00	0.11	984.11

rs1160700	Gamma-glutamylglycine levels	GCST90199741	3	29718321	A	G	8263	-0.08	0.02	0.00	0.00	24.26
rs1992855	Gamma-glutamylglycine levels	GCST90199741	3	126190826	C	T	8263	0.09	0.02	0.00	0.00	31.45
rs9993597	Gamma-glutamylglycine levels	GCST90199741	4	93878217	T	C	8263	-0.07	0.02	0.00	0.00	21.05
rs60286185	Gamma-glutamylglycine levels	GCST90199741	6	150398606	T	C	8263	-0.11	0.02	0.00	0.00	26.42
rs189240612	Gamma-glutamylglycine levels	GCST90199741	7	16882426	G	T	8263	0.31	0.07	0.00	0.00	19.59
rs6975311	Gamma-glutamylglycine levels	GCST90199741	7	56024013	G	A	8263	0.10	0.02	0.00	0.00	29.67
rs142374014	Gamma-glutamylglycine levels	GCST90199741	7	132313624	C	T	8263	0.31	0.07	0.00	0.00	20.28
rs28601761	Gamma-glutamylglycine levels	GCST90199741	8	125487789	G	C	8263	0.07	0.02	0.00	0.00	22.49
rs2297442	Gamma-glutamylglycine levels	GCST90199741	9	6540540	C	T	8263	-0.10	0.02	0.00	0.00	38.16
rs72704320	Gamma-glutamylglycine levels	GCST90199741	9	8843864	C	G	8263	-0.10	0.02	0.00	0.00	22.65
rs140498610	Gamma-glutamylglycine levels	GCST90199741	9	11247462	T	C	8263	0.27	0.06	0.00	0.00	19.82
rs7084937	Gamma-glutamylglycine levels	GCST90199741	10	82233648	A	G	8263	-0.09	0.02	0.00	0.00	23.29
rs117509869	Gamma-glutamylglycine levels	GCST90199741	11	67147900	C	A	8263	0.17	0.04	0.00	0.00	19.91
rs72933851	Gamma-glutamylglycine levels	GCST90199741	11	69995405	A	G	8263	-0.16	0.04	0.00	0.00	20.58
rs12312144	Gamma-glutamylglycine levels	GCST90199741	12	46698879	A	C	8263	0.09	0.02	0.00	0.00	19.68
rs4773144	Gamma-glutamylglycine levels	GCST90199741	13	110308365	G	A	8263	-0.07	0.01	0.00	0.00	24.64
rs8015056	Gamma-glutamylglycine levels	GCST90199741	14	101283439	C	T	8263	0.07	0.02	0.00	0.00	20.25
rs58281216	Gamma-glutamylglycine levels	GCST90199741	15	96782628	A	C	8263	-0.09	0.02	0.00	0.00	25.17
rs4889235	Gamma-glutamylglycine levels	GCST90199741	16	81110033	A	G	8263	0.15	0.03	0.00	0.00	29.63
rs9909113	Gamma-glutamylglycine levels	GCST90199741	17	52476345	A	T	8263	0.12	0.02	0.00	0.00	22.79
rs34962409	Gamma-glutamylglycine levels	GCST90199741	19	14989265	T	A	8263	-0.07	0.02	0.00	0.00	19.56
rs139785063	Gamma-glutamylglycine levels	GCST90199741	21	18005724	T	C	8263	-0.24	0.05	0.00	0.00	22.48
rs4822523	Gamma-glutamylglycine levels	GCST90199741	22	24615934	T	A	8263	-0.08	0.02	0.00	0.00	24.21
rs77692382	1-linoleoyl-gpc (18:2) levels	GCST90199742	1	39941043	T	C	8262	0.15	0.02	0.00	0.01	70.29
rs72693372	1-linoleoyl-gpc (18:2) levels	GCST90199742	1	106696721	A	G	8262	-0.18	0.04	0.00	0.00	19.91

rs75827837	1-linoleoyl-gpc (18:2) levels	GCST90199742	2	241341393	G	T	8262	-0.33	0.07	0.00	0.00	24.47
rs14523361 5	1-linoleoyl-gpc (18:2) levels	GCST90199742	4	1485166	G	T	8262	0.39	0.08	0.00	0.00	21.00
rs2798231	1-linoleoyl-gpc (18:2) levels	GCST90199742	4	3229246	A	G	8262	-0.09	0.02	0.00	0.00	23.78
rs7669946	1-linoleoyl-gpc (18:2) levels	GCST90199742	4	133256436	A	G	8262	-0.36	0.08	0.00	0.00	19.71
rs603737	1-linoleoyl-gpc (18:2) levels	GCST90199742	6	53481957	A	G	8262	0.08	0.02	0.00	0.00	21.49
rs1911739	1-linoleoyl-gpc (18:2) levels	GCST90199742	6	105761698	T	C	8262	0.12	0.03	0.00	0.00	20.30
rs11794016 5	1-linoleoyl-gpc (18:2) levels	GCST90199742	7	8713549	G	T	8262	0.28	0.06	0.00	0.00	20.64
rs7813127	1-linoleoyl-gpc (18:2) levels	GCST90199742	8	6522591	C	T	8262	-0.11	0.03	0.00	0.00	19.64
rs14038692 1	1-linoleoyl-gpc (18:2) levels	GCST90199742	8	43570904	T	C	8262	-0.22	0.05	0.00	0.00	20.48
rs13253349	1-linoleoyl-gpc (18:2) levels	GCST90199742	8	58411926	A	G	8262	-0.08	0.02	0.00	0.00	23.61
rs75713974	1-linoleoyl-gpc (18:2) levels	GCST90199742	9	9496882	C	T	8262	0.20	0.04	0.00	0.00	20.06
rs72781626	1-linoleoyl-gpc (18:2) levels	GCST90199742	10	34695570	T	C	8262	-0.31	0.07	0.00	0.00	19.96
rs14101876 4	1-linoleoyl-gpc (18:2) levels	GCST90199742	10	49805687	T	C	8262	-0.32	0.07	0.00	0.00	22.82
rs391561	1-linoleoyl-gpc (18:2) levels	GCST90199742	11	8246874	C	G	8262	0.07	0.02	0.00	0.00	20.60
rs174546	1-linoleoyl-gpc (18:2) levels	GCST90199742	11	61802358	T	C	8262	0.13	0.02	0.00	0.01	64.49
rs4931585	1-linoleoyl-gpc (18:2) levels	GCST90199742	12	31964451	T	A	8262	0.07	0.02	0.00	0.00	20.16
rs11714531 8	1-linoleoyl-gpc (18:2) levels	GCST90199742	12	109791629	A	C	8262	0.19	0.04	0.00	0.00	20.69
rs494342	1-linoleoyl-gpc (18:2) levels	GCST90199742	13	55994104	A	T	8262	0.09	0.02	0.00	0.00	26.43
rs61958162	1-linoleoyl-gpc (18:2) levels	GCST90199742	13	112225406	A	G	8262	-0.34	0.08	0.00	0.00	19.62
rs1461556	1-linoleoyl-gpc (18:2) levels	GCST90199742	14	25221950	G	A	8262	0.08	0.02	0.00	0.00	20.80
rs4144431	1-linoleoyl-gpc (18:2) levels	GCST90199742	14	51283745	A	G	8262	0.07	0.02	0.00	0.00	20.54
rs14396198 0	1-linoleoyl-gpc (18:2) levels	GCST90199742	14	80907515	A	G	8262	0.23	0.05	0.00	0.00	22.64
rs1532625	1-linoleoyl-gpc (18:2) levels	GCST90199742	16	56971389	T	C	8262	0.07	0.02	0.00	0.00	20.29
rs19291472 5	1-linoleoyl-gpc (18:2) levels	GCST90199742	18	78979652	G	C	8262	-0.23	0.05	0.00	0.00	20.17
rs6514277	1-linoleoyl-gpc (18:2) levels	GCST90199742	20	1313787	A	C	8262	0.09	0.02	0.00	0.00	21.14
rs77087491	1-linoleoyl-gpc (18:2) levels	GCST90199742	20	21594582	A	G	8262	0.17	0.04	0.00	0.00	20.28
rs14114664 9	1-linoleoyl-gpc (18:2) levels	GCST90199742	20	41393231	A	G	8262	-0.55	0.11	0.00	0.00	23.28
rs11702737	1-linoleoyl-gpc (18:2) levels	GCST90199742	21	18159565	C	T	8262	-0.08	0.02	0.00	0.00	19.56
rs61781291	Stearoylcarniti ne levels	GCST90199743	1	39936166	A	T	8133	0.12	0.02	0.00	0.01	44.67
rs1799822	Stearoylcarniti ne levels	GCST90199743	1	53213557	G	A	8133	0.08	0.02	0.00	0.00	20.45
rs34420029	Stearoylcarniti ne levels	GCST90199743	1	215745500	C	T	8133	-0.07	0.02	0.00	0.00	19.92
rs18866341 6	Stearoylcarniti ne levels	GCST90199743	2	71560389	C	G	8133	-0.42	0.09	0.00	0.00	20.82
rs14948521 5	Stearoylcarniti ne levels	GCST90199743	3	24699479	C	G	8133	-0.14	0.03	0.00	0.00	20.62
rs14255203 9	Stearoylcarniti ne levels	GCST90199743	3	176679137	T	C	8133	-0.25	0.05	0.00	0.00	20.59
rs17621384	Stearoylcarniti ne levels	GCST90199743	4	23061880	G	C	8133	0.07	0.02	0.00	0.00	20.27
rs6832951	Stearoylcarniti ne levels	GCST90199743	4	82635553	G	A	8133	0.11	0.02	0.00	0.00	30.86
rs11509985 5	Stearoylcarniti ne levels	GCST90199743	4	148978441	A	G	8133	-0.19	0.04	0.00	0.00	20.99

rs388891	Stearoylcarnitine levels	GCST90199743	5	132365102	G	C	8133	-0.14	0.02	0.00	0.01	71.80
rs12210538	Stearoylcarnitine levels	GCST90199743	6	110438805	G	A	8133	-0.20	0.02	0.00	0.02	133.05
rs35536361	Stearoylcarnitine levels	GCST90199743	7	123284389	G	A	8133	-0.14	0.03	0.00	0.00	22.34
rs10957053	Stearoylcarnitine levels	GCST90199743	8	58401127	T	C	8133	-0.09	0.02	0.00	0.00	21.23
rs13042	Stearoylcarnitine levels	GCST90199743	8	86472684	A	G	8133	0.08	0.02	0.00	0.00	21.58
rs12356193	Stearoylcarnitine levels	GCST90199743	10	59653595	G	A	8133	-0.10	0.02	0.00	0.00	24.21
rs603424	Stearoylcarnitine levels	GCST90199743	10	100315722	A	G	8133	0.10	0.02	0.00	0.00	26.49
rs174544	Stearoylcarnitine levels	GCST90199743	11	61800281	A	C	8133	-0.08	0.02	0.00	0.00	25.05
rs77759872	Stearoylcarnitine levels	GCST90199743	13	52764924	A	T	8133	0.11	0.02	0.00	0.00	22.34
rs4923689	Stearoylcarnitine levels	GCST90199743	15	35693487	A	G	8133	-0.09	0.02	0.00	0.00	21.94
rs12591332	Stearoylcarnitine levels	GCST90199743	15	100299689	C	T	8133	0.15	0.03	0.00	0.00	20.22
rs113012216	Stearoylcarnitine levels	GCST90199743	18	548673	C	G	8133	0.18	0.04	0.00	0.00	21.49
rs74714644	Stearoylcarnitine levels	GCST90199743	18	40568868	A	G	8133	0.30	0.07	0.00	0.00	20.51
rs74748720	Stearoylcarnitine levels	GCST90199743	20	63697813	T	C	8133	-0.23	0.05	0.00	0.00	26.49
rs6701819	Eicosenoate (20:1) levels	GCST90199744	1	151568686	T	G	8277	-0.13	0.03	0.00	0.00	23.04
rs35501034	Eicosenoate (20:1) levels	GCST90199744	1	157929534	T	C	8277	0.11	0.02	0.00	0.00	22.76
rs4233731	Eicosenoate (20:1) levels	GCST90199744	2	28938144	A	G	8277	-0.14	0.03	0.00	0.00	20.04
rs12497825	Eicosenoate (20:1) levels	GCST90199744	3	47628057	T	A	8277	-0.08	0.02	0.00	0.00	26.51
rs9861822	Eicosenoate (20:1) levels	GCST90199744	3	116887001	T	A	8277	-0.29	0.06	0.00	0.00	21.19
rs13148391	Eicosenoate (20:1) levels	GCST90199744	4	16112477	T	C	8277	0.08	0.02	0.00	0.00	20.39
rs78685519	Eicosenoate (20:1) levels	GCST90199744	4	48024799	T	G	8277	0.09	0.02	0.00	0.00	19.94
rs113787886	Eicosenoate (20:1) levels	GCST90199744	4	76938990	T	C	8277	-0.15	0.03	0.00	0.00	21.48
rs78525462	Eicosenoate (20:1) levels	GCST90199744	4	156767118	C	T	8277	-0.13	0.03	0.00	0.00	20.34
rs76646409	Eicosenoate (20:1) levels	GCST90199744	4	185629591	A	C	8277	-0.12	0.03	0.00	0.00	19.93
rs150621	Eicosenoate (20:1) levels	GCST90199744	5	37284624	G	A	8277	0.07	0.02	0.00	0.00	21.62
rs78657232	Eicosenoate (20:1) levels	GCST90199744	5	96802273	G	T	8277	-0.20	0.04	0.00	0.00	22.54
rs539570	Eicosenoate (20:1) levels	GCST90199744	6	23950678	T	C	8277	0.08	0.02	0.00	0.00	20.48
rs139278946	Eicosenoate (20:1) levels	GCST90199744	7	96776335	A	T	8277	-0.22	0.05	0.00	0.00	21.59
rs1873896	Eicosenoate (20:1) levels	GCST90199744	9	14183425	G	A	8277	-0.11	0.02	0.00	0.00	23.71
rs79819765	Eicosenoate (20:1) levels	GCST90199744	9	33332045	A	G	8277	0.23	0.05	0.00	0.00	21.41
rs75010240	Eicosenoate (20:1) levels	GCST90199744	9	76835662	G	C	8277	0.10	0.02	0.00	0.00	19.80
rs10993729	Eicosenoate (20:1) levels	GCST90199744	9	90861059	T	A	8277	0.11	0.02	0.00	0.00	21.29
rs79950608	Eicosenoate (20:1) levels	GCST90199744	9	110873692	T	C	8277	0.17	0.04	0.00	0.00	21.18
rs115686018	Eicosenoate (20:1) levels	GCST90199744	14	32563319	A	G	8277	0.15	0.03	0.00	0.00	19.82
rs61983178	Eicosenoate (20:1) levels	GCST90199744	14	84488979	G	A	8277	-0.14	0.03	0.00	0.00	20.74
rs111949383	Eicosenoate (20:1) levels	GCST90199744	19	56248371	G	C	8277	-0.15	0.03	0.00	0.00	22.50
rs182804848	Eicosenoate (20:1) levels	GCST90199744	20	26309659	C	T	8277	-0.56	0.12	0.00	0.00	21.06

rs9442514	Aconitate [cis or trans] levels	GCST90199745	1	9295877	T	G	8262	-0.08	0.02	0.00	0.00	21.04
rs60720023	Aconitate [cis or trans] levels	GCST90199745	1	58351813	T	G	8262	-0.08	0.02	0.00	0.00	22.33
rs6696988	Aconitate [cis or trans] levels	GCST90199745	1	97293840	T	C	8262	0.18	0.04	0.00	0.00	21.86
rs74921091	Aconitate [cis or trans] levels	GCST90199745	1	221445673	A	G	8262	-0.21	0.04	0.00	0.00	25.99
rs140657214	Aconitate [cis or trans] levels	GCST90199745	2	10518902	T	G	8262	0.45	0.10	0.00	0.00	20.66
rs2241978	Aconitate [cis or trans] levels	GCST90199745	2	113196429	G	A	8262	-0.07	0.01	0.00	0.00	22.31
rs150384494	Aconitate [cis or trans] levels	GCST90199745	2	151057909	A	T	8262	0.21	0.04	0.00	0.00	23.36
rs77371432	Aconitate [cis or trans] levels	GCST90199745	2	211493056	A	G	8262	0.12	0.03	0.00	0.00	21.42
rs114248155	Aconitate [cis or trans] levels	GCST90199745	3	29415561	G	A	8262	0.24	0.05	0.00	0.00	21.03
rs17250977	Aconitate [cis or trans] levels	GCST90199745	5	14753636	G	A	8262	-0.16	0.04	0.00	0.00	20.45
rs835157	Aconitate [cis or trans] levels	GCST90199745	5	14874424	C	T	8262	-0.07	0.01	0.00	0.00	20.69
rs55659629	Aconitate [cis or trans] levels	GCST90199745	5	77997018	A	T	8262	-0.08	0.02	0.00	0.00	20.21
rs137889685	Aconitate [cis or trans] levels	GCST90199745	6	114845601	C	G	8262	-0.42	0.09	0.00	0.00	20.41
rs7824084	Aconitate [cis or trans] levels	GCST90199745	8	13126334	T	C	8262	0.14	0.03	0.00	0.00	19.84
rs78494692	Aconitate [cis or trans] levels	GCST90199745	8	98165634	A	C	8262	0.14	0.03	0.00	0.00	19.78
rs943329	Aconitate [cis or trans] levels	GCST90199745	10	17980946	G	T	8262	0.06	0.01	0.00	0.00	19.55
rs7995121	Aconitate [cis or trans] levels	GCST90199745	13	18881817	A	G	8262	0.10	0.02	0.00	0.00	22.71
rs142657783	Aconitate [cis or trans] levels	GCST90199745	13	70583480	C	T	8262	0.24	0.05	0.00	0.00	23.28
rs218666	Aconitate [cis or trans] levels	GCST90199745	17	6715791	G	A	8262	0.08	0.02	0.00	0.00	27.77
rs8066321	Aconitate [cis or trans] levels	GCST90199745	17	16982909	C	T	8262	0.08	0.02	0.00	0.00	20.80
rs138826414	Aconitate [cis or trans] levels	GCST90199745	18	78977595	C	G	8262	-0.24	0.05	0.00	0.00	21.27
rs117688292	Aconitate [cis or trans] levels	GCST90199745	20	43162294	A	G	8262	0.28	0.06	0.00	0.00	21.33
rs807666	Aconitate [cis or trans] levels	GCST90199745	22	19173036	T	C	8262	-0.09	0.01	0.00	0.00	34.38
rs190697977	Aconitate [cis or trans] levels	GCST90199745	22	20480854	T	C	8262	0.22	0.05	0.00	0.00	20.75
rs958514	Erythronate levels	GCST90199746	1	104648425	T	A	8198	-0.12	0.03	0.00	0.00	20.45
rs114262076	Erythronate levels	GCST90199746	1	220125731	A	G	8198	0.39	0.07	0.00	0.00	28.60
rs73840299	Erythronate levels	GCST90199746	3	53243047	T	C	8198	-0.21	0.02	0.00	0.01	96.85
rs12633047	Erythronate levels	GCST90199746	3	53359817	T	C	8198	0.19	0.03	0.00	0.01	49.46
rs7635991	Erythronate levels	GCST90199746	3	194181995	C	T	8198	0.09	0.02	0.00	0.00	27.20
rs146001245	Erythronate levels	GCST90199746	4	26551876	A	G	8198	0.10	0.02	0.00	0.00	21.44
rs10020341	Erythronate levels	GCST90199746	4	40249848	G	A	8198	-0.23	0.05	0.00	0.00	19.93
rs10029860	Erythronate levels	GCST90199746	4	76489948	A	C	8198	0.08	0.01	0.00	0.00	30.44
rs13166782	Erythronate levels	GCST90199746	5	24949891	C	T	8198	-0.07	0.02	0.00	0.00	20.34
rs191724608	Erythronate levels	GCST90199746	5	103593775	A	T	8198	-0.23	0.05	0.00	0.00	20.81
rs77475145	Erythronate levels	GCST90199746	5	123860077	G	C	8198	-0.13	0.03	0.00	0.00	21.50
rs62390644	Erythronate levels	GCST90199746	6	1644735	T	C	8198	-0.08	0.02	0.00	0.00	20.40
rs13192355	Erythronate levels	GCST90199746	6	29954086	C	T	8198	-0.07	0.02	0.00	0.00	22.95

rs1466648	Erythronate levels	GCST90199746	6	156953665	G	A	8198	0.07	0.02	0.00	0.00	20.45
rs2555059	Erythronate levels	GCST90199746	9	90367061	A	G	8198	-0.08	0.02	0.00	0.00	22.27
rs75562012	Erythronate levels	GCST90199746	11	24748941	G	T	8198	0.25	0.06	0.00	0.00	20.18
rs1077697	Erythronate levels	GCST90199746	14	90676435	T	C	8198	0.09	0.02	0.00	0.00	30.40
rs7203642	Erythronate levels	GCST90199746	16	20355808	G	A	8198	-0.10	0.02	0.00	0.00	29.05
rs34105328	Erythronate levels	GCST90199746	16	30515476	T	C	8198	-0.29	0.06	0.00	0.00	20.59
rs2232511	Erythronate levels	GCST90199746	19	32355132	G	C	8198	0.23	0.05	0.00	0.00	24.06
rs4666393	Isovalerylcarnitine (C5)	GCST90199747	2	20431090	C	T	8266	-0.08	0.02	0.00	0.00	20.02
rs6749227	Isovalerylcarnitine (C5)	GCST90199747	2	36918609	C	T	8266	0.13	0.03	0.00	0.00	22.47
rs36113945	Isovalerylcarnitine (C5)	GCST90199747	3	83916166	C	A	8266	-0.09	0.02	0.00	0.00	22.05
rs79211833	Isovalerylcarnitine (C5)	GCST90199747	4	21758968	C	T	8266	-0.11	0.02	0.00	0.00	19.53
rs140582732	Isovalerylcarnitine (C5)	GCST90199747	5	32296830	T	C	8266	-0.25	0.06	0.00	0.00	19.80
rs7707728	Isovalerylcarnitine (C5)	GCST90199747	5	123969205	T	C	8266	0.12	0.02	0.00	0.00	26.73
rs273900	Isovalerylcarnitine (C5)	GCST90199747	5	132358913	A	G	8266	-0.18	0.02	0.00	0.02	140.65
rs12112191	Isovalerylcarnitine (C5)	GCST90199747	7	97938592	G	A	8266	0.10	0.02	0.00	0.00	19.77
rs80329585	Isovalerylcarnitine (C5)	GCST90199747	8	33912188	C	A	8266	-0.34	0.07	0.00	0.00	23.47
rs62525488	Isovalerylcarnitine (C5)	GCST90199747	8	103273961	G	A	8266	0.19	0.04	0.00	0.00	21.68
rs55665473	Isovalerylcarnitine (C5)	GCST90199747	10	45526557	A	G	8266	-0.08	0.02	0.00	0.00	20.71
rs1171616	Isovalerylcarnitine (C5)	GCST90199747	10	59708831	T	G	8266	0.10	0.02	0.00	0.00	31.25
rs117793326	Isovalerylcarnitine (C5)	GCST90199747	11	21075797	G	A	8266	0.28	0.06	0.00	0.00	19.64
rs34708625	Isovalerylcarnitine (C5)	GCST90199747	12	120742216	C	T	8266	0.10	0.02	0.00	0.00	37.57
rs117747447	Isovalerylcarnitine (C5)	GCST90199747	13	22547750	C	G	8266	-0.22	0.05	0.00	0.00	20.06
rs192431765	Isovalerylcarnitine (C5)	GCST90199747	13	98287262	C	G	8266	0.45	0.08	0.00	0.00	28.61
rs2289329	Isovalerylcarnitine (C5)	GCST90199747	15	40412960	C	T	8266	-0.17	0.02	0.00	0.02	126.06
rs1801591	Isovalerylcarnitine (C5)	GCST90199747	15	76286421	A	G	8266	0.12	0.03	0.00	0.00	20.58
rs117855554	Isovalerylcarnitine (C5)	GCST90199747	16	81257296	T	G	8266	-0.17	0.04	0.00	0.00	20.02
rs149719179	Isovalerylcarnitine (C5)	GCST90199747	17	6289906	C	A	8266	0.27	0.06	0.00	0.00	20.24
rs74759468	Isovalerylcarnitine (C5)	GCST90199747	17	41649396	T	C	8266	0.27	0.06	0.00	0.00	20.27
rs143854855	Isovalerylcarnitine (C5)	GCST90199747	17	53582635	T	A	8266	-0.21	0.05	0.00	0.00	19.90
rs11152173	Isovalerylcarnitine (C5)	GCST90199747	18	59711296	T	C	8266	-0.07	0.02	0.00	0.00	20.06
rs144720400	Isovalerylcarnitine (C5)	GCST90199747	19	19161106	T	C	8266	0.34	0.08	0.00	0.00	19.87
rs118170877	Isovalerylcarnitine (C5)	GCST90199747	21	18108343	G	A	8266	0.30	0.06	0.00	0.00	23.92
rs9976940	Isovalerylcarnitine (C5)	GCST90199747	21	23525820	G	C	8266	-0.15	0.03	0.00	0.00	19.98
rs10888422	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	1	151572020	A	G	8257	-0.13	0.03	0.00	0.00	24.39

rs112855749	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	2	227407375	T	C	8257	-0.19	0.04	0.00	0.00	20.58
rs9859469	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	3	1526742	A	G	8257	-0.11	0.02	0.00	0.00	20.25
rs139264311	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	3	19751997	G	A	8257	-0.23	0.05	0.00	0.00	20.49
rs11709316	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	3	71917597	T	C	8257	-0.28	0.06	0.00	0.00	20.31
rs12504891	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	4	30032608	C	T	8257	-0.09	0.02	0.00	0.00	23.26
rs116530753	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	4	156785921	A	G	8257	-0.16	0.03	0.00	0.00	22.08
rs77207094	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	5	11520799	C	T	8257	-0.25	0.05	0.00	0.00	20.81
rs114414442	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	5	21817138	G	A	8257	-0.14	0.03	0.00	0.00	19.66
rs7803343	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	7	10226349	A	G	8257	-0.08	0.02	0.00	0.00	21.48
rs117966847	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	8	81655670	A	G	8257	-0.22	0.04	0.00	0.00	26.51
rs79031309	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	8	122842599	T	C	8257	-0.40	0.09	0.00	0.00	20.27
rs13285116	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	9	18303982	T	A	8257	0.17	0.04	0.00	0.00	19.93
rs6476144	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	9	29555222	G	C	8257	0.08	0.02	0.00	0.00	20.40
rs7046078	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	9	111824866	G	A	8257	0.07	0.02	0.00	0.00	19.81

rs58797085	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	10	128246343	C	T	8257	-0.08	0.02	0.00	0.00	23.03
rs117332859	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	11	9551285	A	G	8257	0.42	0.08	0.00	0.00	26.39
rs3088357	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	11	114250570	T	C	8257	0.36	0.08	0.00	0.00	21.96
rs2281810	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	13	42887507	G	A	8257	0.07	0.02	0.00	0.00	19.70
rs117428363	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	16	86153053	A	G	8257	-0.24	0.05	0.00	0.00	23.89
rs111949383	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	19	56248371	G	C	8257	-0.14	0.03	0.00	0.00	20.18
rs75168972	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	20	14105291	A	G	8257	-0.17	0.04	0.00	0.00	22.56
rs566623596	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	20	26237585	C	T	8257	-0.53	0.12	0.00	0.00	20.38
rs80053496	Linolenate [alpha or gamma; (18:3n3 or 6)] levels	GCST90199748	21	39201944	A	G	8257	-0.24	0.05	0.00	0.00	21.20
rs17712208	Gamma- glutamylthreo nine levels	GCST90199749	1	213977102	A	T	8231	0.23	0.05	0.00	0.00	24.28
rs61855713	Gamma- glutamylthreo nine levels	GCST90199749	1	247872412	C	T	8231	-0.09	0.02	0.00	0.00	19.64
rs1260326	Gamma- glutamylthreo nine levels	GCST90199749	2	27508073	C	T	8231	0.11	0.02	0.00	0.01	45.16
rs2278594	Gamma- glutamylthreo nine levels	GCST90199749	2	42116497	A	G	8231	0.10	0.02	0.00	0.00	21.18
rs2045005	Gamma- glutamylthreo nine levels	GCST90199749	2	50138650	C	T	8231	0.08	0.02	0.00	0.00	20.56
rs116178917	Gamma- glutamylthreo nine levels	GCST90199749	2	182663043	G	A	8231	-0.29	0.06	0.00	0.00	23.48
rs715	Gamma- glutamylthreo nine levels	GCST90199749	2	210678331	C	T	8231	-0.08	0.02	0.00	0.00	21.70
rs60623312	Gamma- glutamylthreo nine levels	GCST90199749	3	13171408	C	T	8231	0.09	0.02	0.00	0.00	20.18
rs6442658	Gamma- glutamylthreo nine levels	GCST90199749	3	16996377	T	C	8231	-0.09	0.02	0.00	0.00	20.26

rs6803925	Gamma-glutamylthreonine levels	GCST90199749	3	184879408	A	G	8231	-0.10	0.02	0.00	0.00	20.35
rs150686451	Gamma-glutamylthreonine levels	GCST90199749	4	26329265	C	T	8231	0.24	0.05	0.00	0.00	20.68
rs72617428	Gamma-glutamylthreonine levels	GCST90199749	4	145956310	T	C	8231	0.18	0.04	0.00	0.00	21.47
rs148435580	Gamma-glutamylthreonine levels	GCST90199749	6	17118252	T	G	8231	-0.46	0.10	0.00	0.00	20.42
rs9358451	Gamma-glutamylthreonine levels	GCST90199749	6	21756940	G	T	8231	0.08	0.02	0.00	0.00	21.95
rs17220730	Gamma-glutamylthreonine levels	GCST90199749	6	33029773	T	G	8231	0.25	0.06	0.00	0.00	19.75
rs72926885	Gamma-glutamylthreonine levels	GCST90199749	6	96999912	T	C	8231	0.28	0.06	0.00	0.00	20.01
rs143749406	Gamma-glutamylthreonine levels	GCST90199749	6	105339764	A	G	8231	0.30	0.06	0.00	0.00	22.99
rs79787332	Gamma-glutamylthreonine levels	GCST90199749	7	81437154	T	G	8231	-0.15	0.03	0.00	0.00	22.95
rs7838234	Gamma-glutamylthreonine levels	GCST90199749	8	3097459	C	G	8231	0.20	0.04	0.00	0.00	25.75
rs60218157	Gamma-glutamylthreonine levels	GCST90199749	8	17566666	C	A	8231	0.22	0.05	0.00	0.00	19.65
rs117736089	Gamma-glutamylthreonine levels	GCST90199749	8	125681741	A	G	8231	-0.22	0.05	0.00	0.00	23.25
rs150097785	Gamma-glutamylthreonine levels	GCST90199749	9	20955948	T	C	8231	0.37	0.08	0.00	0.00	20.48
rs72764864	Gamma-glutamylthreonine levels	GCST90199749	9	133974542	A	G	8231	0.10	0.02	0.00	0.00	21.22
rs2339400	Gamma-glutamylthreonine levels	GCST90199749	10	50381984	C	T	8231	-0.07	0.02	0.00	0.00	20.27
rs10999095	Gamma-glutamylthreonine levels	GCST90199749	10	70036860	A	G	8231	0.08	0.02	0.00	0.00	20.00
rs7944761	Gamma-glutamylthreonine levels	GCST90199749	11	1383608	T	C	8231	-0.07	0.02	0.00	0.00	21.35
rs10838549	Gamma-glutamylthreonine levels	GCST90199749	11	5697998	C	A	8231	0.08	0.02	0.00	0.00	20.46
rs7103522	Gamma-glutamylthreonine levels	GCST90199749	11	99638444	A	T	8231	0.17	0.04	0.00	0.00	21.19
rs140584644	Gamma-glutamylthreonine levels	GCST90199749	12	25274244	T	C	8231	-0.08	0.02	0.00	0.00	19.55
rs4291756	Gamma-glutamylthreonine levels	GCST90199749	12	46992289	A	C	8231	0.09	0.02	0.00	0.00	24.05
rs57241318	Gamma-glutamylthreonine levels	GCST90199749	12	49320056	T	C	8231	-0.09	0.02	0.00	0.00	20.83
rs74095612	Gamma-glutamylthreonine levels	GCST90199749	12	59576551	T	C	8231	0.11	0.02	0.00	0.00	21.20
rs28592972	Gamma-glutamylthreonine levels	GCST90199749	14	21061988	G	T	8231	0.39	0.08	0.00	0.00	21.70

rs18178554 6	Gamma-glutamylthreonine levels	GCST90199749	14	28668373	C	A	8231	-0.24	0.05	0.00	0.00	22.79
rs28558748	Gamma-glutamylthreonine levels	GCST90199749	15	95969276	A	G	8231	0.30	0.07	0.00	0.00	19.64
rs11732232 4	Gamma-glutamylthreonine levels	GCST90199749	18	9770328	T	C	8231	-0.25	0.06	0.00	0.00	19.71
rs14766284 4	Gamma-glutamylthreonine levels	GCST90199749	18	48127587	A	G	8231	-0.49	0.11	0.00	0.00	21.37
rs5760551	Gamma-glutamylthreonine levels	GCST90199749	22	24675630	G	A	8231	0.07	0.02	0.00	0.00	22.12
rs11419335 6	Gamma-glutamylthreonine levels	GCST90199749	22	44412032	A	G	8231	-0.33	0.07	0.00	0.00	20.12
rs75690409	Laurylcarnitine levels	GCST90199750	1	9468265	G	A	8241	0.26	0.06	0.00	0.00	19.74
rs4666155	Laurylcarnitine levels	GCST90199750	2	28973683	T	C	8241	0.10	0.02	0.00	0.00	23.14
rs3772298	Laurylcarnitine levels	GCST90199750	3	1324709	C	T	8241	-0.09	0.02	0.00	0.00	21.53
rs2385919	Laurylcarnitine levels	GCST90199750	4	8079536	C	G	8241	0.31	0.07	0.00	0.00	21.87
rs62302032	Laurylcarnitine levels	GCST90199750	4	36913032	C	T	8241	-0.07	0.02	0.00	0.00	21.66
rs57859635	Laurylcarnitine levels	GCST90199750	4	111906965	T	A	8241	-0.36	0.08	0.00	0.00	20.85
rs17843966	Laurylcarnitine levels	GCST90199750	4	158708662	C	A	8241	-0.09	0.02	0.00	0.00	29.77
rs9312606	Laurylcarnitine levels	GCST90199750	4	176549545	T	C	8241	-0.07	0.02	0.00	0.00	21.57
rs6886492	Laurylcarnitine levels	GCST90199750	5	69129872	G	A	8241	-0.09	0.02	0.00	0.00	20.00
rs56083751	Laurylcarnitine levels	GCST90199750	5	132328945	A	T	8241	-0.07	0.01	0.00	0.00	22.87
rs74823953	Laurylcarnitine levels	GCST90199750	5	151300049	T	C	8241	-0.30	0.07	0.00	0.00	20.06
rs6939506	Laurylcarnitine levels	GCST90199750	6	79397275	T	G	8241	0.13	0.03	0.00	0.00	22.95
rs4725442	Laurylcarnitine levels	GCST90199750	7	151997577	G	A	8241	0.08	0.02	0.00	0.00	20.48
rs14472459 6	Laurylcarnitine levels	GCST90199750	8	104841775	T	C	8241	0.43	0.09	0.00	0.00	22.85
rs72729570	Laurylcarnitine levels	GCST90199750	8	133118187	A	G	8241	-0.19	0.04	0.00	0.00	20.43
rs13292688	Laurylcarnitine levels	GCST90199750	9	11062270	G	T	8241	0.19	0.04	0.00	0.00	21.50
rs11699421 3	Laurylcarnitine levels	GCST90199750	9	78894851	C	T	8241	-0.25	0.06	0.00	0.00	19.81
rs74533261	Laurylcarnitine levels	GCST90199750	10	62389753	A	G	8241	0.46	0.10	0.00	0.00	19.86
rs11222570 8	Laurylcarnitine levels	GCST90199750	10	76947285	T	C	8241	0.22	0.05	0.00	0.00	20.83
rs1670008	Laurylcarnitine levels	GCST90199750	10	105042471	C	G	8241	-0.08	0.02	0.00	0.00	26.34
rs14188283 9	Laurylcarnitine levels	GCST90199750	11	7573189	A	G	8241	0.23	0.05	0.00	0.00	23.29
rs11126907 1	Laurylcarnitine levels	GCST90199750	11	98016962	C	T	8241	0.14	0.03	0.00	0.00	21.38
rs4964471	Laurylcarnitine levels	GCST90199750	12	106585970	C	T	8241	0.10	0.02	0.00	0.00	19.67
rs11790571 0	Laurylcarnitine levels	GCST90199750	13	21739997	T	G	8241	-0.21	0.05	0.00	0.00	20.53
rs17643150	Laurylcarnitine levels	GCST90199750	13	91387826	A	G	8241	-0.18	0.04	0.00	0.00	20.11
rs924135	Laurylcarnitine levels	GCST90199750	16	16029602	T	A	8241	0.10	0.02	0.00	0.00	38.11
rs11686807 0	Laurylcarnitine levels	GCST90199750	17	20563024	C	T	8241	0.21	0.05	0.00	0.00	20.18
rs14934069 6	Laurylcarnitine levels	GCST90199750	18	21339055	T	C	8241	-0.42	0.08	0.00	0.00	26.92

rs34784622	Laurylcarnitine levels Gamma-	GCST90199750	18	61527996	T	C	8241	-0.26	0.06	0.00	0.00	19.51
rs72663011	glutamylmethionine levels Gamma-	GCST90199751	1	20176333	A	G	8237	0.45	0.09	0.00	0.00	24.23
rs76642169	glutamylmethionine levels Gamma-	GCST90199751	1	34212439	G	T	8237	-0.32	0.07	0.00	0.00	23.79
rs41313373	glutamylmethionine levels Gamma-	GCST90199751	1	92474854	T	C	8237	0.11	0.02	0.00	0.00	20.53
rs149469557	glutamylmethionine levels Gamma-	GCST90199751	1	118704964	G	T	8237	0.15	0.03	0.00	0.00	20.43
rs16850697	glutamylmethionine levels Gamma-	GCST90199751	1	177047693	G	T	8237	-0.16	0.03	0.00	0.00	21.98
rs3120771	glutamylmethionine levels Gamma-	GCST90199751	1	211191859	C	T	8237	0.08	0.02	0.00	0.00	20.55
rs780094	glutamylmethionine levels Gamma-	GCST90199751	2	27518370	C	T	8237	0.08	0.02	0.00	0.00	23.08
rs4952444	glutamylmethionine levels Gamma-	GCST90199751	2	41195528	C	T	8237	-0.08	0.02	0.00	0.00	21.33
rs116308022	glutamylmethionine levels Gamma-	GCST90199751	2	63682632	A	T	8237	0.32	0.07	0.00	0.00	21.70
rs34540037	glutamylmethionine levels Gamma-	GCST90199751	3	116893197	A	G	8237	-0.08	0.02	0.00	0.00	24.07
rs113061228	glutamylmethionine levels Gamma-	GCST90199751	4	39065232	G	A	8237	0.24	0.05	0.00	0.00	20.31
rs6596506	glutamylmethionine levels Gamma-	GCST90199751	5	102545676	T	A	8237	0.08	0.02	0.00	0.00	20.11
rs140284812	glutamylmethionine levels Gamma-	GCST90199751	8	9559177	A	C	8237	0.30	0.07	0.00	0.00	19.68
rs112378336	glutamylmethionine levels Gamma-	GCST90199751	9	71779572	C	G	8237	0.09	0.02	0.00	0.00	19.53
rs144545066	glutamylmethionine levels Gamma-	GCST90199751	9	88193070	T	C	8237	0.31	0.06	0.00	0.00	27.91
rs11013146	glutamylmethionine levels Gamma-	GCST90199751	10	22827204	C	T	8237	-0.08	0.02	0.00	0.00	21.85
rs140535729	glutamylmethionine levels Gamma-	GCST90199751	10	104564688	A	G	8237	0.13	0.03	0.00	0.00	21.17
rs2513658	glutamylmethionine levels Gamma-	GCST90199751	11	66860778	A	G	8237	-0.07	0.02	0.00	0.00	19.70
rs76581393	glutamylmethionine levels Gamma-	GCST90199751	11	114209343	A	G	8237	0.25	0.06	0.00	0.00	20.24
rs884313	glutamylmethionine levels Gamma-	GCST90199751	13	113041894	T	A	8237	-0.12	0.02	0.00	0.00	24.19
rs113127878	glutamylmethionine levels Gamma-	GCST90199751	14	104568446	T	C	8237	-0.13	0.03	0.00	0.00	20.16
rs28593267	glutamylmethionine levels Gamma-	GCST90199751	15	57459261	G	C	8237	0.09	0.02	0.00	0.00	19.60
rs7243300	glutamylmethionine levels Gamma-	GCST90199751	18	61898540	A	G	8237	0.07	0.02	0.00	0.00	19.78
rs35155019	glutamylmethionine levels	GCST90199751	20	5472269	G	A	8237	-0.09	0.02	0.00	0.00	21.00

rs2837971	Gamma-glutamylmethionine levels	GCST90199751	21	41229287	A	G	8237	0.08	0.02	0.00	0.00	19.53
rs12168065	Gamma-glutamylmethionine levels	GCST90199751	22	17215334	T	C	8237	0.09	0.02	0.00	0.00	19.68
rs738161	Gamma-glutamylmethionine levels	GCST90199751	22	27049475	A	C	8237	-0.07	0.02	0.00	0.00	22.70
rs569920519	Epiandrosterone sulfate	GCST90199752	1	33509256	T	C	8174	-0.43	0.10	0.00	0.00	20.18
rs1335061	Epiandrosterone sulfate	GCST90199752	1	107047952	T	C	8174	-0.07	0.01	0.00	0.00	20.53
rs949696	Epiandrosterone sulfate	GCST90199752	1	204431931	G	A	8174	-0.18	0.04	0.00	0.00	20.54
rs140628452	Epiandrosterone sulfate	GCST90199752	2	19295363	T	C	8174	-0.26	0.06	0.00	0.00	20.20
rs112881196	Epiandrosterone sulfate	GCST90199752	2	31757742	G	C	8174	-0.21	0.04	0.00	0.00	28.35
rs17586938	Epiandrosterone sulfate	GCST90199752	2	78828966	T	C	8174	-0.08	0.02	0.00	0.00	21.93
rs4314048	Epiandrosterone sulfate	GCST90199752	2	234589770	A	T	8174	-0.07	0.01	0.00	0.00	20.07
rs34445681	Epiandrosterone sulfate	GCST90199752	3	477304	C	A	8174	-0.21	0.04	0.00	0.00	22.74
rs56225736	Epiandrosterone sulfate	GCST90199752	3	196242315	A	G	8174	0.13	0.02	0.00	0.00	38.52
rs11932379	Epiandrosterone sulfate	GCST90199752	4	37654186	C	T	8174	0.15	0.03	0.00	0.00	21.63
rs969114	Epiandrosterone sulfate	GCST90199752	4	68472593	G	A	8174	0.10	0.01	0.00	0.01	41.19
rs1165191	Epiandrosterone sulfate	GCST90199752	6	25847619	T	A	8174	0.08	0.02	0.00	0.00	24.91
rs9294747	Epiandrosterone sulfate	GCST90199752	6	67193797	C	T	8174	-0.10	0.02	0.00	0.00	26.38
rs148982377	Epiandrosterone sulfate	GCST90199752	7	99477415	C	T	8174	-1.32	0.04	0.00	0.13	#####
rs117209214	Epiandrosterone sulfate	GCST90199752	7	100396354	A	G	8174	-0.62	0.08	0.00	0.01	55.19
rs117907084	Epiandrosterone sulfate	GCST90199752	8	8237018	C	A	8174	-0.16	0.04	0.00	0.00	20.07
rs17834682	Epiandrosterone sulfate	GCST90199752	8	57955691	T	C	8174	0.18	0.04	0.00	0.00	21.56
rs4961487	Epiandrosterone sulfate	GCST90199752	9	16390976	T	A	8174	-0.08	0.02	0.00	0.00	26.52
rs10964588	Epiandrosterone sulfate	GCST90199752	9	20513137	G	T	8174	0.08	0.02	0.00	0.00	21.44
rs10822184	Epiandrosterone sulfate	GCST90199752	10	63577393	C	T	8174	0.07	0.01	0.00	0.00	20.74
rs117976748	Epiandrosterone sulfate	GCST90199752	10	97049637	C	T	8174	-0.26	0.06	0.00	0.00	20.20
rs1939768	Epiandrosterone sulfate	GCST90199752	11	63147237	G	T	8174	-0.18	0.03	0.00	0.00	34.83
rs149982314	Epiandrosterone sulfate	GCST90199752	11	128095982	T	C	8174	-0.34	0.08	0.00	0.00	20.48
rs76205362	Epiandrosterone sulfate	GCST90199752	12	15167671	C	T	8174	-0.21	0.05	0.00	0.00	20.13
rs598997	Epiandrosterone sulfate	GCST90199752	13	21746519	A	G	8174	-0.07	0.02	0.00	0.00	21.24
rs4656754	Gamma-glutamyltryptophan levels	GCST90199753	1	170286643	A	G	7902	0.25	0.05	0.00	0.00	21.07
rs11675363	Gamma-glutamyltryptophan levels	GCST90199753	2	110121984	A	G	7902	-0.10	0.02	0.00	0.00	26.05
rs149324462	Gamma-glutamyltryptophan levels	GCST90199753	3	13330284	G	A	7902	0.45	0.10	0.00	0.00	20.93
rs116590412	Gamma-glutamyltryptophan levels	GCST90199753	4	151024591	C	T	7902	-0.12	0.03	0.00	0.00	20.13
rs116376863	Gamma-glutamyltryptophan levels	GCST90199753	4	153845092	A	G	7902	0.30	0.06	0.00	0.00	21.72

rs985335	Gamma-glutamyltrypto phan levels	GCST90199753	4	155856376	C	T	7902	-0.12	0.02	0.00	0.00	28.70
rs14296214 3	Gamma-glutamyltrypto phan levels	GCST90199753	5	42538376	A	G	7902	0.25	0.05	0.00	0.00	21.27
rs981714	Gamma-glutamyltrypto phan levels	GCST90199753	5	54212834	C	G	7902	0.10	0.02	0.00	0.00	23.49
rs2563312	Gamma-glutamyltrypto phan levels	GCST90199753	5	140667354	T	C	7902	0.11	0.02	0.00	0.00	21.54
rs10457236	Gamma-glutamyltrypto phan levels	GCST90199753	6	111228992	A	G	7902	0.12	0.02	0.00	0.00	31.18
rs11154049	Gamma-glutamyltrypto phan levels	GCST90199753	6	121757502	T	C	7902	0.07	0.02	0.00	0.00	19.72
rs74763072	Gamma-glutamyltrypto phan levels	GCST90199753	8	17562860	A	G	7902	0.26	0.05	0.00	0.00	26.20
rs11288637 2	Gamma-glutamyltrypto phan levels	GCST90199753	8	100612399	A	G	7902	0.26	0.06	0.00	0.00	20.08
rs78388617	Gamma-glutamyltrypto phan levels	GCST90199753	9	87041604	T	G	7902	-0.13	0.03	0.00	0.00	19.68
rs3124591	Gamma-glutamyltrypto phan levels	GCST90199753	9	136495945	T	C	7902	-0.08	0.02	0.00	0.00	21.85
rs686320	Gamma-glutamyltrypto phan levels	GCST90199753	11	65477067	C	G	7902	-0.11	0.02	0.00	0.00	23.04
rs601720	Gamma-glutamyltrypto phan levels	GCST90199753	11	125440352	G	T	7902	-0.13	0.03	0.00	0.00	19.92
rs2698279	Gamma-glutamyltrypto phan levels	GCST90199753	12	79893257	T	C	7902	-0.15	0.03	0.00	0.00	20.78
rs55158820 6	Gamma-glutamyltrypto phan levels	GCST90199753	13	41824900	A	G	7902	-0.42	0.09	0.00	0.00	20.01
rs77122126	Gamma-glutamyltrypto phan levels	GCST90199753	13	95450167	G	A	7902	-0.13	0.03	0.00	0.00	22.45
rs924135	Gamma-glutamyltrypto phan levels	GCST90199753	16	16029602	T	A	7902	0.08	0.02	0.00	0.00	25.40
rs13945319 9	Gamma-glutamyltrypto phan levels	GCST90199753	19	40883854	G	A	7902	0.13	0.03	0.00	0.00	20.04
rs71321535	Gamma-glutamyltrypto phan levels	GCST90199753	20	59258139	A	G	7902	0.24	0.05	0.00	0.00	23.51
rs2871017	Gamma-glutamyltrypto phan levels	GCST90199753	22	19159364	T	C	7902	0.08	0.02	0.00	0.00	26.09
rs6004193	Gamma-glutamyltrypto phan levels	GCST90199753	22	24598329	C	T	7902	-0.12	0.02	0.00	0.01	52.03
rs79149266	7-methylxanthin e levels	GCST90199754	1	11429183	T	A	8019	0.32	0.07	0.00	0.00	20.65
rs14483829 0	7-methylxanthin e levels	GCST90199754	1	23223615	A	G	8019	0.36	0.08	0.00	0.00	21.40
rs4078109	7-methylxanthin e levels	GCST90199754	1	161259861	G	A	8019	-0.07	0.02	0.00	0.00	19.95
rs11270524 3	7-methylxanthin e levels	GCST90199754	2	21483693	A	G	8019	0.40	0.08	0.00	0.00	25.01

rs186066346	7-methylxanthine levels	GCST90199754	2	61643705	A	C	8019	0.49	0.10	0.00	0.00	24.82
rs35155698	7-methylxanthine levels	GCST90199754	3	895304	C	T	8019	0.08	0.02	0.00	0.00	19.65
rs1996313	7-methylxanthine levels	GCST90199754	3	191850100	C	A	8019	-0.12	0.03	0.00	0.00	20.80
rs139902547	7-methylxanthine levels	GCST90199754	5	96000495	G	A	8019	-0.39	0.08	0.00	0.00	21.20
rs74374350	7-methylxanthine levels	GCST90199754	5	101245822	A	G	8019	0.17	0.04	0.00	0.00	20.69
rs6569661	7-methylxanthine levels	GCST90199754	6	130185619	G	A	8019	-0.10	0.02	0.00	0.00	30.39
rs77910442	7-methylxanthine levels	GCST90199754	10	25422750	A	G	8019	-0.14	0.03	0.00	0.00	20.67
rs145900881	7-methylxanthine levels	GCST90199754	11	7326516	G	T	8019	-0.20	0.04	0.00	0.00	27.48
rs142166941	7-methylxanthine levels	GCST90199754	11	35395115	T	G	8019	-0.26	0.06	0.00	0.00	19.76
rs7122002	7-methylxanthine levels	GCST90199754	11	99399502	G	T	8019	0.13	0.03	0.00	0.00	20.03
rs7485735	7-methylxanthine levels	GCST90199754	12	71325737	C	T	8019	-0.08	0.02	0.00	0.00	19.86
rs7154480	7-methylxanthine levels	GCST90199754	14	38558382	C	T	8019	0.08	0.02	0.00	0.00	20.94
rs117333946	7-methylxanthine levels	GCST90199754	14	58751202	A	G	8019	0.33	0.07	0.00	0.00	21.41
rs112050430	7-methylxanthine levels	GCST90199754	14	87595814	A	T	8019	0.26	0.06	0.00	0.00	19.59
rs12148513	7-methylxanthine levels	GCST90199754	15	74929884	T	C	8019	0.10	0.02	0.00	0.00	38.49
rs11653172	7-methylxanthine levels	GCST90199754	17	12739959	G	A	8019	-0.07	0.02	0.00	0.00	20.10
rs4510117	7-methylxanthine levels	GCST90199754	18	76705747	G	A	8019	-0.10	0.02	0.00	0.00	25.81
rs114587740	7-methylxanthine levels	GCST90199754	19	53640557	C	A	8019	-0.13	0.03	0.00	0.00	21.54
rs1291145	7-methylxanthine levels	GCST90199754	20	36900072	C	T	8019	0.08	0.02	0.00	0.00	20.77
rs73141934	3,7-methylxanthine levels	GCST90199754	20	60990127	T	C	8019	-0.14	0.03	0.00	0.00	21.78
rs74913983	3,7-dimethylurate levels	GCST90199755	1	20149458	T	C	6894	0.28	0.06	0.00	0.00	24.61
rs2807338	3,7-dimethylurate levels	GCST90199755	1	22250932	C	T	6894	0.08	0.02	0.00	0.00	20.25
rs11101991	3,7-dimethylurate levels	GCST90199755	1	109718945	A	G	6894	-0.08	0.02	0.00	0.00	21.39
rs11803056	3,7-dimethylurate levels	GCST90199755	1	187093680	T	C	6894	0.45	0.10	0.00	0.00	20.18

rs12622274	3,7- dimethylurate levels	GCST90199755	2	10474600	A	G	6894	-0.24	0.05	0.00	0.00	21.89
rs11705952	3,7- dimethylurate levels	GCST90199755	3	150383392	C	T	6894	0.08	0.02	0.00	0.00	20.15
rs16887678	3,7- dimethylurate levels	GCST90199755	5	58012959	A	G	6894	0.21	0.05	0.00	0.00	20.21
rs79673425	3,7- dimethylurate levels	GCST90199755	6	6370341	T	C	6894	-0.22	0.05	0.00	0.00	21.79
rs11753307	3,7- dimethylurate levels	GCST90199755	6	34145901	A	C	6894	-0.08	0.02	0.00	0.00	21.61
rs6569661	3,7- dimethylurate levels	GCST90199755	6	130185619	G	A	6894	-0.09	0.02	0.00	0.00	21.48
rs11766427	3,7- dimethylurate levels	GCST90199755	7	29596122	A	G	6894	0.11	0.02	0.00	0.00	19.74
rs71561091	3,7- dimethylurate levels	GCST90199755	7	63827842	G	A	6894	-0.09	0.02	0.00	0.00	21.34
rs11730091 8	3,7- dimethylurate levels	GCST90199755	7	115103850	A	T	6894	-0.32	0.07	0.00	0.00	20.15
rs35634531	3,7- dimethylurate levels	GCST90199755	8	9179507	C	T	6894	-0.22	0.05	0.00	0.00	24.16
rs80024001	3,7- dimethylurate levels	GCST90199755	9	116049643	T	C	6894	-0.39	0.09	0.00	0.00	20.66
rs2009148	3,7- dimethylurate levels	GCST90199755	10	25392661	C	A	6894	-0.12	0.03	0.00	0.00	20.79
rs1009087	3,7- dimethylurate levels	GCST90199755	11	12140902	G	A	6894	0.08	0.02	0.00	0.00	20.68
rs12290127	3,7- dimethylurate levels	GCST90199755	11	44602930	T	C	6894	-0.11	0.02	0.00	0.00	20.76
rs73045442	3,7- dimethylurate levels	GCST90199755	12	1997786	A	C	6894	0.42	0.08	0.00	0.00	29.18
rs12816792	3,7- dimethylurate levels	GCST90199755	12	21395438	G	A	6894	0.08	0.02	0.00	0.00	22.08
rs1796331	3,7- dimethylurate levels	GCST90199755	12	71186451	G	A	6894	0.13	0.03	0.00	0.00	19.67
rs7487383	3,7- dimethylurate levels	GCST90199755	12	71331609	A	G	6894	-0.11	0.02	0.00	0.00	30.82
rs11246896	3,7- dimethylurate levels	GCST90199755	12	131592283	A	G	6894	0.16	0.03	0.00	0.00	20.52
rs13864571 6	3,7- dimethylurate levels	GCST90199755	15	33488589	C	G	6894	0.36	0.08	0.00	0.00	20.33
rs14845236 1	3,7- dimethylurate levels	GCST90199755	15	60770348	A	G	6894	0.27	0.06	0.00	0.00	19.65
rs56686126 8	3,7- dimethylurate levels	GCST90199755	16	13703714	A	G	6894	0.64	0.12	0.00	0.00	26.35
rs7206766	3,7- dimethylurate levels	GCST90199755	16	79620951	T	C	6894	0.08	0.02	0.00	0.00	19.63
rs77333924	3,7- dimethylurate levels	GCST90199755	18	26493395	G	A	6894	-0.27	0.05	0.00	0.00	25.95

rs9950725	3,7- dimethylurate levels	GCST90199755	18	75978231	A	G	6894	-0.09	0.02	0.00	0.00	19.64
rs75712402	3,7- dimethylurate levels	GCST90199755	19	15141211	A	G	6894	-0.23	0.05	0.00	0.00	23.45
rs56113850	3,7- dimethylurate levels	GCST90199755	19	40847202	C	T	6894	-0.08	0.02	0.00	0.00	20.09
rs6103583	3,7- dimethylurate levels	GCST90199755	20	44049602	A	G	6894	-0.10	0.02	0.00	0.00	23.30
rs78973434	3,7- dimethylurate levels	GCST90199755	22	30941578	G	A	6894	0.36	0.08	0.00	0.00	21.32
rs14651440 5	3,7- dimethylurate levels	GCST90199755	22	39507472	T	C	6894	0.27	0.06	0.00	0.00	19.60
rs13823177 9	3,7- dimethylurate levels	GCST90199755	22	42565482	T	C	6894	-0.38	0.09	0.00	0.00	19.55
rs18174295 5	1,7- dimethyluric acid levels	GCST90199756	1	2245902	G	T	7950	-0.28	0.06	0.00	0.00	20.72
rs10902695	1,7- dimethyluric acid levels	GCST90199756	1	28319022	T	C	7950	-0.08	0.02	0.00	0.00	20.52
rs71654235	1,7- dimethyluric acid levels	GCST90199756	1	42303182	C	T	7950	-0.30	0.07	0.00	0.00	20.43
rs17047499	1,7- dimethyluric acid levels	GCST90199756	2	56121640	T	A	7950	-0.12	0.03	0.00	0.00	23.37
rs10203323	1,7- dimethyluric acid levels	GCST90199756	2	114758503	T	C	7950	-0.13	0.03	0.00	0.00	20.82
rs78217017	1,7- dimethyluric acid levels	GCST90199756	2	121695871	T	C	7950	-0.10	0.02	0.00	0.00	19.74
rs10194878	1,7- dimethyluric acid levels	GCST90199756	2	138639888	C	T	7950	0.09	0.02	0.00	0.00	23.87
rs14549149 7	1,7- dimethyluric acid levels	GCST90199756	2	167021691	A	G	7950	-0.26	0.06	0.00	0.00	19.66
rs75892962	1,7- dimethyluric acid levels	GCST90199756	2	229326099	C	G	7950	-0.12	0.03	0.00	0.00	20.26
rs78121311	1,7- dimethyluric acid levels	GCST90199756	3	103812795	G	T	7950	-0.19	0.04	0.00	0.00	22.36
rs11707927	1,7- dimethyluric acid levels	GCST90199756	3	146021087	G	A	7950	0.07	0.02	0.00	0.00	19.75
rs75915828	1,7- dimethyluric acid levels	GCST90199756	3	186890347	A	G	7950	-0.43	0.09	0.00	0.00	23.46
rs73210513	1,7- dimethyluric acid levels	GCST90199756	3	197129194	C	T	7950	0.10	0.02	0.00	0.00	22.95
rs2130239	1,7- dimethyluric acid levels	GCST90199756	4	117596057	T	C	7950	-0.21	0.04	0.00	0.00	21.38
rs62342655	1,7- dimethyluric acid levels	GCST90199756	5	9617321	A	G	7950	-0.37	0.08	0.00	0.00	20.97
rs7447792	1,7- dimethyluric acid levels	GCST90199756	5	61719271	C	T	7950	-0.08	0.02	0.00	0.00	22.99
rs72798563	1,7- dimethyluric acid levels	GCST90199756	5	109157000	C	G	7950	0.20	0.04	0.00	0.00	19.77

rs34442334	1,7-dimethyluric acid levels	GCST90199756	6	118062036	G	A	7950	-0.09	0.02	0.00	0.00	19.64
rs34617709	1,7-dimethyluric acid levels	GCST90199756	7	69974059	T	C	7950	-0.08	0.02	0.00	0.00	20.48
rs118168871	1,7-dimethyluric acid levels	GCST90199756	7	115891831	T	C	7950	-0.34	0.07	0.00	0.00	25.57
rs77748985	1,7-dimethyluric acid levels	GCST90199756	8	20128685	A	G	7950	-0.32	0.06	0.00	0.00	25.71
rs117377554	1,7-dimethyluric acid levels	GCST90199756	8	31662660	A	T	7950	-0.49	0.11	0.00	0.00	19.91
rs10089768	1,7-dimethyluric acid levels	GCST90199756	8	72785420	G	T	7950	-0.16	0.04	0.00	0.00	19.58
rs80239202	1,7-dimethyluric acid levels	GCST90199756	10	38281059	C	T	7950	-0.94	0.20	0.00	0.00	22.28
rs117713253	1,7-dimethyluric acid levels	GCST90199756	10	113162931	T	C	7950	-0.29	0.06	0.00	0.00	23.16
rs146690722	1,7-dimethyluric acid levels	GCST90199756	11	20824436	A	G	7950	-0.35	0.07	0.00	0.00	23.19
rs10891855	1,7-dimethyluric acid levels	GCST90199756	11	115453233	T	C	7950	-0.08	0.02	0.00	0.00	20.90
rs643104	1,7-dimethyluric acid levels	GCST90199756	11	118696416	C	T	7950	-0.09	0.02	0.00	0.00	27.56
rs10505957	1,7-dimethyluric acid levels	GCST90199756	12	25008930	G	T	7950	0.10	0.02	0.00	0.00	19.56
rs10459364	1,7-dimethyluric acid levels	GCST90199756	13	20524110	A	G	7950	0.15	0.03	0.00	0.00	19.91
rs56158086	1,7-dimethyluric acid levels	GCST90199756	13	57136132	T	A	7950	-0.25	0.05	0.00	0.00	24.41
rs115520044	1,7-dimethyluric acid levels	GCST90199756	14	49488289	A	G	7950	0.28	0.06	0.00	0.00	21.40
rs78083869	1,7-dimethyluric acid levels	GCST90199756	15	93629052	A	G	7950	-0.14	0.03	0.00	0.00	19.58
rs76106888	1,7-dimethyluric acid levels	GCST90199756	15	100318721	A	G	7950	-0.64	0.14	0.00	0.00	20.89
rs62017761	1,7-dimethyluric acid levels	GCST90199756	16	6502503	G	T	7950	-0.08	0.02	0.00	0.00	23.15
rs76846045	1,7-dimethyluric acid levels	GCST90199756	20	49812925	T	G	7950	-0.26	0.06	0.00	0.00	20.38
rs147207829	1,7-dimethyluric acid levels	GCST90199756	21	33598994	T	C	7950	-0.28	0.06	0.00	0.00	19.77
rs115598283	1,3,7-trimethylurate levels	GCST90199757	1	69305629	T	G	7446	-0.28	0.06	0.00	0.00	20.72
rs138299815	1,3,7-trimethylurate levels	GCST90199757	1	186197663	A	C	7446	-0.42	0.09	0.00	0.00	21.02
rs6682968	1,3,7-trimethylurate levels	GCST90199757	1	197639482	T	C	7446	0.10	0.02	0.00	0.00	24.29
rs77547890	1,3,7-trimethylurate levels	GCST90199757	3	33559497	T	G	7446	-0.32	0.07	0.00	0.00	20.03

rs78237587	1,3,7-trimethylurate levels	GCST90199757	3	126832899	G	A	7446	-0.20	0.04	0.00	0.00	23.03
rs11606277	1,3,7-trimethylurate levels	GCST90199757	3	144297539	A	G	7446	-0.29	0.07	0.00	0.00	19.51
rs140534109	1,3,7-trimethylurate levels	GCST90199757	4	178406600	A	G	7446	-0.44	0.09	0.00	0.00	25.64
rs78244263	1,3,7-trimethylurate levels	GCST90199757	5	51151502	T	G	7446	-0.47	0.10	0.00	0.00	19.73
rs181432345	1,3,7-trimethylurate levels	GCST90199757	5	60182835	A	G	7446	-0.22	0.05	0.00	0.00	22.02
rs80037764	1,3,7-trimethylurate levels	GCST90199757	5	74589918	G	T	7446	-0.23	0.05	0.00	0.00	22.52
rs2608631	1,3,7-trimethylurate levels	GCST90199757	6	52761471	A	G	7446	0.13	0.02	0.00	0.01	58.82
rs184129540	1,3,7-trimethylurate levels	GCST90199757	7	42468220	T	C	7446	-0.49	0.09	0.00	0.00	27.44
rs3757589	1,3,7-trimethylurate levels	GCST90199757	7	74451019	A	G	7446	0.08	0.02	0.00	0.00	21.41
rs13252900	1,3,7-trimethylurate levels	GCST90199757	8	1347367	G	A	7446	-0.09	0.02	0.00	0.00	21.56
rs149075380	1,3,7-trimethylurate levels	GCST90199757	9	83354952	A	G	7446	-0.42	0.09	0.00	0.00	20.76
rs10120633	1,3,7-trimethylurate levels	GCST90199757	9	115565632	C	T	7446	-0.08	0.02	0.00	0.00	21.77
rs7900208	1,3,7-trimethylurate levels	GCST90199757	10	133553286	C	T	7446	0.28	0.05	0.00	0.00	31.56
rs2297316	1,3,7-trimethylurate levels	GCST90199757	13	27916074	A	G	7446	-0.07	0.02	0.00	0.00	20.10
rs9598021	1,3,7-trimethylurate levels	GCST90199757	13	59538626	G	A	7446	-0.18	0.04	0.00	0.00	22.05
rs62014994	1,3,7-trimethylurate levels	GCST90199757	15	65317997	G	A	7446	-0.36	0.08	0.00	0.00	21.06
rs11644431	1,3,7-trimethylurate levels	GCST90199757	16	59949065	T	C	7446	-0.10	0.02	0.00	0.00	20.95
rs112468001	1,3,7-trimethylurate levels	GCST90199757	16	72634371	A	G	7446	-0.24	0.05	0.00	0.00	19.66
rs118074685	1,3,7-trimethylurate levels	GCST90199757	17	35080621	C	T	7446	0.18	0.04	0.00	0.00	23.88
rs226220	1,3,7-trimethylurate levels	GCST90199757	17	38874390	G	A	7446	0.12	0.03	0.00	0.00	20.77
rs116951961	1,3,7-trimethylurate levels	GCST90199757	17	76758576	C	G	7446	-0.23	0.05	0.00	0.00	20.08
rs6043212	1,3,7-trimethylurate levels	GCST90199757	20	231898	T	C	7446	0.09	0.02	0.00	0.00	27.82
rs2245730	1,3,7-trimethylurate levels	GCST90199757	21	42705218	C	A	7446	-0.08	0.02	0.00	0.00	20.23
rs17357686	N4-acetylcytidine levels	GCST90199758	1	86851159	T	C	7425	0.16	0.03	0.00	0.00	26.91

rs143207879	N4-acetylcytidine levels	GCST90199758	1	112911518	A	G	7425	-0.24	0.05	0.00	0.00	22.77
rs141845046	N4-acetylcytidine levels	GCST90199758	1	155015228	T	C	7425	0.25	0.06	0.00	0.00	20.39
rs13035920	N4-acetylcytidine levels	GCST90199758	2	20116518	C	T	7425	-0.09	0.02	0.00	0.00	24.20
rs10198374	N4-acetylcytidine levels	GCST90199758	2	43202896	G	A	7425	-0.08	0.02	0.00	0.00	22.63
rs71426616	N4-acetylcytidine levels	GCST90199758	2	80432319	T	A	7425	-0.10	0.02	0.00	0.00	19.85
rs147239302	N4-acetylcytidine levels	GCST90199758	2	240430758	A	C	7425	0.36	0.08	0.00	0.00	19.95
rs140072854	N4-acetylcytidine levels	GCST90199758	3	145527928	A	G	7425	0.60	0.12	0.00	0.00	27.28
rs4863667	N4-acetylcytidine levels	GCST90199758	4	139653652	C	T	7425	-0.08	0.02	0.00	0.00	23.28
rs10475114	N4-acetylcytidine levels	GCST90199758	5	1846047	C	G	7425	0.18	0.04	0.00	0.00	21.87
rs143035365	N4-acetylcytidine levels	GCST90199758	5	152756568	T	C	7425	0.20	0.04	0.00	0.00	20.29
rs2546966	N4-acetylcytidine levels	GCST90199758	5	160175986	G	C	7425	-0.08	0.02	0.00	0.00	23.36
rs9467618	N4-acetylcytidine levels	GCST90199758	6	25824581	T	C	7425	0.10	0.02	0.00	0.00	30.31
rs114324563	N4-acetylcytidine levels	GCST90199758	6	44235214	G	C	7425	-0.22	0.04	0.00	0.00	33.34
rs35756363	N4-acetylcytidine levels	GCST90199758	6	86318787	C	T	7425	0.22	0.05	0.00	0.00	20.92
rs6967493	N4-acetylcytidine levels	GCST90199758	7	141304510	T	G	7425	0.11	0.02	0.00	0.00	20.72
rs10259321	N4-acetylcytidine levels	GCST90199758	7	158428346	A	G	7425	-0.07	0.02	0.00	0.00	20.57
rs74721999	N4-acetylcytidine levels	GCST90199758	9	7050259	A	G	7425	-0.29	0.06	0.00	0.00	26.68
rs80063018	N4-acetylcytidine levels	GCST90199758	9	19905713	C	G	7425	-0.19	0.04	0.00	0.00	20.60
rs17578262	N4-acetylcytidine levels	GCST90199758	10	69645704	A	G	7425	0.32	0.06	0.00	0.00	28.12
rs181671	N4-acetylcytidine levels	GCST90199758	10	117628395	T	C	7425	-0.14	0.02	0.00	0.01	79.17
rs4751640	N4-acetylcytidine levels	GCST90199758	10	117812657	C	A	7425	0.08	0.02	0.00	0.00	22.06
rs73493513	N4-acetylcytidine levels	GCST90199758	11	67041611	C	T	7425	0.28	0.06	0.00	0.00	19.83
rs76143524	N4-acetylcytidine levels	GCST90199758	12	49951541	A	G	7425	0.16	0.03	0.00	0.00	22.01
rs77055952	N4-acetylcytidine levels	GCST90199758	15	45566707	G	A	7425	0.18	0.04	0.00	0.00	22.54

rs729977	N4- acetylcytidine levels	GCST90199758	15	60894869	T	C	7425	-0.08	0.02	0.00	0.00	22.93
rs17222302	N4- acetylcytidine levels	GCST90199758	15	84888799	C	T	7425	0.32	0.07	0.00	0.00	22.57
rs11795802 3	N4- acetylcytidine levels	GCST90199758	15	84895338	C	T	7425	-0.51	0.07	0.00	0.01	48.09
rs2242047	N4- acetylcytidine levels	GCST90199758	15	84935465	T	C	7425	-0.37	0.06	0.00	0.00	32.35
rs75825317	N4- acetylcytidine levels	GCST90199758	15	84942114	C	G	7425	-0.27	0.04	0.00	0.01	39.72
rs72754973	N4- acetylcytidine levels	GCST90199758	15	84957775	G	T	7425	-0.41	0.03	0.00	0.02	164.54
rs11799139 0	N4- acetylcytidine levels	GCST90199758	16	71600530	A	G	7425	-0.33	0.07	0.00	0.00	21.64
rs758427	N4- acetylcytidine levels	GCST90199758	17	19717164	G	A	7425	-0.12	0.02	0.00	0.01	43.47
rs14342839 3	N4- acetylcytidine levels	GCST90199758	18	27264097	G	C	7425	-0.36	0.07	0.00	0.00	23.89
rs4805015	N4- acetylcytidine levels	GCST90199758	19	32904507	A	G	7425	0.09	0.02	0.00	0.00	22.07
rs12168522	N4- acetylcytidine levels	GCST90199758	22	44819733	G	C	7425	-0.09	0.02	0.00	0.00	19.85
rs211718	Indolebutyrate levels	GCST90199759	1	75640990	C	T	4423	0.13	0.02	0.00	0.01	32.36
rs10900423	Indolebutyrate levels	GCST90199759	1	204709075	T	G	4423	-0.15	0.03	0.00	0.00	21.08
rs13430858	Indolebutyrate levels	GCST90199759	2	214136529	C	A	4423	0.21	0.04	0.00	0.01	24.56
rs4675969	Indolebutyrate levels	GCST90199759	2	241278212	A	G	4423	-0.13	0.03	0.00	0.00	21.73
rs6783488	Indolebutyrate levels	GCST90199759	3	1877860	T	C	4423	-0.10	0.02	0.00	0.00	20.96
rs74283997	Indolebutyrate levels	GCST90199759	3	56545387	C	T	4423	-0.18	0.04	0.00	0.01	23.98
rs11410485 9	Indolebutyrate levels	GCST90199759	3	126264990	A	G	4423	0.54	0.11	0.00	0.01	26.11
rs76572079	Indolebutyrate levels	GCST90199759	3	193417202	T	C	4423	0.31	0.07	0.00	0.00	20.49
rs1970444	Indolebutyrate levels	GCST90199759	3	194513770	G	A	4423	0.09	0.02	0.00	0.00	19.82
rs11790947 7	Indolebutyrate levels	GCST90199759	8	71978183	T	G	4423	-0.23	0.05	0.00	0.00	20.92
rs74359036	Indolebutyrate levels	GCST90199759	8	115878173	T	C	4423	0.21	0.04	0.00	0.01	23.07
rs14412108 3	Indolebutyrate levels	GCST90199759	9	29009437	A	C	4423	0.33	0.07	0.00	0.00	19.73
rs7848158	Indolebutyrate levels	GCST90199759	9	114755128	C	G	4423	-0.14	0.03	0.00	0.01	25.18
rs61830555	Indolebutyrate levels	GCST90199759	10	3509816	T	C	4423	0.13	0.03	0.00	0.00	20.45
rs11007060	Indolebutyrate levels	GCST90199759	10	28372087	A	T	4423	-0.10	0.02	0.00	0.00	20.96
rs174455	Indolebutyrate levels	GCST90199759	11	61888645	A	G	4423	-0.10	0.02	0.00	0.00	20.45
rs11679384 7	Indolebutyrate levels	GCST90199759	12	106484916	T	C	4423	0.48	0.11	0.00	0.00	19.57
rs11309183 7	Indolebutyrate levels	GCST90199759	13	24120893	A	G	4423	0.30	0.07	0.00	0.00	20.91
rs28595584	Indolebutyrate levels	GCST90199759	14	56377664	A	G	4423	0.22	0.05	0.00	0.00	20.64
rs11778408 0	Indolebutyrate levels	GCST90199759	14	57996704	T	C	4423	0.27	0.06	0.00	0.00	19.90

rs62023461	Indolebutyrate levels	GCST90199759	15	52710952	C	T	4423	0.29	0.06	0.00	0.00	20.84
rs1505100	Indolebutyrate levels	GCST90199759	16	20470350	T	A	4423	-0.21	0.02	0.00	0.02	77.37
rs78303338	Indolebutyrate levels	GCST90199759	16	20843648	T	C	4423	-0.21	0.05	0.00	0.00	19.92
rs187761118	Indolebutyrate levels	GCST90199759	16	80927034	A	C	4423	0.56	0.13	0.00	0.00	19.59
rs75673464	Indolebutyrate levels	GCST90199759	19	29535479	G	T	4423	0.39	0.08	0.00	0.01	24.52
rs62225929	Indolebutyrate levels	GCST90199759	22	48586207	T	G	4423	0.14	0.03	0.00	0.00	20.10
rs72778718	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	2	28449203	C	T	8006	-0.14	0.03	0.00	0.00	20.47
rs76995020	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	2	133505139	C	T	8006	0.19	0.04	0.00	0.00	20.51
rs4500980	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	2	239936746	A	C	8006	-0.09	0.02	0.00	0.00	20.01
rs111686583	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	3	134994376	C	T	8006	-0.22	0.05	0.00	0.00	22.83
rs116424528	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	4	5900168	T	C	8006	-0.36	0.08	0.00	0.00	19.70
rs138904930	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	4	11424146	T	C	8006	-0.30	0.06	0.00	0.00	26.48
rs28491826	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	4	56756575	G	C	8006	-0.09	0.02	0.00	0.00	21.18
rs116021793	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	5	170751550	A	G	8006	-0.24	0.05	0.00	0.00	20.77
rs3884606	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	5	171444070	A	G	8006	-0.08	0.02	0.00	0.00	24.52
rs79694830	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	7	17246463	T	C	8006	0.15	0.03	0.00	0.00	21.37
rs73073176	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	7	17523328	T	C	8006	-0.13	0.02	0.00	0.00	28.39
rs118168871	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	7	115891831	T	C	8006	-0.32	0.07	0.00	0.00	22.23
rs117473599	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	8	7053133	A	G	8006	-0.21	0.04	0.00	0.00	22.63
rs186678652	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	8	18148815	G	A	8006	-0.32	0.07	0.00	0.00	21.88
rs1495741	5-acetylamino-6-amino-3-methyluracil levels	GCST90199760	8	18415371	A	G	8006	-0.38	0.02	0.00	0.05	437.44

rs74496890	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	8	18432786	C	T	8006	-0.19	0.04	0.00	0.00	23.05
rs14211416 3	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	9	79506734	G	T	8006	-0.27	0.06	0.00	0.00	19.55
rs1108456	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	10	94166436	T	C	8006	0.07	0.02	0.00	0.00	19.72
rs15012084 9	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	11	23243348	A	G	8006	-0.29	0.06	0.00	0.00	19.80
rs220835	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	11	115429546	A	G	8006	0.07	0.02	0.00	0.00	21.34
rs76829461	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	11	123200401	T	G	8006	0.32	0.07	0.00	0.00	19.66
rs11220906	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	11	127408582	T	C	8006	0.12	0.03	0.00	0.00	20.60
rs73198941	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	13	57309065	T	C	8006	-0.18	0.04	0.00	0.00	22.12
rs4516123	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	14	51066273	G	A	8006	0.09	0.02	0.00	0.00	20.02
rs2472297	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	15	74735539	T	C	8006	0.12	0.02	0.00	0.01	45.10
rs13928355 9	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	15	98749009	C	T	8006	-0.40	0.09	0.00	0.00	19.78
rs72760522	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	15	99612465	A	G	8006	0.09	0.02	0.00	0.00	20.03
rs12452413	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	17	294154	T	G	8006	-0.07	0.02	0.00	0.00	19.74
rs11807468 5	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	17	35080621	C	T	8006	0.19	0.04	0.00	0.00	28.35
rs11653698	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	17	82504323	C	T	8006	-0.12	0.03	0.00	0.00	21.42
rs11508646 2	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	18	9475763	T	G	8006	-0.18	0.04	0.00	0.00	22.48
rs13044558	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	20	213886	C	T	8006	-0.07	0.02	0.00	0.00	21.95
rs745659	5-acetylamino- 6-amino-3- methyluracil levels	GCST90199760	20	22701135	C	T	8006	-0.08	0.02	0.00	0.00	23.78

rs150000692	5-acetylamino-6-amino-3-methyluracil levels N1-	GCST90199760	22	32557282	A	G	8006	-0.38	0.09	0.00	0.00	19.63
rs72765698	methylinosine levels N1-	GCST90199761	1	234510977	T	A	8147	0.09	0.02	0.00	0.00	22.21
rs28657807	methylinosine levels N1-	GCST90199761	2	69069885	T	C	8147	-0.11	0.02	0.00	0.00	20.52
rs17017528	methylinosine levels N1-	GCST90199761	2	79679897	C	A	8147	-0.07	0.02	0.00	0.00	21.23
rs16836622	methylinosine levels N1-	GCST90199761	2	136779598	T	C	8147	-0.14	0.03	0.00	0.00	21.69
rs79006389	methylinosine levels N1-	GCST90199761	4	27309773	A	T	8147	0.11	0.02	0.00	0.00	24.23
rs143649509	methylinosine levels N1-	GCST90199761	4	29389392	C	T	8147	-0.21	0.04	0.00	0.00	23.27
rs78027022	methylinosine levels N1-	GCST90199761	4	39933698	C	T	8147	-0.29	0.06	0.00	0.00	20.66
rs59758866	methylinosine levels N1-	GCST90199761	5	9546260	G	C	8147	0.08	0.02	0.00	0.00	20.80
rs1421095	methylinosine levels N1-	GCST90199761	5	39355546	A	G	8147	0.08	0.02	0.00	0.00	25.51
rs72763369	methylinosine levels N1-	GCST90199761	5	61751668	G	A	8147	-0.16	0.03	0.00	0.00	24.94
rs147532082	methylinosine levels N1-	GCST90199761	5	93831293	T	C	8147	0.39	0.09	0.00	0.00	20.94
rs4712424	methylinosine levels N1-	GCST90199761	6	19668440	T	C	8147	-0.07	0.02	0.00	0.00	20.95
rs2555772	methylinosine levels N1-	GCST90199761	6	92476237	G	A	8147	-0.09	0.02	0.00	0.00	23.72
rs139007895	methylinosine levels N1-	GCST90199761	6	152671918	C	G	8147	0.30	0.06	0.00	0.00	25.05
rs76160867	methylinosine levels N1-	GCST90199761	7	88169763	C	T	8147	0.23	0.05	0.00	0.00	20.70
rs117911199	methylinosine levels N1-	GCST90199761	7	89981420	A	T	8147	0.14	0.03	0.00	0.00	20.69
rs7028575	methylinosine levels N1-	GCST90199761	9	20430927	T	C	8147	0.21	0.04	0.00	0.00	23.23
rs4468303	methylinosine levels N1-	GCST90199761	10	44754761	G	A	8147	0.07	0.01	0.00	0.00	23.35
rs1171615	methylinosine levels N1-	GCST90199761	10	59709332	T	C	8147	0.11	0.02	0.00	0.00	38.20
rs11606857	methylinosine levels N1-	GCST90199761	11	119745118	T	A	8147	0.22	0.05	0.00	0.00	20.31
rs10842905	methylinosine levels N1-	GCST90199761	12	27329970	C	T	8147	-0.07	0.02	0.00	0.00	22.13
rs12812062	methylinosine levels N1-	GCST90199761	12	95656292	G	A	8147	-0.11	0.02	0.00	0.00	21.26
rs11065420	methylinosine levels	GCST90199761	12	121068599	C	T	8147	-0.09	0.02	0.00	0.00	19.84

rs4966025	N1-methylinosine levels	GCST90199761	15	98766313	A	G	8147	-0.07	0.02	0.00	0.00	20.03
rs10491204	N1-methylinosine levels	GCST90199761	17	66621348	C	T	8147	-0.09	0.02	0.00	0.00	21.12
rs72892125	N1-methylinosine levels	GCST90199761	18	7480557	G	A	8147	0.28	0.06	0.00	0.00	20.39
rs1997814	N1-methylinosine levels	GCST90199761	20	10666023	G	T	8147	0.07	0.02	0.00	0.00	19.74
rs10854220	N1-methylinosine levels	GCST90199761	20	40468778	C	G	8147	0.08	0.02	0.00	0.00	20.00
rs208929	N6-methylinosine levels	GCST90199761	21	17428785	T	C	8147	-0.07	0.01	0.00	0.00	22.07
rs1342862	N6-carbamoylthreonyladenosine levels	GCST90199762	1	72191375	T	C	8176	-0.14	0.03	0.00	0.00	20.18
rs76557465	N6-carbamoylthreonyladenosine levels	GCST90199762	1	101305300	T	G	8176	-0.19	0.04	0.00	0.00	21.34
rs7531202	N6-carbamoylthreonyladenosine levels	GCST90199762	1	110073852	C	A	8176	0.06	0.01	0.00	0.00	19.94
rs116582833	N6-carbamoylthreonyladenosine levels	GCST90199762	1	225768750	G	C	8176	0.39	0.08	0.00	0.00	23.37
rs62153182	N6-carbamoylthreonyladenosine levels	GCST90199762	2	73521718	G	C	8176	-0.10	0.02	0.00	0.00	25.75
rs143818540	N6-carbamoylthreonyladenosine levels	GCST90199762	2	195367334	C	A	8176	0.33	0.07	0.00	0.00	21.50
rs13015567	N6-carbamoylthreonyladenosine levels	GCST90199762	2	211511130	G	A	8176	0.07	0.01	0.00	0.00	19.94
rs62191027	N6-carbamoylthreonyladenosine levels	GCST90199762	2	236291745	C	T	8176	-0.13	0.03	0.00	0.00	22.36
rs56845794	N6-carbamoylthreonyladenosine levels	GCST90199762	3	25039722	T	C	8176	0.08	0.02	0.00	0.00	20.06
rs11712192	N6-carbamoylthreonyladenosine levels	GCST90199762	3	196127651	A	G	8176	-0.08	0.02	0.00	0.00	19.95
rs7654754	N6-carbamoylthreonyladenosine levels	GCST90199762	4	76488642	A	G	8176	0.07	0.01	0.00	0.00	21.83
rs45499402	N6-carbamoylthreonyladenosine levels	GCST90199762	4	88122482	C	G	8176	0.10	0.02	0.00	0.00	19.73
rs150629	N6-carbamoylthreonyladenosine levels	GCST90199762	5	9607960	T	G	8176	0.16	0.03	0.00	0.00	21.39
rs13188284	N6-carbamoylthreonyladenosine levels	GCST90199762	5	178598309	A	G	8176	0.16	0.03	0.00	0.00	20.57

rs651578	N6-carbamoylthreonyladenosine levels	GCST90199762	6	25873655	C	T	8176	0.11	0.02	0.00	0.01	41.91
rs200644655	N6-carbamoylthreonyladenosine levels	GCST90199762	7	20604987	A	T	8176	0.50	0.11	0.00	0.00	21.14
rs7788070	N6-carbamoylthreonyladenosine levels	GCST90199762	7	32932226	C	T	8176	0.10	0.02	0.00	0.00	19.81
rs9649366	N6-carbamoylthreonyladenosine levels	GCST90199762	7	79023530	G	A	8176	0.18	0.04	0.00	0.00	20.31
rs73202145	N6-carbamoylthreonyladenosine levels	GCST90199762	8	18877615	A	C	8176	0.11	0.02	0.00	0.00	22.40
rs10990704	N6-carbamoylthreonyladenosine levels	GCST90199762	9	103453753	G	A	8176	0.08	0.02	0.00	0.00	21.80
rs10508366	N6-carbamoylthreonyladenosine levels	GCST90199762	10	8735729	T	C	8176	0.08	0.02	0.00	0.00	19.68
rs72815298	N6-carbamoylthreonyladenosine levels	GCST90199762	10	29062506	A	G	8176	0.13	0.03	0.00	0.00	19.55
rs79574620	N6-carbamoylthreonyladenosine levels	GCST90199762	10	120008647	T	C	8176	0.16	0.04	0.00	0.00	19.91
rs72972215	N6-carbamoylthreonyladenosine levels	GCST90199762	11	101513013	G	A	8176	-0.15	0.03	0.00	0.00	21.63
rs145280738	N6-carbamoylthreonyladenosine levels	GCST90199762	12	120945339	T	C	8176	0.14	0.03	0.00	0.00	21.06
rs7203642	N6-carbamoylthreonyladenosine levels	GCST90199762	16	20355808	G	A	8176	-0.09	0.02	0.00	0.00	24.22
rs757002	N6-carbamoylthreonyladenosine levels	GCST90199762	16	20484951	G	A	8176	-0.11	0.02	0.00	0.00	20.12
rs143392449	N6-carbamoylthreonyladenosine levels	GCST90199762	16	46761109	A	G	8176	-0.38	0.08	0.00	0.00	24.40
rs189566296	N6-carbamoylthreonyladenosine levels	GCST90199762	17	78280329	G	A	8176	0.33	0.07	0.00	0.00	20.99
rs145495104	N6-carbamoylthreonyladenosine levels	GCST90199762	18	54308987	A	C	8176	-0.22	0.05	0.00	0.00	20.79
rs385867	N6-carbamoylthreonyladenosine levels	GCST90199762	19	19734304	C	T	8176	0.07	0.02	0.00	0.00	20.12
rs147855120	N6-carbamoylthreonyladenosine levels	GCST90199762	21	24478117	G	C	8176	0.32	0.07	0.00	0.00	21.82

rs10203323	1- methylxanthine levels	GCST90199763	2	114758503	T	C	7959	-0.13	0.03	0.00	0.00	22.43
rs10194878	1- methylxanthine levels	GCST90199763	2	138639888	C	T	7959	0.08	0.02	0.00	0.00	21.51
rs74586414	1- methylxanthine levels	GCST90199763	3	29224943	G	A	7959	-0.12	0.03	0.00	0.00	23.39
rs6549098	1- methylxanthine levels	GCST90199763	3	68274130	A	G	7959	0.08	0.02	0.00	0.00	20.58
rs78121311	1- methylxanthine levels	GCST90199763	3	103812795	G	T	7959	-0.22	0.04	0.00	0.00	27.70
rs77056632	1- methylxanthine levels	GCST90199763	3	140725585	T	C	7959	-0.53	0.11	0.00	0.00	22.97
rs150375427	1- methylxanthine levels	GCST90199763	3	160033397	A	C	7959	-0.23	0.05	0.00	0.00	22.33
rs73210513	1- methylxanthine levels	GCST90199763	3	197129194	C	T	7959	0.10	0.02	0.00	0.00	21.63
rs62323622	1- methylxanthine levels	GCST90199763	4	53527437	G	C	7959	-0.20	0.04	0.00	0.00	20.90
rs114116422	1- methylxanthine levels	GCST90199763	4	115301902	C	T	7959	-0.42	0.09	0.00	0.00	19.80
rs72790846	1- methylxanthine levels	GCST90199763	5	125829904	T	G	7959	0.16	0.04	0.00	0.00	20.00
rs2106727	1- methylxanthine levels	GCST90199763	7	17248374	G	A	7959	0.11	0.02	0.00	0.01	41.40
rs2722276	1- methylxanthine levels	GCST90199763	7	37949576	A	G	7959	0.07	0.02	0.00	0.00	20.52
rs9649366	1- methylxanthine levels	GCST90199763	7	79023530	G	A	7959	-0.20	0.04	0.00	0.00	19.79
rs4728259	1- methylxanthine levels	GCST90199763	7	132520767	T	C	7959	-0.23	0.05	0.00	0.00	20.46
rs78780969	1- methylxanthine levels	GCST90199763	7	135460839	G	C	7959	-0.32	0.07	0.00	0.00	19.82
rs10255696	1- methylxanthine levels	GCST90199763	7	157466654	A	G	7959	0.10	0.02	0.00	0.00	19.59
rs35570672	1- methylxanthine levels	GCST90199763	8	18415125	C	T	7959	0.37	0.02	0.00	0.05	394.16
rs11599254	1- methylxanthine levels	GCST90199763	10	28929032	T	C	7959	0.14	0.03	0.00	0.00	23.82
rs35380474	1- methylxanthine levels	GCST90199763	10	125962301	C	T	7959	0.19	0.04	0.00	0.00	19.57
rs7104588	1- methylxanthine levels	GCST90199763	11	21515981	G	A	7959	0.08	0.02	0.00	0.00	21.17
rs75830388	1- methylxanthine levels	GCST90199763	11	76797726	C	T	7959	0.33	0.07	0.00	0.00	22.61
rs2102593	1- methylxanthine levels	GCST90199763	11	115427818	T	C	7959	-0.07	0.02	0.00	0.00	19.74
rs114987354	1- methylxanthine levels	GCST90199763	12	20196366	T	G	7959	-0.24	0.05	0.00	0.00	21.77

rs117910128	1-methylxanthine levels	GCST90199763	12	117677008	T	G	7959	-0.48	0.09	0.00	0.00	26.00
rs115520044	1-methylxanthine levels	GCST90199763	14	49488289	A	G	7959	0.29	0.06	0.00	0.00	22.13
rs61984133	1-methylxanthine levels	GCST90199763	14	99488455	A	T	7959	-0.08	0.02	0.00	0.00	20.03
rs2472297	1-methylxanthine levels	GCST90199763	15	74735539	T	C	7959	0.15	0.02	0.00	0.01	68.11
rs80347317	1-methylxanthine levels	GCST90199763	15	86665391	A	G	7959	0.43	0.09	0.00	0.00	23.65
rs6036187	1-methylxanthine levels	GCST90199763	20	22710511	C	A	7959	-0.08	0.02	0.00	0.00	23.68
rs186217680	N2,n2-dimethylguanine levels	GCST90199764	1	51979525	T	C	8210	0.33	0.07	0.00	0.00	20.42
rs11803990	N2,n2-dimethylguanine levels	GCST90199764	1	150567230	G	C	8210	0.12	0.03	0.00	0.00	20.75
rs145979074	N2,n2-dimethylguanine levels	GCST90199764	1	212147459	T	C	8210	0.35	0.07	0.00	0.00	22.68
rs6704782	N2,n2-dimethylguanine levels	GCST90199764	2	73539327	T	A	8210	-0.09	0.02	0.00	0.00	30.92
rs2128866	N2,n2-dimethylguanine levels	GCST90199764	4	10974272	T	G	8210	-0.06	0.01	0.00	0.00	19.81
rs2304535	N2,n2-dimethylguanine levels	GCST90199764	4	146959870	A	C	8210	0.31	0.07	0.00	0.00	22.14
rs150370225	N2,n2-dimethylguanine levels	GCST90199764	5	14729457	A	G	8210	-0.27	0.06	0.00	0.00	19.61
rs72979812	N2,n2-dimethylguanine levels	GCST90199764	6	140438611	A	G	8210	0.24	0.05	0.00	0.00	24.77
rs78307818	N2,n2-dimethylguanine levels	GCST90199764	9	98869372	A	G	8210	0.15	0.03	0.00	0.00	21.92
rs9299178	N2,n2-dimethylguanine levels	GCST90199764	9	109861521	C	T	8210	-0.10	0.02	0.00	0.00	23.20
rs72761290	N2,n2-dimethylguanine levels	GCST90199764	9	130403493	A	C	8210	0.12	0.03	0.00	0.00	19.62
rs28540578	N2,n2-dimethylguanine levels	GCST90199764	9	134162166	C	G	8210	0.21	0.05	0.00	0.00	20.66
rs72835848	N2,n2-dimethylguanine levels	GCST90199764	10	81929441	T	C	8210	0.18	0.04	0.00	0.00	19.90
rs12791153	N2,n2-dimethylguanine levels	GCST90199764	11	80974138	T	A	8210	-0.12	0.03	0.00	0.00	21.32
rs144715999	N2,n2-dimethylguanine levels	GCST90199764	12	95326159	T	C	8210	-0.17	0.03	0.00	0.00	24.53
rs11110758	N2,n2-dimethylguanine levels	GCST90199764	12	101341169	C	G	8210	0.08	0.02	0.00	0.00	22.09
rs150015679	N2,n2-dimethylguanine levels	GCST90199764	13	51884911	C	G	8210	0.20	0.04	0.00	0.00	20.90
rs149350392	N2,n2-dimethylguanine levels	GCST90199764	14	57036931	T	C	8210	0.22	0.05	0.00	0.00	20.19

rs4997081	N2,n2-dimethylguano sine levels	GCST90199764	16	20353912	C	G	8210	-0.08	0.02	0.00	0.00	20.43
rs13855759 7	4-hydroxyhippu rate levels	GCST90199765	1	238475324	C	T	8259	0.26	0.05	0.00	0.00	22.38
rs937729	4-hydroxyhippu rate levels	GCST90199765	2	98357926	G	T	8259	0.08	0.02	0.00	0.00	21.18
rs11604053 1	4-hydroxyhippu rate levels	GCST90199765	4	33533444	C	T	8259	-0.16	0.03	0.00	0.00	23.02
rs17264911	4-hydroxyhippu rate levels	GCST90199765	4	182873826	T	C	8259	0.28	0.06	0.00	0.00	20.65
rs11771209 9	4-hydroxyhippu rate levels	GCST90199765	6	69725820	A	G	8259	0.22	0.05	0.00	0.00	21.77
rs11747249 4	4-hydroxyhippu rate levels	GCST90199765	6	118734079	T	C	8259	-0.24	0.05	0.00	0.00	20.15
rs11720751 8	4-hydroxyhippu rate levels	GCST90199765	9	24372435	A	C	8259	0.24	0.05	0.00	0.00	22.76
rs72753775	4-hydroxyhippu rate levels	GCST90199765	9	113042146	G	C	8259	0.26	0.06	0.00	0.00	19.58
rs57431619	4-hydroxyhippu rate levels	GCST90199765	10	94684755	G	T	8259	-0.14	0.03	0.00	0.00	20.29
rs11794344 0	4-hydroxyhippu rate levels	GCST90199765	10	111677590	G	A	8259	0.22	0.05	0.00	0.00	20.73
rs75043930	4-hydroxyhippu rate levels	GCST90199765	11	40153249	T	A	8259	0.21	0.04	0.00	0.00	21.92
rs76424117	4-hydroxyhippu rate levels	GCST90199765	11	47945947	A	G	8259	-0.10	0.02	0.00	0.00	21.14
rs34176686	4-hydroxyhippu rate levels	GCST90199765	12	12896085	A	G	8259	-0.10	0.02	0.00	0.00	21.79
rs11742764 0	4-hydroxyhippu rate levels	GCST90199765	12	48557617	C	T	8259	0.44	0.09	0.00	0.00	24.66
rs57215963	4-hydroxyhippu rate levels	GCST90199765	13	74169081	T	G	8259	0.13	0.03	0.00	0.00	22.74
rs9557550	4-hydroxyhippu rate levels	GCST90199765	13	100929348	A	T	8259	0.19	0.04	0.00	0.00	22.14
rs11748845 3	4-hydroxyhippu rate levels	GCST90199765	14	97615705	A	G	8259	-0.31	0.07	0.00	0.00	21.07
rs7220758	4-hydroxyhippu rate levels	GCST90199765	17	13440448	A	G	8259	0.18	0.04	0.00	0.00	19.79
rs61322733	4-hydroxyhippu rate levels	GCST90199765	17	40781769	G	A	8259	-0.08	0.02	0.00	0.00	20.31
rs12952224	4-hydroxyhippu rate levels	GCST90199765	17	45797463	A	T	8259	0.16	0.04	0.00	0.00	19.68
rs11143095 9	3-(3-amino-3- carboxypropyl) uridine levels	GCST90199766	1	71894327	A	T	7679	0.16	0.03	0.00	0.00	21.99
rs79799178	3-(3-amino-3- carboxypropyl) uridine levels	GCST90199766	2	73564108	G	A	7679	-0.10	0.02	0.00	0.00	27.40
rs9816613	3-(3-amino-3- carboxypropyl) uridine levels	GCST90199766	3	31397458	A	T	7679	-0.09	0.02	0.00	0.00	21.12

rs9848541	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	3	115616791	A	C	7679	-0.07	0.02	0.00	0.00	20.48
rs144098166	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	4	5519291	G	A	7679	0.40	0.07	0.00	0.00	30.62
rs4328946	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	4	42552967	T	G	7679	0.07	0.02	0.00	0.00	20.51
rs7654754	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	4	76488642	A	G	7679	0.07	0.01	0.00	0.00	19.57
rs6843943	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	4	95706263	G	C	7679	0.08	0.02	0.00	0.00	21.55
rs77473150	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	5	11331743	T	A	7679	0.37	0.08	0.00	0.00	20.76
rs11740651	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	5	45302374	A	C	7679	-0.10	0.02	0.00	0.00	21.31
rs77400282	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	8	15858479	A	G	7679	-0.21	0.05	0.00	0.00	20.18
rs17080021	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	13	24103168	A	G	7679	-0.07	0.01	0.00	0.00	21.07
rs11620293	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	13	41417192	A	T	7679	-0.30	0.06	0.00	0.00	21.65
rs6575250	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	14	92366389	G	C	7679	0.08	0.02	0.00	0.00	19.80
rs77924615	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	16	20381010	A	G	7679	-0.12	0.02	0.00	0.00	37.42
rs62089830	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	18	7679620	A	G	7679	0.31	0.07	0.00	0.00	19.79
rs4819811	3-(3-amino-3-carboxypropyl)uridine levels	GCST90199766	22	19621733	G	A	7679	-0.07	0.02	0.00	0.00	20.53
rs4845401	5,6-dihydrouridine levels	GCST90199767	1	154969117	G	C	8210	-0.07	0.01	0.00	0.00	19.78
rs58495411	5,6-dihydrouridine levels	GCST90199767	2	20393488	C	G	8210	0.07	0.02	0.00	0.00	19.57
rs55860423	5,6-dihydrouridine levels	GCST90199767	2	152340776	T	C	8210	-0.06	0.01	0.00	0.00	19.53
rs796273	5,6-dihydrouridine levels	GCST90199767	2	208156901	C	T	8210	-0.08	0.02	0.00	0.00	20.27
rs57179147	5,6-dihydrouridine levels	GCST90199767	3	13114419	A	G	8210	0.10	0.02	0.00	0.00	19.56
rs11928501	5,6-dihydrouridine levels	GCST90199767	3	73069070	A	C	8210	-0.24	0.05	0.00	0.00	20.68
rs10029860	5,6-dihydrouridine levels	GCST90199767	4	76489948	A	C	8210	0.08	0.01	0.00	0.00	32.27
rs72721052	5,6-dihydrouridine levels	GCST90199767	4	143311236	A	G	8210	0.23	0.05	0.00	0.00	24.32
rs6555016	5,6-dihydrouridine levels	GCST90199767	5	1839344	T	C	8210	0.17	0.04	0.00	0.00	21.79
rs74682209	5,6-dihydrouridine levels	GCST90199767	5	145932700	A	G	8210	-0.16	0.03	0.00	0.00	24.32

rs6456703	5,6-dihydrouridine levels	GCST90199767	6	25825891	T	C	8210	0.09	0.02	0.00	0.00	25.21
rs76226949	5,6-dihydrouridine levels	GCST90199767	6	124281361	T	A	8210	-0.29	0.06	0.00	0.00	22.35
rs2876012	5,6-dihydrouridine levels	GCST90199767	6	166919802	T	C	8210	-0.09	0.02	0.00	0.00	20.26
rs72637690	5,6-dihydrouridine levels	GCST90199767	8	48373332	T	A	8210	0.11	0.02	0.00	0.00	19.94
rs145480011	5,6-dihydrouridine levels	GCST90199767	8	96117913	G	A	8210	0.12	0.03	0.00	0.00	20.28
rs2278278	5,6-dihydrouridine levels	GCST90199767	9	90846457	A	C	8210	0.10	0.02	0.00	0.00	20.26
rs148141225	5,6-dihydrouridine levels	GCST90199767	9	126647396	T	C	8210	-0.22	0.05	0.00	0.00	20.17
rs60918373	5,6-dihydrouridine levels	GCST90199767	10	17004642	A	T	8210	0.10	0.02	0.00	0.00	23.89
rs1506925	5,6-dihydrouridine levels	GCST90199767	12	61191667	C	G	8210	0.11	0.02	0.00	0.00	22.24
rs73370164	5,6-dihydrouridine levels	GCST90199767	12	93115373	A	G	8210	0.19	0.04	0.00	0.00	23.18
rs1169302	5,6-dihydrouridine levels	GCST90199767	12	120994499	G	T	8210	0.07	0.01	0.00	0.00	22.43
rs150297213	5,6-dihydrouridine levels	GCST90199767	14	40784449	G	C	8210	0.19	0.04	0.00	0.00	19.79
rs11847973	5,6-dihydrouridine levels	GCST90199767	14	62626581	A	C	8210	0.07	0.02	0.00	0.00	19.94
rs117220589	5,6-dihydrouridine levels	GCST90199767	15	44264485	T	C	8210	0.21	0.05	0.00	0.00	19.78
rs146662153	5,6-dihydrouridine levels	GCST90199767	15	84882075	T	C	8210	0.29	0.06	0.00	0.00	20.61
rs117958023	5,6-dihydrouridine levels	GCST90199767	15	84895338	C	T	8210	-0.43	0.07	0.00	0.01	42.19
rs2242047	5,6-dihydrouridine levels	GCST90199767	15	84935465	T	C	8210	-0.34	0.06	0.00	0.00	33.59
rs55990066	5,6-dihydrouridine levels	GCST90199767	15	84955430	C	T	8210	-0.28	0.03	0.00	0.01	88.50
rs9921797	5,6-dihydrouridine levels	GCST90199767	16	8504802	T	G	8210	0.14	0.03	0.00	0.00	23.75
rs7187733	5,6-dihydrouridine levels	GCST90199767	16	51959157	C	T	8210	-0.07	0.02	0.00	0.00	21.21
rs16942363	5,6-dihydrouridine levels	GCST90199767	18	26489985	T	C	8210	0.32	0.07	0.00	0.00	24.08
rs76866514	5,6-dihydrouridine levels	GCST90199767	18	65335980	C	A	8210	-0.17	0.04	0.00	0.00	21.94
rs11667953	5,6-dihydrouridine levels	GCST90199767	19	53711836	A	T	8210	0.07	0.01	0.00	0.00	20.00
rs12029016	Phenylacetylglutamine levels	GCST90199768	1	12068441	A	G	8251	-0.09	0.02	0.00	0.00	24.86
rs2247536	Phenylacetylglutamine levels	GCST90199768	1	77453753	C	G	8251	0.08	0.02	0.00	0.00	21.77

rs45479293	Phenylacetylglutamine levels	GCST90199768	2	190998023	A	G	8251	0.23	0.05	0.00	0.00	21.30
rs187633645	Phenylacetylglutamine levels	GCST90199768	3	89922239	C	A	8251	-0.34	0.07	0.00	0.00	20.64
rs77641874	Phenylacetylglutamine levels	GCST90199768	3	147181916	T	A	8251	-0.30	0.07	0.00	0.00	20.61
rs115410675	Phenylacetylglutamine levels	GCST90199768	5	45949426	T	A	8251	-0.28	0.06	0.00	0.00	20.35
rs2563317	Phenylacetylglutamine levels	GCST90199768	5	140628133	A	G	8251	-0.07	0.02	0.00	0.00	20.60
rs9264231	Phenylacetylglutamine levels	GCST90199768	6	31254427	G	A	8251	0.09	0.02	0.00	0.00	23.75
rs117113249	Phenylacetylglutamine levels	GCST90199768	7	55234079	A	G	8251	0.28	0.06	0.00	0.00	21.26
rs2776859	Phenylacetylglutamine levels	GCST90199768	9	78331375	T	C	8251	0.07	0.02	0.00	0.00	21.58
rs12255822	Phenylacetylglutamine levels	GCST90199768	10	14077520	A	G	8251	-0.11	0.03	0.00	0.00	20.64
rs148515684	Phenylacetylglutamine levels	GCST90199768	11	32806391	A	G	8251	0.29	0.06	0.00	0.00	21.60
rs79860030	Phenylacetylglutamine levels	GCST90199768	11	59775127	T	C	8251	0.27	0.06	0.00	0.00	20.14
rs9924939	Phenylacetylglutamine levels	GCST90199768	16	5140922	C	G	8251	-0.07	0.02	0.00	0.00	19.71
rs142214219	Phenylacetylglutamine levels	GCST90199768	16	80619059	T	C	8251	0.22	0.05	0.00	0.00	21.06
rs12952883	Phenylacetylglutamine levels	GCST90199768	17	38604500	T	G	8251	0.08	0.02	0.00	0.00	19.58
rs12232768	Phenylacetylglutamine levels	GCST90199768	18	27199637	C	T	8251	-0.17	0.04	0.00	0.00	20.19
rs150845270	Phenylacetylglutamine levels	GCST90199768	19	53692374	A	T	8251	-0.33	0.07	0.00	0.00	22.89
rs7272932	Phenylacetylglutamine levels	GCST90199768	20	7082667	G	T	8251	-0.14	0.03	0.00	0.00	21.89
rs117576452	Phenylacetylglutamine levels	GCST90199768	20	33861445	T	C	8251	0.17	0.04	0.00	0.00	21.82
rs189965433	Phenylacetylglutamine levels	GCST90199768	21	17374612	G	A	8251	0.31	0.07	0.00	0.00	22.32
rs4284207	hydroxydodecanoate 3-	GCST90199769	1	46918357	C	T	7168	0.12	0.02	0.00	0.01	37.68
rs999992	hydroxydodecanoate 3-	GCST90199769	1	152024216	C	G	7168	-0.08	0.02	0.00	0.00	22.15
rs140428621	hydroxydodecanoate 3-	GCST90199769	1	185534001	G	A	7168	-0.38	0.08	0.00	0.00	20.39
rs114054586	hydroxydodecanoate 3-	GCST90199769	2	5867174	A	C	7168	0.30	0.07	0.00	0.00	20.86
rs74647473	hydroxydodecanoate 3-	GCST90199769	2	139031105	T	C	7168	-0.27	0.06	0.00	0.00	21.43
rs12645454	hydroxydodecanoate 3-	GCST90199769	4	6229934	T	C	7168	0.08	0.02	0.00	0.00	19.71
rs140622474	hydroxydodecanoate 3-	GCST90199769	4	61837870	A	G	7168	0.46	0.10	0.00	0.00	21.05
rs12658302	hydroxydodecanoate 3-	GCST90199769	5	97957717	A	G	7168	0.07	0.02	0.00	0.00	19.89
rs75668523	hydroxydodecanoate 3-	GCST90199769	5	173096703	T	C	7168	0.15	0.03	0.00	0.00	22.50
rs78797168	hydroxydodecanoate 3-	GCST90199769	6	160038159	G	A	7168	0.14	0.03	0.00	0.00	20.06
rs7814925	hydroxydodecanoate 3-	GCST90199769	8	14296953	G	C	7168	-0.11	0.02	0.00	0.00	21.40
rs4237003	hydroxydodecanoate	GCST90199769	8	73381977	G	A	7168	0.30	0.06	0.00	0.00	21.24

rs2457840	3-hydroxydodecanoate	GCST90199769	10	14014336	T	A	7168	0.12	0.03	0.00	0.00	21.42
rs488485	3-hydroxydodecanoate	GCST90199769	11	116412455	C	T	7168	-0.10	0.02	0.00	0.00	19.60
rs111794019	3-hydroxydodecanoate	GCST90199769	12	91611069	C	T	7168	-0.27	0.06	0.00	0.00	20.01
rs150942244	3-hydroxydodecanoate	GCST90199769	12	128293491	T	C	7168	0.27	0.06	0.00	0.00	21.70
rs74824990	3-hydroxydodecanoate	GCST90199769	13	91968117	C	T	7168	0.17	0.04	0.00	0.00	20.23
rs61983178	3-hydroxydodecanoate	GCST90199769	14	84488979	G	A	7168	-0.15	0.03	0.00	0.00	20.45
rs2009890	3-hydroxydodecanoate	GCST90199769	14	94603609	G	C	7168	-0.08	0.02	0.00	0.00	22.05
rs58915671	3-hydroxydodecanoate	GCST90199769	16	84268402	T	C	7168	0.13	0.03	0.00	0.00	19.58
rs111890243	3-hydroxydodecanoate	GCST90199769	17	77431032	G	A	7168	-0.41	0.09	0.00	0.00	20.26
rs28461186	3-hydroxydodecanoate	GCST90199769	21	14316703	G	A	7168	-0.22	0.05	0.00	0.00	20.23
rs7515787	1-arachidonylethanol levels	GCST90199770	1	64160094	C	T	7650	0.07	0.02	0.00	0.00	20.46
rs143357148	1-arachidonylethanol levels	GCST90199770	1	74316694	T	A	7650	0.34	0.08	0.00	0.00	19.87
rs148115101	1-arachidonylethanol levels	GCST90199770	2	128765991	A	G	7650	-0.56	0.12	0.00	0.00	20.86
rs137996931	1-arachidonylethanol levels	GCST90199770	2	212760141	C	A	7650	-0.14	0.03	0.00	0.00	21.51
rs62280280	1-arachidonylethanol levels	GCST90199770	3	158010844	C	T	7650	-0.07	0.02	0.00	0.00	22.24
rs78231662	1-arachidonylethanol levels	GCST90199770	3	173909141	C	T	7650	0.27	0.06	0.00	0.00	22.11
rs202190768	1-arachidonylethanol levels	GCST90199770	4	29445613	T	C	7650	0.08	0.02	0.00	0.00	23.15
rs11723204	1-arachidonylethanol levels	GCST90199770	4	81132972	G	T	7650	0.24	0.05	0.00	0.00	22.88
rs11099075	1-arachidonylethanol levels	GCST90199770	4	130697760	G	A	7650	0.09	0.02	0.00	0.00	22.10
rs74359901	1-arachidonylethanol levels	GCST90199770	4	163033822	T	A	7650	0.17	0.04	0.00	0.00	21.65
rs13199548	1-arachidonylethanol levels	GCST90199770	6	10596320	G	A	7650	0.08	0.02	0.00	0.00	22.02

rs17650378	1- arachidonylglycerol (20:4) levels	GCST90199770	6	52376224	G	A	7650	0.20	0.05	0.00	0.00	19.95
rs117986168	1- arachidonylglycerol (20:4) levels	GCST90199770	7	54471497	T	C	7650	0.14	0.03	0.00	0.00	19.72
rs1319528	1- arachidonylglycerol (20:4) levels	GCST90199770	9	27203698	C	T	7650	0.10	0.02	0.00	0.00	20.05
rs10742001	1- arachidonylglycerol (20:4) levels	GCST90199770	11	23775150	A	G	7650	-0.11	0.02	0.00	0.00	25.23
rs174564	1- arachidonylglycerol (20:4) levels	GCST90199770	11	61820833	G	A	7650	-0.27	0.02	0.00	0.04	285.16
rs11215670	1- arachidonylglycerol (20:4) levels	GCST90199770	11	115733516	T	C	7650	0.22	0.04	0.00	0.00	30.24
rs146241528	1- arachidonylglycerol (20:4) levels	GCST90199770	12	48425437	A	G	7650	0.21	0.05	0.00	0.00	20.10
rs7320450	1- arachidonylglycerol (20:4) levels	GCST90199770	13	20269777	T	C	7650	-0.26	0.05	0.00	0.00	22.79
rs1010640	1- arachidonylglycerol (20:4) levels	GCST90199770	15	41891234	C	T	7650	0.14	0.03	0.00	0.00	19.52
rs373866736	1- arachidonylglycerol (20:4) levels	GCST90199770	17	60016491	C	T	7650	0.13	0.03	0.00	0.00	19.69
rs79829413	1- arachidonylglycerol (20:4) levels	GCST90199770	18	4600121	T	C	7650	0.39	0.09	0.00	0.00	20.37
rs117301803	1- arachidonylglycerol (20:4) levels	GCST90199770	22	27397322	A	C	7650	-0.20	0.04	0.00	0.00	20.95
rs12170983	7- arachidonylglycerol (20:4) levels	GCST90199770	22	36202744	G	A	7650	-0.07	0.02	0.00	0.00	20.77
rs59405278	7- methylguanine levels	GCST90199771	2	10872300	T	G	8239	-0.36	0.08	0.00	0.00	21.05
rs13394146	7- methylguanine levels	GCST90199771	2	54948975	T	C	8239	-0.07	0.02	0.00	0.00	20.33
rs55754655	7- methylguanine levels	GCST90199771	2	200661607	G	A	8239	-0.16	0.02	0.00	0.01	52.62
rs250975	7- methylguanine levels	GCST90199771	2	234072417	T	C	8239	0.07	0.02	0.00	0.00	19.58
rs2596928	7- methylguanine levels	GCST90199771	3	9343633	C	T	8239	0.15	0.03	0.00	0.00	24.42
rs75118450	7- methylguanine levels	GCST90199771	3	155591131	C	T	8239	-0.25	0.06	0.00	0.00	19.52
rs7653814	7- methylguanine levels	GCST90199771	3	179746268	A	T	8239	-0.07	0.02	0.00	0.00	21.80

rs10010973	7- methylguanine levels	GCST90199771	4	38720468	G	T	8239	0.09	0.02	0.00	0.00	20.01
rs115467519	7- methylguanine levels	GCST90199771	6	14742425	A	G	8239	0.31	0.07	0.00	0.00	20.98
rs7796997	7- methylguanine levels	GCST90199771	7	51540619	T	A	8239	-0.08	0.02	0.00	0.00	22.40
rs142581143	7- methylguanine levels	GCST90199771	8	35902856	A	G	8239	0.20	0.04	0.00	0.00	23.05
rs62531487	7- methylguanine levels	GCST90199771	9	7436777	G	A	8239	-0.08	0.02	0.00	0.00	20.35
rs61736966	7- methylguanine levels	GCST90199771	9	134796855	G	A	8239	0.31	0.07	0.00	0.00	22.75
rs141133698	7- methylguanine levels	GCST90199771	10	21241971	A	G	8239	-0.22	0.05	0.00	0.00	24.11
rs76693762	7- methylguanine levels	GCST90199771	10	132386599	G	C	8239	-0.21	0.05	0.00	0.00	20.48
rs144952996	7- methylguanine levels	GCST90199771	11	70320637	G	A	8239	0.34	0.07	0.00	0.00	22.58
rs503569	7- methylguanine levels	GCST90199771	11	126034348	A	T	8239	0.07	0.02	0.00	0.00	20.97
rs7311325	7- methylguanine levels	GCST90199771	12	77257903	C	T	8239	0.22	0.05	0.00	0.00	19.78
rs11112541	7- methylguanine levels	GCST90199771	12	105463584	T	C	8239	-0.22	0.05	0.00	0.00	19.65
rs150494060	7- methylguanine levels	GCST90199771	13	100156845	C	T	8239	0.32	0.07	0.00	0.00	20.08
rs111583939	7- methylguanine levels	GCST90199771	14	49908290	G	A	8239	-0.23	0.05	0.00	0.00	20.63
rs75607471	7- methylguanine levels	GCST90199771	16	78190524	T	C	8239	0.23	0.05	0.00	0.00	20.35
rs78324169	7- methylguanine levels	GCST90199771	18	36207034	G	A	8239	0.18	0.04	0.00	0.00	25.26
rs62199434	7- methylguanine levels	GCST90199771	20	4759996	C	T	8239	-0.08	0.02	0.00	0.00	21.67
rs9426695	1-stearoyl-GPE (18:0) levels	GCST90199772	1	18913826	G	T	8270	0.19	0.04	0.00	0.00	20.20
rs77692382	1-stearoyl-GPE (18:0) levels	GCST90199772	1	39941043	T	C	8270	0.18	0.02	0.00	0.01	111.02
rs2935412	1-stearoyl-GPE (18:0) levels	GCST90199772	1	65052529	T	C	8270	-0.10	0.02	0.00	0.00	19.57
rs673548	1-stearoyl-GPE (18:0) levels	GCST90199772	2	21014672	A	G	8270	-0.08	0.02	0.00	0.00	19.54
rs780093	1-stearoyl-GPE (18:0) levels	GCST90199772	2	27519736	C	T	8270	-0.09	0.02	0.00	0.00	34.69
rs1866637	1-stearoyl-GPE (18:0) levels	GCST90199772	2	165077172	T	C	8270	0.08	0.02	0.00	0.00	21.20
rs34123137	1-stearoyl-GPE (18:0) levels	GCST90199772	2	233259235	A	T	8270	0.07	0.02	0.00	0.00	20.90

rs141999807	1-stearoyl-GPE (18:0) levels	GCST90199772	4	20851383	G	A	8270	0.25	0.05	0.00	0.00	22.46
rs142999532	1-stearoyl-GPE (18:0) levels	GCST90199772	4	29925843	C	G	8270	0.25	0.06	0.00	0.00	19.87
rs13130041	1-stearoyl-GPE (18:0) levels	GCST90199772	4	87307987	T	C	8270	0.08	0.02	0.00	0.00	19.59
rs12658974	1-stearoyl-GPE (18:0) levels	GCST90199772	5	31669096	A	C	8270	0.11	0.02	0.00	0.00	22.44
rs17665744	1-stearoyl-GPE (18:0) levels	GCST90199772	5	168803796	G	T	8270	0.10	0.02	0.00	0.00	23.07
rs2004196	1-stearoyl-GPE (18:0) levels	GCST90199772	6	41249349	T	C	8270	0.10	0.02	0.00	0.00	23.37
rs1322199	1-stearoyl-GPE (18:0) levels	GCST90199772	6	165012028	A	G	8270	0.08	0.02	0.00	0.00	20.36
rs117940165	1-stearoyl-GPE (18:0) levels	GCST90199772	7	8713549	G	T	8270	0.28	0.06	0.00	0.00	21.05
rs1858942	1-stearoyl-GPE (18:0) levels	GCST90199772	7	20596885	A	G	8270	0.07	0.02	0.00	0.00	22.38
rs2540682	1-stearoyl-GPE (18:0) levels	GCST90199772	7	36237361	A	T	8270	0.09	0.02	0.00	0.00	19.59
rs10234749	1-stearoyl-GPE (18:0) levels	GCST90199772	7	152690784	G	T	8270	0.08	0.02	0.00	0.00	21.41
rs13263105	1-stearoyl-GPE (18:0) levels	GCST90199772	8	58413036	G	C	8270	-0.07	0.02	0.00	0.00	21.35
rs3779773	1-stearoyl-GPE (18:0) levels	GCST90199772	8	105674494	C	G	8270	0.10	0.02	0.00	0.00	22.80
rs6999569	1-stearoyl-GPE (18:0) levels	GCST90199772	8	125463528	G	A	8270	-0.08	0.02	0.00	0.00	26.44
rs117109614	1-stearoyl-GPE (18:0) levels	GCST90199772	10	55978876	C	T	8270	-0.30	0.06	0.00	0.00	22.07
rs174560	1-stearoyl-GPE (18:0) levels	GCST90199772	11	61814292	C	T	8270	-0.09	0.02	0.00	0.00	32.02
rs964184	1-stearoyl-GPE (18:0) levels	GCST90199772	11	116778201	C	G	8270	-0.10	0.02	0.00	0.00	21.13
rs12292477	1-stearoyl-GPE (18:0) levels	GCST90199772	11	122716527	T	C	8270	0.11	0.02	0.00	0.00	20.50
rs11063303	1-stearoyl-GPE (18:0) levels	GCST90199772	12	4697459	T	G	8270	-0.23	0.05	0.00	0.00	20.02
rs7488822	1-stearoyl-GPE (18:0) levels	GCST90199772	12	114499081	G	A	8270	0.40	0.09	0.00	0.00	21.35
rs3927443	1-stearoyl-GPE (18:0) levels	GCST90199772	13	101816286	G	T	8270	0.09	0.02	0.00	0.00	25.76
rs1323678	1-stearoyl-GPE (18:0) levels	GCST90199772	13	107500015	A	C	8270	-0.07	0.02	0.00	0.00	19.59
rs10146121	1-stearoyl-GPE (18:0) levels	GCST90199772	14	92617310	C	A	8270	-0.07	0.02	0.00	0.00	19.66
rs144767726	1-stearoyl-GPE (18:0) levels	GCST90199772	14	99646450	A	C	8270	-0.20	0.04	0.00	0.00	20.58

rs526018	1-stearoyl- GPE (18:0) levels	GCST90199772	15	29272589	G	A	8270	-0.08	0.02	0.00	0.00	24.13
rs13909740 4	1-stearoyl- GPE (18:0) levels	GCST90199772	15	43641743	C	T	8270	0.29	0.05	0.00	0.00	38.00
rs12904030	1-stearoyl- GPE (18:0) levels	GCST90199772	15	58270071	T	C	8270	-0.07	0.02	0.00	0.00	19.75
rs35853021	1-stearoyl- GPE (18:0) levels	GCST90199772	15	58388444	T	G	8270	0.21	0.02	0.00	0.02	177.87
rs633695	1-stearoyl- GPE (18:0) levels	GCST90199772	15	58433640	G	A	8270	0.17	0.02	0.00	0.01	100.13
rs8058610	1-stearoyl- GPE (18:0) levels	GCST90199772	16	23702074	T	C	8270	0.07	0.02	0.00	0.00	21.58
rs62036205	1-stearoyl- GPE (18:0) levels	GCST90199772	16	78841158	C	A	8270	-0.13	0.03	0.00	0.00	24.05
rs79696139	1-stearoyl- GPE (18:0) levels	GCST90199772	19	5756634	A	G	8270	0.19	0.04	0.00	0.00	22.35
rs438811	1-stearoyl- GPE (18:0) levels	GCST90199772	19	44913484	T	C	8270	0.12	0.02	0.00	0.00	41.21
rs16979884	1-stearoyl- GPE (18:0) levels	GCST90199772	20	56403979	A	G	8270	0.11	0.03	0.00	0.00	19.98
rs135922	1-stearoyl- GPE (18:0) levels	GCST90199772	22	44408595	A	G	8270	0.07	0.02	0.00	0.00	23.06
rs2481704	Phenol sulfate levels	GCST90199773	1	62177915	C	T	8249	0.08	0.02	0.00	0.00	21.54
rs791012	Phenol sulfate levels	GCST90199773	1	105752124	T	C	8249	-0.25	0.05	0.00	0.00	23.02
rs10927219	Phenol sulfate levels	GCST90199773	1	244368377	T	C	8249	0.09	0.02	0.00	0.00	23.14
rs6717873	Phenol sulfate levels	GCST90199773	2	121821628	C	T	8249	0.07	0.02	0.00	0.00	21.36
rs11129820	Phenol sulfate levels	GCST90199773	3	39263303	T	C	8249	0.08	0.02	0.00	0.00	22.50
rs13971054 4	Phenol sulfate levels	GCST90199773	3	183672674	A	G	8249	0.21	0.05	0.00	0.00	19.74
rs14779050 9	Phenol sulfate levels	GCST90199773	5	106775087	A	C	8249	0.12	0.03	0.00	0.00	20.23
rs4867681	Phenol sulfate levels	GCST90199773	5	172609329	C	T	8249	-0.07	0.02	0.00	0.00	20.04
rs7773105	Phenol sulfate levels	GCST90199773	6	31361595	G	A	8249	0.09	0.02	0.00	0.00	21.33
rs18127175 8	Phenol sulfate levels	GCST90199773	6	137666493	T	A	8249	-0.35	0.07	0.00	0.00	24.81
rs77590194	Phenol sulfate levels	GCST90199773	7	31860110	G	C	8249	0.20	0.04	0.00	0.00	22.68
rs56215603	Phenol sulfate levels	GCST90199773	7	77688865	C	T	8249	0.08	0.02	0.00	0.00	20.23
rs11296243 1	Phenol sulfate levels	GCST90199773	7	158634553	A	G	8249	0.16	0.04	0.00	0.00	20.18
rs10810926	Phenol sulfate levels	GCST90199773	9	18211214	T	G	8249	0.10	0.02	0.00	0.00	24.67
rs35909046	Phenol sulfate levels	GCST90199773	10	120026385	G	T	8249	-0.18	0.04	0.00	0.00	19.62
rs1152884	Phenol sulfate levels	GCST90199773	12	66206971	A	G	8249	0.16	0.03	0.00	0.00	21.48
rs78439017	Phenol sulfate levels	GCST90199773	16	57609151	A	G	8249	0.12	0.03	0.00	0.00	20.98
rs14927845 3	Phenol sulfate levels	GCST90199773	17	66956895	A	G	8249	0.14	0.03	0.00	0.00	19.63
rs4799683	Phenol sulfate levels	GCST90199773	18	33275997	C	T	8249	-0.15	0.03	0.00	0.00	24.78
rs1172819	Phenol sulfate levels	GCST90199773	19	55301880	A	G	8249	0.09	0.02	0.00	0.00	25.53

rs12024366	Oleoylcarnitine levels	GCST90199774	1	111615882	G	A	8260	0.08	0.02	0.00	0.00	20.23
rs1807387	Oleoylcarnitine levels	GCST90199774	1	212466125	G	T	8260	-0.11	0.02	0.00	0.00	20.43
rs1317019	Oleoylcarnitine levels	GCST90199774	2	18959268	G	A	8260	-0.08	0.02	0.00	0.00	20.04
rs4615111	Oleoylcarnitine levels	GCST90199774	3	117768754	T	G	8260	0.08	0.02	0.00	0.00	21.85
rs74490628	Oleoylcarnitine levels	GCST90199774	3	196349220	T	C	8260	-0.27	0.06	0.00	0.00	19.85
rs62302033	Oleoylcarnitine levels	GCST90199774	4	36916210	A	G	8260	-0.07	0.02	0.00	0.00	22.03
rs62343879	Oleoylcarnitine levels	GCST90199774	5	23081264	T	C	8260	0.24	0.05	0.00	0.00	20.35
rs2631367	Oleoylcarnitine levels	GCST90199774	5	132369766	G	C	8260	0.12	0.02	0.00	0.01	63.16
rs143370068	Oleoylcarnitine levels	GCST90199774	5	151384678	T	C	8260	-0.31	0.07	0.00	0.00	20.49
rs73333727	Oleoylcarnitine levels	GCST90199774	5	175594777	T	C	8260	-0.35	0.08	0.00	0.00	19.93
rs12210538	Oleoylcarnitine levels	GCST90199774	6	110438805	G	A	8260	-0.21	0.02	0.00	0.02	139.29
rs41281048	Oleoylcarnitine levels	GCST90199774	7	107955287	G	A	8260	-0.24	0.05	0.00	0.00	20.00
rs855738	Oleoylcarnitine levels	GCST90199774	7	149667847	A	G	8260	0.07	0.02	0.00	0.00	19.74
rs141181597	Oleoylcarnitine levels	GCST90199774	8	615474	G	A	8260	0.46	0.10	0.00	0.00	19.93
rs7830388	Oleoylcarnitine levels	GCST90199774	8	105524455	G	T	8260	-0.07	0.02	0.00	0.00	21.96
rs10491531	Oleoylcarnitine levels	GCST90199774	9	119013946	C	T	8260	-0.15	0.03	0.00	0.00	20.19
rs7908745	Oleoylcarnitine levels	GCST90199774	10	45458319	G	A	8260	0.07	0.02	0.00	0.00	19.82
rs1171618	Oleoylcarnitine levels	GCST90199774	10	59706183	C	T	8260	0.08	0.02	0.00	0.00	23.75
rs12317268	Oleoylcarnitine levels	GCST90199774	12	21199607	G	A	8260	0.11	0.02	0.00	0.00	26.35
rs7133712	Oleoylcarnitine levels	GCST90199774	12	118458445	A	T	8260	0.14	0.03	0.00	0.00	25.14
rs117586431	Oleoylcarnitine levels	GCST90199774	13	69748126	G	C	8260	0.35	0.08	0.00	0.00	19.73
rs117554227	Oleoylcarnitine levels	GCST90199774	14	37232305	A	G	8260	-0.17	0.04	0.00	0.00	22.29
rs57114798	Oleoylcarnitine levels	GCST90199774	15	28973647	T	A	8260	-0.14	0.03	0.00	0.00	20.66
rs1935638	Oleoylcarnitine levels	GCST90199774	15	93815651	T	C	8260	0.24	0.05	0.00	0.00	21.05
rs143984276	Oleoylcarnitine levels	GCST90199774	16	18061854	A	G	8260	-0.48	0.10	0.00	0.00	21.49
rs183290822	Oleoylcarnitine levels	GCST90199774	17	22459071	T	C	8260	-0.34	0.07	0.00	0.00	20.63
rs208822	Oleoylcarnitine levels	GCST90199774	20	38840613	G	A	8260	0.16	0.04	0.00	0.00	20.21
rs114086918	Gamma-glutamylisoleucine levels	GCST90199775	2	98115898	A	G	8267	0.20	0.04	0.00	0.00	19.58
rs10928245	Gamma-glutamylisoleucine levels	GCST90199775	2	145354403	C	T	8267	-0.09	0.02	0.00	0.00	23.08
rs116838184	Gamma-glutamylisoleucine levels	GCST90199775	2	213673957	G	A	8267	0.32	0.06	0.00	0.00	24.45
rs8192549	Gamma-glutamylisoleucine levels	GCST90199775	4	186534175	A	G	8267	-0.19	0.04	0.00	0.00	21.48
rs17624697	Gamma-glutamylisoleucine levels	GCST90199775	7	53611735	A	T	8267	0.08	0.02	0.00	0.00	22.29
rs80329585	Gamma-glutamylisoleucine levels	GCST90199775	8	33912188	C	A	8267	-0.32	0.07	0.00	0.00	19.84

rs144145554	Gamma-glutamylisoleucine levels	GCST90199775	10	102106684	A	G	8267	0.23	0.05	0.00	0.00	21.76
rs4578299	Gamma-glutamylisoleucine levels	GCST90199775	10	120537727	C	T	8267	-0.07	0.02	0.00	0.00	23.05
rs58080742	Gamma-glutamylisoleucine levels	GCST90199775	11	117479906	A	C	8267	-0.08	0.02	0.00	0.00	21.41
rs144523221	Gamma-glutamylisoleucine levels	GCST90199775	12	71804555	T	G	8267	0.31	0.07	0.00	0.00	20.97
rs79372191	Gamma-glutamylisoleucine levels	GCST90199775	14	21725236	A	G	8267	-0.55	0.12	0.00	0.00	20.52
rs2283379	Gamma-glutamylisoleucine levels	GCST90199775	14	72462121	C	A	8267	-0.08	0.02	0.00	0.00	20.19
rs6064791	Gamma-glutamylisoleucine levels	GCST90199775	20	38627993	G	A	8267	-0.07	0.02	0.00	0.00	19.52
rs71317621	Gamma-glutamylisoleucine levels	GCST90199775	21	15571866	T	A	8267	0.20	0.04	0.00	0.00	22.61
rs4049869	Gamma-glutamylisoleucine levels	GCST90199775	22	24618473	C	A	8267	-0.10	0.02	0.00	0.00	36.97
rs45590338	Gamma-glutamylisoleucine levels	GCST90199775	22	36226381	C	G	8267	0.19	0.04	0.00	0.00	21.14
rs71442305	Malonylcarnitine levels	GCST90199776	2	1890520	C	A	5822	-0.19	0.04	0.00	0.00	22.23
rs12476354	Malonylcarnitine levels	GCST90199776	2	34096187	A	G	5822	0.11	0.02	0.00	0.00	20.60
rs34622981	Malonylcarnitine levels	GCST90199776	3	46501835	T	C	5822	0.10	0.02	0.00	0.00	20.77
rs2378502	Malonylcarnitine levels	GCST90199776	3	189585922	G	T	5822	0.09	0.02	0.00	0.00	25.43
rs79553530	Malonylcarnitine levels	GCST90199776	4	5535453	A	G	5822	-0.28	0.06	0.00	0.00	24.27
rs148948392	Malonylcarnitine levels	GCST90199776	4	134691429	A	G	5822	0.24	0.05	0.00	0.00	22.49
rs73024329	Malonylcarnitine levels	GCST90199776	4	187204967	A	G	5822	-0.26	0.06	0.00	0.00	19.88
rs200837	Malonylcarnitine levels	GCST90199776	5	132364266	A	G	5822	-0.10	0.02	0.00	0.00	26.38
rs13183458	Malonylcarnitine levels	GCST90199776	5	168878156	T	C	5822	-0.09	0.02	0.00	0.00	19.97
rs2504846	Malonylcarnitine levels	GCST90199776	6	40406107	C	T	5822	-0.25	0.05	0.00	0.00	22.25
rs78775963	Malonylcarnitine levels	GCST90199776	7	9520692	C	T	5822	-0.27	0.06	0.00	0.00	19.73
rs16909306	Malonylcarnitine levels	GCST90199776	8	81526986	G	A	5822	0.14	0.03	0.00	0.00	21.63
rs17781620	Malonylcarnitine levels	GCST90199776	8	134792353	C	T	5822	-0.14	0.03	0.00	0.00	19.75
rs78829887	Malonylcarnitine levels	GCST90199776	10	50396526	A	G	5822	0.21	0.05	0.00	0.00	19.96
rs76200569	Malonylcarnitine levels	GCST90199776	12	46025998	T	C	5822	-0.30	0.07	0.00	0.00	19.62
rs11068338	Malonylcarnitine levels	GCST90199776	12	117104302	A	G	5822	-0.09	0.02	0.00	0.00	20.18
rs6572088	Malonylcarnitine levels	GCST90199776	14	41347051	A	T	5822	0.08	0.02	0.00	0.00	20.81
rs17176113	Malonylcarnitine levels	GCST90199776	14	70233305	A	G	5822	0.29	0.06	0.00	0.00	22.72
rs12909542	Malonylcarnitine levels	GCST90199776	15	96299040	T	C	5822	0.18	0.04	0.00	0.00	21.13
rs520761	Malonylcarnitine levels	GCST90199776	16	286229	C	A	5822	0.12	0.02	0.00	0.00	24.48
rs9955021	Malonylcarnitine levels	GCST90199776	18	2502417	C	T	5822	0.09	0.02	0.00	0.00	19.78
rs12958307	Malonylcarnitine levels	GCST90199776	18	66492615	C	A	5822	-0.09	0.02	0.00	0.00	21.27

rs134810	Malonylcarnitine levels	GCST90199776	22	27278871	G	T	5822	0.09	0.02	0.00	0.00	21.69
rs61781291	palmitoleoyl-GPC (16:1) 1-	GCST90199777	1	39936166	A	T	8227	0.11	0.02	0.00	0.00	39.94
rs10864726	palmitoleoyl-GPC (16:1) 1-	GCST90199777	1	230160406	T	C	8227	0.08	0.02	0.00	0.00	24.76
rs1260326	palmitoleoyl-GPC (16:1) 1-	GCST90199777	2	27508073	C	T	8227	-0.09	0.02	0.00	0.00	32.74
rs2320542	palmitoleoyl-GPC (16:1) 1-	GCST90199777	2	133031501	A	G	8227	0.08	0.02	0.00	0.00	21.07
rs113226732	palmitoleoyl-GPC (16:1) 1-	GCST90199777	2	151955668	A	G	8227	0.19	0.04	0.00	0.00	20.14
rs116021101	palmitoleoyl-GPC (16:1) 1-	GCST90199777	2	163910082	C	T	8227	0.21	0.04	0.00	0.00	22.88
rs111352869	palmitoleoyl-GPC (16:1) 1-	GCST90199777	2	166589504	T	C	8227	0.22	0.05	0.00	0.00	20.84
rs138076148	palmitoleoyl-GPC (16:1) 1-	GCST90199777	3	66159130	A	G	8227	-0.44	0.09	0.00	0.00	22.28
rs4419349	palmitoleoyl-GPC (16:1) 1-	GCST90199777	3	146951426	C	T	8227	0.14	0.03	0.00	0.00	19.96
rs112203157	palmitoleoyl-GPC (16:1) 1-	GCST90199777	4	29982419	C	T	8227	0.23	0.05	0.00	0.00	22.45
rs7707187	palmitoleoyl-GPC (16:1) 1-	GCST90199777	5	23671161	C	T	8227	0.10	0.02	0.00	0.00	21.75
rs830869	palmitoleoyl-GPC (16:1) 1-	GCST90199777	5	52622220	T	G	8227	-0.12	0.03	0.00	0.00	19.99
rs17589076	palmitoleoyl-GPC (16:1) 1-	GCST90199777	5	89957364	T	G	8227	-0.10	0.02	0.00	0.00	20.16
rs17074783	palmitoleoyl-GPC (16:1) 1-	GCST90199777	5	172429757	A	G	8227	-0.17	0.04	0.00	0.00	20.53
rs13205488	palmitoleoyl-GPC (16:1) 1-	GCST90199777	6	92251137	G	A	8227	0.08	0.02	0.00	0.00	22.79
rs72975534	palmitoleoyl-GPC (16:1) 1-	GCST90199777	6	136175155	C	T	8227	-0.31	0.07	0.00	0.00	20.67
rs6952939	palmitoleoyl-GPC (16:1) 1-	GCST90199777	7	8557486	C	A	8227	0.08	0.02	0.00	0.00	28.44
rs76532772	palmitoleoyl-GPC (16:1) 1-	GCST90199777	7	91562621	C	G	8227	0.13	0.03	0.00	0.00	20.18
rs4727713	palmitoleoyl-GPC (16:1) 1-	GCST90199777	7	108575414	A	G	8227	-0.14	0.03	0.00	0.00	23.50
rs71547593	palmitoleoyl-GPC (16:1) 1-	GCST90199777	7	158943170	A	G	8227	0.30	0.07	0.00	0.00	19.89
rs139757250	palmitoleoyl-GPC (16:1) 1-	GCST90199777	8	26220810	C	A	8227	0.25	0.05	0.00	0.00	23.97
rs111939934	palmitoleoyl-GPC (16:1) 1-	GCST90199777	8	68088077	C	A	8227	-0.30	0.07	0.00	0.00	19.51
rs144164029	palmitoleoyl-GPC (16:1) 1-	GCST90199777	10	65312253	G	A	8227	-0.36	0.07	0.00	0.00	22.69
rs1417000	palmitoleoyl-GPC (16:1)	GCST90199777	10	97860370	C	T	8227	-0.07	0.02	0.00	0.00	19.88

rs603424	1- palmitoleoyl- GPC (16:1)	GCST90199777	10	100315722	A	G	8227	-0.18	0.02	0.00	0.01	80.97
rs11237763	1- palmitoleoyl- GPC (16:1)	GCST90199777	11	79215262	G	A	8227	0.24	0.05	0.00	0.00	20.52
rs4149067	1- palmitoleoyl- GPC (16:1)	GCST90199777	12	21200977	G	C	8227	0.12	0.02	0.00	0.00	39.62
rs56091905	1- palmitoleoyl- GPC (16:1)	GCST90199777	14	47842246	G	A	8227	-0.07	0.02	0.00	0.00	19.53
rs14141773 3	1- palmitoleoyl- GPC (16:1)	GCST90199777	15	31194128	T	G	8227	0.32	0.07	0.00	0.00	20.45
rs55966046	1- palmitoleoyl- GPC (16:1)	GCST90199777	16	67432823	A	C	8227	0.13	0.03	0.00	0.00	21.86
rs75883746	1- palmitoleoyl- GPC (16:1)	GCST90199777	17	20977178	G	A	8227	-0.25	0.06	0.00	0.00	20.74
rs12608251	1- palmitoleoyl- GPC (16:1)	GCST90199777	18	34782906	T	G	8227	0.08	0.02	0.00	0.00	21.90
rs2238675	1- palmitoleoyl- GPC (16:1)	GCST90199777	19	19225799	T	C	8227	-0.11	0.02	0.00	0.00	23.52
rs4987246	1- palmitoleoyl- GPC (16:1)	GCST90199777	20	3677978	G	A	8227	0.19	0.04	0.00	0.00	19.73
rs73194667	1- palmitoleoyl- GPC (16:1)	GCST90199777	21	18347104	A	C	8227	-0.12	0.02	0.00	0.00	25.88
rs14885397 3	N-methyl-2- pyridone-5- carboxamide levels	GCST90199778	1	98258321	C	A	8177	-0.24	0.05	0.00	0.00	20.48
rs11895508	N-methyl-2- pyridone-5- carboxamide levels	GCST90199778	2	5590296	C	T	8177	0.10	0.02	0.00	0.00	24.40
rs59621444	N-methyl-2- pyridone-5- carboxamide levels	GCST90199778	2	134978078	C	T	8177	-0.11	0.02	0.00	0.00	34.26
rs13016859	N-methyl-2- pyridone-5- carboxamide levels	GCST90199778	2	173392841	G	A	8177	0.07	0.02	0.00	0.00	20.39
rs76373648	N-methyl-2- pyridone-5- carboxamide levels	GCST90199778	2	206179360	G	C	8177	0.27	0.06	0.00	0.00	22.95
rs13429657	N-methyl-2- pyridone-5- carboxamide levels	GCST90199778	2	238156602	T	C	8177	0.11	0.02	0.00	0.00	23.27
rs13063446	N-methyl-2- pyridone-5- carboxamide levels	GCST90199778	3	189807312	A	G	8177	-0.15	0.03	0.00	0.00	22.52
rs10053736	N-methyl-2- pyridone-5- carboxamide levels	GCST90199778	5	116899172	T	G	8177	0.10	0.02	0.00	0.00	20.90
rs11596655 3	N-methyl-2- pyridone-5- carboxamide levels	GCST90199778	5	120782443	A	C	8177	-0.34	0.08	0.00	0.00	19.55
rs11189332 8	N-methyl-2- pyridone-5- carboxamide levels	GCST90199778	6	13335671	A	G	8177	0.34	0.08	0.00	0.00	20.28

rs78571405	N-methyl-2-pyridone-5-carboxamide levels	GCST90199778	6	50469377	G	T	8177	-0.17	0.04	0.00	0.00	20.24
rs35433985	N-methyl-2-pyridone-5-carboxamide levels	GCST90199778	7	107803498	A	G	8177	0.42	0.09	0.00	0.00	20.58
rs4282885	N-methyl-2-pyridone-5-carboxamide levels	GCST90199778	10	62484069	A	G	8177	0.07	0.02	0.00	0.00	21.33
rs7993654	N-methyl-2-pyridone-5-carboxamide levels	GCST90199778	13	35005872	A	G	8177	-0.28	0.06	0.00	0.00	19.58
rs113950395	N-methyl-2-pyridone-5-carboxamide levels	GCST90199778	13	67185796	C	A	8177	0.29	0.06	0.00	0.00	20.94
rs12708606	N-methyl-2-pyridone-5-carboxamide levels	GCST90199778	15	93472962	G	A	8177	0.21	0.04	0.00	0.00	24.10
rs75625293	N-methyl-2-pyridone-5-carboxamide levels	GCST90199778	16	24393664	C	T	8177	0.85	0.19	0.00	0.00	21.08
rs117261192	N-methyl-2-pyridone-5-carboxamide levels	GCST90199778	22	33019149	G	A	8177	0.28	0.06	0.00	0.00	20.31
rs12239686	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	1	237447583	C	T	7826	-0.39	0.08	0.00	0.00	26.30
rs2160387	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	2	64993776	C	T	7826	0.08	0.02	0.00	0.00	26.42
rs116476465	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	2	152518604	A	G	7826	0.22	0.05	0.00	0.00	21.28
rs78334557	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	3	78621924	G	A	7826	0.26	0.05	0.00	0.00	30.50
rs142253219	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	4	33070566	G	A	7826	0.25	0.06	0.00	0.00	19.99
rs13150543	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	4	88331890	G	A	7826	-0.08	0.02	0.00	0.00	27.05
rs72676721	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	4	111242438	G	C	7826	-0.23	0.05	0.00	0.00	21.57
rs6842362	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	4	130873204	G	T	7826	-0.08	0.02	0.00	0.00	21.51
rs143837154	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	5	148854273	T	G	7826	-0.59	0.10	0.00	0.00	33.29
rs76673001	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	6	39929621	A	G	7826	0.16	0.04	0.00	0.00	19.65

rs1324440	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	6	114452972	C	T	7826	-0.11	0.02	0.00	0.00	21.46
rs2526103	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	7	11635952	G	A	7826	0.08	0.02	0.00	0.00	23.54
rs80140779	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	7	128904679	C	T	7826	0.34	0.08	0.00	0.00	20.41
rs10957706	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	8	74290051	A	G	7826	0.09	0.02	0.00	0.00	22.91
rs10098706	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	8	134145174	A	G	7826	-0.16	0.03	0.00	0.00	21.82
rs148878363	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	9	133672772	G	A	7826	-0.26	0.06	0.00	0.00	21.34
rs11251079	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	10	2164473	A	G	7826	0.08	0.02	0.00	0.00	20.59
rs2421124	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	10	122716870	C	G	7826	-0.08	0.02	0.00	0.00	20.76
rs138800756	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	12	88239812	T	C	7826	0.12	0.03	0.00	0.00	20.93
rs79431581	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	12	117640727	C	T	7826	-0.30	0.07	0.00	0.00	19.73
rs11839149	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	13	49329198	G	C	7826	-0.13	0.02	0.00	0.00	29.97
rs114616280	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	14	74078987	A	C	7826	0.25	0.05	0.00	0.00	20.47
rs77090488	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	14	84493455	A	C	7826	-0.34	0.07	0.00	0.00	21.99
rs1683095	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	14	97045410	G	T	7826	-0.10	0.02	0.00	0.00	21.58
rs12922378	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	16	80608810	G	A	7826	-0.29	0.06	0.00	0.00	20.95
rs4251790	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	17	35845670	T	C	7826	-0.43	0.10	0.00	0.00	20.10
rs8099212	Gamma-glutamyl-2-aminobutyrate levels	GCST90199779	18	4762574	C	G	7826	0.08	0.02	0.00	0.00	20.63
rs526887	1-stearoyl-GPG (18:0) levels	GCST90199780	1	212448177	C	T	6806	-0.27	0.06	0.00	0.00	19.88
rs142774760	1-stearoyl-GPG (18:0) levels	GCST90199780	2	35902613	A	G	6806	-0.18	0.04	0.00	0.00	21.85

rs183004	1-stearoyl- GPG (18:0) levels	GCST90199780	3	6680813	A	C	6806	0.11	0.02	0.00	0.00	20.71
rs17200979	1-stearoyl- GPG (18:0) levels	GCST90199780	3	17836336	T	G	6806	-0.08	0.02	0.00	0.00	19.89
rs10937658	1-stearoyl- GPG (18:0) levels	GCST90199780	4	5681084	A	G	6806	0.09	0.02	0.00	0.00	19.62
rs13150137	1-stearoyl- GPG (18:0) levels	GCST90199780	4	56407143	A	G	6806	0.09	0.02	0.00	0.00	23.93
rs18350103 9	1-stearoyl- GPG (18:0) levels	GCST90199780	4	138896718	T	G	6806	-0.20	0.04	0.00	0.00	19.52
rs11222293 6	1-stearoyl- GPG (18:0) levels	GCST90199780	5	109507182	A	G	6806	-0.41	0.08	0.00	0.00	24.84
rs9462971	1-stearoyl- GPG (18:0) levels	GCST90199780	6	44178703	G	A	6806	-0.09	0.02	0.00	0.00	20.24
rs79363542	1-stearoyl- GPG (18:0) levels	GCST90199780	6	96269748	A	C	6806	-0.26	0.06	0.00	0.00	22.45
rs2428176	1-stearoyl- GPG (18:0) levels	GCST90199780	6	110484528	G	A	6806	0.09	0.02	0.00	0.00	21.46
rs72976980	1-stearoyl- GPG (18:0) levels	GCST90199780	6	139548683	T	C	6806	-0.12	0.03	0.00	0.00	20.55
rs13246846	1-stearoyl- GPG (18:0) levels	GCST90199780	7	29121236	C	T	6806	0.09	0.02	0.00	0.00	22.58
rs14114256 3	1-stearoyl- GPG (18:0) levels	GCST90199780	7	47875555	T	C	6806	0.32	0.07	0.00	0.00	19.85
rs77534461	1-stearoyl- GPG (18:0) levels	GCST90199780	7	112053236	T	C	6806	-0.20	0.04	0.00	0.00	21.28
rs6962882	1-stearoyl- GPG (18:0) levels	GCST90199780	7	127542254	T	C	6806	0.08	0.02	0.00	0.00	19.95
rs56225870 9	1-stearoyl- GPG (18:0) levels	GCST90199780	9	138952	G	T	6806	0.42	0.09	0.00	0.00	20.56
rs6477710	1-stearoyl- GPG (18:0) levels	GCST90199780	9	96823032	T	G	6806	-0.08	0.02	0.00	0.00	22.20
rs1750722	1-stearoyl- GPG (18:0) levels	GCST90199780	10	11134840	C	T	6806	-0.08	0.02	0.00	0.00	20.75
rs72783089	1-stearoyl- GPG (18:0) levels	GCST90199780	10	48463526	T	C	6806	-0.16	0.03	0.00	0.00	30.69
rs964184	1-stearoyl- GPG (18:0) levels	GCST90199780	11	116778201	C	G	6806	-0.13	0.03	0.00	0.00	28.82
rs4149056	1-stearoyl- GPG (18:0) levels	GCST90199780	12	21178615	C	T	6806	0.23	0.02	0.00	0.01	100.85
rs57302245 0	1-stearoyl- GPG (18:0) levels	GCST90199780	13	103586745	G	A	6806	0.33	0.07	0.00	0.00	24.03
rs17634084	1-stearoyl- GPG (18:0) levels	GCST90199780	15	54070908	A	C	6806	0.10	0.02	0.00	0.00	19.76
rs1532085	1-stearoyl- GPG (18:0) levels	GCST90199780	15	58391167	G	A	6806	-0.11	0.02	0.00	0.01	40.59
rs34738810	1-stearoyl- GPG (18:0) levels	GCST90199780	16	58449212	C	G	6806	0.13	0.03	0.00	0.00	19.58

rs139152133	1-stearoyl-GPG (18:0) levels	GCST90199780	19	43261245	G	C	6806	-0.40	0.09	0.00	0.00	21.04
rs260440	1-stearoyl-GPG (18:0) levels	GCST90199780	19	58229378	C	T	6806	-0.08	0.02	0.00	0.00	19.84
rs7513363	Hexanoylglyceride levels	GCST90199781	1	75677758	G	A	6015	-0.28	0.02	0.00	0.04	221.88
rs144735792	Hexanoylglyceride levels	GCST90199781	1	220607547	T	C	6015	-0.31	0.07	0.00	0.00	21.48
rs116793705	Hexanoylglyceride levels	GCST90199781	2	169091603	C	T	6015	0.65	0.14	0.00	0.00	20.47
rs1047891	Hexanoylglyceride levels	GCST90199781	2	210675783	A	C	6015	0.33	0.02	0.00	0.05	297.82
rs113566277	Hexanoylglyceride levels	GCST90199781	3	14825563	C	T	6015	0.20	0.04	0.00	0.00	26.07
rs9821781	Hexanoylglyceride levels	GCST90199781	3	149644618	A	G	6015	0.09	0.02	0.00	0.00	24.26
rs78851313	Hexanoylglyceride levels	GCST90199781	3	177551102	A	C	6015	0.27	0.06	0.00	0.00	21.69
rs147077810	Hexanoylglyceride levels	GCST90199781	3	195016453	A	G	6015	0.38	0.08	0.00	0.00	21.29
rs11727284	Hexanoylglyceride levels	GCST90199781	4	159222874	G	C	6015	0.34	0.08	0.00	0.00	20.34
rs17063187	Hexanoylglyceride levels	GCST90199781	5	164340503	A	G	6015	-0.15	0.03	0.00	0.00	21.00
rs11155377	Hexanoylglyceride levels	GCST90199781	6	144818213	A	T	6015	0.12	0.03	0.00	0.00	19.91
rs35137479	Hexanoylglyceride levels	GCST90199781	8	4750152	T	C	6015	0.22	0.05	0.00	0.00	21.85
rs141714213	Hexanoylglyceride levels	GCST90199781	8	49584955	T	C	6015	-0.53	0.12	0.00	0.00	19.52
rs76914369	Hexanoylglyceride levels	GCST90199781	8	86895882	G	A	6015	0.20	0.04	0.00	0.00	22.16
rs12549155	Hexanoylglyceride levels	GCST90199781	8	111593152	A	T	6015	0.09	0.02	0.00	0.00	23.74
rs4740887	Hexanoylglyceride levels	GCST90199781	9	7394173	T	A	6015	0.08	0.02	0.00	0.00	19.88
rs73488485	Hexanoylglyceride levels	GCST90199781	9	98531210	C	T	6015	0.40	0.08	0.00	0.00	25.05
rs111971590	Hexanoylglyceride levels	GCST90199781	10	63190809	G	C	6015	-0.15	0.03	0.00	0.00	20.25
rs151202997	Hexanoylglyceride levels	GCST90199781	11	47595900	T	G	6015	0.25	0.05	0.00	0.00	22.26
rs117954835	Hexanoylglyceride levels	GCST90199781	11	85232097	C	T	6015	0.32	0.07	0.00	0.00	20.07
rs73067665	Hexanoylglyceride levels	GCST90199781	12	19745747	G	A	6015	-0.13	0.03	0.00	0.00	21.52
rs140737361	Hexanoylglyceride levels	GCST90199781	12	124939984	C	T	6015	0.73	0.16	0.00	0.00	21.47
rs9537724	Hexanoylglyceride levels	GCST90199781	13	57366908	C	T	6015	-0.15	0.03	0.00	0.00	21.00
rs146190989	Hexanoylglyceride levels	GCST90199781	14	94058491	T	C	6015	0.26	0.06	0.00	0.00	19.96
rs28404705	Hexanoylglyceride levels	GCST90199781	15	70223141	A	C	6015	0.11	0.03	0.00	0.00	19.77
rs34905538	Hexanoylglyceride levels	GCST90199781	15	100238572	A	G	6015	0.13	0.03	0.00	0.00	21.81
rs190971563	Hexanoylglyceride levels	GCST90199781	17	74403426	G	A	6015	0.41	0.06	0.00	0.01	44.07
rs148079731	Hexanoylglyceride levels	GCST90199781	22	17351951	G	C	6015	-1.01	0.22	0.00	0.00	20.11
rs62235748	Hexanoylglyceride levels	GCST90199781	22	28853167	G	A	6015	0.13	0.03	0.00	0.00	19.83
rs715	Glutamine degradant levels	GCST90199782	2	210678331	C	T	8293	-0.15	0.01	0.00	0.01	116.45
rs17279437	Glutamine degradant levels	GCST90199782	3	45772602	A	G	8293	0.24	0.02	0.00	0.01	126.15
rs74330453	Glutamine degradant levels	GCST90199782	3	51580187	C	A	8293	-0.22	0.05	0.00	0.00	23.60

rs10222346	Glutamine degradant levels	GCST90199782	3	121605163	T	C	8293	0.06	0.01	0.00	0.00	21.15
rs61792192	Glutamine degradant levels	GCST90199782	4	22888396	C	T	8293	0.37	0.08	0.00	0.00	19.76
rs14676777 5	Glutamine degradant levels	GCST90199782	5	151313145	T	G	8293	-0.50	0.06	0.00	0.01	70.40
rs200231	Glutamine degradant levels	GCST90199782	6	50446126	T	A	8293	0.22	0.05	0.00	0.00	22.59
rs9918422	Glutamine degradant levels	GCST90199782	6	89096043	C	T	8293	0.34	0.07	0.00	0.00	25.76
rs76366817	Glutamine degradant levels	GCST90199782	6	143025804	T	G	8293	-0.44	0.09	0.00	0.00	24.07
rs14506214 2	Glutamine degradant levels	GCST90199782	7	6642976	G	C	8293	-0.21	0.05	0.00	0.00	19.58
rs2041517	Glutamine degradant levels	GCST90199782	7	31921925	C	T	8293	0.06	0.01	0.00	0.00	19.67
rs4726088	Glutamine degradant levels	GCST90199782	7	151733623	A	G	8293	-0.06	0.01	0.00	0.00	21.07
rs14036935 6	Glutamine degradant levels	GCST90199782	7	152620885	A	G	8293	-0.19	0.04	0.00	0.00	21.82
rs9643828	Glutamine degradant levels	GCST90199782	8	54616513	T	C	8293	0.07	0.01	0.00	0.00	21.41
rs11780900	Glutamine degradant levels	GCST90199782	8	96049235	G	A	8293	0.07	0.02	0.00	0.00	19.61
rs11315732 7	Glutamine degradant levels	GCST90199782	9	780152	A	G	8293	0.07	0.02	0.00	0.00	19.63
rs7915131	Glutamine degradant levels	GCST90199782	10	62658896	T	C	8293	0.06	0.01	0.00	0.00	21.14
rs10830022	Glutamine degradant levels	GCST90199782	10	131524569	G	C	8293	-0.06	0.01	0.00	0.00	23.13
rs10774021	Glutamine degradant levels	GCST90199782	12	240132	T	C	8293	0.15	0.01	0.00	0.01	118.86
rs2737700	Glutamine degradant levels	GCST90199782	13	23333895	G	A	8293	0.06	0.01	0.00	0.00	21.88
rs35518298	Glutamine degradant levels	GCST90199782	13	70976386	T	C	8293	0.19	0.04	0.00	0.00	20.04
rs73260922	Glutamine degradant levels	GCST90199782	14	48994841	A	G	8293	0.08	0.02	0.00	0.00	19.98
rs2467862	Glutamine degradant levels	GCST90199782	15	45351645	G	T	8293	-0.08	0.01	0.00	0.00	36.05
rs7163136	Glutamine degradant levels	GCST90199782	15	68789165	G	A	8293	-0.11	0.02	0.00	0.00	22.67
rs12611131	Glutamine degradant levels	GCST90199782	19	577321	T	C	8293	0.10	0.02	0.00	0.00	22.81
rs5754226	Glutamine degradant levels	GCST90199782	22	32708362	G	A	8293	-0.09	0.02	0.00	0.00	22.82
rs35881890	Glutamine degradant levels	GCST90199782	22	43506998	A	G	8293	0.11	0.02	0.00	0.00	20.30

rs367701325	5-methyluridine (ribothymidine) levels	GCST90199783	1	12886467	C	G	8168	-0.53	0.11	0.00	0.00	25.24
rs76221041	5-methyluridine (ribothymidine) levels	GCST90199783	2	2825134	C	A	8168	-0.14	0.03	0.00	0.00	21.31
rs11687659	5-methyluridine (ribothymidine) levels	GCST90199783	2	190876471	A	C	8168	-0.08	0.02	0.00	0.00	24.13
rs7663181	5-methyluridine (ribothymidine) levels	GCST90199783	4	6351381	C	T	8168	0.39	0.09	0.00	0.00	19.74
rs35876831	5-methyluridine (ribothymidine) levels	GCST90199783	4	63638002	A	G	8168	0.08	0.02	0.00	0.00	20.54
rs72673019	5-methyluridine (ribothymidine) levels	GCST90199783	4	121459240	T	C	8168	-0.20	0.04	0.00	0.00	19.56
rs114608987	5-methyluridine (ribothymidine) levels	GCST90199783	4	189607986	T	C	8168	-0.47	0.09	0.00	0.00	28.91
rs3129977	5-methyluridine (ribothymidine) levels	GCST90199783	6	30778023	C	A	8168	-0.10	0.02	0.00	0.00	20.81
rs1005230	5-methyluridine (ribothymidine) levels	GCST90199783	6	43768759	C	T	8168	-0.07	0.02	0.00	0.00	22.97
rs140816551	5-methyluridine (ribothymidine) levels	GCST90199783	6	94150987	T	G	8168	-0.21	0.05	0.00	0.00	20.89
rs7778639	5-methyluridine (ribothymidine) levels	GCST90199783	7	28330948	T	C	8168	-0.07	0.02	0.00	0.00	22.28
rs7804178	5-methyluridine (ribothymidine) levels	GCST90199783	7	48082596	C	A	8168	0.14	0.02	0.00	0.01	89.74
rs76045878	5-methyluridine (ribothymidine) levels	GCST90199783	12	95968129	G	C	8168	0.30	0.06	0.00	0.00	21.55
rs370086275	5-methyluridine (ribothymidine) levels	GCST90199783	12	128016407	G	A	8168	-0.29	0.06	0.00	0.00	22.04
rs138247735	5-methyluridine (ribothymidine) levels	GCST90199783	13	53838870	A	G	8168	0.29	0.06	0.00	0.00	24.09
rs117811282	5-methyluridine (ribothymidine) levels	GCST90199783	14	98968830	A	C	8168	-0.26	0.06	0.00	0.00	21.07
rs557700	5-methyluridine (ribothymidine) levels	GCST90199783	15	47790829	C	T	8168	0.09	0.02	0.00	0.00	29.95
rs28607498	5-methyluridine (ribothymidine) levels	GCST90199783	16	6664936	C	A	8168	0.08	0.02	0.00	0.00	24.95

rs756881	5-methyluridine (ribothymidine) levels	GCST90199783	17	34453741	A	G	8168	0.07	0.02	0.00	0.00	20.85
rs144140959	5-methyluridine (ribothymidine) levels	GCST90199783	17	77177480	T	G	8168	-0.26	0.06	0.00	0.00	21.54
rs112281729	5-methyluridine (ribothymidine) levels	GCST90199783	18	67119394	G	T	8168	-0.26	0.06	0.00	0.00	19.90
rs140319072	5-methyluridine (ribothymidine) levels	GCST90199783	19	39277664	A	G	8168	-0.21	0.04	0.00	0.00	22.54
rs4815825	5-methyluridine (ribothymidine) levels	GCST90199783	20	5495616	C	T	8168	0.07	0.02	0.00	0.00	19.75
rs35327803	5-methyluridine (ribothymidine) levels	GCST90199783	20	23270555	T	C	8168	0.07	0.02	0.00	0.00	19.66
rs28622129	5-methyluridine (ribothymidine) levels	GCST90199783	22	50135601	G	A	8168	0.22	0.05	0.00	0.00	23.16
rs131805	5-methyluridine (ribothymidine) levels	GCST90199783	22	50525724	C	T	8168	-0.57	0.02	0.00	0.12	#####
rs9616789	5-methyluridine (ribothymidine) levels	GCST90199783	22	50540075	A	G	8168	-0.17	0.03	0.00	0.00	29.50
rs6688638	Cysteine-glutathione disulfide levels	GCST90199784	1	16178809	C	T	7812	-0.08	0.02	0.00	0.00	23.56
rs1427456	Cysteine-glutathione disulfide levels	GCST90199784	2	49335724	C	T	7812	0.08	0.02	0.00	0.00	19.85
rs4343521	Cysteine-glutathione disulfide levels	GCST90199784	2	133742239	A	T	7812	0.10	0.02	0.00	0.00	20.80
rs79593298	Cysteine-glutathione disulfide levels	GCST90199784	2	186243719	C	G	7812	-0.18	0.04	0.00	0.00	20.26
rs4393886	Cysteine-glutathione disulfide levels	GCST90199784	3	9881265	G	A	7812	-0.10	0.02	0.00	0.00	19.56
rs4955397	Cysteine-glutathione disulfide levels	GCST90199784	3	38260646	C	T	7812	-0.19	0.04	0.00	0.00	23.78
rs115508378	Cysteine-glutathione disulfide levels	GCST90199784	3	59876006	G	A	7812	-0.44	0.10	0.00	0.00	19.64
rs28430399	Cysteine-glutathione disulfide levels	GCST90199784	4	15296930	A	C	7812	-0.13	0.03	0.00	0.00	20.27
rs4835265	Cysteine-glutathione disulfide levels	GCST90199784	4	145900258	A	C	7812	-0.09	0.02	0.00	0.00	20.34
rs4146680	Cysteine-glutathione disulfide levels	GCST90199784	4	178916536	A	G	7812	-0.24	0.05	0.00	0.00	22.75
rs55728962	Cysteine-glutathione disulfide levels	GCST90199784	5	119700742	T	G	7812	-0.24	0.05	0.00	0.00	22.15
rs55672111	Cysteine-glutathione disulfide levels	GCST90199784	6	25386484	G	C	7812	-0.10	0.02	0.00	0.00	19.60

rs13878317 1	Cysteine- glutathione disulfide levels	GCST90199784	6	126432553	G	A	7812	-0.23	0.05	0.00	0.00	21.57
rs12700541	Cysteine- glutathione disulfide levels	GCST90199784	7	24673672	A	G	7812	-0.10	0.02	0.00	0.00	22.11
rs14406526 8	Cysteine- glutathione disulfide levels	GCST90199784	7	35189892	T	C	7812	-0.18	0.04	0.00	0.00	19.51
rs58233799	Cysteine- glutathione disulfide levels	GCST90199784	7	79533654	G	C	7812	-0.23	0.05	0.00	0.00	20.02
rs1002981	Cysteine- glutathione disulfide levels	GCST90199784	8	133658632	C	G	7812	-0.08	0.02	0.00	0.00	21.55
rs912801	Cysteine- glutathione disulfide levels	GCST90199784	10	43963906	T	C	7812	0.24	0.05	0.00	0.00	20.01
rs2874684	Cysteine- glutathione disulfide levels	GCST90199784	13	34383577	A	G	7812	-0.08	0.02	0.00	0.00	20.87
rs74061506	Cysteine- glutathione disulfide levels	GCST90199784	14	67717821	A	T	7812	0.14	0.03	0.00	0.00	20.08
rs55975236	Cysteine- glutathione disulfide levels	GCST90199784	14	103121098	C	T	7812	-0.11	0.02	0.00	0.00	20.98
rs2541497	Cysteine- glutathione disulfide levels	GCST90199784	16	10680264	T	G	7812	0.08	0.02	0.00	0.00	21.32
rs924138	Cysteine- glutathione disulfide levels	GCST90199784	16	16032907	C	T	7812	0.10	0.02	0.00	0.00	37.57
rs15097781 1	Cysteine- glutathione disulfide levels	GCST90199784	16	80441717	G	A	7812	-0.23	0.05	0.00	0.00	20.59
rs11391509 1	Cysteine- glutathione disulfide levels	GCST90199784	18	77507921	T	C	7812	0.14	0.03	0.00	0.00	26.05
rs14604892 0	Cysteine- glutathione disulfide levels	GCST90199784	22	24172628	A	G	7812	0.35	0.07	0.00	0.00	22.03
rs3859862	Cysteine- glutathione disulfide levels	GCST90199784	22	24601103	G	A	7812	-0.29	0.02	0.00	0.04	308.16
rs61766381	Isovalerylglyci ne levels	GCST90199785	1	63117287	T	C	7100	-0.11	0.02	0.00	0.00	19.52
rs41271955	Isovalerylglyci ne levels	GCST90199785	1	161962358	C	T	7100	0.23	0.05	0.00	0.00	20.59
rs6726136	Isovalerylglyci ne levels	GCST90199785	2	9195371	C	A	7100	-0.08	0.02	0.00	0.00	19.71
rs1047891	Isovalerylglyci ne levels	GCST90199785	2	210675783	A	C	7100	0.22	0.02	0.00	0.02	149.64
rs73128459	Isovalerylglyci ne levels	GCST90199785	3	65246871	A	T	7100	-0.15	0.03	0.00	0.00	20.54
rs2271823	Isovalerylglyci ne levels	GCST90199785	3	197004814	C	T	7100	-0.10	0.02	0.00	0.00	21.29
rs10022462	Isovalerylglyci ne levels	GCST90199785	4	88322666	T	C	7100	0.09	0.02	0.00	0.00	29.88
rs6854192	Isovalerylglyci ne levels	GCST90199785	4	171870341	T	C	7100	0.13	0.02	0.00	0.00	28.29
rs916821	Isovalerylglyci ne levels	GCST90199785	5	11398734	G	A	7100	0.64	0.14	0.00	0.00	20.81
rs15102735 5	Isovalerylglyci ne levels	GCST90199785	5	55733536	T	G	7100	-0.50	0.11	0.00	0.00	21.26
rs11453858 3	Isovalerylglyci ne levels	GCST90199785	5	67295429	T	C	7100	-0.37	0.08	0.00	0.00	20.22
rs2731726	Isovalerylglyci ne levels	GCST90199785	5	172387496	A	G	7100	-0.08	0.02	0.00	0.00	21.17
rs9473939	Isovalerylglyci ne levels	GCST90199785	6	50909764	G	T	7100	0.13	0.03	0.00	0.00	22.85
rs2979782	Isovalerylglyci ne levels	GCST90199785	8	17736534	C	A	7100	0.09	0.02	0.00	0.00	23.28

rs116953025	Isovalerylglycine levels	GCST90199785	8	110755655	G	A	7100	0.37	0.08	0.00	0.00	22.28
rs7046371	Isovalerylglycine levels	GCST90199785	9	10941260	G	C	7100	-0.13	0.03	0.00	0.00	19.52
rs10896190	Isovalerylglycine levels	GCST90199785	11	67638652	C	T	7100	-0.08	0.02	0.00	0.00	23.73
rs943402	Isovalerylglycine levels	GCST90199785	12	100399201	C	T	7100	0.10	0.02	0.00	0.00	20.85
rs9533434	Isovalerylglycine levels	GCST90199785	13	43239593	G	C	7100	0.11	0.02	0.00	0.00	27.86
rs118143972	Isovalerylglycine levels	GCST90199785	16	51059213	C	T	7100	0.22	0.04	0.00	0.00	25.86
rs117786605	Isovalerylglycine levels	GCST90199785	16	87369331	T	C	7100	0.28	0.06	0.00	0.00	20.46
rs185102111	Isovalerylglycine levels	GCST90199785	19	3167404	G	A	7100	0.25	0.06	0.00	0.00	20.33
rs61729129	Isovalerylglycine levels	GCST90199785	19	38162322	T	C	7100	-0.26	0.06	0.00	0.00	19.56
rs4822809	Isovalerylglycine levels	GCST90199785	22	26877891	G	A	7100	-0.09	0.02	0.00	0.00	24.02
rs17471689	2-hydroxy-3-methylvalerate levels	GCST90199786	1	17981561	A	G	8246	-0.08	0.02	0.00	0.00	23.65
rs10802092	2-hydroxy-3-methylvalerate levels	GCST90199786	1	119392884	T	A	8246	0.13	0.01	0.00	0.01	73.15
rs975153	2-hydroxy-3-methylvalerate levels	GCST90199786	1	192784875	C	T	8246	0.26	0.06	0.00	0.00	19.89
rs115389355	2-hydroxy-3-methylvalerate levels	GCST90199786	3	9103482	A	G	8246	0.22	0.05	0.00	0.00	20.81
rs146151859	2-hydroxy-3-methylvalerate levels	GCST90199786	3	21432877	C	A	8246	-0.36	0.08	0.00	0.00	21.43
rs12509730	2-hydroxy-3-methylvalerate levels	GCST90199786	4	53362032	A	C	8246	-0.13	0.03	0.00	0.00	19.57
rs15098997	2-hydroxy-3-methylvalerate levels	GCST90199786	6	32994994	A	G	8246	0.16	0.04	0.00	0.00	20.74
rs117334069	2-hydroxy-3-methylvalerate levels	GCST90199786	6	136658904	T	C	8246	0.34	0.08	0.00	0.00	20.03
rs145254519	2-hydroxy-3-methylvalerate levels	GCST90199786	7	87103034	A	G	8246	-0.17	0.04	0.00	0.00	21.80
rs112706990	2-hydroxy-3-methylvalerate levels	GCST90199786	7	141957006	A	G	8246	0.17	0.04	0.00	0.00	20.06
rs10809858	2-hydroxy-3-methylvalerate levels	GCST90199786	9	12908304	G	A	8246	0.08	0.02	0.00	0.00	20.08
rs79797108	2-hydroxy-3-methylvalerate levels	GCST90199786	9	81363056	A	G	8246	-0.46	0.10	0.00	0.00	21.14
rs9299181	2-hydroxy-3-methylvalerate levels	GCST90199786	9	110191155	A	G	8246	-0.07	0.01	0.00	0.00	22.46
rs112560636	2-hydroxy-3-methylvalerate levels	GCST90199786	10	102345065	T	C	8246	0.11	0.02	0.00	0.00	20.14
rs3802967	2-hydroxy-3-methylvalerate levels	GCST90199786	11	18322517	C	T	8246	-0.12	0.01	0.00	0.01	76.58
rs10741744	2-hydroxy-3-methylvalerate levels	GCST90199786	11	18377191	C	A	8246	-0.10	0.02	0.00	0.00	26.95
rs28411200	2-hydroxy-3-methylvalerate levels	GCST90199786	11	69321087	C	T	8246	-0.07	0.02	0.00	0.00	19.94
rs116949893	2-hydroxy-3-methylvalerate levels	GCST90199786	11	93747168	G	A	8246	0.27	0.06	0.00	0.00	19.70

rs2255531	2-hydroxy-3-methylvalerate levels	GCST90199786	12	120977112	A	G	8246	0.08	0.02	0.00	0.00	28.75
rs113265933	2-hydroxy-3-methylvalerate levels	GCST90199786	13	78380577	T	C	8246	0.19	0.04	0.00	0.00	19.74
rs72666007	2-hydroxy-3-methylvalerate levels	GCST90199786	14	28496526	G	A	8246	0.26	0.06	0.00	0.00	21.72
rs12147505	2-hydroxy-3-methylvalerate levels	GCST90199786	14	60194016	C	T	8246	-0.31	0.07	0.00	0.00	20.80
rs62002923	2-hydroxy-3-methylvalerate levels	GCST90199786	15	38460594	G	A	8246	0.25	0.05	0.00	0.00	20.83
rs12904530	2-hydroxy-3-methylvalerate levels	GCST90199786	15	69957882	C	G	8246	0.20	0.05	0.00	0.00	19.85
rs12926840	2-hydroxy-3-methylvalerate levels	GCST90199786	16	17409877	T	A	8246	-0.08	0.02	0.00	0.00	21.55
rs1870620	2-hydroxy-3-methylvalerate levels	GCST90199786	17	79282448	G	A	8246	0.15	0.03	0.00	0.00	19.57
rs4461192	2-hydroxy-3-methylvalerate levels	GCST90199786	19	36075331	A	G	8246	-0.07	0.02	0.00	0.00	19.91
rs6085741	2-hydroxy-3-methylvalerate levels	GCST90199786	20	764800	A	C	8246	0.10	0.02	0.00	0.00	25.18
rs143569937	2-hydroxy-3-methylvalerate levels	GCST90199786	21	37858539	T	G	8246	-0.26	0.06	0.00	0.00	19.68
rs2252210	2-hydroxy-3-methylvalerate levels	GCST90199786	21	38441734	T	G	8246	0.07	0.01	0.00	0.00	24.36
rs114076932	Homostachydrine levels	GCST90199787	1	66579261	G	A	8248	-0.18	0.04	0.00	0.00	23.42
rs59357769	Homostachydrine levels	GCST90199787	2	134550860	G	A	8248	-0.08	0.02	0.00	0.00	19.96
rs114506731	Homostachydrine levels	GCST90199787	3	36473016	G	A	8248	-0.10	0.02	0.00	0.00	19.62
rs11710870	Homostachydrine levels	GCST90199787	3	71654968	A	G	8248	-0.10	0.02	0.00	0.00	21.04
rs187612898	Homostachydrine levels	GCST90199787	4	60474304	G	T	8248	0.32	0.07	0.00	0.00	19.78
rs34837397	Homostachydrine levels	GCST90199787	4	161581565	T	G	8248	-0.10	0.02	0.00	0.00	22.48
rs186037879	Homostachydrine levels	GCST90199787	4	178779565	T	C	8248	0.27	0.06	0.00	0.00	19.74
rs2516788	Homostachydrine levels	GCST90199787	5	132379873	C	G	8248	0.19	0.02	0.00	0.02	148.11
rs74823953	Homostachydrine levels	GCST90199787	5	151300049	T	C	8248	-0.43	0.07	0.00	0.00	40.28
rs9368998	Homostachydrine levels	GCST90199787	6	37411852	C	G	8248	-0.07	0.02	0.00	0.00	21.23
rs56106855	Homostachydrine levels	GCST90199787	6	42942193	C	G	8248	0.08	0.02	0.00	0.00	21.77
rs144423046	Homostachydrine levels	GCST90199787	6	115719199	T	G	8248	-0.18	0.04	0.00	0.00	20.60
rs35720320	Homostachydrine levels	GCST90199787	7	4078970	T	G	8248	-0.08	0.02	0.00	0.00	20.03
rs75562367	Homostachydrine levels	GCST90199787	7	46900548	A	G	8248	-0.25	0.06	0.00	0.00	20.86
rs73137993	Homostachydrine levels	GCST90199787	7	66734915	G	A	8248	0.14	0.03	0.00	0.00	19.61
rs55772127	Homostachydrine levels	GCST90199787	7	93029912	G	A	8248	-0.11	0.02	0.00	0.00	20.55
rs75460946	Homostachydrine levels	GCST90199787	9	81152697	G	A	8248	-0.15	0.03	0.00	0.00	22.88
rs184812914	Homostachydrine levels	GCST90199787	9	99393612	C	T	8248	0.48	0.11	0.00	0.00	20.24
rs642193	Homostachydrine levels	GCST90199787	9	133761784	A	C	8248	0.07	0.02	0.00	0.00	20.49

rs11741992 2	Homostachydr ine levels	GCST90199787	10	9306423	T	G	8248	0.18	0.04	0.00	0.00	20.99
rs10823750	Homostachydr ine levels	GCST90199787	10	51863926	G	A	8248	0.07	0.02	0.00	0.00	22.35
rs4757429	Homostachydr ine levels	GCST90199787	11	16742895	T	C	8248	-0.09	0.02	0.00	0.00	21.76
rs14395116 2	Homostachydr ine levels	GCST90199787	12	10187490	T	C	8248	0.10	0.02	0.00	0.00	20.00
rs11708299 6	Homostachydr ine levels	GCST90199787	14	45380566	A	G	8248	0.22	0.05	0.00	0.00	19.62
rs15095955 4	Homostachydr ine levels	GCST90199787	15	25170586	C	T	8248	0.25	0.06	0.00	0.00	19.77
rs2455717	Homostachydr ine levels	GCST90199787	15	82135264	T	A	8248	0.07	0.02	0.00	0.00	21.22
rs14632629 6	Homostachydr ine levels	GCST90199787	16	2067461	T	C	8248	0.30	0.07	0.00	0.00	20.23
rs75529162	Homostachydr ine levels	GCST90199787	21	22509576	A	C	8248	-0.47	0.10	0.00	0.00	21.88
rs8129815	Homostachydr ine levels	GCST90199787	21	31084089	A	T	8248	-0.07	0.02	0.00	0.00	20.71
rs61781291	arachidonoyl- gpc (20:4n6) levels 1-	GCST90199788	1	39936166	A	T	8267	0.08	0.02	0.00	0.00	22.29
rs11567705 6	arachidonoyl- gpc (20:4n6) levels 1-	GCST90199788	1	69751460	G	A	8267	-0.22	0.05	0.00	0.00	20.11
rs72871796	arachidonoyl- gpc (20:4n6) levels 1-	GCST90199788	2	161605725	G	A	8267	-0.26	0.06	0.00	0.00	19.86
rs62343171	arachidonoyl- gpc (20:4n6) levels 1-	GCST90199788	4	179549590	T	C	8267	-0.13	0.03	0.00	0.00	20.62
rs12672599	arachidonoyl- gpc (20:4n6) levels 1-	GCST90199788	7	12807014	T	C	8267	0.09	0.02	0.00	0.00	22.01
rs11773889	arachidonoyl- gpc (20:4n6) levels 1-	GCST90199788	7	36298980	T	C	8267	-0.08	0.02	0.00	0.00	20.59
rs4634608	arachidonoyl- gpc (20:4n6) levels 1-	GCST90199788	8	93516484	C	T	8267	-0.07	0.02	0.00	0.00	20.19
rs2954021	arachidonoyl- gpc (20:4n6) levels 1-	GCST90199788	8	125469835	G	A	8267	-0.09	0.02	0.00	0.00	33.62
rs1759304	arachidonoyl- gpc (20:4n6) levels 1-	GCST90199788	9	29589919	C	T	8267	0.07	0.02	0.00	0.00	19.68
rs11036860	arachidonoyl- gpc (20:4n6) levels 1-	GCST90199788	11	42368393	G	A	8267	-0.26	0.06	0.00	0.00	21.42
rs12271414	arachidonoyl- gpc (20:4n6) levels 1-	GCST90199788	11	61670092	C	G	8267	-0.10	0.02	0.00	0.00	24.57
rs102275	arachidonoyl- gpc (20:4n6) levels 1-	GCST90199788	11	61790331	C	T	8267	-0.56	0.01	0.00	0.15	#####
rs79215615	arachidonoyl- gpc (20:4n6) levels	GCST90199788	11	62127972	G	A	8267	-0.33	0.07	0.00	0.00	25.54

rs1219550	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	11	75742832	C	T	8267	-0.12	0.02	0.00	0.00	32.40
rs13800228 5	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	12	3004946	T	G	8267	-0.30	0.06	0.00	0.00	21.93
rs73067080	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	12	21235895	C	T	8267	0.10	0.02	0.00	0.00	23.47
rs11688121 0	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	13	109879346	T	A	8267	0.23	0.05	0.00	0.00	20.25
rs4500751	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	16	15046354	T	C	8267	-0.12	0.02	0.00	0.01	52.98
rs12446329	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	16	66976394	T	C	8267	0.21	0.04	0.00	0.00	21.73
rs11651313	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	17	15319401	C	T	8267	-0.12	0.03	0.00	0.00	19.88
rs12946063	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	17	17609454	C	T	8267	-0.08	0.02	0.00	0.00	25.73
rs2883070	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	17	41817384	C	T	8267	0.08	0.02	0.00	0.00	21.82
rs12937489	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	17	43694223	T	C	8267	-0.09	0.02	0.00	0.00	20.38
rs58542926	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	19	19268740	T	C	8267	-0.16	0.03	0.00	0.00	29.74
rs14209830 8	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	19	22316140	C	G	8267	-0.38	0.08	0.00	0.00	21.11
rs4816180	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	20	9829243	T	C	8267	0.08	0.02	0.00	0.00	20.16
rs79564235	1- arachidonoyl- gpc (20:4n6) levels	GCST90199788	20	38259905	C	T	8267	0.23	0.05	0.00	0.00	21.18
rs9610183	2-palmitoyl- gpc (20:4n6) levels	GCST90199788	22	34973217	C	G	8267	-0.14	0.03	0.00	0.00	19.82
rs61781291	2-palmitoyl- GPC (16:0) levels	GCST90199789	1	39936166	A	T	8249	0.13	0.02	0.00	0.01	53.10
rs12408968	2-palmitoyl- GPC (16:0) levels	GCST90199789	1	110279947	C	T	8249	-0.07	0.02	0.00	0.00	19.77
rs11571545	2-palmitoyl- GPC (16:0) levels	GCST90199789	1	212615699	A	G	8249	-0.24	0.05	0.00	0.00	23.19
rs11520853 4	2-palmitoyl- GPC (16:0) levels	GCST90199789	2	170631868	T	A	8249	-0.27	0.06	0.00	0.00	21.79

rs66990031	2-palmitoyl- GPC (16:0) levels	GCST90199789	2	210908482	T	A	8249	0.08	0.02	0.00	0.00	26.01
rs431883	2-palmitoyl- GPC (16:0) levels	GCST90199789	4	40540508	A	G	8249	-0.10	0.02	0.00	0.00	22.10
rs11741468	2-palmitoyl- GPC (16:0) levels	GCST90199789	5	2691179	T	C	8249	0.10	0.02	0.00	0.00	20.11
rs11737969	2-palmitoyl- GPC (16:0) levels	GCST90199789	5	115981999	A	G	8249	-0.08	0.02	0.00	0.00	22.58
rs2011957	2-palmitoyl- GPC (16:0) levels	GCST90199789	6	5828684	T	C	8249	0.11	0.02	0.00	0.00	20.49
rs68005813	2-palmitoyl- GPC (16:0) levels	GCST90199789	6	88253864	A	G	8249	-0.10	0.02	0.00	0.00	21.27
rs78997119	2-palmitoyl- GPC (16:0) levels	GCST90199789	9	86113452	A	T	8249	0.14	0.03	0.00	0.00	22.13
rs722607	2-palmitoyl- GPC (16:0) levels	GCST90199789	11	27815189	C	T	8249	-0.14	0.03	0.00	0.00	20.18
rs964184	2-palmitoyl- GPC (16:0) levels	GCST90199789	11	116778201	C	G	8249	-0.11	0.02	0.00	0.00	21.35
rs76115403	2-palmitoyl- GPC (16:0) levels	GCST90199789	13	46884820	T	A	8249	-0.22	0.05	0.00	0.00	20.57
rs17674556	2-palmitoyl- GPC (16:0) levels	GCST90199789	16	7477447	C	T	8249	-0.19	0.04	0.00	0.00	20.21
rs77335780	2-palmitoyl- GPC (16:0) levels	GCST90199789	18	59627484	A	G	8249	0.16	0.04	0.00	0.00	20.46
rs79106957	2-palmitoyl- GPC (16:0) levels	GCST90199789	19	18951898	A	C	8249	0.17	0.04	0.00	0.00	22.53
rs11448758 9	2-palmitoyl- GPC (16:0) levels	GCST90199789	20	60868997	A	G	8249	-0.22	0.04	0.00	0.00	24.70
rs10735770	2- palmitoleoyl- GPC (16:1) 2-	GCST90199790	1	102457425	G	A	6697	-0.08	0.02	0.00	0.00	21.02
rs604788	2- palmitoleoyl- GPC (16:1) 2-	GCST90199790	2	33439283	T	C	6697	-0.12	0.03	0.00	0.00	20.82
rs14984447 6	2- palmitoleoyl- GPC (16:1) 2-	GCST90199790	2	104075567	A	G	6697	-0.29	0.06	0.00	0.00	22.66
rs72617008	2- palmitoleoyl- GPC (16:1) 2-	GCST90199790	2	133845775	A	G	6697	0.10	0.02	0.00	0.00	20.32
rs11129430 4	2- palmitoleoyl- GPC (16:1) 2-	GCST90199790	2	151882009	C	T	6697	0.21	0.05	0.00	0.00	21.53
rs34276015	2- palmitoleoyl- GPC (16:1) 2-	GCST90199790	3	16377802	T	C	6697	-0.20	0.04	0.00	0.00	23.43
rs12492172	2- palmitoleoyl- GPC (16:1) 2-	GCST90199790	3	35303580	T	C	6697	0.11	0.02	0.00	0.00	21.02
rs76014634	2- palmitoleoyl- GPC (16:1) 2-	GCST90199790	3	66859462	A	G	6697	0.22	0.05	0.00	0.00	22.19
rs11622353 7	2- palmitoleoyl- GPC (16:1) 2-	GCST90199790	3	110170383	T	C	6697	-0.28	0.06	0.00	0.00	19.61
rs10028561	2- palmitoleoyl- GPC (16:1) 2-	GCST90199790	4	21087379	A	T	6697	0.09	0.02	0.00	0.00	22.46

rs4974982	2- palmitoleoyl- GPC (16:1)	GCST90199790	4	38969762	C	T	6697	-0.10	0.02	0.00	0.00	23.25
rs80100523	2- palmitoleoyl- GPC (16:1)	GCST90199790	5	51765452	T	C	6697	-0.16	0.03	0.00	0.00	25.19
rs34141013	2- palmitoleoyl- GPC (16:1)	GCST90199790	5	168799847	G	A	6697	0.09	0.02	0.00	0.00	22.33
rs1345993	2- palmitoleoyl- GPC (16:1)	GCST90199790	6	143370437	T	G	6697	-0.08	0.02	0.00	0.00	21.42
rs79085896	2- palmitoleoyl- GPC (16:1)	GCST90199790	6	145056973	T	C	6697	0.37	0.08	0.00	0.00	21.26
rs16924404	2- palmitoleoyl- GPC (16:1)	GCST90199790	10	24231719	A	G	6697	0.10	0.02	0.00	0.00	23.45
rs603424	2- palmitoleoyl- GPC (16:1)	GCST90199790	10	100315722	A	G	6697	-0.15	0.02	0.00	0.01	42.75
rs76466375	2- palmitoleoyl- GPC (16:1)	GCST90199790	12	1312999	T	C	6697	-0.18	0.04	0.00	0.00	23.16
rs139889063	2- palmitoleoyl- GPC (16:1)	GCST90199790	12	43133714	C	T	6697	-0.27	0.06	0.00	0.00	19.62
rs147752041	2- palmitoleoyl- GPC (16:1)	GCST90199790	13	39846921	T	A	6697	-0.27	0.06	0.00	0.00	20.37
rs12882640	2- palmitoleoyl- GPC (16:1)	GCST90199790	14	102935007	G	C	6697	-0.11	0.02	0.00	0.00	24.84
rs7173143	2- palmitoleoyl- GPC (16:1)	GCST90199790	15	83521431	T	C	6697	-0.09	0.02	0.00	0.00	23.61
rs141968830	2- palmitoleoyl- GPC (16:1)	GCST90199790	16	54723362	A	T	6697	0.55	0.12	0.00	0.00	20.31
rs11150021	2- palmitoleoyl- GPC (16:1)	GCST90199790	16	77872552	G	A	6697	-0.08	0.02	0.00	0.00	22.19
rs2735839	2- palmitoleoyl- GPC (16:1)	GCST90199790	19	50861367	G	A	6697	-0.11	0.02	0.00	0.00	22.03
rs17500742	1- palmitoleoyl- GPC (16:1)	GCST90199790	21	30301334	A	G	6697	0.17	0.04	0.00	0.00	22.58
rs61781291	1- arachidonoyl- GPE (20:4n6) levels	GCST90199791	1	39936166	A	T	8270	0.09	0.02	0.00	0.00	23.00
rs2243884	1- arachidonoyl- GPE (20:4n6) levels	GCST90199791	1	187443973	C	T	8270	-0.08	0.02	0.00	0.00	22.00
rs17008864	1- arachidonoyl- GPE (20:4n6) levels	GCST90199791	2	73215388	C	T	8270	-0.14	0.03	0.00	0.00	25.70
rs6736301	1- arachidonoyl- GPE (20:4n6) levels	GCST90199791	2	176508090	A	G	8270	-0.28	0.06	0.00	0.00	20.80
rs80318161	1- arachidonoyl- GPE (20:4n6) levels	GCST90199791	3	26416819	T	C	8270	0.25	0.05	0.00	0.00	21.65
rs73218916	1- arachidonoyl- GPE (20:4n6) levels	GCST90199791	3	111342521	G	A	8270	0.23	0.05	0.00	0.00	21.53

rs191108426	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	4	82277062	C	A	8270	0.36	0.08	0.00	0.00	20.48
rs68175566	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	4	123645742	T	G	8270	0.09	0.02	0.00	0.00	19.51
rs10017259	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	4	142397732	A	G	8270	-0.08	0.02	0.00	0.00	20.93
rs78883782	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	5	6106212	C	T	8270	0.42	0.09	0.00	0.00	22.46
rs55837305	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	5	20158184	A	G	8270	-0.15	0.03	0.00	0.00	21.41
rs77263412	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	5	74481081	T	A	8270	0.14	0.03	0.00	0.00	20.59
rs17113588	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	5	152676044	A	G	8270	-0.15	0.03	0.00	0.00	27.43
rs186419492	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	6	6158472	A	G	8270	-0.36	0.08	0.00	0.00	22.32
rs2093777	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	6	10985097	C	T	8270	0.07	0.02	0.00	0.00	20.05
rs56099367	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	6	156505103	C	T	8270	-0.13	0.03	0.00	0.00	19.82
rs262145	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	7	158954712	G	T	8270	-0.08	0.02	0.00	0.00	21.04
rs6994059	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	8	10268025	A	C	8270	-0.08	0.02	0.00	0.00	20.36
rs144392547	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	8	15965207	G	T	8270	0.33	0.07	0.00	0.00	20.12
rs2935562	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	8	100772059	G	C	8270	-0.09	0.02	0.00	0.00	21.09
rs2980882	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	8	125468458	G	A	8270	-0.08	0.02	0.00	0.00	28.68
rs76818325	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	8	133795047	A	G	8270	0.12	0.03	0.00	0.00	20.14
rs34813941	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	11	22970330	T	C	8270	-0.19	0.04	0.00	0.00	19.60
rs174560	1-arachidonoyl-GPE (20:4n6) levels	GCST90199791	11	61814292	C	T	8270	-0.38	0.02	0.00	0.06	568.26

rs11519272	1- arachidonoyl- GPE (20:4n6) levels 1-	GCST90199791	12	21209458	A	C	8270	0.27	0.02	0.00	0.02	178.28
rs10770795	arachidonoyl- GPE (20:4n6) levels 1-	GCST90199791	12	21293298	G	A	8270	-0.12	0.02	0.00	0.00	30.47
rs3851665	arachidonoyl- GPE (20:4n6) levels 1-	GCST90199791	12	127241839	A	G	8270	0.08	0.02	0.00	0.00	19.96
rs1532085	arachidonoyl- GPE (20:4n6) levels 1-	GCST90199791	15	58391167	G	A	8270	-0.10	0.02	0.00	0.01	43.00
rs1800588	arachidonoyl- GPE (20:4n6) levels 1-	GCST90199791	15	58431476	T	C	8270	0.10	0.02	0.00	0.00	27.67
rs1741	arachidonoyl- GPE (20:4n6) levels 1-	GCST90199791	16	15036494	C	G	8270	-0.08	0.02	0.00	0.00	20.34
rs907035	arachidonoyl- GPE (20:4n6) levels 1-	GCST90199791	16	83955359	A	G	8270	-0.08	0.02	0.00	0.00	26.27
rs9909922	arachidonoyl- GPE (20:4n6) levels 1-	GCST90199791	17	48064482	C	T	8270	0.12	0.02	0.00	0.00	23.20
rs11141123 1	arachidonoyl- GPE (20:4n6) levels 1-	GCST90199791	19	31733987	T	C	8270	0.18	0.04	0.00	0.00	22.70
rs7253806	arachidonoyl- GPE (20:4n6) levels 1-palmitoyl-	GCST90199791	19	53908917	C	T	8270	0.19	0.04	0.00	0.00	20.02
rs7515857	GPE (16:0) levels 1-palmitoyl-	GCST90199792	1	39952958	T	G	8276	0.15	0.02	0.00	0.01	70.84
rs1260326	GPE (16:0) levels 1-palmitoyl-	GCST90199792	2	27508073	C	T	8276	-0.09	0.02	0.00	0.00	31.36
rs10186786	GPE (16:0) levels 1-palmitoyl-	GCST90199792	2	125845081	C	T	8276	-0.10	0.02	0.00	0.00	20.13
rs11491703 5	GPE (16:0) levels 1-palmitoyl-	GCST90199792	2	132615774	C	T	8276	-0.28	0.06	0.00	0.00	20.10
rs79282610	GPE (16:0) levels 1-palmitoyl-	GCST90199792	2	160561529	C	T	8276	-0.15	0.03	0.00	0.00	25.36
rs34123137	GPE (16:0) levels 1-palmitoyl-	GCST90199792	2	233259235	A	T	8276	0.08	0.02	0.00	0.00	26.17
rs623263	GPE (16:0) levels 1-palmitoyl-	GCST90199792	6	83759926	C	T	8276	0.11	0.02	0.00	0.00	22.71
rs11973617	GPE (16:0) levels 1-palmitoyl-	GCST90199792	7	152685531	G	T	8276	0.09	0.02	0.00	0.00	21.57
rs2162460	GPE (16:0) levels 1-palmitoyl-	GCST90199792	8	58419222	A	C	8276	-0.08	0.02	0.00	0.00	19.75
rs3779773	GPE (16:0) levels 1-palmitoyl-	GCST90199792	8	105674494	C	G	8276	0.10	0.02	0.00	0.00	24.39
rs12318075	GPE (16:0) levels	GCST90199792	12	21208653	G	T	8276	0.12	0.02	0.00	0.00	36.26

rs144767726	1-palmitoyl-GPE (16:0) levels	GCST90199792	14	99646450	A	C	8276	-0.24	0.05	0.00	0.00	29.22
rs190543502	1-palmitoyl-GPE (16:0) levels	GCST90199792	15	43464986	C	T	8276	0.29	0.05	0.00	0.00	38.83
rs261291	1-palmitoyl-GPE (16:0) levels	GCST90199792	15	58387979	C	T	8276	0.19	0.02	0.00	0.02	138.45
rs12914626	1-palmitoyl-GPE (16:0) levels	GCST90199792	15	58446224	T	C	8276	-0.14	0.02	0.00	0.01	71.39
rs9930322	1-palmitoyl-GPE (16:0) levels	GCST90199792	16	17323362	A	G	8276	-0.07	0.02	0.00	0.00	19.80
rs118125019	1-palmitoyl-GPE (16:0) levels	GCST90199792	16	62622430	T	C	8276	0.23	0.05	0.00	0.00	19.67
rs62036205	1-palmitoyl-GPE (16:0) levels	GCST90199792	16	78841158	C	A	8276	-0.12	0.03	0.00	0.00	20.79
rs438811	1-palmitoyl-GPE (16:0) levels	GCST90199792	19	44913484	T	C	8276	0.09	0.02	0.00	0.00	24.89
rs77692382	1-linoleoyl-GPE (18:2) levels	GCST90199793	1	39941043	T	C	8279	0.13	0.02	0.00	0.01	51.46
rs1402545	1-linoleoyl-GPE (18:2) levels	GCST90199793	2	12969263	C	T	8279	-0.08	0.02	0.00	0.00	25.73
rs73995677	1-linoleoyl-GPE (18:2) levels	GCST90199793	2	234763611	A	G	8279	0.18	0.04	0.00	0.00	20.12
rs75827837	1-linoleoyl-GPE (18:2) levels	GCST90199793	2	241341393	G	T	8279	-0.35	0.07	0.00	0.00	27.11
rs7652856	1-linoleoyl-GPE (18:2) levels	GCST90199793	3	26643906	T	G	8279	0.07	0.02	0.00	0.00	19.71
rs57979273	1-linoleoyl-GPE (18:2) levels	GCST90199793	3	177784768	T	C	8279	-0.18	0.04	0.00	0.00	20.18
rs78468534	1-linoleoyl-GPE (18:2) levels	GCST90199793	4	25933592	A	G	8279	0.09	0.02	0.00	0.00	20.42
rs9358341	1-linoleoyl-GPE (18:2) levels	GCST90199793	6	20525257	C	A	8279	-0.10	0.02	0.00	0.00	26.76
rs146516493	1-linoleoyl-GPE (18:2) levels	GCST90199793	6	166258629	G	A	8279	-0.37	0.08	0.00	0.00	23.15
rs9478079	1-linoleoyl-GPE (18:2) levels	GCST90199793	6	169627634	A	G	8279	0.27	0.06	0.00	0.00	20.00
rs184648706	1-linoleoyl-GPE (18:2) levels	GCST90199793	8	42734644	C	T	8279	0.24	0.05	0.00	0.00	21.63
rs13253349	1-linoleoyl-GPE (18:2) levels	GCST90199793	8	58411926	A	G	8279	-0.08	0.02	0.00	0.00	21.47
rs61874429	1-linoleoyl-GPE (18:2) levels	GCST90199793	10	130253851	C	T	8279	-0.11	0.02	0.00	0.00	20.22
rs391561	1-linoleoyl-GPE (18:2) levels	GCST90199793	11	8246874	C	G	8279	0.07	0.02	0.00	0.00	20.68
rs174546	1-linoleoyl-GPE (18:2) levels	GCST90199793	11	61802358	T	C	8279	0.28	0.02	0.00	0.04	313.96
rs794410	1-linoleoyl-GPE (18:2) levels	GCST90199793	11	91729003	G	A	8279	-0.08	0.02	0.00	0.00	22.78

rs148603336	1-linoleoyl-GPE (18:2) levels	GCST90199793	11	97459564	A	G	8279	0.29	0.06	0.00	0.00	22.35
rs1650825	1-linoleoyl-GPE (18:2) levels	GCST90199793	11	129873498	G	A	8279	-0.17	0.04	0.00	0.00	22.09
rs73069021	1-linoleoyl-GPE (18:2) levels	GCST90199793	12	21247021	A	G	8279	0.13	0.02	0.00	0.00	41.41
rs141487100	1-linoleoyl-GPE (18:2) levels	GCST90199793	12	48633523	T	A	8279	0.32	0.07	0.00	0.00	21.22
rs74442791	1-linoleoyl-GPE (18:2) levels	GCST90199793	12	51256841	C	T	8279	0.33	0.07	0.00	0.00	20.69
rs77110644	1-linoleoyl-GPE (18:2) levels	GCST90199793	12	107760101	C	T	8279	0.45	0.09	0.00	0.00	24.36
rs494342	1-linoleoyl-GPE (18:2) levels	GCST90199793	13	55994104	A	T	8279	0.08	0.02	0.00	0.00	23.01
rs6574093	1-linoleoyl-GPE (18:2) levels	GCST90199793	14	72728122	T	G	8279	-0.07	0.02	0.00	0.00	20.19
rs2180795	1-linoleoyl-GPE (18:2) levels	GCST90199793	14	93771153	T	C	8279	-0.17	0.04	0.00	0.00	20.67
rs2043082	1-linoleoyl-GPE (18:2) levels	GCST90199793	15	58382109	A	G	8279	0.09	0.02	0.00	0.00	27.34
rs12916185	1-linoleoyl-GPE (18:2) levels	GCST90199793	15	72408684	C	A	8279	0.12	0.02	0.00	0.00	23.99
rs8058610	1-linoleoyl-GPE (18:2) levels	GCST90199793	16	23702074	T	C	8279	0.07	0.02	0.00	0.00	19.56
rs75371468	1-linoleoyl-GPE (18:2) levels	GCST90199793	16	71344803	A	G	8279	0.12	0.03	0.00	0.00	20.60
rs56262517	1-linoleoyl-GPE (18:2) levels	GCST90199793	16	84484264	C	T	8279	0.13	0.03	0.00	0.00	19.95
rs11652163	1-linoleoyl-GPE (18:2) levels	GCST90199793	17	45004606	G	A	8279	-0.09	0.02	0.00	0.00	19.63
rs117382682	1-linoleoyl-GPE (18:2) levels	GCST90199793	19	53631588	T	C	8279	-0.34	0.07	0.00	0.00	22.32
rs62202204	1-linoleoyl-GPE (18:2) levels	GCST90199793	20	20769638	A	G	8279	-0.10	0.02	0.00	0.00	21.35
rs1492701	1-oleoyl-GPE (18:1) levels	GCST90199794	1	39956146	G	C	8283	0.12	0.02	0.00	0.01	45.66
rs139516793	1-oleoyl-GPE (18:1) levels	GCST90199794	2	7551475	G	T	8283	0.32	0.07	0.00	0.00	21.91
rs67086575	1-oleoyl-GPE (18:1) levels	GCST90199794	2	27463613	G	A	8283	0.09	0.02	0.00	0.00	20.84
rs2197595	1-oleoyl-GPE (18:1) levels	GCST90199794	2	113356870	A	G	8283	-0.07	0.02	0.00	0.00	21.46
rs62244644	1-oleoyl-GPE (18:1) levels	GCST90199794	3	72602751	T	C	8283	-0.10	0.02	0.00	0.00	21.91
rs6440123	1-oleoyl-GPE (18:1) levels	GCST90199794	3	142940519	G	A	8283	0.09	0.02	0.00	0.00	34.22
rs7654103	1-oleoyl-GPE (18:1) levels	GCST90199794	4	25946802	T	C	8283	0.09	0.02	0.00	0.00	21.24
rs186029812	1-oleoyl-GPE (18:1) levels	GCST90199794	5	8122434	C	T	8283	0.18	0.04	0.00	0.00	20.52
rs147461700	1-oleoyl-GPE (18:1) levels	GCST90199794	6	13335554	C	A	8283	-0.15	0.03	0.00	0.00	21.42
rs72830608	1-oleoyl-GPE (18:1) levels	GCST90199794	6	20518889	T	G	8283	-0.09	0.02	0.00	0.00	21.04
rs6903986	1-oleoyl-GPE (18:1) levels	GCST90199794	6	70091495	G	A	8283	0.09	0.02	0.00	0.00	20.50

rs146516493	1-oleoyl-GPE (18:1) levels	GCST90199794	6	166258629	G	A	8283	-0.38	0.08	0.00	0.00	24.20
rs10236125	1-oleoyl-GPE (18:1) levels	GCST90199794	7	12864420	C	T	8283	0.09	0.02	0.00	0.00	20.69
rs117555927	1-oleoyl-GPE (18:1) levels	GCST90199794	8	132412834	G	C	8283	0.23	0.04	0.00	0.00	28.73
rs139121249	1-oleoyl-GPE (18:1) levels	GCST90199794	9	22961446	A	T	8283	0.30	0.06	0.00	0.00	25.01
rs147921641	1-oleoyl-GPE (18:1) levels	GCST90199794	9	119052443	C	T	8283	-0.43	0.10	0.00	0.00	19.73
rs56351130	1-oleoyl-GPE (18:1) levels	GCST90199794	10	5304130	G	C	8283	-0.09	0.02	0.00	0.00	19.68
rs174590	1-oleoyl-GPE (18:1) levels	GCST90199794	11	61849505	C	G	8283	0.10	0.02	0.00	0.00	28.22
rs77200981	1-oleoyl-GPE (18:1) levels	GCST90199794	11	84157652	C	T	8283	-0.33	0.07	0.00	0.00	24.34
rs794410	1-oleoyl-GPE (18:1) levels	GCST90199794	11	91729003	G	A	8283	-0.07	0.02	0.00	0.00	20.09
rs12292477	1-oleoyl-GPE (18:1) levels	GCST90199794	11	122716527	T	C	8283	0.12	0.02	0.00	0.00	24.02
rs73069021	1-oleoyl-GPE (18:1) levels	GCST90199794	12	21247021	A	G	8283	0.11	0.02	0.00	0.00	29.69
rs78762284	1-oleoyl-GPE (18:1) levels	GCST90199794	12	110706960	A	G	8283	0.10	0.02	0.00	0.00	20.67
rs139013064	1-oleoyl-GPE (18:1) levels	GCST90199794	13	23595460	T	C	8283	0.22	0.05	0.00	0.00	21.47
rs9537314	1-oleoyl-GPE (18:1) levels	GCST90199794	13	56051093	T	G	8283	0.15	0.03	0.00	0.00	19.93
rs11839404	1-oleoyl-GPE (18:1) levels	GCST90199794	13	82631318	C	T	8283	-0.11	0.02	0.00	0.00	22.98
rs6574093	1-oleoyl-GPE (18:1) levels	GCST90199794	14	72728122	T	G	8283	-0.07	0.02	0.00	0.00	21.18
rs35853021	1-oleoyl-GPE (18:1) levels	GCST90199794	15	58388444	T	G	8283	0.10	0.02	0.00	0.00	35.10
rs473224	1-oleoyl-GPE (18:1) levels	GCST90199794	15	58445142	G	T	8283	-0.11	0.02	0.00	0.00	26.47
rs9931199	1-oleoyl-GPE (18:1) levels	GCST90199794	16	60343318	C	T	8283	-0.10	0.02	0.00	0.00	20.88
rs3795754	hydroxypalmitate levels 2-	GCST90199795	1	14745181	C	T	8247	-0.07	0.02	0.00	0.00	20.50
rs28550594	hydroxypalmitate levels 2-	GCST90199795	1	16089094	A	G	8247	-0.09	0.02	0.00	0.00	27.72
rs148860440	hydroxypalmitate levels 2-	GCST90199795	1	43702825	A	G	8247	0.36	0.08	0.00	0.00	22.29
rs115427778	hydroxypalmitate levels 2-	GCST90199795	1	84397271	C	G	8247	-0.43	0.09	0.00	0.00	22.45
rs45599238	hydroxypalmitate levels 2-	GCST90199795	2	31372009	A	G	8247	-0.31	0.07	0.00	0.00	20.90
rs1528801	hydroxypalmitate levels 2-	GCST90199795	2	51478241	T	G	8247	0.09	0.02	0.00	0.00	22.64
rs59771628	hydroxypalmitate levels 2-	GCST90199795	3	100500242	C	A	8247	0.07	0.02	0.00	0.00	23.38
rs138770040	hydroxypalmitate levels 2-	GCST90199795	3	132784412	T	C	8247	-0.27	0.06	0.00	0.00	23.45
rs62414610	hydroxypalmitate levels 2-	GCST90199795	6	42592188	A	G	8247	-0.20	0.04	0.00	0.00	21.60
rs113595122	hydroxypalmitate levels 2-	GCST90199795	6	92180101	C	T	8247	-0.18	0.04	0.00	0.00	20.16
rs4236287	hydroxypalmitate levels 2-	GCST90199795	7	16353839	C	G	8247	-0.08	0.02	0.00	0.00	21.83
rs138400467	hydroxypalmitate levels	GCST90199795	8	19410684	T	C	8247	-0.26	0.06	0.00	0.00	19.66

rs10820752	2-hydroxypalmitate levels	GCST90199795	9	104985855	C	G	8247	-0.09	0.02	0.00	0.00	26.77
rs79950608	2-hydroxypalmitate levels	GCST90199795	9	110873692	T	C	8247	0.16	0.04	0.00	0.00	20.43
rs540664108	2-hydroxypalmitate levels	GCST90199795	10	3308530	T	C	8247	0.18	0.04	0.00	0.00	21.69
rs117993393	2-hydroxypalmitate levels	GCST90199795	11	4617557	T	C	8247	-0.24	0.05	0.00	0.00	20.30
rs78358954	2-hydroxypalmitate levels	GCST90199795	14	61934242	G	A	8247	0.08	0.02	0.00	0.00	19.90
rs117853183	2-hydroxypalmitate levels	GCST90199795	14	81269046	T	C	8247	0.20	0.04	0.00	0.00	21.20
rs72743374	2-hydroxypalmitate levels	GCST90199795	15	73820768	T	C	8247	0.12	0.02	0.00	0.00	23.59
rs11076100	2-hydroxypalmitate levels	GCST90199795	16	55476499	T	A	8247	0.07	0.02	0.00	0.00	21.93
rs111312939	2-hydroxypalmitate levels	GCST90199795	21	20438645	C	T	8247	-0.10	0.02	0.00	0.00	20.82
rs142692985	2-hydroxypalmitate levels	GCST90199795	22	33720884	C	G	8247	0.42	0.08	0.00	0.00	27.85
rs9616196	2-hydroxypalmitate levels	GCST90199795	22	46122978	G	C	8247	-0.08	0.02	0.00	0.00	20.05
rs11588956	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	1	44631088	G	C	7540	0.08	0.02	0.00	0.00	25.50
rs145376710	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	1	215638718	T	C	7540	-0.15	0.03	0.00	0.00	19.75
rs62162923	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	2	56551843	T	C	7540	-0.21	0.04	0.00	0.00	22.25
rs17686579	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	4	149408424	C	A	7540	-0.10	0.02	0.00	0.00	30.02
rs145231675	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	5	26003977	T	C	7540	-0.27	0.06	0.00	0.00	22.40
rs258117	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	5	59407478	C	T	7540	0.08	0.02	0.00	0.00	19.88
rs6884129	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	5	159951575	C	G	7540	-0.13	0.03	0.00	0.00	22.21
rs139278946	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	7	96776335	A	T	7540	-0.25	0.05	0.00	0.00	26.05
rs7822784	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	8	15046534	A	G	7540	-0.08	0.02	0.00	0.00	21.92
rs17784899	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	9	76775287	T	A	7540	-0.10	0.02	0.00	0.00	19.53
rs79950608	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	9	110873692	T	C	7540	0.17	0.04	0.00	0.00	20.50
rs376751615	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	10	47740255	A	G	7540	-0.44	0.10	0.00	0.00	19.74
rs880863	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	10	76913135	A	G	7540	-0.10	0.02	0.00	0.00	20.42

rs174570	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	11	61829740	T	C	7540	-0.16	0.02	0.00	0.01	49.01
rs18219397 6	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	11	82728820	A	G	7540	-0.33	0.07	0.00	0.00	21.44
rs7977311	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	12	95093450	T	C	7540	-0.11	0.02	0.00	0.00	20.93
rs9545715	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	13	81469066	C	G	7540	-0.08	0.02	0.00	0.00	21.08
rs1548370	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	17	6048167	G	A	7540	-0.07	0.02	0.00	0.00	19.62
rs55946802	Docosapentae noate (n6 DPA; 22:5n6)	GCST90199796	20	15273761	A	G	7540	-0.09	0.02	0.00	0.00	20.45
rs75072359	Gulonate	GCST90199797	1	55237741	T	A	7731	-0.19	0.04	0.00	0.00	22.25
rs3944510	Gulonate	GCST90199797	1	115374736	A	C	7731	-0.07	0.02	0.00	0.00	22.00
rs72815194	Gulonate	GCST90199797	2	77928248	C	T	7731	0.36	0.08	0.00	0.00	20.49
rs10496399	Gulonate	GCST90199797	2	105611264	C	T	7731	-0.08	0.02	0.00	0.00	21.05
rs75759978	Gulonate	GCST90199797	2	158122984	G	A	7731	-0.21	0.05	0.00	0.00	19.71
rs14156991 4	Gulonate levels	GCST90199797	3	6888841	C	A	7731	-0.12	0.03	0.00	0.00	20.89
rs77518118	Gulonate	GCST90199797	4	11006179	T	A	7731	0.32	0.07	0.00	0.00	22.83
rs18788257 7	Gulonate levels	GCST90199797	4	99224398	A	G	7731	-0.25	0.05	0.00	0.00	29.41
rs79253762	Gulonate	GCST90199797	4	182895692	T	C	7731	-0.18	0.04	0.00	0.00	23.25
rs10035725	Gulonate	GCST90199797	5	154490919	G	T	7731	0.07	0.01	0.00	0.00	20.76
rs3957147	Gulonate	GCST90199797	6	32714358	T	C	7731	0.09	0.02	0.00	0.00	23.13
rs34366619	Gulonate	GCST90199797	6	117662961	T	C	7731	0.39	0.08	0.00	0.00	21.18
rs4724828	Gulonate	GCST90199797	7	1258812	T	C	7731	0.10	0.02	0.00	0.00	20.42
rs2189569	Gulonate	GCST90199797	7	19752625	T	C	7731	0.08	0.02	0.00	0.00	22.44
rs3879823	Gulonate	GCST90199797	8	144924391	C	T	7731	0.17	0.03	0.00	0.00	24.64
rs57741261 6	Gulonate levels	GCST90199797	10	49669051	A	C	7731	-0.71	0.16	0.00	0.00	19.64
rs10786430	Gulonate	GCST90199797	10	98508110	C	A	7731	0.13	0.03	0.00	0.00	19.56
rs79318581	Gulonate	GCST90199797	11	125397285	A	G	7731	0.17	0.04	0.00	0.00	20.96
rs61955537	Gulonate	GCST90199797	13	20522945	A	T	7731	-0.11	0.02	0.00	0.00	35.04
rs14067747 5	Gulonate levels	GCST90199797	14	50818271	A	C	7731	-0.16	0.04	0.00	0.00	19.60
rs14980760 1	Gulonate levels	GCST90199797	15	69573260	T	C	7731	-0.22	0.05	0.00	0.00	19.63
rs9909758	Gulonate	GCST90199797	17	13914042	C	G	7731	0.12	0.03	0.00	0.00	20.64
rs6089583	Gulonate	GCST90199797	20	61988568	A	G	7731	-0.07	0.02	0.00	0.00	20.60
rs2776037	Gulonate	GCST90199797	21	14945612	C	T	7731	0.09	0.01	0.00	0.00	34.54
rs12139362	Isobutyrylglyc ine levels	GCST90199798	1	9396397	A	G	7465	0.18	0.04	0.00	0.00	19.71
rs1047891	Isobutyrylglyc ine levels	GCST90199798	2	210675783	A	C	7465	0.23	0.02	0.00	0.02	168.14
rs725992	Isobutyrylglyc ine levels	GCST90199798	3	54145559	C	T	7465	0.12	0.03	0.00	0.00	20.24
rs6443905	Isobutyrylglyc ine levels	GCST90199798	3	183832811	A	T	7465	0.20	0.04	0.00	0.00	22.87
rs13942423 4	Isobutyrylglyc ine levels	GCST90199798	4	37186477	C	T	7465	-0.29	0.07	0.00	0.00	19.64
rs1440581	Isobutyrylglyc ine levels	GCST90199798	4	88305270	C	T	7465	0.09	0.02	0.00	0.00	33.69
rs11456606 5	Isobutyrylglyc ine levels	GCST90199798	5	24442392	G	C	7465	-0.27	0.06	0.00	0.00	19.60
rs14979272 1	Isobutyrylglyc ine levels	GCST90199798	5	88845984	G	T	7465	0.30	0.07	0.00	0.00	21.26
rs76361465	Isobutyrylglyc ine levels	GCST90199798	5	175515470	C	T	7465	-0.15	0.03	0.00	0.00	22.76
rs11759946 9	Isobutyrylglyc ine levels	GCST90199798	6	76033684	T	C	7465	0.50	0.11	0.00	0.00	21.59
rs41267057	Isobutyrylglyc ine levels	GCST90199798	6	158718238	T	C	7465	-0.10	0.02	0.00	0.00	20.58
rs1203576	Isobutyrylglyc ine levels	GCST90199798	7	40808233	T	A	7465	-0.08	0.02	0.00	0.00	21.08
rs60506432	Isobutyrylglyc ine levels	GCST90199798	8	17736608	A	G	7465	0.10	0.02	0.00	0.00	25.41

rs77747938	Isobutyrylglyc ine levels	GCST90199798	8	50419559	A	G	7465	-0.16	0.03	0.00	0.00	23.90
rs4734360	Isobutyrylglyc ine levels	GCST90199798	8	97362638	G	C	7465	-0.09	0.02	0.00	0.00	23.71
rs10739211	Isobutyrylglyc ine levels	GCST90199798	9	105712398	C	A	7465	0.09	0.02	0.00	0.00	25.09
rs59576083	Isobutyrylglyc ine levels	GCST90199798	9	106748095	G	A	7465	-0.33	0.07	0.00	0.00	19.59
rs61842485	Isobutyrylglyc ine levels	GCST90199798	10	9219654	A	T	7465	0.23	0.05	0.00	0.00	20.94
rs55703838	Isobutyrylglyc ine levels	GCST90199798	11	1236954	T	C	7465	-0.36	0.08	0.00	0.00	19.76
rs10896190	Isobutyrylglyc ine levels	GCST90199798	11	67638652	C	T	7465	-0.09	0.02	0.00	0.00	31.36
rs7111570	Isobutyrylglyc ine levels	GCST90199798	11	134271204	T	C	7465	0.38	0.05	0.00	0.01	61.73
rs1260165	Isobutyrylglyc ine levels	GCST90199798	12	32029788	A	C	7465	0.10	0.02	0.00	0.00	20.60
rs57283422	Isobutyrylglyc ine levels	GCST90199798	14	21016818	A	G	7465	-0.31	0.07	0.00	0.00	19.64
rs76633163	Isobutyrylglyc ine levels	GCST90199798	15	60829591	G	A	7465	-0.23	0.05	0.00	0.00	20.91
rs2469541	Isobutyrylglyc ine levels	GCST90199798	15	76269777	T	C	7465	0.08	0.02	0.00	0.00	23.94
rs2085270	Isobutyrylglyc ine levels	GCST90199798	15	92516396	C	A	7465	-0.08	0.02	0.00	0.00	23.39
rs34240687	Isobutyrylglyc ine levels	GCST90199798	16	73102792	C	T	7465	-0.11	0.02	0.00	0.00	21.35
rs2452542	Isobutyrylglyc ine levels	GCST90199798	17	60168833	A	T	7465	0.11	0.02	0.00	0.00	19.69
rs57730736	Isobutyrylglyc ine levels	GCST90199798	19	7756272	T	C	7465	-0.08	0.02	0.00	0.00	21.11
rs34368306	Isobutyrylglyc ine levels	GCST90199798	20	16333413	C	T	7465	0.18	0.04	0.00	0.00	20.00
rs1134688	Glutarylcarnit ine (c5-dc)	GCST90199799	1	53216027	G	T	8238	-0.25	0.02	0.00	0.02	193.24
rs18247430 1	Glutarylcarnit ine (c5-dc)	GCST90199799	1	82389861	T	C	8238	-0.30	0.07	0.00	0.00	20.60
rs2102629	Glutarylcarnit ine (c5-dc)	GCST90199799	1	93706565	G	A	8238	0.08	0.02	0.00	0.00	24.60
rs967997	Glutarylcarnit ine (c5-dc)	GCST90199799	2	159382601	C	T	8238	-0.21	0.05	0.00	0.00	20.42
rs1047891	Glutarylcarnit ine (c5-dc)	GCST90199799	2	210675783	A	C	8238	-0.10	0.02	0.00	0.00	38.91
rs1071526	Glutarylcarnit ine (c5-dc)	GCST90199799	3	165714691	T	C	8238	-0.10	0.02	0.00	0.00	20.63
rs76225981	Glutarylcarnit ine (c5-dc)	GCST90199799	4	76945904	A	G	8238	0.14	0.03	0.00	0.00	25.54
rs17270207	Glutarylcarnit ine (c5-dc)	GCST90199799	4	104569206	C	G	8238	-0.08	0.02	0.00	0.00	19.79
rs17050680	Glutarylcarnit ine (c5-dc)	GCST90199799	4	139025494	G	A	8238	0.09	0.02	0.00	0.00	27.44
rs55936281	Glutarylcarnit ine (c5-dc)	GCST90199799	4	158727444	T	C	8238	-0.13	0.02	0.00	0.01	58.41
rs4997685	Glutarylcarnit ine (c5-dc)	GCST90199799	4	186204370	T	C	8238	0.09	0.02	0.00	0.00	20.95
rs74717771	Glutarylcarnit ine (c5-dc)	GCST90199799	5	36241853	C	T	8238	-0.10	0.02	0.00	0.01	42.00
rs11496580 6	Glutarylcarnit ine (c5-dc)	GCST90199799	5	36406285	T	C	8238	-0.21	0.04	0.00	0.00	23.77

rs2405528	Glutarylcar nitine (c5-dc) levels	GCST90199799	5	132458606	A	G	8238	0.11	0.02	0.00	0.00	36.78
rs114049349	Glutarylcar nitine (c5-dc) levels	GCST90199799	5	173655987	T	C	8238	-0.24	0.05	0.00	0.00	26.18
rs9386684	Glutarylcar nitine (c5-dc) levels	GCST90199799	6	107931320	C	A	8238	0.23	0.05	0.00	0.00	20.78
rs111909590	Glutarylcar nitine (c5-dc) levels	GCST90199799	6	160124014	T	C	8238	0.21	0.04	0.00	0.00	28.21
rs375417	Glutarylcar nitine (c5-dc) levels	GCST90199799	7	102044579	C	T	8238	0.08	0.02	0.00	0.00	19.87
rs78247926	Glutarylcar nitine (c5-dc) levels	GCST90199799	7	115250009	T	G	8238	0.19	0.04	0.00	0.00	23.30
rs4873310	Glutarylcar nitine (c5-dc) levels	GCST90199799	8	49077447	T	A	8238	-0.22	0.02	0.00	0.03	212.25
rs34435653	Glutarylcar nitine (c5-dc) levels	GCST90199799	9	2208780	A	G	8238	0.23	0.05	0.00	0.00	21.68
rs87790	Glutarylcar nitine (c5-dc) levels	GCST90199799	10	11010038	C	T	8238	-0.11	0.02	0.00	0.00	22.57
rs111871910	Glutarylcar nitine (c5-dc) levels	GCST90199799	10	75496918	G	A	8238	-0.46	0.10	0.00	0.00	21.05
rs2895886	Glutarylcar nitine (c5-dc) levels	GCST90199799	12	81564093	T	A	8238	0.07	0.02	0.00	0.00	19.91
rs12431901	Glutarylcar nitine (c5-dc) levels	GCST90199799	14	100296166	T	G	8238	0.09	0.02	0.00	0.00	30.69
rs72740425	Glutarylcar nitine (c5-dc) levels	GCST90199799	15	50576342	G	T	8238	0.24	0.05	0.00	0.00	25.93
rs78185702	Glutarylcar nitine (c5-dc) levels	GCST90199799	15	76317894	T	C	8238	0.21	0.03	0.00	0.01	59.39
rs2062541	Glutarylcar nitine (c5-dc) levels	GCST90199799	16	16033378	A	G	8238	0.12	0.02	0.00	0.01	54.59
rs74403937	Glutarylcar nitine (c5-dc) levels	GCST90199799	16	21589880	A	G	8238	0.19	0.04	0.00	0.00	23.26
rs8056893	Glutarylcar nitine (c5-dc) levels	GCST90199799	16	68270489	A	C	8238	-0.24	0.02	0.00	0.03	211.77
rs9934475	Glutarylcar nitine (c5-dc) levels	GCST90199799	16	72977678	A	G	8238	-0.07	0.02	0.00	0.00	21.93
rs8012	Glutarylcar nitine (c5-dc) levels	GCST90199799	19	12899706	G	A	8238	-0.31	0.01	0.00	0.05	431.68
rs76908475	Glutarylcar nitine (c5-dc) levels	GCST90199799	21	32444438	T	C	8238	0.12	0.02	0.00	0.00	22.74
rs9622534	Glutarylcar nitine (c5-dc) levels	GCST90199799	22	37017566	C	T	8238	0.11	0.02	0.00	0.00	28.23
rs138859829	Carnitine C5:1 levels	GCST90199800	1	206478857	A	G	8097	-0.54	0.11	0.00	0.00	22.12
rs745581	Carnitine C5:1 levels	GCST90199800	2	2729334	T	C	8097	0.07	0.02	0.00	0.00	21.06
rs35313923	Carnitine C5:1 levels	GCST90199800	2	120675022	T	C	8097	-0.09	0.02	0.00	0.00	22.67
rs1320874	Carnitine C5:1 levels	GCST90199800	2	122335444	G	A	8097	-0.08	0.02	0.00	0.00	19.87
rs12618204	Carnitine C5:1 levels	GCST90199800	2	154132049	T	C	8097	0.19	0.04	0.00	0.00	23.34

rs4973352	Carnitine C5:1 levels	GCST90199800	2	230943518	T	C	8097	-0.27	0.06	0.00	0.00	22.67
rs115480358	Carnitine C5:1 levels	GCST90199800	3	44001712	A	C	8097	-0.18	0.04	0.00	0.00	19.56
rs11925694	Carnitine C5:1 levels	GCST90199800	3	185757918	G	A	8097	0.08	0.02	0.00	0.00	24.74
rs28674669	Carnitine C5:1 levels	GCST90199800	4	22171316	T	C	8097	-0.09	0.02	0.00	0.00	19.61
rs74806909	Carnitine C5:1 levels	GCST90199800	4	65245001	G	A	8097	-0.16	0.04	0.00	0.00	19.52
rs7678928	Carnitine C5:1 levels	GCST90199800	4	88301675	T	C	8097	-0.12	0.02	0.00	0.01	63.23
rs16899808	Carnitine C5:1 levels	GCST90199800	5	82655465	C	T	8097	-0.10	0.02	0.00	0.00	19.98
rs4705857	Carnitine C5:1 levels	GCST90199800	5	132401338	T	C	8097	0.09	0.02	0.00	0.00	27.44
rs10456189	Carnitine C5:1 levels	GCST90199800	6	56407183	T	C	8097	0.10	0.02	0.00	0.00	21.96
rs34257469	Carnitine C5:1 levels	GCST90199800	7	99552562	C	T	8097	0.12	0.03	0.00	0.00	19.52
rs138090466	Carnitine C5:1 levels	GCST90199800	7	136260885	T	C	8097	0.33	0.07	0.00	0.00	21.81
rs142306493	Carnitine C5:1 levels	GCST90199800	8	19682345	C	G	8097	0.30	0.07	0.00	0.00	20.63
rs111513152	Carnitine C5:1 levels	GCST90199800	9	91650287	G	A	8097	-0.18	0.04	0.00	0.00	24.12
rs1171613	Carnitine C5:1 levels	GCST90199800	10	59711516	A	C	8097	0.10	0.02	0.00	0.00	25.95
rs76987122	Carnitine C5:1 levels	GCST90199800	12	95880091	C	G	8097	0.27	0.05	0.00	0.00	26.59
rs1245419	Carnitine C5:1 levels	GCST90199800	14	27149611	C	G	8097	0.14	0.03	0.00	0.00	20.35
rs7147721	Carnitine C5:1 levels	GCST90199800	14	74719307	G	A	8097	-0.07	0.02	0.00	0.00	19.87
rs11635985	Carnitine C5:1 levels	GCST90199800	15	38246792	T	C	8097	0.10	0.02	0.00	0.00	19.82
rs10444899	Carnitine C5:1 levels	GCST90199800	15	101700437	T	C	8097	-0.07	0.02	0.00	0.00	20.69
rs3785864	Carnitine C5:1 levels	GCST90199800	17	61227251	T	C	8097	0.09	0.02	0.00	0.00	24.44
rs140119231	Carnitine C5:1 levels	GCST90199800	17	72769129	C	T	8097	-0.41	0.09	0.00	0.00	21.84
rs2171691	Hydroquinone sulfate levels	GCST90199801	1	164720091	T	C	7682	-0.08	0.02	0.00	0.00	21.62
rs987987	Hydroquinone sulfate levels	GCST90199801	2	106976654	G	A	7682	0.08	0.02	0.00	0.00	21.08
rs11684957	Hydroquinone sulfate levels	GCST90199801	2	124669966	G	A	7682	-0.07	0.02	0.00	0.00	20.78
rs161201	Hydroquinone sulfate levels	GCST90199801	3	21490268	C	A	7682	0.10	0.02	0.00	0.00	27.37
rs114296583	Hydroquinone sulfate levels	GCST90199801	3	131589440	A	C	7682	0.23	0.05	0.00	0.00	23.05
rs71622959	Hydroquinone sulfate levels	GCST90199801	4	184427321	A	T	7682	-0.15	0.03	0.00	0.00	20.65
rs112354254	Hydroquinone sulfate levels	GCST90199801	5	32003783	A	C	7682	-0.08	0.02	0.00	0.00	22.65
rs11959880	Hydroquinone sulfate levels	GCST90199801	5	45958124	A	G	7682	-0.12	0.03	0.00	0.00	20.24
rs80064778	Hydroquinone sulfate levels	GCST90199801	5	122342232	T	C	7682	-0.20	0.04	0.00	0.00	20.11
rs1432337	Hydroquinone sulfate levels	GCST90199801	5	125807483	G	A	7682	-0.08	0.02	0.00	0.00	20.76
rs35636600	Hydroquinone sulfate levels	GCST90199801	5	136025452	A	C	7682	0.09	0.02	0.00	0.00	19.65
rs112822061	Hydroquinone sulfate levels	GCST90199801	7	99306410	G	C	7682	-0.14	0.03	0.00	0.00	21.07
rs6960070	Hydroquinone sulfate levels	GCST90199801	7	111446366	G	A	7682	-0.08	0.02	0.00	0.00	21.61
rs947141	Hydroquinone sulfate levels	GCST90199801	10	110729541	C	G	7682	-0.07	0.02	0.00	0.00	20.11
rs12290224	Hydroquinone sulfate levels	GCST90199801	11	32189457	G	C	7682	0.33	0.07	0.00	0.00	24.72
rs2621953	Hydroquinone sulfate levels	GCST90199801	13	76664348	T	C	7682	-0.09	0.02	0.00	0.00	21.54

rs148013175	Hydroquinone sulfate levels	GCST90199801	14	45371122	T	C	7682	-0.31	0.07	0.00	0.00	20.88
rs139641289	Hydroquinone sulfate levels	GCST90199801	21	36338008	G	C	7682	0.39	0.09	0.00	0.00	20.22
rs76456942	Hydroquinone sulfate levels	GCST90199801	21	41204662	C	G	7682	-0.30	0.07	0.00	0.00	20.41
rs74789824	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	1	68994077	C	A	8232	-0.28	0.06	0.00	0.00	20.57
rs2501320	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	1	159890469	A	G	8232	-0.08	0.02	0.00	0.00	24.22
rs73147992	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	2	5145319	T	C	8232	-0.51	0.11	0.00	0.00	21.17
rs186858269	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	2	36092514	A	G	8232	0.31	0.07	0.00	0.00	20.94
rs113554334	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	3	45094351	A	G	8232	-0.15	0.03	0.00	0.00	19.83
rs116780333	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	3	172048795	G	C	8232	0.17	0.04	0.00	0.00	19.52
rs6443851	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	3	183101261	G	A	8232	-0.26	0.02	0.00	0.03	252.58
rs140866072	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	4	45033655	A	G	8232	-0.30	0.07	0.00	0.00	19.97
rs35054388	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	4	58740071	G	T	8232	-0.07	0.02	0.00	0.00	20.16
rs36077257	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	4	80258836	T	C	8232	-0.20	0.04	0.00	0.00	19.59
rs150177352	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	5	78530710	G	C	8232	-0.32	0.07	0.00	0.00	20.96
rs146554922	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	5	105016845	A	C	8232	-0.21	0.05	0.00	0.00	20.45
rs78921650	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	5	130550977	A	C	8232	-0.18	0.04	0.00	0.00	20.70
rs635620	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	5	132384571	G	A	8232	0.13	0.02	0.00	0.01	63.60
rs78098245	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	6	108822906	T	C	8232	0.22	0.05	0.00	0.00	19.67
rs17145750	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	7	73612048	T	C	8232	-0.10	0.02	0.00	0.00	23.59
rs149575342	hydroxyisovaleryl carnitine levels	GCST90199802	7	85572605	C	A	8232	-0.37	0.08	0.00	0.00	23.34

rs589823	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	7	125121332	C	A	8232	-0.07	0.02	0.00	0.00	22.09
rs151183809	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	8	4496626	T	C	8232	-0.42	0.09	0.00	0.00	20.48
rs116901835	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	8	34748841	A	G	8232	0.17	0.04	0.00	0.00	20.60
rs6999075	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	8	67879835	G	A	8232	-0.18	0.04	0.00	0.00	20.26
rs11784961	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	8	90529766	C	T	8232	-0.25	0.06	0.00	0.00	19.55
rs74466606	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	8	127480780	T	C	8232	-0.21	0.04	0.00	0.00	22.74
rs13289681	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	9	91657259	A	G	8232	-0.14	0.03	0.00	0.00	23.24
rs1107329	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	9	129155435	G	C	8232	-0.08	0.02	0.00	0.00	24.41
rs61854637	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	10	5336438	C	G	8232	-0.13	0.03	0.00	0.00	19.76
rs1171617	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	10	59707424	T	G	8232	0.12	0.02	0.00	0.00	40.60
rs1915633	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	10	64741957	G	T	8232	-0.08	0.02	0.00	0.00	19.71
rs60808759	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	12	98545734	C	T	8232	-0.14	0.03	0.00	0.00	19.52
rs2541892	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	12	107249898	A	G	8232	-0.09	0.02	0.00	0.00	19.53
rs74590775	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	13	111436391	C	G	8232	0.10	0.02	0.00	0.00	22.06
rs144650342	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	15	44086059	A	G	8232	-0.33	0.07	0.00	0.00	22.45
rs28412395	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	15	93334733	C	T	8232	-0.16	0.03	0.00	0.00	21.47
rs142163938	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	17	11129297	A	G	8232	-0.35	0.08	0.00	0.00	20.54
rs899198	Beta-hydroxyisovaleroylcarnitine levels	GCST90199802	19	34595944	T	C	8232	-0.07	0.02	0.00	0.00	19.92

rs73199570	Beta-hydroxyisovaleryl carnitine levels	GCST90199802	21	31610053	T	C	8232	-0.14	0.03	0.00	0.00	20.16
rs6426007	Catechol sulfate levels	GCST90199803	1	37071692	T	C	8242	-0.08	0.02	0.00	0.00	22.01
rs114830966	Catechol sulfate levels	GCST90199803	1	74384420	A	G	8242	-0.34	0.08	0.00	0.00	19.68
rs10497721	Catechol sulfate levels	GCST90199803	2	192049636	A	C	8242	-0.12	0.03	0.00	0.00	21.61
rs7635119	Catechol sulfate levels	GCST90199803	3	31975115	T	C	8242	0.09	0.02	0.00	0.00	23.66
rs78738498	Catechol sulfate levels	GCST90199803	3	115653329	T	C	8242	0.07	0.02	0.00	0.00	19.95
rs148888663	Catechol sulfate levels	GCST90199803	4	36493809	C	T	8242	0.21	0.04	0.00	0.00	22.85
rs56070039	Catechol sulfate levels	GCST90199803	4	37539231	T	C	8242	-0.27	0.06	0.00	0.00	23.46
rs6831736	Catechol sulfate levels	GCST90199803	4	67836150	T	A	8242	0.10	0.02	0.00	0.00	20.59
rs11953541	Catechol sulfate levels	GCST90199803	5	15675807	C	T	8242	-0.08	0.02	0.00	0.00	23.72
rs1366298	Catechol sulfate levels	GCST90199803	5	35103600	A	T	8242	-0.21	0.05	0.00	0.00	21.10
rs7744559	Catechol sulfate levels	GCST90199803	6	1335066	T	A	8242	0.07	0.02	0.00	0.00	19.85
rs74689782	Catechol sulfate levels	GCST90199803	6	30883824	A	G	8242	-0.24	0.05	0.00	0.00	26.02
rs118087581	Catechol sulfate levels	GCST90199803	6	147982071	G	A	8242	0.29	0.06	0.00	0.00	22.12
rs116799198	Catechol sulfate levels	GCST90199803	7	100664144	A	G	8242	0.18	0.04	0.00	0.00	20.95
rs7795670	Catechol sulfate levels	GCST90199803	7	156462105	C	T	8242	-0.09	0.02	0.00	0.00	23.01
rs113787014	Catechol sulfate levels	GCST90199803	8	29997641	T	C	8242	-0.29	0.06	0.00	0.00	27.32
rs61627948	Catechol sulfate levels	GCST90199803	8	101632727	A	G	8242	-0.60	0.13	0.00	0.00	20.14
rs1591852	Catechol sulfate levels	GCST90199803	9	8151007	A	C	8242	0.07	0.02	0.00	0.00	20.74
rs4237533	Catechol sulfate levels	GCST90199803	10	121572838	G	A	8242	-0.07	0.02	0.00	0.00	20.93
rs117950985	Catechol sulfate levels	GCST90199803	11	624151	T	C	8242	0.21	0.05	0.00	0.00	22.56
rs188329253	Catechol sulfate levels	GCST90199803	12	21758113	G	T	8242	0.14	0.03	0.00	0.00	20.96
rs17435031	Catechol sulfate levels	GCST90199803	12	121162662	G	T	8242	-0.16	0.04	0.00	0.00	20.46
rs2472297	Catechol sulfate levels	GCST90199803	15	74735539	T	C	8242	0.10	0.02	0.00	0.00	29.39
rs72770519	Catechol sulfate levels	GCST90199803	16	22787037	A	G	8242	-0.10	0.02	0.00	0.00	22.34
rs28483771	Catechol sulfate levels	GCST90199803	16	78983729	A	G	8242	0.11	0.02	0.00	0.00	19.87
rs56126138	Catechol sulfate levels	GCST90199803	17	784406	G	A	8242	-0.21	0.05	0.00	0.00	19.70
rs72835680	Catechol sulfate levels	GCST90199803	17	41813297	T	C	8242	-0.13	0.03	0.00	0.00	21.01
rs60048129	Catechol sulfate levels	GCST90199803	18	23101389	G	A	8242	0.07	0.02	0.00	0.00	19.67
rs143550070	Catechol sulfate levels	GCST90199803	21	16457169	G	T	8242	-0.37	0.07	0.00	0.00	30.42
rs28550594	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hoca) levels	GCST90199804	1	16089094	A	G	8236	-0.08	0.02	0.00	0.00	20.98
rs75903463	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hoca) levels	GCST90199804	1	247894923	G	A	8236	-0.30	0.07	0.00	0.00	19.65

rs34981686	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	2	40488614	C	T	8236	-0.21	0.05	0.00	0.00	19.82
rs41272687	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	2	218814154	T	C	8236	-0.32	0.05	0.00	0.00	38.05
rs2288753	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	2	240769258	T	C	8236	-0.08	0.02	0.00	0.00	19.51
rs13093968	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	3	42841973	A	G	8236	-0.08	0.02	0.00	0.00	23.10
rs815476	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	3	55666055	A	G	8236	-0.12	0.02	0.00	0.00	23.35
rs78022833	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	3	185781799	C	G	8236	0.22	0.05	0.00	0.00	22.19
rs142296498	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	5	104106873	T	G	8236	0.28	0.06	0.00	0.00	20.86
rs6893926	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	5	135223917	G	A	8236	0.09	0.02	0.00	0.00	21.03
rs4415113	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	5	160757099	G	A	8236	-0.10	0.02	0.00	0.00	20.41
rs507924	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	6	152786599	A	C	8236	-0.08	0.02	0.00	0.00	22.22
rs2689427	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	7	16920515	T	C	8236	-0.13	0.03	0.00	0.00	22.73
rs62481441	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	7	106402395	C	T	8236	-0.31	0.07	0.00	0.00	19.66
rs4311610	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	7	131259474	A	T	8236	-0.09	0.02	0.00	0.00	20.36
rs67165780	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	7	146358376	A	T	8236	-0.25	0.06	0.00	0.00	21.21

rs4738684	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	8	58480714	G	A	8236	0.11	0.02	0.00	0.01	46.62
rs7824817	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	8	96311253	A	G	8236	0.19	0.04	0.00	0.00	20.79
rs71439915	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	13	61840545	G	A	8236	0.24	0.05	0.00	0.00	23.19
rs8048618	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	16	26124132	C	T	8236	-0.07	0.02	0.00	0.00	19.67
rs138542845	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	16	82509944	A	G	8236	-0.29	0.07	0.00	0.00	19.65
rs2303771	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	16	87755258	A	G	8236	0.08	0.02	0.00	0.00	21.59
rs144924964	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	17	28093061	A	G	8236	-0.13	0.03	0.00	0.00	19.88
rs77189001	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	18	57177242	A	T	8236	-0.16	0.04	0.00	0.00	19.86
rs62117658	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	19	58503930	A	G	8236	0.17	0.03	0.00	0.00	26.00
rs16982937	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	22	26851807	T	C	8236	0.14	0.03	0.00	0.00	20.30
rs13057638	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-hnca) levels	GCST90199804	22	46266293	T	C	8236	-0.13	0.03	0.00	0.00	24.80
rs10918448	Octadecanedioate levels	GCST90199805	1	166396233	C	T	8223	-0.08	0.02	0.00	0.00	21.47
rs16855032	Octadecanedioate levels	GCST90199805	2	141320499	G	C	8223	-0.15	0.03	0.00	0.00	20.92
rs751317	Octadecanedioate levels	GCST90199805	2	236686459	T	C	8223	-0.09	0.02	0.00	0.00	22.68
rs6772970	Octadecanedioate levels	GCST90199805	3	25071756	A	G	8223	0.10	0.02	0.00	0.00	20.14
rs2886518	Octadecanedioate levels	GCST90199805	3	61559310	C	T	8223	0.07	0.02	0.00	0.00	21.76
rs77688146	Octadecanedioate levels	GCST90199805	3	160689222	T	C	8223	0.20	0.05	0.00	0.00	19.57
rs1229984	Octadecanedioate levels	GCST90199805	4	99318162	C	T	8223	0.20	0.04	0.00	0.00	19.61
rs3736455	Octadecanedioate levels	GCST90199805	4	186201165	G	T	8223	0.08	0.02	0.00	0.00	22.66
rs189458667	Octadecanedioate levels	GCST90199805	6	17735764	A	G	8223	0.25	0.05	0.00	0.00	21.21

rs150900710	Octadecanediolate levels	GCST90199805	6	31030503	A	C	8223	-0.14	0.03	0.00	0.00	20.13
rs1479051	Octadecanediolate levels	GCST90199805	6	124610911	G	T	8223	-0.17	0.04	0.00	0.00	19.56
rs116948115	Octadecanediolate levels	GCST90199805	7	46198219	T	G	8223	-0.20	0.04	0.00	0.00	20.90
rs10255591	Octadecanediolate levels	GCST90199805	7	76117091	C	T	8223	0.11	0.02	0.00	0.00	36.18
rs75337602	Octadecanediolate levels	GCST90199805	8	64371609	A	C	8223	0.18	0.04	0.00	0.00	24.09
rs56260745	Octadecanediolate levels	GCST90199805	9	2194705	T	G	8223	-0.22	0.04	0.00	0.00	23.23
rs315698	Octadecanediolate levels	GCST90199805	9	111957098	A	G	8223	-0.10	0.02	0.00	0.00	21.96
rs77388440	Octadecanediolate levels	GCST90199805	10	21970428	C	T	8223	0.27	0.06	0.00	0.00	19.86
rs79018858	Octadecanediolate levels	GCST90199805	11	74095781	A	G	8223	0.16	0.04	0.00	0.00	21.33
rs11045806	Octadecanediolate levels	GCST90199805	12	21161802	A	G	8223	-0.11	0.02	0.00	0.00	30.00
rs4149056	Octadecanediolate levels	GCST90199805	12	21178615	C	T	8223	0.22	0.02	0.00	0.01	113.10
rs111842670	Octadecanediolate levels	GCST90199805	12	102779586	C	T	8223	0.24	0.05	0.00	0.00	20.24
rs4646208	Octadecanediolate levels	GCST90199805	13	98752489	A	T	8223	0.07	0.02	0.00	0.00	20.79
rs183570385	Octadecanediolate levels	GCST90199805	14	81968633	C	T	8223	0.28	0.06	0.00	0.00	21.36
rs145619219	Octadecanediolate levels	GCST90199805	16	57712729	A	G	8223	0.36	0.08	0.00	0.00	21.40
rs76447629	Octadecanediolate levels	GCST90199805	17	54923736	A	G	8223	0.11	0.02	0.00	0.00	22.39
rs147509526	Octadecanediolate levels	GCST90199805	19	15665520	T	C	8223	0.33	0.07	0.00	0.00	24.86
rs55744319	Octadecanediolate levels	GCST90199805	19	15871011	A	G	8223	-0.16	0.02	0.00	0.01	95.30
rs12406866	Tetradecanediolate (C14-DC) levels	GCST90199806	1	46916299	T	G	8268	0.16	0.02	0.00	0.01	70.33
rs12566673	Tetradecanediolate (C14-DC) levels	GCST90199806	1	151403599	C	T	8268	-0.70	0.16	0.00	0.00	20.35
rs56270155	Tetradecanediolate (C14-DC) levels	GCST90199806	3	61600598	A	G	8268	-0.10	0.02	0.00	0.00	19.69
rs35746477	Tetradecanediolate (C14-DC) levels	GCST90199806	3	143090720	G	C	8268	-0.10	0.02	0.00	0.00	32.70
rs1154862	Tetradecanediolate (C14-DC) levels	GCST90199806	4	12937467	C	T	8268	0.07	0.02	0.00	0.00	19.76
rs146273038	Tetradecanediolate (C14-DC) levels	GCST90199806	4	107850179	T	C	8268	-0.29	0.06	0.00	0.00	22.12
rs9459497	Tetradecanediolate (C14-DC) levels	GCST90199806	6	165725498	C	T	8268	0.08	0.02	0.00	0.00	23.86
rs59407853	Tetradecanediolate (C14-DC) levels	GCST90199806	7	52892286	T	A	8268	0.13	0.03	0.00	0.00	21.21
rs141446740	Tetradecanediolate (C14-DC) levels	GCST90199806	7	77889764	G	T	8268	0.20	0.04	0.00	0.00	20.82
rs192475369	Tetradecanediolate (C14-DC) levels	GCST90199806	9	33552509	T	A	8268	0.28	0.06	0.00	0.00	22.59
rs10980539	Tetradecanediolate (C14-DC) levels	GCST90199806	9	110717509	A	G	8268	0.10	0.02	0.00	0.00	20.15
rs4762697	Tetradecanediolate (C14-DC) levels	GCST90199806	12	21162039	T	A	8268	0.18	0.02	0.00	0.01	113.09

rs4149056	Tetradecanedi oate (C14-DC) levels	GCST90199806	12	21178615	C	T	8268	0.51	0.02	0.00	0.07	653.84
rs2335576	Tetradecanedi oate (C14-DC) levels	GCST90199806	13	22988312	A	G	8268	0.11	0.02	0.00	0.00	20.19
rs17548667	Tetradecanedi oate (C14-DC) levels	GCST90199806	13	106681074	T	C	8268	-0.14	0.03	0.00	0.00	24.39
rs8004771	Tetradecanedi oate (C14-DC) levels	GCST90199806	14	78061809	A	G	8268	0.07	0.02	0.00	0.00	20.05
rs8041483	Tetradecanedi oate (C14-DC) levels	GCST90199806	15	50173024	G	A	8268	0.07	0.02	0.00	0.00	20.35
rs117746399	Tetradecanedi oate (C14-DC) levels	GCST90199806	15	66233062	A	G	8268	-0.20	0.05	0.00	0.00	19.57
rs11247224	Tetradecanedi oate (C14-DC) levels	GCST90199806	15	100549096	G	C	8268	0.07	0.02	0.00	0.00	23.41
rs2425635	Tetradecanedi oate (C14-DC) levels	GCST90199806	20	44395201	G	A	8268	-0.07	0.02	0.00	0.00	20.31
rs12406866	Hexadecanedi oate (C16-DC) levels	GCST90199807	1	46916299	T	G	8260	0.11	0.02	0.00	0.00	33.62
rs1357103	Hexadecanedi oate (C16-DC) levels	GCST90199807	3	117120442	T	C	8260	-0.08	0.02	0.00	0.00	24.80
rs35746477	Hexadecanedi oate (C16-DC) levels	GCST90199807	3	143090720	G	C	8260	-0.11	0.02	0.00	0.00	36.00
rs146273038	Hexadecanedi oate (C16-DC) levels	GCST90199807	4	107850179	T	C	8260	-0.28	0.06	0.00	0.00	20.45
rs10045630	Hexadecanedi oate (C16-DC) levels	GCST90199807	5	124400542	A	G	8260	-0.08	0.02	0.00	0.00	24.83
rs4498360	Hexadecanedi oate (C16-DC) levels	GCST90199807	6	18681541	A	G	8260	0.07	0.02	0.00	0.00	21.67
rs714373	Hexadecanedi oate (C16-DC) levels	GCST90199807	6	47261890	C	T	8260	-0.07	0.02	0.00	0.00	20.13
rs9459497	Hexadecanedi oate (C16-DC) levels	GCST90199807	6	165725498	C	T	8260	0.07	0.02	0.00	0.00	21.50
rs1859792	Hexadecanedi oate (C16-DC) levels	GCST90199807	7	76159946	C	T	8260	0.07	0.02	0.00	0.00	20.70
rs56251182	Hexadecanedi oate (C16-DC) levels	GCST90199807	8	22361155	T	C	8260	-0.25	0.06	0.00	0.00	20.07
rs57613624	Hexadecanedi oate (C16-DC) levels	GCST90199807	8	87542500	G	A	8260	-0.07	0.02	0.00	0.00	20.01
rs56260745	Hexadecanedi oate (C16-DC) levels	GCST90199807	9	2194705	T	G	8260	-0.19	0.04	0.00	0.00	19.52
rs113204178	Hexadecanedi oate (C16-DC) levels	GCST90199807	9	90916567	G	A	8260	0.47	0.10	0.00	0.00	22.72
rs11045806	Hexadecanedi oate (C16-DC) levels	GCST90199807	12	21161802	A	G	8260	-0.23	0.02	0.00	0.02	146.09
rs4149056	Hexadecanedi oate (C16-DC) levels	GCST90199807	12	21178615	C	T	8260	0.52	0.02	0.00	0.08	684.89
rs78865028	Hexadecanedi oate (C16-DC) levels	GCST90199807	12	82143723	T	C	8260	0.13	0.03	0.00	0.00	20.82

rs8002379	Hexadecanedi oate (C16-DC) levels	GCST90199807	13	78398455	C	T	8260	-0.07	0.01	0.00	0.00	19.74
rs7148137	Hexadecanedi oate (C16-DC) levels	GCST90199807	14	26072045	T	A	8260	-0.07	0.02	0.00	0.00	20.39
rs11247224	Hexadecanedi oate (C16-DC) levels	GCST90199807	15	100549096	G	C	8260	0.07	0.02	0.00	0.00	19.94
rs2240648	Hexadecanedi oate (C16-DC) levels	GCST90199807	17	67030399	G	A	8260	0.07	0.02	0.00	0.00	20.27
rs653558	Hexadecanedi oate (C16-DC) levels	GCST90199807	18	8393722	C	A	8260	0.08	0.02	0.00	0.00	19.74
rs14750952 6	Hexadecanedi oate (C16-DC) levels	GCST90199807	19	15665520	T	C	8260	0.32	0.07	0.00	0.00	24.21
rs79400241	Hexadecanedi oate (C16-DC) levels	GCST90199807	19	15873592	G	C	8260	-0.10	0.02	0.00	0.00	35.62
rs55678431	Hexadecanedi oate (C16-DC) levels	GCST90199807	19	15992308	G	A	8260	0.12	0.03	0.00	0.00	19.58
rs2425637	Hexadecanedi oate (C16-DC) levels	GCST90199807	20	44395409	T	G	8260	-0.07	0.02	0.00	0.00	24.18
rs77692382	Glycerophosp hoethanolamin e levels	GCST90199808	1	39941043	T	C	8231	0.10	0.02	0.00	0.00	31.82
rs18128674 9	Glycerophosp hoethanolamin e levels	GCST90199808	2	74656026	G	T	8231	-0.55	0.12	0.00	0.00	20.68
rs34446140	Glycerophosp hoethanolamin e levels	GCST90199808	2	185586679	C	T	8231	-0.08	0.02	0.00	0.00	19.64
rs62259677	Glycerophosp hoethanolamin e levels	GCST90199808	3	51632656	A	G	8231	0.11	0.02	0.00	0.00	25.54
rs11586413 2	Glycerophosp hoethanolamin e levels	GCST90199808	3	185740094	T	C	8231	0.27	0.06	0.00	0.00	19.54
rs4613517	Glycerophosp hoethanolamin e levels	GCST90199808	4	144271949	A	C	8231	0.07	0.02	0.00	0.00	19.74
rs80115825	Glycerophosp hoethanolamin e levels	GCST90199808	5	74897341	G	C	8231	-0.21	0.04	0.00	0.00	23.72
rs4715365	Glycerophosp hoethanolamin e levels	GCST90199808	6	52926962	T	C	8231	0.17	0.04	0.00	0.00	22.79
rs2540682	Glycerophosp hoethanolamin e levels	GCST90199808	7	36237361	A	T	8231	0.10	0.02	0.00	0.00	26.00
rs11760527 4	Glycerophosp hoethanolamin e levels	GCST90199808	7	74687404	G	A	8231	0.33	0.07	0.00	0.00	22.50
rs4735879	Glycerophosp hoethanolamin e levels	GCST90199808	8	588428	G	C	8231	0.07	0.02	0.00	0.00	19.67
rs76894202	Glycerophosp hoethanolamin e levels	GCST90199808	9	121029437	C	T	8231	0.44	0.10	0.00	0.00	20.27
rs7088331	Glycerophosp hoethanolamin e levels	GCST90199808	10	8282427	T	C	8231	-0.09	0.02	0.00	0.00	19.94
rs747259	Glycerophosp hoethanolamin e levels	GCST90199808	10	96207513	G	A	8231	0.07	0.02	0.00	0.00	21.13
rs11817462	Glycerophosp hoethanolamin e levels	GCST90199808	10	116585733	T	C	8231	0.50	0.11	0.00	0.00	19.71

rs7395055	Glycerophosp hoethanolamin e levels	GCST90199808	11	119832798	T	C	8231	-0.07	0.02	0.00	0.00	20.45
rs141866706	Glycerophosp hoethanolamin e levels	GCST90199808	14	73791661	C	T	8231	-0.33	0.07	0.00	0.00	19.55
rs117622611	Glycerophosp hoethanolamin e levels	GCST90199808	14	91080394	T	C	8231	-0.29	0.06	0.00	0.00	23.15
rs140934740	Glycerophosp hoethanolamin e levels	GCST90199808	15	27185258	C	T	8231	0.40	0.09	0.00	0.00	21.84
rs140590033	Glycerophosp hoethanolamin e levels	GCST90199808	15	56474848	T	A	8231	-0.32	0.07	0.00	0.00	20.90
rs12600101	Glycerophosp hoethanolamin e levels	GCST90199808	16	54722478	T	C	8231	0.09	0.02	0.00	0.00	23.32
rs3745347	Glycerophosp hoethanolamin e levels	GCST90199808	19	17026979	C	A	8231	-0.09	0.02	0.00	0.00	24.87
rs184683745	Glycerophosp hoethanolamin e levels	GCST90199808	20	4319890	A	G	8231	-0.23	0.05	0.00	0.00	22.83
rs150494674	Glycerophosp hoethanolamin e levels	GCST90199808	20	43582539	T	C	8231	-0.28	0.06	0.00	0.00	21.05
rs8138467	Glycerophosp hoethanolamin e levels	GCST90199808	22	24061633	A	G	8231	-0.28	0.03	0.00	0.01	69.92
rs74569437	Taurolithochol ate 3-sulfate levels	GCST90199809	1	82890435	A	T	8124	-0.35	0.08	0.00	0.00	21.03
rs112704217	Taurolithochol ate 3-sulfate levels	GCST90199809	1	87337806	C	T	8124	-0.23	0.05	0.00	0.00	22.38
rs12471252	Taurolithochol ate 3-sulfate levels	GCST90199809	2	51993621	C	T	8124	-0.07	0.02	0.00	0.00	19.94
rs34703634	Taurolithochol ate 3-sulfate levels	GCST90199809	2	64279808	G	T	8124	0.08	0.02	0.00	0.00	19.58
rs34970034	Taurolithochol ate 3-sulfate levels	GCST90199809	2	133909229	C	T	8124	-0.07	0.02	0.00	0.00	20.31
rs141417885	Taurolithochol ate 3-sulfate levels	GCST90199809	3	10997958	A	G	8124	-0.35	0.07	0.00	0.00	22.53
rs113362111	Taurolithochol ate 3-sulfate levels	GCST90199809	4	113496686	A	G	8124	-0.20	0.04	0.00	0.00	24.37
rs34082824	Taurolithochol ate 3-sulfate levels	GCST90199809	5	136112057	C	T	8124	-0.07	0.02	0.00	0.00	21.56
rs17678784	Taurolithochol ate 3-sulfate levels	GCST90199809	6	12773249	C	T	8124	0.17	0.04	0.00	0.00	19.77
rs10504255	Taurolithochol ate 3-sulfate levels	GCST90199809	8	58485902	A	G	8124	-0.08	0.02	0.00	0.00	22.15
rs58306009	Taurolithochol ate 3-sulfate levels	GCST90199809	8	120694599	A	C	8124	0.11	0.02	0.00	0.00	20.85
rs149763296	Taurolithochol ate 3-sulfate levels	GCST90199809	9	7963182	T	A	8124	0.33	0.07	0.00	0.00	21.26
rs74487492	Taurolithochol ate 3-sulfate levels	GCST90199809	10	98375625	T	C	8124	-0.22	0.05	0.00	0.00	20.07
rs2944489	Taurolithochol ate 3-sulfate levels	GCST90199809	10	131212568	A	G	8124	-0.18	0.04	0.00	0.00	20.56

rs73517610	Taurolithochol ate 3-sulfate levels	GCST90199809	11	42706974	T	C	8124	0.29	0.06	0.00	0.00	21.11
rs57743625	Taurolithochol ate 3-sulfate levels	GCST90199809	12	21214699	A	G	8124	0.14	0.02	0.00	0.01	48.62
rs55971546	Taurolithochol ate 3-sulfate levels	GCST90199809	13	103065958	T	C	8124	0.40	0.04	0.00	0.01	120.95
rs17767256	Taurolithochol ate 3-sulfate levels	GCST90199809	17	30254025	G	T	8124	0.08	0.02	0.00	0.00	23.08
rs72913109	Taurolithochol ate 3-sulfate levels	GCST90199809	18	8260752	T	C	8124	-0.24	0.05	0.00	0.00	25.29
rs77090254	Taurolithochol ate 3-sulfate levels	GCST90199809	19	15003754	A	G	8124	-0.39	0.08	0.00	0.00	20.82
rs58150062	Taurolithochol ate 3-sulfate levels	GCST90199809	19	48775046	A	G	8124	-0.08	0.02	0.00	0.00	19.61
rs74550359	Taurolithochol ate 3-sulfate levels	GCST90199809	20	42037082	A	G	8124	0.25	0.06	0.00	0.00	19.56
rs35603308	Taurolithochol ate 3-sulfate levels	GCST90199809	21	22679042	A	G	8124	-0.11	0.02	0.00	0.00	28.86
rs624700	1-palmitoyl- GPI (16:0) levels	GCST90199810	1	62435141	C	G	8246	-0.08	0.02	0.00	0.00	22.90
rs14716302 2	1-palmitoyl- GPI (16:0) levels	GCST90199810	2	44919375	T	C	8246	-0.32	0.07	0.00	0.00	22.70
rs332085	1-palmitoyl- GPI (16:0) levels	GCST90199810	2	118654035	T	C	8246	0.07	0.02	0.00	0.00	19.55
rs62160874	1-palmitoyl- GPI (16:0) levels	GCST90199810	2	136043758	C	T	8246	0.17	0.04	0.00	0.00	22.03
rs6744072	1-palmitoyl- GPI (16:0) levels	GCST90199810	2	197306281	A	G	8246	-0.21	0.05	0.00	0.00	19.89
rs336594	1-palmitoyl- GPI (16:0) levels	GCST90199810	3	37210779	A	G	8246	-0.09	0.02	0.00	0.00	20.71
rs76014634	1-palmitoyl- GPI (16:0) levels	GCST90199810	3	66859462	A	G	8246	0.20	0.04	0.00	0.00	23.58
rs11647761 3	1-palmitoyl- GPI (16:0) levels	GCST90199810	3	89674219	G	A	8246	0.18	0.04	0.00	0.00	19.74
rs18884888 9	1-palmitoyl- GPI (16:0) levels	GCST90199810	3	142911256	T	A	8246	0.23	0.05	0.00	0.00	20.63
rs7610125	1-palmitoyl- GPI (16:0) levels	GCST90199810	3	152913328	T	C	8246	-0.07	0.02	0.00	0.00	23.44
rs75472732	1-palmitoyl- GPI (16:0) levels	GCST90199810	6	165368666	C	A	8246	-0.38	0.09	0.00	0.00	20.11
rs7819032	1-palmitoyl- GPI (16:0) levels	GCST90199810	8	6598153	G	C	8246	0.08	0.02	0.00	0.00	21.62
rs6477187	1-palmitoyl- GPI (16:0) levels	GCST90199810	9	7341123	G	T	8246	0.07	0.02	0.00	0.00	21.94
rs4504735	1-palmitoyl- GPI (16:0) levels	GCST90199810	9	17630502	T	C	8246	0.14	0.03	0.00	0.00	21.20
rs10845471	1-palmitoyl- GPI (16:0) levels	GCST90199810	12	12080073	T	C	8246	0.09	0.02	0.00	0.00	24.97

rs4267127	1-palmitoyl- GPI (16:0) levels	GCST90199810	12	45568634	A	G	8246	0.28	0.06	0.00	0.00	24.10
rs14397352 2	1-palmitoyl- GPI (16:0) levels	GCST90199810	14	23990954	C	T	8246	0.16	0.04	0.00	0.00	21.19
rs11797531 4	1-palmitoyl- GPI (16:0) levels	GCST90199810	16	46549042	C	T	8246	-0.33	0.06	0.00	0.00	26.95
rs78035938	1-palmitoyl- GPI (16:0) levels	GCST90199810	17	27814919	T	C	8246	-0.17	0.04	0.00	0.00	19.51
rs7234924	1-palmitoyl- GPI (16:0) levels	GCST90199810	18	63977930	C	T	8246	-0.09	0.02	0.00	0.00	22.28
rs14519281 6	1-palmitoyl- GPI (16:0) levels	GCST90199810	19	5531366	A	G	8246	-0.53	0.11	0.00	0.00	21.58
rs36631	1-palmitoyl- GPI (16:0) levels	GCST90199810	19	54187532	A	G	8246	-0.07	0.02	0.00	0.00	22.26
rs13937886 6	1-palmitoyl- GPI (16:0) levels	GCST90199810	20	60924887	A	T	8246	-0.32	0.07	0.00	0.00	19.54
rs12740674	Glycolithochol ate sulfate levels	GCST90199811	1	68121775	T	C	8165	0.07	0.02	0.00	0.00	19.57
rs12122211	Glycolithochol ate sulfate levels	GCST90199811	1	89737236	T	C	8165	-0.23	0.05	0.00	0.00	22.82
rs75424340	Glycolithochol ate sulfate levels	GCST90199811	2	75791822	T	C	8165	-0.37	0.08	0.00	0.00	22.77
rs14730347 4	Glycolithochol ate sulfate levels	GCST90199811	2	161487523	C	T	8165	0.14	0.03	0.00	0.00	19.88
rs14877753 6	Glycolithochol ate sulfate levels	GCST90199811	2	205036882	A	G	8165	-0.38	0.08	0.00	0.00	20.07
rs75030995	Glycolithochol ate sulfate levels	GCST90199811	4	113598729	A	G	8165	-0.15	0.03	0.00	0.00	20.26
rs72793048	Glycolithochol ate sulfate levels	GCST90199811	5	109270826	C	A	8165	0.26	0.06	0.00	0.00	20.12
rs13355868	Glycolithochol ate sulfate levels	GCST90199811	5	129362753	C	T	8165	-0.11	0.02	0.00	0.00	19.74
rs60929293	Glycolithochol ate sulfate levels	GCST90199811	6	109976456	T	C	8165	-0.13	0.03	0.00	0.00	20.06
rs2494786	Glycolithochol ate sulfate levels	GCST90199811	9	91806735	G	A	8165	-0.41	0.09	0.00	0.00	20.13
rs17111898	Glycolithochol ate sulfate levels	GCST90199811	10	96471990	T	C	8165	-1.34	0.30	0.00	0.00	20.15
rs18597963 4	Glycolithochol ate sulfate levels	GCST90199811	10	99643566	C	T	8165	-0.17	0.03	0.00	0.00	25.55
rs4295961	Glycolithochol ate sulfate levels	GCST90199811	10	131373985	G	A	8165	-0.09	0.02	0.00	0.00	19.99
rs10773933	Glycolithochol ate sulfate levels	GCST90199811	12	153480	G	C	8165	-0.14	0.03	0.00	0.00	19.78
rs4149056	Glycolithochol ate sulfate levels	GCST90199811	12	21178615	C	T	8165	0.22	0.02	0.00	0.01	111.91
rs55971546	Glycolithochol ate sulfate levels	GCST90199811	13	103065958	T	C	8165	0.39	0.04	0.00	0.01	115.22

rs78269053	Glycolithochol ate sulfate levels	GCST90199811	14	24325108	G	A	8165	0.09	0.02	0.00	0.00	21.58
rs11806175 1	Glycolithochol ate sulfate levels	GCST90199811	14	104714057	G	C	8165	-0.17	0.04	0.00	0.00	20.89
rs7226221	Glycolithochol ate sulfate levels	GCST90199811	17	66721754	T	C	8165	-0.07	0.02	0.00	0.00	20.04
rs77090254	Glycolithochol ate sulfate levels	GCST90199811	19	15003754	A	G	8165	-0.40	0.08	0.00	0.00	22.54
rs11162096 2	Glycolithochol ate sulfate levels	GCST90199811	20	4373940	G	A	8165	0.19	0.04	0.00	0.00	20.15
rs55726434	Glycolithochol ate sulfate levels	GCST90199811	20	47805619	T	C	8165	0.19	0.04	0.00	0.00	20.81
rs14446832 8	Glycolithochol ate sulfate levels	GCST90199811	20	59205082	A	G	8165	0.36	0.08	0.00	0.00	20.63
rs13396806	3-(3- hydroxypheny l)propionate levels	GCST90199812	2	6898127	A	G	7304	0.11	0.03	0.00	0.00	20.09
rs11586027 2	3-(3- hydroxypheny l)propionate levels	GCST90199812	2	14108526	A	G	7304	-0.58	0.13	0.00	0.00	19.72
rs11636873 3	3-(3- hydroxypheny l)propionate levels	GCST90199812	3	138075986	G	A	7304	0.20	0.04	0.00	0.00	22.03
rs2642700	3-(3- hydroxypheny l)propionate levels	GCST90199812	5	85403514	C	T	7304	0.08	0.02	0.00	0.00	21.12
rs11542694 5	3-(3- hydroxypheny l)propionate levels	GCST90199812	5	159945101	T	C	7304	-0.35	0.08	0.00	0.00	19.84
rs6934444	3-(3- hydroxypheny l)propionate levels	GCST90199812	6	53845093	A	C	7304	0.08	0.02	0.00	0.00	21.03
rs77232508	3-(3- hydroxypheny l)propionate levels	GCST90199812	6	159450178	T	C	7304	-0.29	0.06	0.00	0.00	23.13
rs11766611	3-(3- hydroxypheny l)propionate levels	GCST90199812	7	4790832	A	G	7304	-0.25	0.05	0.00	0.00	22.85
rs819005	3-(3- hydroxypheny l)propionate levels	GCST90199812	7	16799519	G	T	7304	0.08	0.02	0.00	0.00	23.02
rs59641559	3-(3- hydroxypheny l)propionate levels	GCST90199812	8	14879374	A	C	7304	0.24	0.05	0.00	0.00	21.69
rs15099098 1	3-(3- hydroxypheny l)propionate levels	GCST90199812	10	125639560	C	T	7304	-0.37	0.08	0.00	0.00	20.12
rs17123519	3-(3- hydroxypheny l)propionate levels	GCST90199812	11	119982429	T	C	7304	0.21	0.05	0.00	0.00	20.59
rs3759117	3-(3- hydroxypheny l)propionate levels	GCST90199812	12	26443415	C	T	7304	-0.10	0.02	0.00	0.00	21.21

rs10467439	3-(3-hydroxyphenyl)propionate levels	GCST90199812	13	19630828	A	G	7304	-0.12	0.03	0.00	0.00	19.59
rs116849224	3-(3-hydroxyphenyl)propionate levels	GCST90199812	14	20653428	T	G	7304	-0.24	0.05	0.00	0.00	28.07
rs75892186	3-(3-hydroxyphenyl)propionate levels	GCST90199812	15	72680442	T	A	7304	0.10	0.02	0.00	0.00	21.61
rs12919433	3-(3-hydroxyphenyl)propionate levels	GCST90199812	16	25949880	C	G	7304	-0.08	0.02	0.00	0.00	20.99
rs73527994	3-(3-hydroxyphenyl)propionate levels	GCST90199812	16	26811073	T	C	7304	-0.09	0.02	0.00	0.00	21.39
rs2301351	3-(3-hydroxyphenyl)propionate levels	GCST90199812	17	3938142	T	C	7304	0.09	0.02	0.00	0.00	22.00
rs76084898	3-(3-hydroxyphenyl)propionate levels	GCST90199812	18	10039713	T	G	7304	0.28	0.06	0.00	0.00	22.87
rs72913712	3-(3-hydroxyphenyl)propionate levels	GCST90199812	18	48775316	G	C	7304	0.18	0.04	0.00	0.00	21.57
rs5748088	3-(3-hydroxyphenyl)propionate levels	GCST90199812	22	19273722	A	G	7304	0.12	0.03	0.00	0.00	20.37
rs12411241	Deoxycarnitine levels	GCST90199813	1	99085584	G	A	8271	0.17	0.04	0.00	0.00	20.32
rs742124	Deoxycarnitine levels	GCST90199813	1	169630399	C	A	8271	0.27	0.06	0.00	0.00	19.53
rs145912982	Deoxycarnitine levels	GCST90199813	2	238410453	T	C	8271	-0.29	0.07	0.00	0.00	19.56
rs114508299	Deoxycarnitine levels	GCST90199813	3	107220458	A	G	8271	0.32	0.07	0.00	0.00	21.10
rs10805120	Deoxycarnitine levels	GCST90199813	4	43959335	T	C	8271	-0.06	0.01	0.00	0.00	20.14
rs4860865	Deoxycarnitine levels	GCST90199813	4	67917354	C	T	8271	0.06	0.01	0.00	0.00	19.95
rs150302182	Deoxycarnitine levels	GCST90199813	5	43909590	C	T	8271	-0.22	0.05	0.00	0.00	20.78
rs30495	Deoxycarnitine levels	GCST90199813	5	134108235	T	C	8271	-0.09	0.02	0.00	0.00	20.20
rs146767775	Deoxycarnitine levels	GCST90199813	5	151313145	T	G	8271	-0.29	0.06	0.00	0.00	20.89
rs112707322	Deoxycarnitine levels	GCST90199813	5	164427948	A	G	8271	0.08	0.02	0.00	0.00	19.71
rs116397816	Deoxycarnitine levels	GCST90199813	6	43868382	T	A	8271	-0.21	0.05	0.00	0.00	22.46
rs2107816	Deoxycarnitine levels	GCST90199813	7	10245254	C	T	8271	0.07	0.02	0.00	0.00	19.64
rs565299273	Deoxycarnitine levels	GCST90199813	8	33951531	C	G	8271	0.22	0.05	0.00	0.00	21.97
rs2919407	Deoxycarnitine levels	GCST90199813	8	72826922	G	A	8271	-0.07	0.02	0.00	0.00	22.44
rs4407984	Deoxycarnitine levels	GCST90199813	9	19659977	T	C	8271	0.17	0.04	0.00	0.00	21.47
rs117815568	Deoxycarnitine levels	GCST90199813	10	45018787	T	A	8271	-0.19	0.04	0.00	0.00	20.11
rs1171615	Deoxycarnitine levels	GCST90199813	10	59709332	T	C	8271	0.14	0.02	0.00	0.01	71.53
rs28757342	Deoxycarnitine levels	GCST90199813	10	92680513	A	C	8271	-0.25	0.05	0.00	0.00	20.42
rs112038444	Deoxycarnitine levels	GCST90199813	10	127838311	A	G	8271	0.09	0.02	0.00	0.00	20.47

rs17243908	Deoxycarnitine levels	GCST90199813	11	27095194	C	A	8271	0.28	0.04	0.00	0.01	60.15
rs11545229	Deoxycarnitine levels	GCST90199813	11	65127634	A	G	8271	-0.36	0.07	0.00	0.00	22.62
rs34400381	Deoxycarnitine levels	GCST90199813	11	65376421	A	G	8271	-0.20	0.04	0.00	0.00	26.41
rs2072536	Deoxycarnitine levels	GCST90199813	12	204273	T	C	8271	0.09	0.01	0.00	0.00	38.06
rs10774021	Deoxycarnitine levels	GCST90199813	12	240132	T	C	8271	0.35	0.01	0.00	0.07	612.30
rs2255531	Deoxycarnitine levels	GCST90199813	12	120977112	A	G	8271	0.09	0.01	0.00	0.00	37.84
rs143234114	Deoxycarnitine levels	GCST90199813	13	21925688	A	G	8271	-0.25	0.06	0.00	0.00	19.61
rs61950399	Deoxycarnitine levels	GCST90199813	13	43109722	A	G	8271	-0.32	0.07	0.00	0.00	24.01
rs192059833	Deoxycarnitine levels	GCST90199813	15	93414262	A	G	8271	-0.36	0.08	0.00	0.00	21.79
rs117618079	Deoxycarnitine levels	GCST90199813	16	9333266	G	A	8271	0.25	0.05	0.00	0.00	21.05
rs3961283	Deoxycarnitine levels	GCST90199813	16	68283733	A	G	8271	-0.08	0.02	0.00	0.00	25.66
rs150486047	Deoxycarnitine levels	GCST90199813	17	29068245	G	C	8271	-0.40	0.09	0.00	0.00	20.99
rs116558165	Deoxycarnitine levels	GCST90199813	18	5883304	A	T	8271	0.09	0.02	0.00	0.00	20.64
rs146712992	Deoxycarnitine levels	GCST90199813	18	12558759	A	G	8271	0.29	0.06	0.00	0.00	21.27
rs117375762	Deoxycarnitine levels	GCST90199813	19	7713462	G	A	8271	0.19	0.04	0.00	0.00	20.06
rs2178775	Deoxycarnitine levels	GCST90199813	19	15662529	T	C	8271	0.06	0.01	0.00	0.00	20.89
rs6061706	Deoxycarnitine levels	GCST90199813	20	61661803	A	G	8271	-0.07	0.01	0.00	0.00	20.08
rs563729432	Alpha-hydroxycaproate levels	GCST90199814	1	244491148	C	T	5169	0.59	0.12	0.00	0.00	23.10
rs12026433	Alpha-hydroxycaproate levels	GCST90199814	1	248062952	C	T	5169	0.24	0.05	0.00	0.00	19.81
rs139668794	Alpha-hydroxycaproate levels	GCST90199814	2	6041770	A	G	5169	0.45	0.10	0.00	0.00	20.25
rs12472643	Alpha-hydroxycaproate levels	GCST90199814	2	27516439	T	C	5169	0.16	0.03	0.00	0.00	19.99
rs76342392	Alpha-hydroxycaproate levels	GCST90199814	3	36490407	C	A	5169	-0.21	0.05	0.00	0.00	19.63
rs139698830	Alpha-hydroxycaproate levels	GCST90199814	3	113993966	T	A	5169	0.38	0.08	0.00	0.00	20.99
rs12198569	Alpha-hydroxycaproate levels	GCST90199814	6	10327265	A	T	5169	-0.10	0.02	0.00	0.00	20.77
rs36152998	Alpha-hydroxycaproate levels	GCST90199814	7	261082	A	G	5169	0.17	0.04	0.00	0.00	20.05
rs113275145	Alpha-hydroxycaproate levels	GCST90199814	7	38564850	T	C	5169	0.23	0.05	0.00	0.00	20.29
rs76899585	Alpha-hydroxycaproate levels	GCST90199814	7	70977956	G	C	5169	-0.43	0.09	0.00	0.00	21.33
rs140630045	Alpha-hydroxycaproate levels	GCST90199814	9	104136441	T	C	5169	-0.45	0.10	0.00	0.00	20.24
rs78837751	Alpha-hydroxycaproate levels	GCST90199814	9	129499869	T	C	5169	0.39	0.07	0.00	0.01	29.23
rs149925047	Alpha-hydroxycaproate levels	GCST90199814	10	104541358	T	A	5169	-0.34	0.07	0.00	0.00	23.33

rs17749643	Alpha-hydroxycaproate levels	GCST90199814	12	31014532	C	T	5169	-0.13	0.03	0.00	0.00	19.75
rs116860269	Alpha-hydroxycaproate levels	GCST90199814	12	114541409	C	A	5169	0.34	0.07	0.00	0.01	26.75
rs77431760	Alpha-hydroxycaproate levels	GCST90199814	14	83613870	G	A	5169	0.19	0.04	0.00	0.00	22.82
rs7496520	Alpha-hydroxycaproate levels	GCST90199814	15	66861263	T	G	5169	0.10	0.02	0.00	0.00	20.78
rs12976528	Alpha-hydroxycaproate levels	GCST90199814	19	3288140	G	T	5169	0.13	0.03	0.00	0.00	19.92
rs117001118	Alpha-hydroxycaproate levels	GCST90199814	20	62556488	T	C	5169	0.21	0.05	0.00	0.00	20.67
rs111403524	Alpha-hydroxycaproate levels	GCST90199814	21	45384362	A	G	5169	-0.25	0.06	0.00	0.00	20.18
rs4656069	1-ribosyl-imidazoleacetate levels	GCST90199815	1	88975213	G	A	8205	0.07	0.01	0.00	0.00	22.61
rs72773040	1-ribosyl-imidazoleacetate levels	GCST90199815	2	2605758	G	T	8205	0.21	0.05	0.00	0.00	21.75
rs139009667	1-ribosyl-imidazoleacetate levels	GCST90199815	2	25906357	A	T	8205	0.42	0.08	0.00	0.00	26.14
rs149935875	1-ribosyl-imidazoleacetate levels	GCST90199815	2	81431607	G	A	8205	0.28	0.06	0.00	0.00	20.42
rs1047891	1-ribosyl-imidazoleacetate levels	GCST90199815	2	210675783	A	C	8205	-0.09	0.02	0.00	0.00	31.50
rs2600783	1-ribosyl-imidazoleacetate levels	GCST90199815	2	236705648	A	G	8205	0.09	0.02	0.00	0.00	21.01
rs62243461	1-ribosyl-imidazoleacetate levels	GCST90199815	3	20254680	A	C	8205	0.09	0.02	0.00	0.00	21.43
rs17812823	1-ribosyl-imidazoleacetate levels	GCST90199815	3	20958633	C	T	8205	0.14	0.03	0.00	0.00	25.23
rs6809813	1-ribosyl-imidazoleacetate levels	GCST90199815	3	54556517	A	G	8205	0.08	0.02	0.00	0.00	24.89
rs76269162	1-ribosyl-imidazoleacetate levels	GCST90199815	3	101124440	A	G	8205	-0.21	0.04	0.00	0.00	22.68
rs143727980	1-ribosyl-imidazoleacetate levels	GCST90199815	3	124565174	A	G	8205	0.23	0.05	0.00	0.00	20.12
rs28547461	1-ribosyl-imidazoleacetate levels	GCST90199815	4	178409219	A	T	8205	-0.09	0.02	0.00	0.00	20.45
rs80217604	1-ribosyl-imidazoleacetate levels	GCST90199815	5	9614546	T	G	8205	-0.10	0.02	0.00	0.00	19.55
rs17342717	1-ribosyl-imidazoleacetate levels	GCST90199815	6	25821542	T	C	8205	0.11	0.02	0.00	0.00	20.78
rs62491563	1-ribosyl-imidazoleacetate levels	GCST90199815	7	135798123	T	A	8205	0.10	0.02	0.00	0.00	20.28
rs1346278	1-ribosyl-imidazoleacetate levels	GCST90199815	8	14303723	C	T	8205	0.18	0.04	0.00	0.00	22.42
rs9657360	1-ribosyl-imidazoleacetate levels	GCST90199815	8	143594692	T	C	8205	0.14	0.02	0.00	0.01	64.40

rs7094385	1-ribosyl- imidazoleaceta te levels	GCST90199815	10	12091253	G	A	8205	0.16	0.02	0.00	0.01	85.64
rs117948287	1-ribosyl- imidazoleaceta te levels	GCST90199815	10	83512999	T	C	8205	0.27	0.06	0.00	0.00	20.34
rs117445518	1-ribosyl- imidazoleaceta te levels	GCST90199815	10	117404546	G	C	8205	0.21	0.04	0.00	0.00	24.23
rs2950366	1-ribosyl- imidazoleaceta te levels	GCST90199815	10	122841998	C	T	8205	0.07	0.01	0.00	0.00	22.38
rs77049511	1-ribosyl- imidazoleaceta te levels	GCST90199815	11	21349320	G	A	8205	0.29	0.06	0.00	0.00	20.81
rs4754857	1-ribosyl- imidazoleaceta te levels	GCST90199815	11	102561747	C	T	8205	-0.07	0.02	0.00	0.00	19.81
rs11613331	1-ribosyl- imidazoleaceta te levels	GCST90199815	12	242301	A	G	8205	0.15	0.01	0.00	0.01	105.89
rs4770992	1-ribosyl- imidazoleaceta te levels	GCST90199815	13	26506795	C	A	8205	0.13	0.03	0.00	0.00	20.17
rs80286416	1-ribosyl- imidazoleaceta te levels	GCST90199815	13	75363665	A	T	8205	-0.18	0.04	0.00	0.00	23.86
rs17598020	1-ribosyl- imidazoleaceta te levels	GCST90199815	15	50491035	G	T	8205	-0.20	0.04	0.00	0.00	20.88
rs527015	1-ribosyl- imidazoleaceta te levels	GCST90199815	15	55115054	A	G	8205	0.11	0.02	0.00	0.00	19.82
rs190511520	1-ribosyl- imidazoleaceta te levels	GCST90199815	16	10005016	C	A	8205	0.36	0.08	0.00	0.00	20.01
rs8050744	1-ribosyl- imidazoleaceta te levels	GCST90199815	16	58758580	G	A	8205	0.12	0.03	0.00	0.00	20.20
rs11651947	1-ribosyl- imidazoleaceta te levels	GCST90199815	17	13612288	A	G	8205	0.15	0.03	0.00	0.00	20.13
rs72831434	1-ribosyl- imidazoleaceta te levels	GCST90199815	17	65788833	T	C	8205	0.20	0.04	0.00	0.00	21.68
rs117086971	1-ribosyl- imidazoleaceta te levels	GCST90199815	17	73872111	T	C	8205	0.19	0.04	0.00	0.00	20.24
rs17083196	1-ribosyl- imidazoleaceta te levels	GCST90199815	18	70802538	G	A	8205	0.20	0.04	0.00	0.00	21.01
rs78744187	1-ribosyl- imidazoleaceta te levels	GCST90199815	19	33263642	T	C	8205	0.12	0.03	0.00	0.00	22.72
rs137941718	1-ribosyl- imidazoleaceta te levels	GCST90199815	21	34852995	T	C	8205	-0.24	0.05	0.00	0.00	20.57
rs67417370	1-ribosyl- imidazoleaceta te levels	GCST90199815	21	41098598	G	A	8205	-0.09	0.02	0.00	0.00	30.84
rs12058849	3,4- dihydroxybuty rate levels	GCST90199816	1	21591226	C	G	8142	-0.14	0.03	0.00	0.00	21.17
rs17391311	3,4- dihydroxybuty rate levels	GCST90199816	1	50841286	C	T	8142	-0.07	0.02	0.00	0.00	20.44
rs12043849	3,4- dihydroxybuty rate levels	GCST90199816	1	80138523	T	C	8142	0.15	0.03	0.00	0.00	20.78
rs144722959	3,4- dihydroxybuty rate levels	GCST90199816	2	49786778	G	T	8142	0.24	0.05	0.00	0.00	21.32

rs139416157	3,4-dihydroxybutyrate levels	GCST90199816	3	14626772	A	G	8142	0.27	0.06	0.00	0.00	19.57
rs74546513	3,4-dihydroxybutyrate levels	GCST90199816	3	113744603	C	T	8142	-0.20	0.05	0.00	0.00	19.52
rs114243366	3,4-dihydroxybutyrate levels	GCST90199816	4	170170487	T	C	8142	0.27	0.06	0.00	0.00	20.21
rs78844764	3,4-dihydroxybutyrate levels	GCST90199816	5	40979491	A	C	8142	0.14	0.03	0.00	0.00	26.49
rs337707	3,4-dihydroxybutyrate levels	GCST90199816	5	114410140	G	C	8142	0.07	0.01	0.00	0.00	21.14
rs3094086	3,4-dihydroxybutyrate levels	GCST90199816	6	30951614	A	G	8142	0.11	0.02	0.00	0.00	27.38
rs11755805	3,4-dihydroxybutyrate levels	GCST90199816	6	163666899	T	C	8142	0.09	0.02	0.00	0.00	22.82
rs13437782	3,4-dihydroxybutyrate levels	GCST90199816	7	131092810	T	A	8142	-0.20	0.04	0.00	0.00	20.99
rs9657215	3,4-dihydroxybutyrate levels	GCST90199816	8	13125486	A	G	8142	0.12	0.03	0.00	0.00	22.03
rs2719004	3,4-dihydroxybutyrate levels	GCST90199816	8	66467907	A	G	8142	-0.18	0.01	0.00	0.02	147.51
rs186858384	3,4-dihydroxybutyrate levels	GCST90199816	10	50669650	C	T	8142	0.34	0.07	0.00	0.00	21.14
rs11825966	3,4-dihydroxybutyrate levels	GCST90199816	11	6712930	T	C	8142	0.15	0.03	0.00	0.00	19.67
rs141746347	3,4-dihydroxybutyrate levels	GCST90199816	11	49889242	C	A	8142	2.41	0.54	0.00	0.00	20.18
rs9581326	3,4-dihydroxybutyrate levels	GCST90199816	13	19139842	T	C	8142	-0.11	0.03	0.00	0.00	19.78
rs734896	3,4-dihydroxybutyrate levels	GCST90199816	13	90796759	A	G	8142	0.08	0.02	0.00	0.00	20.01
rs12433517	3,4-dihydroxybutyrate levels	GCST90199816	14	102660575	G	T	8142	-0.07	0.02	0.00	0.00	19.84
rs446184	3,4-dihydroxybutyrate levels	GCST90199816	15	67008185	C	T	8142	-0.07	0.02	0.00	0.00	21.47
rs11072790	3,4-dihydroxybutyrate levels	GCST90199816	15	78699683	T	C	8142	0.07	0.01	0.00	0.00	19.91
rs9933495	3,4-dihydroxybutyrate levels	GCST90199816	16	83353352	G	C	8142	-0.08	0.02	0.00	0.00	20.70
rs6046758	3,4-dihydroxybutyrate levels	GCST90199816	20	20252958	T	C	8142	0.09	0.02	0.00	0.00	23.19
rs2838824	3,4-dihydroxybutyrate levels	GCST90199816	21	45235470	A	G	8142	0.16	0.03	0.00	0.00	23.41
rs7554832	Indoleacetylglutamine levels	GCST90199817	1	151966109	A	T	6161	0.16	0.02	0.00	0.01	83.34
rs9425803	Indoleacetylglutamine levels	GCST90199817	1	177308789	T	A	6161	-0.08	0.02	0.00	0.00	20.51
rs17662991	Indoleacetylglutamine levels	GCST90199817	1	199821560	A	C	6161	0.25	0.05	0.00	0.00	21.76
rs16843273	Indoleacetylglutamine levels	GCST90199817	1	234467459	T	C	6161	0.24	0.05	0.00	0.00	28.11
rs6789480	Indoleacetylglutamine levels	GCST90199817	3	126678768	T	C	6161	0.26	0.05	0.00	0.00	30.49

rs113605803	Indoleacetylglutamine levels	GCST90199817	3	147483243	C	T	6161	0.34	0.07	0.00	0.00	25.15
rs140434445	Indoleacetylglutamine levels	GCST90199817	4	54805126	A	G	6161	0.34	0.07	0.00	0.00	20.06
rs75205909	Indoleacetylglutamine levels	GCST90199817	4	75441772	A	G	6161	-0.27	0.05	0.00	0.00	26.23
rs73035753	Indoleacetylglutamine levels	GCST90199817	5	1553053	A	G	6161	0.29	0.06	0.00	0.00	20.42
rs6451414	Indoleacetylglutamine levels	GCST90199817	5	39155725	G	A	6161	-0.10	0.02	0.00	0.00	28.57
rs72762058	Indoleacetylglutamine levels	GCST90199817	5	45467324	A	G	6161	-0.18	0.04	0.00	0.00	22.81
rs10062400	Indoleacetylglutamine levels	GCST90199817	5	174387591	A	G	6161	0.10	0.02	0.00	0.00	24.67
rs2718327	Indoleacetylglutamine levels	GCST90199817	7	88578636	T	C	6161	0.12	0.03	0.00	0.00	19.53
rs1492654	Indoleacetylglutamine levels	GCST90199817	8	95327672	T	C	6161	-0.09	0.02	0.00	0.00	20.81
rs11780127	Indoleacetylglutamine levels	GCST90199817	8	142732095	T	G	6161	0.09	0.02	0.00	0.00	21.44
rs10827479	Indoleacetylglutamine levels	GCST90199817	10	34977733	T	C	6161	-0.08	0.02	0.00	0.00	20.04
rs2216128	Indoleacetylglutamine levels	GCST90199817	12	13730080	A	G	6161	-0.10	0.02	0.00	0.00	20.13
rs188218095	Indoleacetylglutamine levels	GCST90199817	12	52960402	G	A	6161	-0.31	0.07	0.00	0.00	20.92
rs148185670	Indoleacetylglutamine levels	GCST90199817	13	50936683	T	A	6161	1.00	0.20	0.00	0.00	23.70
rs79126231	Indoleacetylglutamine levels	GCST90199817	15	27775777	G	C	6161	0.20	0.04	0.00	0.00	21.42
rs146214606	Indoleacetylglutamine levels	GCST90199817	15	61579592	T	C	6161	-0.18	0.04	0.00	0.00	21.85
rs188391775	Indoleacetylglutamine levels	GCST90199817	16	20357775	T	C	6161	-0.27	0.06	0.00	0.00	21.20
rs2271060	Indoleacetylglutamine levels	GCST90199817	16	20471301	T	G	6161	0.22	0.02	0.00	0.02	136.45
rs76530968	Indoleacetylglutamine levels	GCST90199817	16	20854542	A	G	6161	0.22	0.04	0.00	0.01	37.04
rs60072988	Indoleacetylglutamine levels	GCST90199817	19	13601807	A	G	6161	-0.16	0.03	0.00	0.00	22.96
rs2182418	Mannitol/sorbitol levels	GCST90199818	1	198656401	G	A	8211	0.07	0.02	0.00	0.00	20.87
rs114444327	Mannitol/sorbitol levels	GCST90199818	1	225628863	A	G	8211	-0.13	0.03	0.00	0.00	22.51
rs2581076	Mannitol/sorbitol levels	GCST90199818	2	11946572	G	A	8211	-0.10	0.02	0.00	0.00	21.84
rs140946796	Mannitol/sorbitol levels	GCST90199818	3	13141142	G	T	8211	0.37	0.08	0.00	0.00	20.97
rs17633438	Mannitol/sorbitol levels	GCST90199818	3	177615010	C	A	8211	-0.21	0.05	0.00	0.00	20.17
rs11132860	Mannitol/sorbitol levels	GCST90199818	4	167093572	C	T	8211	-0.12	0.03	0.00	0.00	19.64
rs10042053	Mannitol/sorbitol levels	GCST90199818	5	9835391	C	T	8211	0.12	0.03	0.00	0.00	22.91
rs9456322	Mannitol/sorbitol levels	GCST90199818	6	158570972	T	G	8211	-0.11	0.02	0.00	0.00	20.10
rs73104508	Mannitol/sorbitol levels	GCST90199818	7	32151985	G	A	8211	0.27	0.06	0.00	0.00	22.95
rs6958030	Mannitol/sorbitol levels	GCST90199818	7	66992988	C	T	8211	0.08	0.02	0.00	0.00	20.66
rs188577789	Mannitol/sorbitol levels	GCST90199818	7	102371110	T	C	8211	0.86	0.17	0.00	0.00	25.24
rs6970525	Mannitol/sorbitol levels	GCST90199818	7	150097370	C	T	8211	0.15	0.03	0.00	0.00	19.59
rs146859896	Mannitol/sorbitol levels	GCST90199818	8	6375439	T	C	8211	0.26	0.06	0.00	0.00	20.17
rs573787	Mannitol/sorbitol levels	GCST90199818	9	27178323	C	G	8211	0.08	0.02	0.00	0.00	20.15
rs73456129	Mannitol/sorbitol levels	GCST90199818	9	77455022	G	A	8211	0.14	0.03	0.00	0.00	20.33
rs7474686	Mannitol/sorbitol levels	GCST90199818	10	20092092	G	A	8211	-0.09	0.02	0.00	0.00	23.86
rs61856855	Mannitol/sorbitol levels	GCST90199818	10	96798783	A	C	8211	0.43	0.09	0.00	0.00	22.44

rs12708366	Mannitol/sorbi tol levels	GCST90199818	12	12677531	G	C	8211	0.07	0.02	0.00	0.00	19.72
rs14718369 0	Mannitol/sorbi tol levels	GCST90199818	12	64914043	T	C	8211	0.38	0.08	0.00	0.00	23.73
rs28789219	Mannitol/sorbi tol levels	GCST90199818	14	20281454	C	T	8211	0.12	0.02	0.00	0.00	24.08
rs4923799	Mannitol/sorbi tol levels	GCST90199818	15	38522176	C	G	8211	0.11	0.02	0.00	0.00	21.77
rs18959292 0	Mannitol/sorbi tol levels	GCST90199818	15	60132516	A	G	8211	0.81	0.15	0.00	0.00	29.03
rs7186512	Mannitol/sorbi tol levels	GCST90199818	16	50386912	C	A	8211	-0.10	0.02	0.00	0.00	21.11
rs14285666 6	Mannitol/sorbi tol levels	GCST90199818	18	21650201	T	A	8211	-0.31	0.07	0.00	0.00	19.94
rs12964854	Mannitol/sorbi tol levels	GCST90199818	18	45681461	T	C	8211	-0.08	0.02	0.00	0.00	23.57
rs13873535 9	Mannitol/sorbi tol levels	GCST90199818	18	56914585	T	C	8211	0.29	0.06	0.00	0.00	19.87
rs11686939 3	Mannitol/sorbi tol levels	GCST90199818	21	45482468	T	C	8211	0.32	0.07	0.00	0.00	19.66
rs11778707 0	Mannitol/sorbi tol levels	GCST90199818	22	21724859	T	C	8211	0.38	0.08	0.00	0.00	25.37
rs11591904 3	Tryptophan betaine levels	GCST90199819	1	3632802	A	G	8216	-0.40	0.09	0.00	0.00	20.52
rs860285	Tryptophan betaine levels	GCST90199819	1	58450975	A	G	8216	0.08	0.02	0.00	0.00	23.51
rs14395021 7	Tryptophan betaine levels	GCST90199819	1	183737371	T	C	8216	-0.20	0.05	0.00	0.00	19.65
rs11536154 8	Tryptophan betaine levels	GCST90199819	2	54179357	G	A	8216	-0.25	0.06	0.00	0.00	19.93
rs11498844 9	Tryptophan betaine levels	GCST90199819	2	211554744	A	G	8216	-0.21	0.04	0.00	0.00	29.91
rs11904625	Tryptophan betaine levels	GCST90199819	2	231720615	G	A	8216	0.09	0.02	0.00	0.00	24.65
rs11543523 5	Tryptophan betaine levels	GCST90199819	4	5680591	G	A	8216	0.13	0.03	0.00	0.00	25.10
rs78047097	Tryptophan betaine levels	GCST90199819	4	103656020	C	T	8216	-0.32	0.07	0.00	0.00	21.32
rs14424009 3	Tryptophan betaine levels	GCST90199819	5	23351275	C	A	8216	0.15	0.03	0.00	0.00	19.98
rs11958116	Tryptophan betaine levels	GCST90199819	5	115919026	C	T	8216	0.08	0.02	0.00	0.00	22.73
rs270611	Tryptophan betaine levels	GCST90199819	5	132256377	A	C	8216	-0.28	0.05	0.00	0.00	33.79
rs7705826	Tryptophan betaine levels	GCST90199819	5	132396764	G	T	8216	0.28	0.02	0.00	0.02	185.62
rs80133044	Tryptophan betaine levels	GCST90199819	5	176856484	A	G	8216	0.17	0.04	0.00	0.00	20.79
rs7724462	Tryptophan betaine levels	GCST90199819	5	178767664	T	C	8216	-0.07	0.02	0.00	0.00	20.55
rs4398731	Tryptophan betaine levels	GCST90199819	6	43311983	A	G	8216	0.08	0.02	0.00	0.00	23.42
rs9341702	Tryptophan betaine levels	GCST90199819	6	77862762	T	C	8216	0.08	0.02	0.00	0.00	23.46
rs12111593	Tryptophan betaine levels	GCST90199819	7	79668544	T	C	8216	-0.12	0.03	0.00	0.00	19.70
rs6465247	Tryptophan betaine levels	GCST90199819	7	90195163	A	G	8216	-0.09	0.02	0.00	0.00	22.88
rs9655607	Tryptophan betaine levels	GCST90199819	7	151417143	A	G	8216	-0.11	0.02	0.00	0.00	19.57
rs78098652	Tryptophan betaine levels	GCST90199819	8	1086698	C	A	8216	0.09	0.02	0.00	0.00	19.72
rs11713719 1	Tryptophan betaine levels	GCST90199819	8	24008695	T	C	8216	-0.32	0.07	0.00	0.00	23.69
rs2294026	Tryptophan betaine levels	GCST90199819	8	90646677	T	G	8216	0.50	0.11	0.00	0.00	19.56
rs4741926	Tryptophan betaine levels	GCST90199819	9	4232824	C	A	8216	-0.07	0.02	0.00	0.00	22.83
rs77817339	Tryptophan betaine levels	GCST90199819	10	66254929	A	C	8216	-0.18	0.04	0.00	0.00	22.86
rs7096124	Tryptophan betaine levels	GCST90199819	10	84155430	C	T	8216	-0.11	0.02	0.00	0.00	21.76
rs11775002 7	Tryptophan betaine levels	GCST90199819	10	127285328	T	C	8216	-0.26	0.06	0.00	0.00	20.93

rs13935870 1	Tryptophan betaine levels	GCST90199819	11	108850834	T	C	8216	0.37	0.08	0.00	0.00	20.51
rs75998368	Tryptophan betaine levels	GCST90199819	13	103536555	T	C	8216	-0.30	0.06	0.00	0.00	24.47
rs61477208	Tryptophan betaine levels	GCST90199819	14	95378826	C	T	8216	0.08	0.02	0.00	0.00	21.42
rs75758266	Tryptophan betaine levels	GCST90199819	15	27601119	A	G	8216	-0.30	0.06	0.00	0.00	21.30
rs75588954	Tryptophan betaine levels	GCST90199819	15	99641214	G	A	8216	-0.11	0.03	0.00	0.00	19.86
rs34114657	Tryptophan betaine levels	GCST90199819	16	30573109	C	T	8216	-0.08	0.02	0.00	0.00	20.40
rs14000912 0	Tryptophan betaine levels	GCST90199819	16	73890707	A	C	8216	-0.48	0.09	0.00	0.00	32.10
rs908951	Tryptophan betaine levels	GCST90199819	16	89631217	T	C	8216	-0.08	0.02	0.00	0.00	23.55
rs62073551	Tryptophan betaine levels	GCST90199819	17	78503828	T	C	8216	-0.07	0.02	0.00	0.00	19.51
rs6052299	Tryptophan betaine levels	GCST90199819	20	4070263	T	C	8216	0.20	0.04	0.00	0.00	20.03
rs56214525	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	1	206023974	C	G	8273	-0.39	0.09	0.00	0.00	19.74
rs45599238	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	2	31372009	A	G	8273	-0.31	0.07	0.00	0.00	21.15
rs4666608	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	2	180807684	T	C	8273	-0.08	0.02	0.00	0.00	19.59
rs14857446 7	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	2	237603277	A	G	8273	0.39	0.09	0.00	0.00	20.38
rs12491225	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	3	46706963	A	G	8273	0.07	0.02	0.00	0.00	22.92
rs10933724	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	3	194249062	C	G	8273	-0.10	0.02	0.00	0.00	19.58
rs72724075	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	4	149414614	A	C	8273	-0.08	0.02	0.00	0.00	21.99
rs74359901	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	4	163033822	T	A	8273	0.16	0.04	0.00	0.00	19.77
rs77207094	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	5	11520799	C	T	8273	-0.27	0.06	0.00	0.00	23.81
rs78335203	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	5	159949703	A	T	8273	-0.20	0.04	0.00	0.00	20.67
rs11621338 5	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	5	170030685	T	A	8273	-0.25	0.05	0.00	0.00	21.36
rs73045049	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	7	2658714	A	G	8273	-0.19	0.04	0.00	0.00	20.65
rs77717381	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	7	26630018	T	A	8273	-0.12	0.03	0.00	0.00	20.22

rs13927894 6	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	7	96776335	A	T	8273	-0.22	0.05	0.00	0.00	22.71
rs15094126 1	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	10	129642407	C	T	8273	-0.32	0.07	0.00	0.00	23.52
rs61897793	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	11	61831875	A	G	8273	0.15	0.02	0.00	0.01	57.53
rs11183167	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	12	45692313	G	A	8273	0.10	0.02	0.00	0.00	20.53
rs12431272	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	13	31391571	G	A	8273	0.18	0.04	0.00	0.00	22.85
rs75362977	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	13	55082503	C	T	8273	-0.25	0.05	0.00	0.00	21.00
rs11760442 6	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	15	91465221	T	A	8273	0.29	0.06	0.00	0.00	23.24
rs291035	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	15	95095723	A	C	8273	0.10	0.02	0.00	0.00	22.51
rs4122352	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	16	15080714	A	G	8273	0.10	0.02	0.00	0.00	37.25
rs76661303	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	16	26811000	T	C	8273	-0.35	0.07	0.00	0.00	23.19
rs74791474	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	17	15490795	A	G	8273	0.21	0.05	0.00	0.00	20.18
rs7505861	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	18	46165440	G	A	8273	-0.08	0.02	0.00	0.00	20.51
rs9980400	Dihomo- linolenate (20:3n3 or n6) levels	GCST90199820	21	30279393	T	C	8273	-0.18	0.04	0.00	0.00	19.98
rs1168041	1-linoleoyl- GPI (18:2)	GCST90199821	1	62494579	C	T	8268	0.07	0.02	0.00	0.00	20.99
rs7523124	1-linoleoyl- GPI (18:2)	GCST90199821	1	168013272	G	T	8268	0.20	0.04	0.00	0.00	20.88
rs6743891	1-linoleoyl- GPI (18:2)	GCST90199821	2	4895819	C	G	8268	-0.08	0.02	0.00	0.00	21.82
rs74888656	1-linoleoyl- GPI (18:2)	GCST90199821	2	57988041	A	G	8268	0.16	0.04	0.00	0.00	20.99
rs74899452	1-linoleoyl- GPI (18:2)	GCST90199821	2	206321155	A	G	8268	-0.09	0.02	0.00	0.00	22.74
rs3863997	1-linoleoyl- GPI (18:2)	GCST90199821	3	148474350	C	T	8268	0.09	0.02	0.00	0.00	28.54
rs11937096	1-linoleoyl- GPI (18:2)	GCST90199821	4	77215883	A	G	8268	0.16	0.03	0.00	0.00	26.24
rs18919719 0	1-linoleoyl- GPI (18:2)	GCST90199821	4	142845821	T	G	8268	-0.41	0.08	0.00	0.00	27.77
rs2217008	1-linoleoyl- GPI (18:2)	GCST90199821	4	152028592	T	C	8268	-0.07	0.02	0.00	0.00	19.59
rs13210587	1-linoleoyl- GPI (18:2)	GCST90199821	6	6054168	G	A	8268	-0.07	0.02	0.00	0.00	20.26
rs4504735	1-linoleoyl- GPI (18:2)	GCST90199821	9	17630502	T	C	8268	0.14	0.03	0.00	0.00	20.45

rs11142400	1-linoleoyl-GPI (18:2)	GCST90199821	9	70403043	A	G	8268	0.08	0.02	0.00	0.00	21.61
rs174547	1-linoleoyl-GPI (18:2)	GCST90199821	11	61803311	C	T	8268	0.17	0.02	0.00	0.01	108.63
rs4149067	1-linoleoyl-GPI (18:2)	GCST90199821	12	21200977	G	C	8268	0.15	0.02	0.00	0.01	60.54
rs76569837	1-linoleoyl-GPI (18:2)	GCST90199821	12	45565980	A	G	8268	-0.29	0.06	0.00	0.00	24.33
rs79267724	1-linoleoyl-GPI (18:2)	GCST90199821	12	127635476	A	G	8268	-0.28	0.06	0.00	0.00	21.49
rs78841021	1-linoleoyl-GPI (18:2)	GCST90199821	13	74028138	G	A	8268	-0.14	0.03	0.00	0.00	26.68
rs53556528 1	1-linoleoyl-GPI (18:2)	GCST90199821	17	37066629	C	G	8268	0.38	0.08	0.00	0.00	21.29
rs11652267	1-linoleoyl-GPI (18:2)	GCST90199821	17	43502713	T	C	8268	0.12	0.03	0.00	0.00	19.96
rs11668882	1-linoleoyl-GPI (18:2)	GCST90199821	19	54171328	T	C	8268	-0.15	0.02	0.00	0.01	94.52
rs2057237	1-linoleoyl-GPI (18:2)	GCST90199821	20	56991273	A	G	8268	-0.11	0.02	0.00	0.00	21.19
rs9617090	1-linoleoyl-GPI (18:2)	GCST90199821	22	50000765	T	C	8268	0.07	0.02	0.00	0.00	20.99
rs18925724 8	1-oleoyl-GPI (18:1) levels	GCST90199822	1	3879673	G	A	8252	0.15	0.03	0.00	0.00	21.00
rs624698	1-oleoyl-GPI (18:1) levels	GCST90199822	1	62435140	G	A	8252	-0.07	0.02	0.00	0.00	20.45
rs55942846	1-oleoyl-GPI (18:1) levels	GCST90199822	1	167565436	C	T	8252	-0.11	0.02	0.00	0.00	22.82
rs17224622	1-oleoyl-GPI (18:1) levels	GCST90199822	2	206282154	A	G	8252	-0.08	0.02	0.00	0.00	20.23
rs9883813	1-oleoyl-GPI (18:1) levels	GCST90199822	3	49333111	G	C	8252	-0.09	0.02	0.00	0.00	21.48
rs11309320 6	1-oleoyl-GPI (18:1) levels	GCST90199822	3	72146966	A	C	8252	-0.37	0.08	0.00	0.00	21.63
rs12695769	1-oleoyl-GPI (18:1) levels	GCST90199822	3	142934808	G	T	8252	0.10	0.02	0.00	0.00	40.13
rs3863997	1-oleoyl-GPI (18:1) levels	GCST90199822	3	148474350	C	T	8252	0.07	0.02	0.00	0.00	19.81
rs14425372 8	1-oleoyl-GPI (18:1) levels	GCST90199822	4	12833954	A	C	8252	-0.30	0.06	0.00	0.00	22.89
rs17011286	1-oleoyl-GPI (18:1) levels	GCST90199822	4	86010226	G	A	8252	0.19	0.04	0.00	0.00	20.34
rs34418039	1-oleoyl-GPI (18:1) levels	GCST90199822	4	141098404	A	G	8252	0.12	0.03	0.00	0.00	20.30
rs2140199	1-oleoyl-GPI (18:1) levels	GCST90199822	4	180872890	C	T	8252	0.14	0.03	0.00	0.00	23.06
rs77637866	1-oleoyl-GPI (18:1) levels	GCST90199822	5	127609734	A	G	8252	0.37	0.08	0.00	0.00	20.81
rs71564306	1-oleoyl-GPI (18:1) levels	GCST90199822	6	14140732	T	C	8252	-0.21	0.05	0.00	0.00	20.01
rs459553	1-oleoyl-GPI (18:1) levels	GCST90199822	6	133912709	C	T	8252	0.27	0.05	0.00	0.00	27.09
rs14229877 5	1-oleoyl-GPI (18:1) levels	GCST90199822	7	2424978	A	G	8252	-0.24	0.05	0.00	0.00	21.10
rs2215327	1-oleoyl-GPI (18:1) levels	GCST90199822	7	146646462	A	G	8252	0.09	0.02	0.00	0.00	22.79
rs11697284 7	1-oleoyl-GPI (18:1) levels	GCST90199822	8	9166632	G	T	8252	-0.26	0.05	0.00	0.00	22.89
rs14034288 5	1-oleoyl-GPI (18:1) levels	GCST90199822	8	62450278	T	A	8252	0.35	0.08	0.00	0.00	20.04
rs3121314	1-oleoyl-GPI (18:1) levels	GCST90199822	10	42954658	T	C	8252	-0.12	0.02	0.00	0.00	23.82
rs17392456	1-oleoyl-GPI (18:1) levels	GCST90199822	11	12350065	C	T	8252	-0.15	0.03	0.00	0.00	20.58
rs174599	1-oleoyl-GPI (18:1) levels	GCST90199822	11	61854084	C	G	8252	0.10	0.02	0.00	0.00	37.59
rs477113	1-oleoyl-GPI (18:1) levels	GCST90199822	11	119852521	C	T	8252	0.07	0.02	0.00	0.00	20.44
rs56165099	1-oleoyl-GPI (18:1) levels	GCST90199822	12	21204797	T	C	8252	0.10	0.02	0.00	0.00	29.03
rs11609632	1-oleoyl-GPI (18:1) levels	GCST90199822	12	94929167	C	G	8252	0.15	0.03	0.00	0.00	23.23
rs3012140	1-oleoyl-GPI (18:1) levels	GCST90199822	13	39854948	T	C	8252	-0.12	0.03	0.00	0.00	21.56

rs53310713 1	1-oleoyl-GPI (18:1) levels	GCST90199822	13	63057468	A	G	8252	-0.40	0.09	0.00	0.00	19.68
rs79374656	1-oleoyl-GPI (18:1) levels	GCST90199822	14	64436744	T	C	8252	-0.19	0.04	0.00	0.00	26.81
rs8044239	1-oleoyl-GPI (18:1) levels	GCST90199822	16	80525651	G	A	8252	-0.26	0.06	0.00	0.00	19.67
rs73432170	1-oleoyl-GPI (18:1) levels	GCST90199822	17	80252079	G	C	8252	-0.40	0.09	0.00	0.00	20.23
rs35947948	1-oleoyl-GPI (18:1) levels	GCST90199822	19	29099981	T	C	8252	0.18	0.04	0.00	0.00	20.65
rs4806498	1-oleoyl-GPI (18:1) levels	GCST90199822	19	54171009	C	T	8252	-0.09	0.02	0.00	0.00	36.37
rs79984731	1-oleoyl-GPI (18:1) levels	GCST90199822	20	49326435	C	G	8252	-0.29	0.06	0.00	0.00	22.74
rs6425827	O-cresol sulfate levels	GCST90199823	1	33551749	T	C	7315	-0.09	0.02	0.00	0.00	20.10
rs14221865 0	O-cresol sulfate levels	GCST90199823	2	208742189	T	G	7315	0.22	0.05	0.00	0.00	19.56
rs2271153	O-cresol sulfate levels	GCST90199823	2	234098248	A	G	7315	-0.10	0.02	0.00	0.00	19.70
rs11512368 0	O-cresol sulfate levels	GCST90199823	4	25386156	A	G	7315	-0.36	0.08	0.00	0.00	19.55
rs11385890 1	O-cresol sulfate levels	GCST90199823	4	30093574	C	G	7315	-0.24	0.05	0.00	0.00	19.85
rs4629532	O-cresol sulfate levels	GCST90199823	4	116685849	A	G	7315	-0.09	0.02	0.00	0.00	25.74
rs7749719	O-cresol sulfate levels	GCST90199823	6	7894462	C	T	7315	-0.30	0.07	0.00	0.00	20.11
rs10948097	O-cresol sulfate levels	GCST90199823	6	43820118	A	G	7315	-0.13	0.03	0.00	0.00	21.68
rs9341923	O-cresol sulfate levels	GCST90199823	6	82461180	A	G	7315	-0.11	0.02	0.00	0.00	20.72
rs1796273	O-cresol sulfate levels	GCST90199823	7	157660307	C	T	7315	-0.69	0.14	0.00	0.00	22.61
rs6601542	O-cresol sulfate levels	GCST90199823	8	10975355	G	A	7315	-0.08	0.02	0.00	0.00	20.76
rs11060438	O-cresol sulfate levels	GCST90199823	12	129558627	T	C	7315	-0.13	0.03	0.00	0.00	20.27
rs16947062	O-cresol sulfate levels	GCST90199823	13	92142699	T	C	7315	-0.12	0.03	0.00	0.00	22.80
rs2333536	O-cresol sulfate levels	GCST90199823	14	29094700	T	C	7315	-0.15	0.03	0.00	0.00	25.86
rs11309022 1	O-cresol sulfate levels	GCST90199823	14	77003341	G	C	7315	-0.24	0.05	0.00	0.00	21.12
rs7149267	O-cresol sulfate levels	GCST90199823	14	92864979	A	T	7315	0.07	0.02	0.00	0.00	19.67
rs698050	O-cresol sulfate levels	GCST90199823	14	98071057	T	A	7315	0.07	0.02	0.00	0.00	20.38
rs34654008	O-cresol sulfate levels	GCST90199823	15	31286333	T	A	7315	0.09	0.02	0.00	0.00	19.76
rs11696239 0	O-cresol sulfate levels	GCST90199823	16	25976452	T	C	7315	-0.17	0.04	0.00	0.00	19.98
rs45525532	O-cresol sulfate levels	GCST90199823	20	33034099	A	G	7315	0.32	0.07	0.00	0.00	19.81
rs6029865	O-cresol sulfate levels	GCST90199823	20	41877556	T	C	7315	-0.11	0.02	0.00	0.00	23.59
rs1884033	O-cresol sulfate levels	GCST90199823	20	42054954	A	G	7315	-0.09	0.02	0.00	0.00	22.77
rs14269473 9	4-vinylphenol sulfate levels	GCST90199824	1	7203721	T	C	8280	-0.33	0.07	0.00	0.00	23.78
rs78237766	4-vinylphenol sulfate levels	GCST90199824	1	236120971	A	G	8280	-0.20	0.04	0.00	0.00	31.68
rs14069516 4	4-vinylphenol sulfate levels	GCST90199824	2	9411681	G	C	8280	0.26	0.06	0.00	0.00	22.28
rs73918668	4-vinylphenol sulfate levels	GCST90199824	2	16721414	G	A	8280	-0.21	0.05	0.00	0.00	19.81
rs62256120	4-vinylphenol sulfate levels	GCST90199824	3	5498918	A	C	8280	-0.15	0.03	0.00	0.00	24.05
rs13999454 3	4-vinylphenol sulfate levels	GCST90199824	3	80335197	C	G	8280	-0.29	0.07	0.00	0.00	19.68
rs7664177	4-vinylphenol sulfate levels	GCST90199824	4	56752410	T	C	8280	-0.12	0.03	0.00	0.00	24.32
rs14254713 4	4-vinylphenol sulfate levels	GCST90199824	4	145364838	G	A	8280	-0.35	0.08	0.00	0.00	19.51

rs10017190	4-vinylphenol sulfate levels	GCST90199824	4	188734273	T	G	8280	0.08	0.02	0.00	0.00	23.29
rs4323268	4-vinylphenol sulfate levels	GCST90199824	5	1117629	T	A	8280	-0.07	0.02	0.00	0.00	20.29
rs890779	4-vinylphenol sulfate levels	GCST90199824	5	117488755	C	T	8280	0.08	0.02	0.00	0.00	23.39
rs62388082	4-vinylphenol sulfate levels	GCST90199824	5	175580042	A	T	8280	-0.10	0.02	0.00	0.00	21.47
rs17221716	4-vinylphenol sulfate levels	GCST90199824	6	33344749	G	A	8280	-0.29	0.07	0.00	0.00	20.40
rs2235878	4-vinylphenol sulfate levels	GCST90199824	6	79695001	C	T	8280	0.07	0.02	0.00	0.00	20.00
rs72712396	4-vinylphenol sulfate levels	GCST90199824	8	127426736	C	T	8280	-0.11	0.02	0.00	0.00	21.74
rs56784286	4-vinylphenol sulfate levels	GCST90199824	9	129178429	T	C	8280	0.69	0.15	0.00	0.00	20.60
rs9566940	4-vinylphenol sulfate levels	GCST90199824	13	42213801	T	C	8280	0.07	0.02	0.00	0.00	20.68
rs71427503	4-vinylphenol sulfate levels	GCST90199824	13	90905620	C	T	8280	-0.30	0.07	0.00	0.00	19.69
rs12588347	4-vinylphenol sulfate levels	GCST90199824	14	20512638	T	C	8280	0.10	0.02	0.00	0.00	19.73
rs8005363	4-vinylphenol sulfate levels	GCST90199824	14	67589673	A	G	8280	0.08	0.02	0.00	0.00	20.39
rs72799677	4-vinylphenol sulfate levels	GCST90199824	16	53371601	C	T	8280	-0.17	0.04	0.00	0.00	23.08
rs11628878 6	4-vinylphenol sulfate levels	GCST90199824	16	89101952	T	C	8280	0.18	0.04	0.00	0.00	20.65
rs6025376	4-vinylphenol sulfate levels	GCST90199824	20	57106268	A	G	8280	0.09	0.02	0.00	0.00	23.48
rs17806741	4-vinylphenol sulfate levels	GCST90199824	22	17013211	A	G	8280	0.15	0.03	0.00	0.00	20.97
rs74571463	4-vinylphenol sulfate levels	GCST90199824	22	46973434	T	C	8280	-0.25	0.06	0.00	0.00	20.41
rs17368985	Pyrraline	GCST90199825	1	97545393	C	T	7920	-0.13	0.03	0.00	0.00	19.93
rs34092232	Pyrraline	GCST90199825	1	203516050	T	A	7920	-0.34	0.08	0.00	0.00	19.62
rs1253621	Pyrraline	GCST90199825	1	236454557	A	G	7920	-0.07	0.02	0.00	0.00	20.83
rs78720491	Pyrraline	GCST90199825	2	25265166	C	T	7920	-0.20	0.04	0.00	0.00	21.12
rs6546829	Pyrraline	GCST90199825	2	73386661	G	C	7920	-0.09	0.02	0.00	0.00	26.05
rs14687833 4	Pyrraline levels	GCST90199825	2	100726584	G	A	7920	-0.43	0.10	0.00	0.00	19.61
rs334125	Pyrraline	GCST90199825	2	178194197	G	T	7920	-0.07	0.02	0.00	0.00	19.85
rs77770732	Pyrraline	GCST90199825	3	66386929	G	A	7920	-0.22	0.05	0.00	0.00	20.20
rs74485582	Pyrraline	GCST90199825	4	4856748	T	C	7920	0.13	0.03	0.00	0.00	20.84
rs58781224	Pyrraline	GCST90199825	4	16654451	A	G	7920	0.21	0.05	0.00	0.00	20.66
rs14271086 9	Pyrraline levels	GCST90199825	4	143904304	C	A	7920	-0.43	0.09	0.00	0.00	21.97
rs77207094	Pyrraline	GCST90199825	5	11520799	C	T	7920	0.26	0.06	0.00	0.00	19.74
rs1150705	Pyrraline	GCST90199825	6	28226008	G	T	7920	-0.08	0.02	0.00	0.00	25.26
rs14134674 1	Pyrraline levels	GCST90199825	6	124394909	G	C	7920	-0.35	0.08	0.00	0.00	19.59
rs28377809	Pyrraline	GCST90199825	9	71440355	A	G	7920	-0.15	0.03	0.00	0.00	19.88
rs7869355	Pyrraline	GCST90199825	9	112744487	T	C	7920	-0.08	0.02	0.00	0.00	20.51
rs2298253	Pyrraline	GCST90199825	10	8260518	C	T	7920	-0.09	0.02	0.00	0.00	19.68
rs7085530	Pyrraline	GCST90199825	10	133315673	C	A	7920	-0.09	0.02	0.00	0.00	19.70
rs494342	Pyrraline	GCST90199825	13	55994104	A	T	7920	0.09	0.02	0.00	0.00	26.86
rs1885837	Pyrraline	GCST90199825	14	87896416	C	T	7920	-0.07	0.02	0.00	0.00	20.36
rs71480524	Pyrraline	GCST90199825	15	59415740	G	A	7920	-0.29	0.06	0.00	0.00	20.94
rs11635754	Pyrraline	GCST90199825	15	88275828	G	T	7920	-0.08	0.02	0.00	0.00	19.89
rs78056593	Pyrraline	GCST90199825	22	23914067	T	C	7920	-0.14	0.03	0.00	0.00	20.75
rs79068455	N6-acetyllysine	GCST90199826	1	101925871	A	G	8242	0.29	0.06	0.00	0.00	20.47
rs11265493	N6-acetyllysine	GCST90199826	1	160834012	G	A	8242	0.07	0.02	0.00	0.00	22.05
rs14241053 4	N6-acetyllysine	GCST90199826	3	192969310	T	C	8242	0.20	0.04	0.00	0.00	21.75
rs13146163	N6-acetyllysine	GCST90199826	4	76490938	T	G	8242	0.08	0.02	0.00	0.00	25.78
rs4696423	N6-acetyllysine	GCST90199826	4	153119558	G	C	8242	0.12	0.03	0.00	0.00	20.63
rs4724828	N6-acetyllysine	GCST90199826	7	1258812	T	C	8242	0.11	0.02	0.00	0.00	19.54
rs11733847 6	N6-acetyllysine	GCST90199826	7	22149648	T	C	8242	0.31	0.07	0.00	0.00	20.88

rs11789963 1	N6-acetyllysine	GCST90199826	8	8913066	A	C	8242	0.54	0.11	0.00	0.00	25.07
rs17698603	N6-acetyllysine	GCST90199826	8	96082595	G	A	8242	-0.19	0.04	0.00	0.00	24.65
rs75314121	N6-acetyllysine	GCST90199826	10	88930049	A	G	8242	-0.16	0.03	0.00	0.00	21.23
rs12573737	N6-acetyllysine	GCST90199826	10	126513067	A	G	8242	0.11	0.02	0.00	0.00	20.54
rs79099014	N6-acetyllysine	GCST90199826	12	11929686	T	C	8242	0.25	0.05	0.00	0.00	22.37
rs1171067	N6-acetyllysine	GCST90199826	13	35888010	A	C	8242	0.11	0.02	0.00	0.00	20.76
rs7141598	N6-acetyllysine	GCST90199826	14	61403662	G	A	8242	0.30	0.07	0.00	0.00	20.31
rs7173135	N6-acetyllysine	GCST90199826	15	59016939	G	T	8242	-0.07	0.02	0.00	0.00	19.56
rs14549290 9	N6-acetyllysine	GCST90199826	15	69472229	T	C	8242	0.41	0.09	0.00	0.00	23.52
rs11763998 6	N6-acetyllysine	GCST90199826	16	83783032	G	C	8242	0.15	0.03	0.00	0.00	21.35
rs13894	N6-acetyllysine	GCST90199826	17	7626584	A	G	8242	-0.62	0.03	0.00	0.06	483.01
rs1050541	N6-acetyllysine	GCST90199826	17	7657517	G	T	8242	0.14	0.02	0.00	0.01	72.62
rs11418193 4	Thymol sulfate levels	GCST90199827	1	116006636	G	A	8063	0.24	0.05	0.00	0.00	20.41
rs6698827	Thymol sulfate levels	GCST90199827	1	247534028	G	A	8063	0.07	0.02	0.00	0.00	20.27
rs34753169	Thymol sulfate levels	GCST90199827	2	14416781	G	A	8063	0.10	0.02	0.00	0.00	21.44
rs72915927	Thymol sulfate levels	GCST90199827	2	193951285	G	A	8063	-0.18	0.04	0.00	0.00	21.66
rs11898702	Thymol sulfate levels	GCST90199827	2	213467791	G	A	8063	-0.25	0.05	0.00	0.00	20.11
rs60718411	Thymol sulfate levels	GCST90199827	3	70562985	G	T	8063	0.08	0.02	0.00	0.00	20.56
rs62294997	Thymol sulfate levels	GCST90199827	4	35030697	A	C	8063	0.11	0.02	0.00	0.00	20.06
rs11403305 2	Thymol sulfate levels	GCST90199827	6	24648390	C	T	8063	0.34	0.07	0.00	0.00	24.19
rs12212049	Thymol sulfate levels	GCST90199827	6	25758838	T	G	8063	-0.11	0.02	0.00	0.01	47.97
rs6928991	Thymol sulfate levels	GCST90199827	6	150149203	A	C	8063	0.09	0.02	0.00	0.00	24.92
rs12673079	Thymol sulfate levels	GCST90199827	7	8525818	G	A	8063	-0.08	0.02	0.00	0.00	19.67
rs14117751 9	Thymol sulfate levels	GCST90199827	7	57147299	C	T	8063	0.30	0.07	0.00	0.00	20.33
rs75171090	Thymol sulfate levels	GCST90199827	10	69319645	T	C	8063	0.18	0.04	0.00	0.00	27.28
rs75794524	Thymol sulfate levels	GCST90199827	10	94934834	A	G	8063	0.21	0.03	0.00	0.01	45.67
rs78374343	Thymol sulfate levels	GCST90199827	11	80738647	T	C	8063	0.26	0.05	0.00	0.00	21.78
rs836891	Thymol sulfate levels	GCST90199827	19	20173209	A	G	8063	0.10	0.02	0.00	0.00	19.83
rs71363986	Thymol sulfate levels	GCST90199827	19	29571048	A	G	8063	0.13	0.03	0.00	0.00	20.83
rs6046489	Thymol sulfate levels	GCST90199827	20	19964849	C	T	8063	0.09	0.02	0.00	0.00	20.27
rs2904370	Thymol sulfate levels	GCST90199827	20	53722576	T	C	8063	0.11	0.03	0.00	0.00	20.04
rs4343550	Thymol sulfate levels	GCST90199827	21	17458707	G	C	8063	0.08	0.02	0.00	0.00	22.21
rs15103557 2	N-acetylserine levels	GCST90199828	1	36444413	G	C	8217	-0.22	0.05	0.00	0.00	19.67
rs10207534	N-acetylserine levels	GCST90199828	2	14575239	A	G	8217	-0.16	0.04	0.00	0.00	20.18
rs14880438 2	N-acetylserine levels	GCST90199828	3	52078217	A	C	8217	0.49	0.07	0.00	0.01	47.96
rs711977	N-acetylserine levels	GCST90199828	3	136508545	A	G	8217	0.07	0.01	0.00	0.00	20.21
rs14568923 9	N-acetylserine levels	GCST90199828	4	75789474	T	C	8217	-0.18	0.04	0.00	0.00	24.30

rs13146163	N-acetylserine levels	GCST90199828	4	76490938	T	G	8217	0.09	0.01	0.00	0.00	36.89
rs17029173	N-acetylserine levels	GCST90199828	4	99588164	G	T	8217	0.09	0.02	0.00	0.00	20.48
rs78844764	N-acetylserine levels	GCST90199828	5	40979491	A	C	8217	0.12	0.03	0.00	0.00	20.51
rs742212	N-acetylserine levels	GCST90199828	6	14009893	A	G	8217	0.18	0.04	0.00	0.00	21.99
rs13233867	N-acetylserine levels	GCST90199828	7	155535476	G	C	8217	0.20	0.04	0.00	0.00	22.38
rs7833654	N-acetylserine levels	GCST90199828	8	60341733	T	C	8217	0.11	0.02	0.00	0.00	20.03
rs14709453 2	N-acetylserine levels	GCST90199828	9	69075287	A	G	8217	-0.24	0.05	0.00	0.00	19.92
rs2932892	N-acetylserine levels	GCST90199828	10	16989509	A	G	8217	-0.17	0.04	0.00	0.00	19.83
rs11010631	N-acetylserine levels	GCST90199828	10	36346566	T	C	8217	-0.23	0.05	0.00	0.00	21.55
rs4278459	N-acetylserine levels	GCST90199828	10	83860783	C	T	8217	-0.08	0.02	0.00	0.00	21.50
rs74153024	N-acetylserine levels	GCST90199828	10	108653599	C	A	8217	0.09	0.02	0.00	0.00	21.35
rs7996310	N-acetylserine levels	GCST90199828	13	20301651	A	C	8217	0.16	0.04	0.00	0.00	20.29
rs11405403 7	N-acetylserine levels	GCST90199828	13	41439740	C	T	8217	-0.37	0.08	0.00	0.00	20.46
rs3783409	N-acetylserine levels	GCST90199828	14	50523682	T	C	8217	-0.15	0.03	0.00	0.00	20.54
rs77924615	N-acetylserine levels	GCST90199828	16	20381010	A	G	8217	-0.10	0.02	0.00	0.00	29.51
rs9961434	N-acetylserine levels	GCST90199828	18	71629998	C	A	8217	-0.10	0.02	0.00	0.00	20.11
rs10407741	N-acetylserine levels	GCST90199828	19	19678274	C	T	8217	0.21	0.05	0.00	0.00	19.61
rs2666456	N-acetylserine levels	GCST90199828	19	21944680	T	C	8217	-0.07	0.01	0.00	0.00	22.53
rs18714604 2	N-acetylserine levels	GCST90199828	19	46139934	A	G	8217	0.24	0.05	0.00	0.00	21.74
rs11909615	N-acetylserine levels	GCST90199828	21	42394933	G	A	8217	0.24	0.06	0.00	0.00	19.53
rs10493219	methyladipate levels 3-	GCST90199829	1	57383013	G	A	6958	-0.08	0.02	0.00	0.00	19.74
rs6678719	methyladipate levels 3-	GCST90199829	1	221140442	T	C	6958	-0.11	0.02	0.00	0.00	19.74
rs744701	methyladipate levels 3-	GCST90199829	2	42984240	A	G	6958	0.22	0.04	0.00	0.00	27.34
rs4077440	methyladipate levels 3-	GCST90199829	2	43853903	C	T	6958	0.07	0.02	0.00	0.00	20.84
rs11161259 7	methyladipate levels 3-	GCST90199829	3	168011494	C	A	6958	0.16	0.03	0.00	0.00	21.54
rs28708630	methyladipate levels 3-	GCST90199829	3	186199871	C	T	6958	-0.24	0.05	0.00	0.00	20.02
rs11417463 0	methyladipate levels 3-	GCST90199829	3	193748577	G	A	6958	-0.20	0.04	0.00	0.00	21.46
rs7765441	methyladipate levels 3-	GCST90199829	6	24484953	G	A	6958	-0.13	0.03	0.00	0.00	25.79
rs2762353	methyladipate levels 3-	GCST90199829	6	25794203	G	A	6958	-0.08	0.02	0.00	0.00	25.79
rs2472492	methyladipate levels 3-	GCST90199829	9	104934731	C	T	6958	-0.08	0.02	0.00	0.00	20.66
rs35155931	methyladipate levels	GCST90199829	10	31539182	T	C	6958	0.26	0.06	0.00	0.00	19.82

rs181282951	3-methyladipate levels	GCST90199829	10	101697373	A	G	6958	-0.22	0.04	0.00	0.00	25.67
rs10848488	3-methyladipate levels	GCST90199829	12	1485274	G	A	6958	0.08	0.02	0.00	0.00	19.83
rs12312679	3-methyladipate levels	GCST90199829	12	107509424	G	A	6958	-0.08	0.02	0.00	0.00	21.37
rs11632470	3-methyladipate levels	GCST90199829	15	79443329	T	G	6958	0.27	0.06	0.00	0.00	20.56
rs735862	3-methyladipate levels	GCST90199829	21	28064550	A	C	6958	0.08	0.02	0.00	0.00	24.44
rs192719199	3-methyladipate levels	GCST90199829	22	37280862	A	G	6958	0.41	0.09	0.00	0.00	22.03
rs8135120	4-methyladipate levels	GCST90199829	22	49921580	C	T	6958	-0.23	0.05	0.00	0.00	20.59
rs71666794	4-ethylphenylsulfate levels	GCST90199830	1	116486121	T	A	8139	0.14	0.03	0.00	0.00	24.35
rs35417285	4-ethylphenylsulfate levels	GCST90199830	2	200368317	C	T	8139	0.07	0.02	0.00	0.00	19.70
rs10204233	4-ethylphenylsulfate levels	GCST90199830	2	240841796	A	T	8139	0.08	0.02	0.00	0.00	20.70
rs11750099	4-ethylphenylsulfate levels	GCST90199830	5	18514861	G	A	8139	-0.07	0.02	0.00	0.00	19.54
rs115185036	4-ethylphenylsulfate levels	GCST90199830	5	20123298	T	C	8139	-0.30	0.06	0.00	0.00	21.36
rs114278781	4-ethylphenylsulfate levels	GCST90199830	5	117314447	T	C	8139	0.37	0.08	0.00	0.00	20.38
rs2714349	4-ethylphenylsulfate levels	GCST90199830	6	7222597	A	G	8139	0.12	0.03	0.00	0.00	23.47
rs3799346	4-ethylphenylsulfate levels	GCST90199830	6	25791126	T	C	8139	0.10	0.02	0.00	0.00	29.71
rs73148208	4-ethylphenylsulfate levels	GCST90199830	7	78168586	A	T	8139	-0.15	0.03	0.00	0.00	20.23
rs6980979	4-ethylphenylsulfate levels	GCST90199830	8	127285966	C	T	8139	0.09	0.02	0.00	0.00	26.06
rs4744786	4-ethylphenylsulfate levels	GCST90199830	9	69039039	A	G	8139	-0.08	0.02	0.00	0.00	20.74
rs61729715	4-ethylphenylsulfate levels	GCST90199830	9	136362061	A	G	8139	0.47	0.10	0.00	0.00	20.62
rs141374670	4-ethylphenylsulfate levels	GCST90199830	10	9660627	A	T	8139	-0.11	0.02	0.00	0.00	20.02
rs1900385	4-ethylphenylsulfate levels	GCST90199830	11	93281177	G	T	8139	-0.07	0.02	0.00	0.00	22.41
rs10772408	4-ethylphenylsulfate levels	GCST90199830	12	10999000	C	T	8139	0.07	0.02	0.00	0.00	19.97
rs142851811	4-ethylphenylsulfate levels	GCST90199830	13	89160969	A	G	8139	0.40	0.08	0.00	0.00	23.71
rs78918961	4-ethylphenylsulfate levels	GCST90199830	14	56406166	T	A	8139	0.25	0.06	0.00	0.00	20.23

rs8044853	4-ethylphenylsul fate levels	GCST90199830	16	81424054	T	C	8139	-0.07	0.02	0.00	0.00	19.57
rs117253760	4-ethylphenylsul fate levels	GCST90199830	16	84334814	A	G	8139	0.30	0.06	0.00	0.00	22.63
rs1988503	4-ethylphenylsul fate levels	GCST90199830	17	11285961	C	T	8139	-0.08	0.02	0.00	0.00	22.11
rs144926846	4-ethylphenylsul fate levels	GCST90199830	18	25440104	A	C	8139	0.36	0.08	0.00	0.00	20.07
rs148330613	4-ethylphenylsul fate levels	GCST90199830	20	37694574	T	C	8139	0.28	0.06	0.00	0.00	20.15
rs539761080	4-ethylphenylsul fate levels	GCST90199830	20	50053161	A	G	8139	0.27	0.06	0.00	0.00	20.30
rs34334380	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	1	20380976	A	G	8273	-0.20	0.04	0.00	0.00	20.19
rs780093	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	2	27519736	C	T	8273	-0.07	0.02	0.00	0.00	19.64
rs116406494	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	2	105914807	A	G	8273	0.30	0.06	0.00	0.00	23.89
rs72874151	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	2	164029372	A	G	8273	-0.25	0.06	0.00	0.00	19.67
rs146629144	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	2	192598584	T	C	8273	-0.21	0.05	0.00	0.00	20.06
rs726357	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	2	201976320	T	G	8273	0.07	0.02	0.00	0.00	20.39
rs114033968	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	2	234323154	A	G	8273	-0.30	0.06	0.00	0.00	21.49
rs12695769	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	3	142934808	G	T	8273	0.11	0.02	0.00	0.01	51.18
rs10489082	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	4	13713724	C	G	8273	0.25	0.05	0.00	0.00	23.11
rs12641788	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	4	88301012	C	T	8273	-0.12	0.03	0.00	0.00	21.54
rs145640892	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	5	108568737	T	C	8273	0.26	0.05	0.00	0.00	25.13
rs116048542	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	6	38197068	C	T	8273	0.22	0.05	0.00	0.00	21.55
rs697463	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	6	165961166	T	C	8273	-0.07	0.02	0.00	0.00	21.59
rs17121435	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	8	15416809	G	A	8273	-0.26	0.06	0.00	0.00	19.86

rs829705	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	9	24229979	C	T	8273	-0.08	0.02	0.00	0.00	21.95
rs117480453	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	9	120233741	T	C	8273	-0.28	0.06	0.00	0.00	19.72
rs10901343	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	9	131070568	A	G	8273	-0.07	0.02	0.00	0.00	21.59
rs11259681	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	10	15457834	A	T	8273	0.08	0.02	0.00	0.00	23.36
rs174541	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	11	61798436	C	T	8273	0.10	0.02	0.00	0.00	38.08
rs41302443	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	11	75796169	G	T	8273	0.25	0.06	0.00	0.00	20.33
rs964184	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	11	116778201	C	G	8273	-0.20	0.02	0.00	0.01	74.76
rs1560390	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	15	58288582	C	T	8273	-0.10	0.02	0.00	0.00	25.48
rs2414577	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	15	58388439	C	T	8273	0.23	0.02	0.00	0.02	206.79
rs2070895	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	15	58431740	A	G	8273	0.24	0.02	0.00	0.02	161.34
rs72799043	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	16	76515834	C	T	8273	-0.18	0.04	0.00	0.00	22.83
rs439401	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	19	44911194	C	T	8273	0.10	0.02	0.00	0.00	35.36
rs73625546	1-stearoyl-2-oleoyl-GPE (18:0/18:1) levels	GCST90199831	20	55553708	T	C	8273	-0.34	0.08	0.00	0.00	19.62
rs11161609	Dimethylarginine (sdma + adma) levels	GCST90199832	1	85397053	T	G	8233	-0.10	0.01	0.00	0.01	43.18
rs145979074	Dimethylarginine (sdma + adma) levels	GCST90199832	1	212147459	T	C	8233	0.39	0.08	0.00	0.00	24.40
rs7596289	Dimethylarginine (sdma + adma) levels	GCST90199832	2	49476026	T	C	8233	-0.30	0.07	0.00	0.00	19.63
rs12052713	Dimethylarginine (sdma + adma) levels	GCST90199832	2	78058434	T	C	8233	-0.08	0.02	0.00	0.00	20.16
rs34050359	Dimethylarginine (sdma + adma) levels	GCST90199832	4	185065779	A	G	8233	0.10	0.02	0.00	0.00	23.34
rs606241	Dimethylarginine (sdma + adma) levels	GCST90199832	5	34994038	A	G	8233	-0.07	0.01	0.00	0.00	22.38
rs37370	Dimethylarginine (sdma + adma) levels	GCST90199832	5	35039381	T	C	8233	-0.24	0.02	0.00	0.01	97.81

rs11964760	Dimethylarginine (sdma + adma) levels	GCST90199832	6	5055739	G	C	8233	-0.13	0.03	0.00	0.00	19.98
rs6466915	Dimethylarginine (sdma + adma) levels	GCST90199832	7	80057923	A	G	8233	0.07	0.02	0.00	0.00	20.36
rs191737893	Dimethylarginine (sdma + adma) levels	GCST90199832	7	129249474	A	G	8233	-0.26	0.06	0.00	0.00	21.23
rs57019710	Dimethylarginine (sdma + adma) levels	GCST90199832	8	3238723	C	A	8233	0.14	0.03	0.00	0.00	19.67
rs4517148	Dimethylarginine (sdma + adma) levels	GCST90199832	8	48282041	T	G	8233	-0.14	0.03	0.00	0.00	20.89
rs72663498	Dimethylarginine (sdma + adma) levels	GCST90199832	8	72304996	C	T	8233	-0.20	0.04	0.00	0.00	21.87
rs1419365	Dimethylarginine (sdma + adma) levels	GCST90199832	10	28008319	T	C	8233	-0.07	0.02	0.00	0.00	19.80
rs2082929	Dimethylarginine (sdma + adma) levels	GCST90199832	10	50294583	C	T	8233	-0.07	0.02	0.00	0.00	19.60
rs77075152	Dimethylarginine (sdma + adma) levels	GCST90199832	10	117899109	C	T	8233	-0.24	0.05	0.00	0.00	23.63
rs1784649	Dimethylarginine (sdma + adma) levels	GCST90199832	11	110259633	T	C	8233	0.08	0.02	0.00	0.00	23.02
rs4772462	Dimethylarginine (sdma + adma) levels	GCST90199832	13	102347685	C	G	8233	-0.08	0.02	0.00	0.00	19.54
rs72681847	Dimethylarginine (sdma + adma) levels	GCST90199832	14	50165585	C	T	8233	-0.19	0.04	0.00	0.00	19.90
rs143392449	Dimethylarginine (sdma + adma) levels	GCST90199832	16	46761109	A	G	8233	-0.36	0.08	0.00	0.00	19.98
rs9965582	Dimethylarginine (sdma + adma) levels	GCST90199832	18	28117548	A	G	8233	0.07	0.02	0.00	0.00	19.52
rs61785667	Hexanoylglutamine levels	GCST90199833	1	46438157	A	G	8128	0.22	0.05	0.00	0.00	21.66
rs149556176	Hexanoylglutamine levels	GCST90199833	1	74971148	C	T	8128	0.35	0.06	0.00	0.00	29.60
rs77773255	Hexanoylglutamine levels	GCST90199833	1	75751508	A	G	8128	-0.29	0.02	0.00	0.04	315.76
rs4666158	Hexanoylglutamine levels	GCST90199833	2	28975347	T	C	8128	0.09	0.02	0.00	0.00	19.99
rs7578964	Hexanoylglutamine levels	GCST90199833	2	38413384	G	T	8128	-0.10	0.02	0.00	0.00	19.86
rs62160372	Hexanoylglutamine levels	GCST90199833	2	77712908	C	T	8128	-0.22	0.05	0.00	0.00	21.80
rs13382611	Hexanoylglutamine levels	GCST90199833	2	223815258	G	A	8128	0.07	0.02	0.00	0.00	21.40
rs74420466	Hexanoylglutamine levels	GCST90199833	4	74906964	A	C	8128	0.20	0.04	0.00	0.00	20.32
rs35953946	Hexanoylglutamine levels	GCST90199833	4	152967254	T	C	8128	-0.10	0.02	0.00	0.00	20.08
rs77090078	Hexanoylglutamine levels	GCST90199833	5	156275987	A	G	8128	0.23	0.05	0.00	0.00	20.43
rs2817188	Hexanoylglutamine levels	GCST90199833	6	25807375	G	A	8128	0.32	0.01	0.00	0.05	452.11
rs3799367	Hexanoylglutamine levels	GCST90199833	6	25877274	C	A	8128	0.10	0.02	0.00	0.00	40.06
rs16897348	Hexanoylglutamine levels	GCST90199833	6	27295563	T	C	8128	0.26	0.05	0.00	0.00	22.78
rs984981	Hexanoylglutamine levels	GCST90199833	6	124088238	C	T	8128	-0.11	0.02	0.00	0.00	22.46
rs3016551	Hexanoylglutamine levels	GCST90199833	6	161800688	G	A	8128	0.08	0.02	0.00	0.00	22.97
rs35269591	Hexanoylglutamine levels	GCST90199833	7	35998411	T	G	8128	0.35	0.08	0.00	0.00	20.54

rs4727201	Hexanoylglutamine levels	GCST90199833	7	89423597	A	G	8128	-0.12	0.03	0.00	0.00	20.37
rs4841133	Hexanoylglutamine levels	GCST90199833	8	9326154	G	A	8128	0.16	0.03	0.00	0.00	38.14
rs111621771	Hexanoylglutamine levels	GCST90199833	9	85854760	G	A	8128	-0.21	0.05	0.00	0.00	19.84
rs898847	Hexanoylglutamine levels	GCST90199833	11	110193739	C	T	8128	0.08	0.02	0.00	0.00	19.66
rs2638314	Hexanoylglutamine levels	GCST90199833	12	56472550	A	T	8128	-0.10	0.02	0.00	0.00	24.86
rs7149321	Hexanoylglutamine levels	GCST90199833	14	76684725	T	G	8128	-0.15	0.03	0.00	0.00	20.27
rs77413088	Hexanoylglutamine levels	GCST90199833	16	12312820	A	T	8128	0.20	0.04	0.00	0.00	19.88
rs35534917	Hexanoylglutamine levels	GCST90199833	16	74712842	T	C	8128	-0.13	0.03	0.00	0.00	24.55
rs117531849	Hexanoylglutamine levels	GCST90199833	18	77828176	C	A	8128	0.29	0.06	0.00	0.00	19.75
rs2349637	Hexanoylglutamine levels	GCST90199833	22	44666046	A	T	8128	-0.08	0.02	0.00	0.00	19.53
rs9309454	Gamma-glutamylalanine levels	GCST90199834	2	71410378	G	T	7518	-0.09	0.02	0.00	0.00	22.98
rs75200713	Gamma-glutamylalanine levels	GCST90199834	3	184099766	C	T	7518	-0.19	0.03	0.00	0.00	30.45
rs79926439	Gamma-glutamylalanine levels	GCST90199834	4	157251688	C	T	7518	-0.22	0.05	0.00	0.00	20.02
rs62345864	Gamma-glutamylalanine levels	GCST90199834	4	184947512	T	C	7518	0.16	0.03	0.00	0.00	21.00
rs114038541	Gamma-glutamylalanine levels	GCST90199834	5	40067186	A	G	7518	0.19	0.04	0.00	0.00	24.57
rs76301902	Gamma-glutamylalanine levels	GCST90199834	6	143625999	A	G	7518	-0.18	0.04	0.00	0.00	19.74
rs62483108	Gamma-glutamylalanine levels	GCST90199834	7	144442326	A	G	7518	0.08	0.02	0.00	0.00	19.83
rs55920327	Gamma-glutamylalanine levels	GCST90199834	9	15067515	T	C	7518	-0.54	0.11	0.00	0.00	25.07
rs7906272	Gamma-glutamylalanine levels	GCST90199834	10	120096905	G	A	7518	-0.09	0.02	0.00	0.00	23.99
rs3782549	Gamma-glutamylalanine levels	GCST90199834	12	15971498	G	T	7518	0.07	0.02	0.00	0.00	19.76
rs7310682	Gamma-glutamylalanine levels	GCST90199834	12	49342919	G	C	7518	-0.09	0.02	0.00	0.00	23.57
rs4765294	Gamma-glutamylalanine levels	GCST90199834	12	124126532	A	G	7518	0.10	0.02	0.00	0.00	23.95
rs9318482	Gamma-glutamylalanine levels	GCST90199834	13	77389247	C	T	7518	0.08	0.02	0.00	0.00	20.19
rs7185389	Gamma-glutamylalanine levels	GCST90199834	16	20398941	T	G	7518	0.08	0.02	0.00	0.00	20.94
rs1706720	Gamma-glutamylalanine levels	GCST90199834	17	45654471	C	G	7518	-0.21	0.04	0.00	0.00	21.61
rs7213056	Gamma-glutamylalanine levels	GCST90199834	17	79096414	G	A	7518	0.36	0.08	0.00	0.00	19.59
rs113342678	Gamma-glutamylalanine levels	GCST90199834	20	43699246	G	A	7518	0.11	0.02	0.00	0.00	30.84

rs15057296 2	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	1	2320506	T	C	8199	-0.25	0.05	0.00	0.00	22.19
rs11205297	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	1	153461220	C	T	8199	0.10	0.02	0.00	0.00	19.60
rs11497423 1	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	1	163837196	C	A	8199	0.14	0.03	0.00	0.00	20.52
rs79293656	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	2	19302723	T	C	8199	-0.24	0.05	0.00	0.00	23.06
rs11288119 6	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	2	31757742	G	C	8199	-0.24	0.04	0.00	0.01	46.66
rs79101022	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	3	33172262	G	T	8199	0.12	0.03	0.00	0.00	19.82
rs2342307	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	3	196215616	G	A	8199	-0.08	0.01	0.00	0.00	32.92
rs11742924	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	5	32213617	A	G	8199	0.06	0.01	0.00	0.00	19.96
rs13157117	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	5	99316144	C	T	8199	0.07	0.01	0.00	0.00	25.38
rs487624	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	6	25879311	A	C	8199	-0.06	0.01	0.00	0.00	20.17
rs14826965 8	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	6	75965887	G	A	8199	-0.22	0.05	0.00	0.00	20.57
rs13214463	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	6	157268798	G	C	8199	-0.17	0.04	0.00	0.00	21.00
rs14898237 7	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	7	99477415	C	T	8199	-0.67	0.04	0.00	0.04	354.48
rs28460220	5alpha- androstane- 3beta,17beta- diol disulfate levels	GCST90199835	8	58816027	G	T	8199	-0.17	0.03	0.00	0.00	25.42

rs14660909 7	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	10	400443	G	T	8199	-0.24	0.05	0.00	0.00	19.65
rs11253048	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	10	5219196	G	A	8199	0.09	0.02	0.00	0.00	27.14
rs9414945	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	10	66865617	C	T	8199	0.09	0.02	0.00	0.00	19.96
rs78742441	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	11	12394271	A	G	8199	0.12	0.02	0.00	0.00	22.63
rs1871395	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	12	21199381	G	A	8199	0.16	0.02	0.00	0.01	81.05
rs78947297	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	12	121708463	G	A	8199	-0.16	0.04	0.00	0.00	20.12
rs74371056	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	12	129514367	C	A	8199	-0.08	0.02	0.00	0.00	20.59
rs1562901	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	13	98187750	A	G	8199	0.06	0.01	0.00	0.00	20.24
rs1956213	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	14	32592280	G	C	8199	-0.06	0.01	0.00	0.00	21.95
rs11743471 3	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	15	91348975	G	A	8199	-0.27	0.06	0.00	0.00	19.98
rs1256768	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	16	4575273	G	A	8199	0.09	0.02	0.00	0.00	24.95
rs78481579	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	16	8165440	A	G	8199	0.14	0.03	0.00	0.00	20.08
rs2098759	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	16	26280021	A	G	8199	-0.07	0.01	0.00	0.00	25.70
rs16029	5alpha- androstan- 3beta,17beta- diol disulfate levels	GCST90199835	19	13286510	A	G	8199	-0.21	0.04	0.00	0.00	21.65

rs212100	5alpha-androstan-3beta,17beta-diol disulfate levels N-	GCST90199835	19	47873738	C	T	8199	0.14	0.02	0.00	0.01	57.19
rs10221859	methylproline levels N-	GCST90199836	2	205907101	C	T	8299	0.07	0.02	0.00	0.00	19.73
rs116522067	methylproline levels N-	GCST90199836	5	56626273	T	A	8299	0.36	0.06	0.00	0.00	31.35
rs670220	methylproline levels N-	GCST90199836	5	79070503	G	T	8299	-0.10	0.02	0.00	0.00	25.49
rs539130	methylproline levels N-	GCST90199836	7	6091538	T	C	8299	0.07	0.02	0.00	0.00	20.30
rs34443661	methylproline levels N-	GCST90199836	7	45443361	T	C	8299	0.26	0.06	0.00	0.00	19.67
rs59643943	methylproline levels N-	GCST90199836	8	1120867	A	G	8299	-0.09	0.02	0.00	0.00	20.65
rs77538571	methylproline levels N-	GCST90199836	8	4149446	G	C	8299	0.19	0.04	0.00	0.00	19.53
rs10815617	methylproline levels N-	GCST90199836	9	7489047	C	T	8299	0.07	0.02	0.00	0.00	21.99
rs4747707	methylproline levels N-	GCST90199836	10	30380732	T	C	8299	0.08	0.02	0.00	0.00	19.51
rs144268538	methylproline levels N-	GCST90199836	11	3499666	A	C	8299	-0.11	0.02	0.00	0.00	21.33
rs118054187	methylproline levels N-	GCST90199836	11	8639942	T	C	8299	-0.15	0.03	0.00	0.00	19.55
rs118097121	methylproline levels N-	GCST90199836	11	45946955	T	C	8299	-0.30	0.07	0.00	0.00	21.03
rs7964353	methylproline levels N-	GCST90199836	12	30039298	A	G	8299	0.31	0.07	0.00	0.00	21.35
rs17127277	methylproline levels N-	GCST90199836	12	39929022	G	A	8299	-0.19	0.04	0.00	0.00	22.67
rs34630226	methylproline levels N-	GCST90199836	12	76708285	A	C	8299	-0.08	0.02	0.00	0.00	21.24
rs6539197	methylproline levels N-	GCST90199836	12	105261954	T	C	8299	0.07	0.02	0.00	0.00	19.92
rs1275842	methylproline levels N-	GCST90199836	14	69907405	A	G	8299	-0.12	0.03	0.00	0.00	20.87
rs28501211	methylproline levels N-	GCST90199836	15	34709893	A	G	8299	0.13	0.03	0.00	0.00	23.47
rs7244846	methylproline levels N-	GCST90199836	18	66301038	T	C	8299	0.07	0.02	0.00	0.00	20.28
rs17081656	methylproline levels N-	GCST90199836	18	69812279	A	C	8299	0.16	0.04	0.00	0.00	20.16
rs10411606	methylproline levels N-	GCST90199836	19	11062453	A	G	8299	-0.33	0.08	0.00	0.00	19.79
rs2741367	methylproline levels Carotenoid	GCST90199836	20	53020520	C	A	8299	0.12	0.03	0.00	0.00	20.28
rs12139919	levels (crvptoxanthin	GCST90199837	1	42869158	G	A	8226	-0.10	0.02	0.00	0.00	20.36

rs14905318 7	Carotenoid levels (crvptoxanthin Carotenoid	GCST90199837	1	56014796	C	T	8226	-0.40	0.09	0.00	0.00	21.56
rs12126169	levels (crvptoxanthin Carotenoid	GCST90199837	1	76825337	C	T	8226	0.07	0.02	0.00	0.00	19.51
rs9324395	levels (crvptoxanthin Carotenoid	GCST90199837	1	98674445	C	A	8226	-0.12	0.03	0.00	0.00	19.73
rs12141855	levels (crvptoxanthin Carotenoid	GCST90199837	1	201406879	C	G	8226	-0.07	0.02	0.00	0.00	19.96
rs76298092	levels (crvptoxanthin Carotenoid	GCST90199837	1	213511657	T	A	8226	-0.23	0.05	0.00	0.00	25.48
rs701160	levels (crvptoxanthin Carotenoid	GCST90199837	1	231956735	T	C	8226	0.10	0.02	0.00	0.00	22.35
rs13000804	levels (cryptoxanthin Carotenoid	GCST90199837	2	58310248	T	C	8226	-0.22	0.05	0.00	0.00	20.22
rs11267414 6	levels (crvptoxanthin Carotenoid	GCST90199837	2	85647428	C	T	8226	-0.37	0.08	0.00	0.00	22.68
rs78388659	levels (crvptoxanthin Carotenoid	GCST90199837	2	103830618	A	G	8226	-0.27	0.05	0.00	0.00	25.44
rs77094229	levels (crvptoxanthin Carotenoid	GCST90199837	4	78401056	T	C	8226	0.11	0.02	0.00	0.00	24.06
rs17049001	levels (cryptoxanthin Carotenoid	GCST90199837	4	117082146	G	A	8226	-0.15	0.03	0.00	0.00	26.29
rs58425201	levels (crvptoxanthin Carotenoid	GCST90199837	6	2513713	C	A	8226	0.07	0.02	0.00	0.00	20.96
rs13236469	levels (crvptoxanthin Carotenoid	GCST90199837	7	1500869	A	G	8226	-0.20	0.04	0.00	0.00	20.27
rs28649708	levels (crvptoxanthin Carotenoid	GCST90199837	7	157057769	G	A	8226	-0.09	0.02	0.00	0.00	22.02
rs77021114	levels (cryptoxanthin Carotenoid	GCST90199837	8	132749336	A	G	8226	0.21	0.04	0.00	0.00	22.05
rs10813363	levels (crvptoxanthin Carotenoid	GCST90199837	9	3088774	G	A	8226	-0.08	0.02	0.00	0.00	20.93
rs14733181 8	levels (crvptoxanthin Carotenoid	GCST90199837	9	18307720	G	A	8226	-0.11	0.02	0.00	0.00	19.69
rs11698742 6	levels (crvptoxanthin Carotenoid	GCST90199837	10	12706365	T	C	8226	0.40	0.09	0.00	0.00	19.73
rs2505430	levels (crvptoxanthin Carotenoid	GCST90199837	10	25816480	C	T	8226	0.43	0.08	0.00	0.00	25.73
rs35429140	levels (crvptoxanthin Carotenoid	GCST90199837	10	89861714	C	G	8226	-0.10	0.02	0.00	0.00	20.54
rs10829685	levels (crvptoxanthin Carotenoid	GCST90199837	10	130058387	T	G	8226	-0.10	0.02	0.00	0.00	20.65
rs11786528 7	levels (crvptoxanthin Carotenoid	GCST90199837	12	32877340	T	C	8226	0.34	0.07	0.00	0.00	21.47
rs2069251	levels (crvptoxanthin Carotenoid	GCST90199837	12	113399323	T	C	8226	0.11	0.03	0.00	0.00	19.81
rs11254989 7	levels (crvptoxanthin	GCST90199837	16	29821629	G	C	8226	-0.17	0.04	0.00	0.00	22.61

rs15017219 2	Carotenoid levels (cryptoxanthin Carotenoid	GCST90199837	18	45738510	A	G	8226	0.58	0.13	0.00	0.00	20.72
rs76907780	levels (cryptoxanthin Carotenoid	GCST90199837	18	64171213	G	A	8226	0.24	0.05	0.00	0.00	20.13
rs12975670	levels (cryptoxanthin Carotenoid	GCST90199837	19	33778372	T	C	8226	-0.09	0.02	0.00	0.00	20.93
rs13848133 5	levels (cryptoxanthin Carotenoid	GCST90199837	19	56268982	C	T	8226	-0.24	0.05	0.00	0.00	19.56
rs6126757	levels (cryptoxanthin 5alpha-	GCST90199837	20	53107440	G	A	8226	0.11	0.02	0.00	0.00	22.20
rs12046369	pregnan- 3beta,20alpha- diol disulfate levels 5alpha-	GCST90199838	1	24199645	T	G	8130	0.12	0.03	0.00	0.00	21.87
rs320379	pregnan- 3beta,20alpha- diol disulfate levels 5alpha-	GCST90199838	1	213503748	T	C	8130	-0.08	0.02	0.00	0.00	22.22
rs12048121	pregnan- 3beta,20alpha- diol disulfate levels 5alpha-	GCST90199838	1	229043828	T	C	8130	-0.45	0.09	0.00	0.00	23.71
rs11288119 6	pregnan- 3beta,20alpha- diol disulfate levels 5alpha-	GCST90199838	2	31757742	G	C	8130	-0.25	0.04	0.00	0.00	36.11
rs6550631	pregnan- 3beta,20alpha- diol disulfate levels 5alpha-	GCST90199838	3	18761390	C	T	8130	-0.08	0.02	0.00	0.00	28.16
rs35615733	pregnan- 3beta,20alpha- diol disulfate levels 5alpha-	GCST90199838	3	110455042	C	T	8130	0.12	0.03	0.00	0.00	19.94
rs11615015 6	pregnan- 3beta,20alpha- diol disulfate levels 5alpha-	GCST90199838	3	161591552	C	A	8130	0.19	0.04	0.00	0.00	20.13
rs11608068 8	pregnan- 3beta,20alpha- diol disulfate levels 5alpha-	GCST90199838	4	32925150	A	G	8130	-0.21	0.05	0.00	0.00	20.46
rs2708666	pregnan- 3beta,20alpha- diol disulfate levels 5alpha-	GCST90199838	4	68501116	T	C	8130	0.09	0.02	0.00	0.00	22.66
rs11544133 9	pregnan- 3beta,20alpha- diol disulfate levels 5alpha-	GCST90199838	4	73429509	G	A	8130	-0.33	0.07	0.00	0.00	21.89
rs6861226	pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	5	35975464	G	A	8130	0.27	0.02	0.00	0.02	153.78

rs14369081 4	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	6	48352374	C	T	8130	0.27	0.06	0.00	0.00	19.61
rs13240735	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	7	2981568	G	A	8130	0.12	0.03	0.00	0.00	20.48
rs1708301	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	7	28147796	C	G	8130	-0.11	0.02	0.00	0.00	23.60
rs11258063 8	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	9	130557219	T	C	8130	-0.21	0.05	0.00	0.00	20.03
rs75406471	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	10	5215684	A	G	8130	0.10	0.02	0.00	0.00	23.17
rs56075687	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	10	99860805	G	A	8130	-0.16	0.03	0.00	0.00	25.67
rs1070048	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	10	118389069	A	C	8130	-0.07	0.02	0.00	0.00	20.96
rs4149056	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	12	21178615	C	T	8130	0.18	0.02	0.00	0.01	76.12
rs7308081	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	12	21928660	T	A	8130	0.32	0.07	0.00	0.00	20.89
rs11751842 6	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	12	130787390	A	T	8130	0.24	0.05	0.00	0.00	22.05
rs77941758	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	13	97345817	G	C	8130	-0.18	0.04	0.00	0.00	19.59
rs11316343 8	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	14	48873055	T	C	8130	-0.31	0.06	0.00	0.00	23.90
rs2440342	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	15	52731148	T	C	8130	-0.08	0.02	0.00	0.00	23.76
rs72742581	5alpha- pregnan- 3beta,20alpha- diol disulfate levels	GCST90199838	15	54112621	T	C	8130	0.16	0.04	0.00	0.00	19.88

rs35578928	5alpha-pregnan-3beta,20alpha-diol disulfate levels	GCST90199838	16	11373920	A	G	8130	-0.09	0.02	0.00	0.00	21.01
rs1423891	5alpha-pregnan-3beta,20alpha-diol disulfate levels	GCST90199838	16	60713911	C	T	8130	-0.08	0.02	0.00	0.00	24.28
rs11646433 2	5alpha-pregnan-3beta,20alpha-diol disulfate levels	GCST90199838	17	6853775	A	G	8130	0.18	0.04	0.00	0.00	21.96
rs7211351	5alpha-pregnan-3beta,20alpha-diol disulfate levels	GCST90199838	17	56274723	A	T	8130	-0.15	0.03	0.00	0.00	23.50
rs9319982	5alpha-pregnan-3beta,20alpha-diol disulfate levels	GCST90199838	18	61542962	C	T	8130	0.07	0.02	0.00	0.00	19.69
rs212100	5alpha-pregnan-3beta,20alpha-diol disulfate levels	GCST90199838	19	47873738	C	T	8130	0.28	0.02	0.00	0.02	177.45
rs9976946	5alpha-pregnan-3beta,20alpha-diol disulfate levels	GCST90199838	21	34835765	T	C	8130	0.20	0.04	0.00	0.00	20.96
rs55899910	Taurochenodeoxycholate sulfate levels	GCST90199839	2	58742557	T	A	8249	-0.21	0.05	0.00	0.00	19.91
rs7585642	Taurochenodeoxycholate sulfate levels	GCST90199839	2	60985412	C	A	8249	0.07	0.02	0.00	0.00	22.06
rs1047891	Taurochenodeoxycholate sulfate levels	GCST90199839	2	210675783	A	C	8249	-0.10	0.02	0.00	0.00	34.09
rs18482258 9	Taurochenodeoxycholate sulfate levels	GCST90199839	2	227791716	G	A	8249	-0.26	0.05	0.00	0.00	22.68
rs35349722	Taurochenodeoxycholate sulfate levels	GCST90199839	3	38616743	T	G	8249	0.07	0.02	0.00	0.00	23.21
rs19134495 1	Taurochenodeoxycholate sulfate levels	GCST90199839	4	31964310	T	C	8249	-0.30	0.06	0.00	0.00	21.49
rs34719033	Taurochenodeoxycholate sulfate levels	GCST90199839	4	41724186	T	C	8249	-0.26	0.06	0.00	0.00	20.81
rs7278	Taurochenodeoxycholate sulfate levels	GCST90199839	4	182890334	A	G	8249	0.10	0.02	0.00	0.00	22.64
rs11556911 8	Taurochenodeoxycholate sulfate levels	GCST90199839	5	159370566	T	C	8249	-0.26	0.05	0.00	0.00	21.99
rs12216303	Taurochenodeoxycholate sulfate levels	GCST90199839	6	92534839	C	T	8249	-0.23	0.05	0.00	0.00	19.51
rs9403647	Taurochenodeoxycholate sulfate levels	GCST90199839	6	144972165	G	A	8249	-0.09	0.02	0.00	0.00	21.11
rs6460047	Taurochenodeoxycholate sulfate levels	GCST90199839	7	73628113	C	T	8249	0.09	0.02	0.00	0.00	23.83
rs1433295	Taurochenodeoxycholate sulfate levels	GCST90199839	8	16599580	C	T	8249	0.17	0.04	0.00	0.00	19.57
rs4738684	Taurochenodeoxycholate sulfate levels	GCST90199839	8	58480714	G	A	8249	-0.11	0.02	0.00	0.01	44.66
rs13276608	Taurochenodeoxycholate sulfate levels	GCST90199839	8	64769294	T	C	8249	-0.12	0.03	0.00	0.00	20.66
rs72746306	Taurochenodeoxycholate sulfate levels	GCST90199839	9	99912493	C	G	8249	0.09	0.02	0.00	0.00	21.23
rs72838105	Taurochenodeoxycholate sulfate levels	GCST90199839	10	99802867	T	A	8249	-0.22	0.03	0.00	0.00	40.12
rs14693191 5	Taurochenodeoxycholate sulfate levels	GCST90199839	10	100027707	T	C	8249	0.33	0.06	0.00	0.00	27.15
rs72957946	Taurochenodeoxycholate sulfate levels	GCST90199839	11	38060897	A	G	8249	0.27	0.06	0.00	0.00	22.42

rs1573558	Taurocholenat e sulfate levels	GCST90199839	11	110377073	T	C	8249	0.13	0.02	0.00	0.01	57.93
rs57743625	Taurocholenat e sulfate levels	GCST90199839	12	21214699	A	G	8249	0.42	0.02	0.00	0.05	444.70
rs4149006	Taurocholenat e sulfate levels	GCST90199839	12	21268836	T	G	8249	-0.21	0.02	0.00	0.01	88.73
rs35933904	Taurocholenat e sulfate levels	GCST90199839	13	39884191	A	G	8249	-0.09	0.02	0.00	0.00	20.71
rs12869566	Taurocholenat e sulfate levels	GCST90199839	13	45356330	G	A	8249	-0.13	0.03	0.00	0.00	19.79
rs75683883	Taurocholenat e sulfate levels	GCST90199839	13	60820785	G	A	8249	-0.36	0.08	0.00	0.00	20.91
rs56398830	Taurocholenat e sulfate levels	GCST90199839	13	103049340	A	G	8249	0.37	0.07	0.00	0.00	29.15
rs55971546	Taurocholenat e sulfate levels	GCST90199839	13	103065958	T	C	8249	0.29	0.04	0.00	0.01	62.68
rs911617	Taurocholenat e sulfate levels	GCST90199839	14	54673211	A	G	8249	0.08	0.02	0.00	0.00	22.35
rs7162777	Taurocholenat e sulfate levels	GCST90199839	15	55298030	A	G	8249	-0.10	0.02	0.00	0.00	24.45
rs12592822	Taurocholenat e sulfate levels	GCST90199839	15	100236456	C	T	8249	-0.07	0.02	0.00	0.00	22.01
rs861400	Taurocholenat e sulfate levels	GCST90199839	16	88795935	G	C	8249	0.07	0.02	0.00	0.00	20.72
rs11656408	Taurocholenat e sulfate levels	GCST90199839	17	30310155	G	A	8249	0.08	0.02	0.00	0.00	27.52
rs61317986	Taurocholenat e sulfate levels	GCST90199839	17	63924215	T	C	8249	0.21	0.04	0.00	0.00	22.20
rs62095962	Taurocholenat e sulfate levels	GCST90199839	18	47589463	A	G	8249	0.14	0.03	0.00	0.00	19.77
rs13796862 7	Taurocholenat e sulfate levels	GCST90199839	18	61671420	T	C	8249	-0.22	0.05	0.00	0.00	20.31
rs18770253 4	Taurocholenat e sulfate levels	GCST90199839	18	71684276	C	T	8249	0.50	0.11	0.00	0.00	21.45
rs12977855	Taurocholenat e sulfate levels	GCST90199839	19	2539815	T	C	8249	-0.08	0.02	0.00	0.00	19.89
rs67500360	Taurocholenat e sulfate levels	GCST90199839	19	10311241	A	G	8249	0.13	0.03	0.00	0.00	19.87
rs79715633	Taurocholenat e sulfate levels	GCST90199839	19	53671642	A	T	8249	0.11	0.02	0.00	0.00	19.66
rs13949283 3	Taurocholenat e sulfate levels	GCST90199839	20	60120484	T	C	8249	-0.47	0.11	0.00	0.00	19.82
rs2835421	Taurocholenat e sulfate levels	GCST90199839	21	36640778	T	C	8249	-0.09	0.02	0.00	0.00	26.42
rs9622793	Taurocholenat e sulfate levels	GCST90199839	22	38360666	A	G	8249	0.25	0.05	0.00	0.00	21.97
rs131777	Taurocholenat e sulfate levels	GCST90199839	22	50552604	T	C	8249	0.08	0.02	0.00	0.00	25.19
rs35015532	Pregnenediol disulfate (C21H34O8S2) levels	GCST90199840	1	26425638	G	A	8245	0.08	0.02	0.00	0.00	28.96
rs61839551	Pregnenediol disulfate (C21H34O8S2) levels	GCST90199840	1	118580750	A	T	8245	-0.26	0.06	0.00	0.00	21.97
rs6740315	Pregnenediol disulfate (C21H34O8S2) levels	GCST90199840	2	176655378	C	T	8245	-0.08	0.01	0.00	0.00	30.30
rs11675051 4	Pregnenediol disulfate (C21H34O8S2) levels	GCST90199840	3	116191608	T	G	8245	-0.18	0.04	0.00	0.00	22.77
rs9846848	Pregnenediol disulfate (C21H34O8S2) levels	GCST90199840	3	179336635	T	C	8245	-0.07	0.01	0.00	0.00	19.99
rs10491431	Pregnenediol disulfate (C21H34O8S2) levels	GCST90199840	5	35967898	A	C	8245	0.22	0.02	0.00	0.02	134.30

rs77432415	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	5	96872271	C	G	8245	0.18	0.04	0.00	0.00	23.27
rs146503261	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	5	136689247	T	C	8245	-0.28	0.06	0.00	0.00	21.82
rs1165195	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	6	25814852	G	T	8245	-0.06	0.01	0.00	0.00	20.53
rs148269658	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	6	75965887	G	A	8245	-0.25	0.05	0.00	0.00	24.05
rs6969771	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	7	5277849	C	T	8245	-0.08	0.02	0.00	0.00	23.45
rs7806596	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	7	64579087	A	G	8245	-0.11	0.01	0.00	0.01	69.01
rs138487705	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	7	134346822	C	T	8245	-0.39	0.09	0.00	0.00	19.72
rs76728353	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	8	63988463	A	G	8245	-0.18	0.04	0.00	0.00	23.14
rs3740065	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	10	99845936	G	A	8245	-0.16	0.02	0.00	0.01	53.78
rs139230314	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	11	80628808	A	G	8245	-0.29	0.06	0.00	0.00	24.57
rs61906412	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	11	107687784	T	G	8245	-0.12	0.02	0.00	0.00	26.21
rs672649	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	11	132518425	G	A	8245	-0.06	0.01	0.00	0.00	22.24
rs4149056	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	12	21178615	C	T	8245	0.17	0.02	0.00	0.01	81.46
rs1259735	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	12	31877730	G	C	8245	0.07	0.01	0.00	0.00	26.85
rs17752432	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	12	55009587	G	A	8245	-0.18	0.04	0.00	0.00	21.24
rs139450009	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	13	52589745	G	A	8245	-0.26	0.06	0.00	0.00	19.95
rs61978604	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	14	20849153	C	T	8245	-0.09	0.02	0.00	0.00	22.71
rs2273302	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	14	24263049	A	G	8245	-0.10	0.02	0.00	0.00	20.69

rs72677897	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	14	50485332	T	C	8245	0.15	0.03	0.00	0.00	20.36
rs7196069	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	16	81527851	C	G	8245	0.14	0.03	0.00	0.00	25.99
rs11709779	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	16	83954570	A	T	8245	-0.22	0.05	0.00	0.00	20.42
rs1800341	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	16	89770491	C	T	8245	0.11	0.02	0.00	0.00	20.18
rs62054232	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	17	14329134	G	A	8245	0.07	0.01	0.00	0.00	20.20
rs8064380	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	17	47850046	A	G	8245	-0.07	0.01	0.00	0.00	27.89
rs73035100	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	19	33460360	T	C	8245	0.24	0.05	0.00	0.00	20.16
rs146318115	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	19	47832570	T	C	8245	0.20	0.04	0.00	0.00	22.46
rs212100	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	19	47873738	C	T	8245	0.51	0.02	0.00	0.09	815.08
rs117762916	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	20	19682115	G	A	8245	0.16	0.04	0.00	0.00	20.22
rs12162546	Pregnenediol disulfate (C21H34O8S2)) levels	GCST90199840	21	14604318	T	A	8245	-0.07	0.01	0.00	0.00	24.38
rs2296234	Glycochenate sulfate levels	GCST90199841	1	81506201	T	C	8250	-0.09	0.02	0.00	0.00	25.47
rs77313693	Glycochenate sulfate levels	GCST90199841	1	193582980	C	T	8250	-0.20	0.04	0.00	0.00	22.33
rs141850369	Glycochenate sulfate levels	GCST90199841	1	231374267	C	G	8250	-0.28	0.06	0.00	0.00	20.78
rs13000196	Glycochenate sulfate levels	GCST90199841	2	169423301	G	C	8250	0.08	0.02	0.00	0.00	19.70
rs1047891	Glycochenate sulfate levels	GCST90199841	2	210675783	A	C	8250	0.09	0.02	0.00	0.00	30.97
rs35696786	Glycochenate sulfate levels	GCST90199841	3	58625397	C	T	8250	0.11	0.02	0.00	0.00	21.93
rs76651220	Glycochenate sulfate levels	GCST90199841	3	132569653	A	C	8250	0.18	0.04	0.00	0.00	21.10
rs13128482	Glycochenate sulfate levels	GCST90199841	4	39044248	G	A	8250	0.11	0.02	0.00	0.00	20.39
rs78228855	Glycochenate sulfate levels	GCST90199841	4	160672999	G	A	8250	-0.36	0.08	0.00	0.00	19.95
rs2098636	Glycochenate sulfate levels	GCST90199841	5	152412712	A	T	8250	-0.09	0.02	0.00	0.00	25.01
rs114338994	Glycochenate sulfate levels	GCST90199841	6	34360887	G	A	8250	0.11	0.02	0.00	0.00	20.38
rs62422289	Glycochenate sulfate levels	GCST90199841	6	130782123	C	T	8250	-0.29	0.06	0.00	0.00	20.09
rs76717658	Glycochenate sulfate levels	GCST90199841	6	166011933	A	C	8250	0.27	0.05	0.00	0.00	25.48
rs113613559	Glycochenate sulfate levels	GCST90199841	7	93387454	T	C	8250	0.24	0.05	0.00	0.00	20.03
rs6467232	Glycochenate sulfate levels	GCST90199841	7	129196011	G	A	8250	0.12	0.03	0.00	0.00	20.15

rs12536910	Glycocholenat e sulfate levels	GCST90199841	7	151619889	T	C	8250	-0.25	0.05	0.00	0.00	20.86
rs79531664	Glycocholenat e sulfate levels	GCST90199841	8	64649429	C	T	8250	0.36	0.07	0.00	0.00	27.68
rs1238143	Glycocholenat e sulfate levels	GCST90199841	9	129609054	G	A	8250	-0.24	0.05	0.00	0.00	22.07
rs11234440 8	Glycocholenat e sulfate levels	GCST90199841	10	99840980	A	C	8250	-0.47	0.03	0.00	0.03	219.44
rs18901708 1	Glycocholenat e sulfate levels	GCST90199841	10	100126891	C	T	8250	0.38	0.06	0.00	0.00	41.22
rs1655095	Glycocholenat e sulfate levels	GCST90199841	10	130916091	T	C	8250	-0.07	0.02	0.00	0.00	20.91
rs14148243 3	Glycocholenat e sulfate levels	GCST90199841	11	6690058	A	G	8250	-0.33	0.07	0.00	0.00	24.54
rs510547	Glycocholenat e sulfate levels	GCST90199841	11	63372563	T	C	8250	-0.10	0.02	0.00	0.00	36.13
rs4963268	Glycocholenat e sulfate levels	GCST90199841	11	63444660	C	T	8250	-0.09	0.02	0.00	0.00	23.12
rs4754642	Glycocholenat e sulfate levels	GCST90199841	11	99748652	C	T	8250	0.09	0.02	0.00	0.00	19.90
rs2724417	Glycocholenat e sulfate levels	GCST90199841	11	110376121	A	T	8250	0.18	0.02	0.00	0.01	123.46
rs11816458 6	Glycocholenat e sulfate levels	GCST90199841	11	110780847	A	G	8250	-0.26	0.06	0.00	0.00	21.15
rs4764221	Glycocholenat e sulfate levels	GCST90199841	12	15698280	A	T	8250	-1.35	0.28	0.00	0.00	22.89
rs4762697	Glycocholenat e sulfate levels	GCST90199841	12	21162039	T	A	8250	0.23	0.02	0.00	0.02	188.41
rs4149056	Glycocholenat e sulfate levels	GCST90199841	12	21178615	C	T	8250	0.61	0.02	0.00	0.10	952.06
rs56398830	Glycocholenat e sulfate levels	GCST90199841	13	103049340	A	G	8250	0.34	0.07	0.00	0.00	25.88
rs55971546	Glycocholenat e sulfate levels	GCST90199841	13	103065958	T	C	8250	0.21	0.04	0.00	0.00	33.87
rs19156951 7	Glycocholenat e sulfate levels	GCST90199841	15	50433781	A	C	8250	0.26	0.06	0.00	0.00	19.83
rs11250621 9	Glycocholenat e sulfate levels	GCST90199841	16	57784811	C	T	8250	-0.37	0.08	0.00	0.00	22.15
rs2870469	Glycocholenat e sulfate levels	GCST90199841	16	75121386	G	A	8250	0.07	0.02	0.00	0.00	20.01
rs14842369 1	Glycocholenat e sulfate levels	GCST90199841	19	48975030	C	A	8250	-0.36	0.08	0.00	0.00	21.04
rs75561083	l (3beta,17beta) disulfate (1) Androstenedio	GCST90199842	1	18620603	T	C	8222	0.31	0.06	0.00	0.00	28.82
rs15120951 9	l (3beta,17beta) disulfate (1) Androstenedio	GCST90199842	1	66628216	T	A	8222	-0.27	0.06	0.00	0.00	23.94
rs78728263	l (3beta,17beta) disulfate (1) Androstenedio	GCST90199842	2	152117656	T	C	8222	0.14	0.03	0.00	0.00	20.69
rs2342307	l (3beta,17beta) disulfate (1) Androstenedio	GCST90199842	3	196215616	G	A	8222	-0.07	0.01	0.00	0.00	20.78
rs62296447	l (3beta,17beta) disulfate (1) Androstenedio	GCST90199842	4	19361370	A	T	8222	0.08	0.02	0.00	0.00	20.88
rs71606469	l (3beta,17beta) disulfate (1) Androstenedio	GCST90199842	5	3052963	C	G	8222	-0.11	0.02	0.00	0.00	23.41
rs62365869	l (3beta,17beta) disulfate (1) Androstenedio	GCST90199842	5	81337154	A	G	8222	0.23	0.05	0.00	0.00	21.43
rs14002440 3	l (3beta,17beta) disulfate (1)	GCST90199842	5	111033321	C	G	8222	0.17	0.04	0.00	0.00	20.72

	Androstenedio l (3beta,17beta) disulfate (1) Androstenedio												
rs1165200	GCST90199842	6	25874984	A	G	8222	0.08	0.02	0.00	0.00	21.30		
rs12213052	GCST90199842	6	63012768	A	G	8222	0.08	0.02	0.00	0.00	21.67		
rs10228292	GCST90199842	7	64520810	T	C	8222	-0.08	0.02	0.00	0.00	28.98		
rs56094256	GCST90199842	7	76111623	A	T	8222	-0.18	0.04	0.00	0.00	20.83		
rs14898237 7	GCST90199842	7	99477415	C	T	8222	-0.32	0.04	0.00	0.01	68.22		
rs17132384	GCST90199842	7	116176276	T	C	8222	0.10	0.02	0.00	0.00	21.51		
rs11793069	GCST90199842	9	5319183	G	A	8222	-0.07	0.01	0.00	0.00	20.87		
rs18412588 5	GCST90199842	9	19909477	T	A	8222	0.25	0.06	0.00	0.00	20.11		
rs2169127	GCST90199842	10	59312139	T	C	8222	0.07	0.02	0.00	0.00	20.51		
rs67737822	GCST90199842	10	95232847	G	A	8222	-0.11	0.02	0.00	0.00	23.55		
rs12775431	GCST90199842	10	102852007	C	A	8222	-0.07	0.02	0.00	0.00	19.60		
rs19186653 1	GCST90199842	11	99965551	A	G	8222	0.39	0.08	0.00	0.00	25.64		
rs1871395	GCST90199842	12	21199381	G	A	8222	0.12	0.02	0.00	0.00	36.28		
rs80252785	GCST90199842	12	120748734	G	A	8222	0.12	0.03	0.00	0.00	19.91		
rs11715987 3	GCST90199842	13	86104164	T	C	8222	-0.24	0.05	0.00	0.00	19.70		
rs55764900	GCST90199842	14	31863752	G	A	8222	-0.09	0.02	0.00	0.00	20.60		
rs77020173	GCST90199842	14	100914097	G	A	8222	-0.17	0.04	0.00	0.00	20.40		
rs8047140	GCST90199842	16	29911667	T	C	8222	0.10	0.02	0.00	0.00	19.66		

rs73035100	Androstenedio l (3beta,17beta) disulfate (1)	GCST90199842	19	33460360	T	C	8222	0.25	0.05	0.00	0.00	20.51
rs212100	Androstenedio l (3beta,17beta) disulfate (1)	GCST90199842	19	47873738	C	T	8222	0.40	0.02	0.00	0.05	453.81
rs680891	Androstenedio l (3beta,17beta) disulfate (1)	GCST90199842	19	54821568	T	C	8222	0.09	0.02	0.00	0.00	23.77
rs146927569	Androstenedio l (3beta,17beta) disulfate (1)	GCST90199842	20	4891703	T	A	8222	-0.35	0.07	0.00	0.00	22.49
rs78438321	Androstenedio l (3beta,17beta) disulfate (1)	GCST90199842	22	47841738	T	C	8222	-0.25	0.05	0.00	0.00	20.33
rs7519197	Chiro-inositol levels	GCST90199843	1	5790970	C	T	4429	-0.10	0.02	0.00	0.00	20.52
rs72808733	Chiro-inositol levels	GCST90199843	2	46095021	A	G	4429	0.13	0.03	0.00	0.00	21.11
rs6791461	Chiro-inositol levels	GCST90199843	3	516833	T	C	4429	-0.43	0.09	0.00	0.00	21.35
rs1828884	Chiro-inositol levels	GCST90199843	4	90768699	A	T	4429	0.11	0.02	0.00	0.00	20.09
rs12659954	Chiro-inositol levels	GCST90199843	5	28653397	C	T	4429	-0.16	0.03	0.00	0.01	23.22
rs9370390	Chiro-inositol levels	GCST90199843	6	55149050	G	A	4429	0.13	0.03	0.00	0.01	24.04
rs147646039	Chiro-inositol levels	GCST90199843	6	105126479	G	A	4429	-0.27	0.06	0.00	0.00	20.80
rs76436807	Chiro-inositol levels	GCST90199843	6	157125091	A	G	4429	-0.25	0.06	0.00	0.00	19.77
rs146216027	Chiro-inositol levels	GCST90199843	8	59117439	C	T	4429	-0.26	0.06	0.00	0.00	20.95
rs34012614	Chiro-inositol levels	GCST90199843	8	143331981	A	G	4429	0.22	0.05	0.00	0.00	19.51
rs76885083	Chiro-inositol levels	GCST90199843	10	6142379	C	G	4429	0.17	0.04	0.00	0.00	20.45
rs12771096	Chiro-inositol levels	GCST90199843	10	44705133	T	C	4429	0.14	0.03	0.00	0.00	20.84
rs8032949	Chiro-inositol levels	GCST90199843	15	46404456	A	G	4429	-0.10	0.02	0.00	0.01	22.65
rs1824248	Chiro-inositol levels	GCST90199843	18	33493858	C	A	4429	-0.33	0.07	0.00	0.00	20.02
rs12071585	1-palmitoyl-2- linoleoyl-GPE (16:0/18:2) levels	GCST90199844	1	63567377	T	C	8266	-0.10	0.02	0.00	0.00	21.01
rs141089920	1-palmitoyl-2- linoleoyl-GPE (16:0/18:2) levels	GCST90199844	1	161486977	T	C	8266	0.49	0.11	0.00	0.00	20.51
rs11586345	1-palmitoyl-2- linoleoyl-GPE (16:0/18:2) levels	GCST90199844	1	241028169	A	G	8266	-0.19	0.04	0.00	0.00	21.27
rs1946885	1-palmitoyl-2- linoleoyl-GPE (16:0/18:2) levels	GCST90199844	2	4794061	A	G	8266	-0.07	0.02	0.00	0.00	19.97
rs13382655	1-palmitoyl-2- linoleoyl-GPE (16:0/18:2) levels	GCST90199844	2	43264911	A	G	8266	0.22	0.05	0.00	0.00	22.77
rs73117678	1-palmitoyl-2- linoleoyl-GPE (16:0/18:2) levels	GCST90199844	4	36302755	C	T	8266	0.16	0.03	0.00	0.00	28.59

rs13204061	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	6	148409141	A	G	8266	0.10	0.02	0.00	0.00	20.26
rs6964690	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	7	110762262	A	G	8266	0.07	0.02	0.00	0.00	21.17
rs330078	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	8	9298175	T	C	8266	0.07	0.02	0.00	0.00	20.47
rs75123390	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	10	119457788	A	G	8266	0.11	0.02	0.00	0.00	23.45
rs146654860	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	11	15422405	A	G	8266	-0.21	0.04	0.00	0.00	23.83
rs174564	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	11	61820833	G	A	8266	0.42	0.02	0.00	0.08	749.66
rs10897211	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	11	62056104	A	G	8266	0.07	0.02	0.00	0.00	21.36
rs73502335	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	11	64332929	A	G	8266	0.14	0.03	0.00	0.00	21.26
rs695112	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	11	75745535	T	A	8266	0.13	0.02	0.00	0.01	42.60
rs2072560	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	11	116791110	C	T	8266	-0.16	0.03	0.00	0.00	27.35
rs143411857	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	13	77210337	C	T	8266	0.25	0.06	0.00	0.00	19.60
rs11854242	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	15	58279711	T	C	8266	-0.11	0.02	0.00	0.00	39.28
rs261290	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	15	58386521	C	T	8266	-0.34	0.02	0.00	0.05	439.39
rs633695	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	15	58433640	G	A	8266	0.25	0.02	0.00	0.02	207.72
rs12928099	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	16	15056648	A	C	8266	-0.10	0.02	0.00	0.00	35.34
rs140921596	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	17	15032733	G	A	8266	-0.35	0.08	0.00	0.00	21.35
rs629501	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	18	69192759	T	C	8266	-0.08	0.02	0.00	0.00	21.05
rs483082	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	19	44912921	T	G	8266	0.10	0.02	0.00	0.00	29.65

rs204478	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2) levels	GCST90199844	19	44976194	T	A	8266	0.10	0.02	0.00	0.00	21.88
rs9855415	Sphinganine-1-phosphate levels	GCST90199845	3	193979321	T	G	8126	-0.07	0.02	0.00	0.00	19.97
rs1678281	Sphinganine-1-phosphate levels	GCST90199845	4	8368435	T	G	8126	0.07	0.02	0.00	0.00	20.70
rs11935927	Sphinganine-1-phosphate levels	GCST90199845	4	23710964	T	C	8126	0.07	0.02	0.00	0.00	19.87
rs28669289	Sphinganine-1-phosphate levels	GCST90199845	4	31534179	C	G	8126	-0.08	0.02	0.00	0.00	21.72
rs6452070	Sphinganine-1-phosphate levels	GCST90199845	5	22236503	C	T	8126	0.13	0.03	0.00	0.00	20.57
rs150195537	Sphinganine-1-phosphate levels	GCST90199845	6	20982728	A	G	8126	-0.25	0.05	0.00	0.00	20.72
rs112895335	Sphinganine-1-phosphate levels	GCST90199845	6	49665013	A	G	8126	-0.25	0.05	0.00	0.00	20.14
rs1288158	Sphinganine-1-phosphate levels	GCST90199845	6	112959860	A	C	8126	-0.10	0.02	0.00	0.00	20.55
rs150733954	Sphinganine-1-phosphate levels	GCST90199845	7	5111524	A	G	8126	-0.14	0.03	0.00	0.00	21.36
rs62467108	Sphinganine-1-phosphate levels	GCST90199845	7	78496070	C	T	8126	0.18	0.04	0.00	0.00	24.94
rs4872388	Sphinganine-1-phosphate levels	GCST90199845	8	26044601	T	G	8126	-0.11	0.02	0.00	0.00	24.85
rs61917951	Sphinganine-1-phosphate levels	GCST90199845	12	28828160	A	G	8126	0.16	0.03	0.00	0.00	21.20
rs7964522	Sphinganine-1-phosphate levels	GCST90199845	12	50113033	T	G	8126	-0.07	0.02	0.00	0.00	20.44
rs11180194	Sphinganine-1-phosphate levels	GCST90199845	12	74749450	G	A	8126	-0.12	0.03	0.00	0.00	19.95
rs55829994	Sphinganine-1-phosphate levels	GCST90199845	13	45443071	A	G	8126	0.11	0.03	0.00	0.00	20.95
rs145021003	Sphinganine-1-phosphate levels	GCST90199845	16	26612548	C	A	8126	-0.30	0.06	0.00	0.00	23.07
rs12449930	Sphinganine-1-phosphate levels	GCST90199845	17	76423251	T	C	8126	0.10	0.02	0.00	0.01	45.54
rs1270039	Sphinganine-1-phosphate levels	GCST90199845	19	5986433	G	A	8126	-0.12	0.03	0.00	0.00	19.77
rs34994424	Sphinganine-1-phosphate levels	GCST90199845	20	1334508	T	C	8126	0.08	0.02	0.00	0.00	19.67
rs269345	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	1	68101765	A	G	8233	0.08	0.02	0.00	0.00	23.77
rs4855536	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	3	68890449	C	G	8233	0.07	0.02	0.00	0.00	20.71

rs7644123	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	3	82446837	A	G	8233	-0.08	0.02	0.00	0.00	21.02
rs73235645	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	4	40528393	C	G	8233	-0.10	0.02	0.00	0.00	19.53
rs35818294	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	4	47543124	A	C	8233	0.24	0.02	0.00	0.02	151.27
rs11736427	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	4	48037885	T	A	8233	0.10	0.02	0.00	0.01	44.04
rs78246082	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	5	27037871	C	A	8233	-0.21	0.05	0.00	0.00	21.19
rs148750330	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	5	40621249	A	G	8233	0.35	0.08	0.00	0.00	20.21
rs2842353	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	6	7252323	C	T	8233	0.07	0.01	0.00	0.00	22.26
rs62422135	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	6	136778180	G	A	8233	-0.30	0.06	0.00	0.00	21.90
rs149400099	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	7	956710	C	G	8233	-0.11	0.02	0.00	0.00	19.99
rs10252214	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	7	72407774	G	C	8233	-0.08	0.02	0.00	0.00	19.53
rs765590	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	7	155437486	C	A	8233	0.16	0.03	0.00	0.00	22.98
rs1569209	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	8	19972659	G	T	8233	0.12	0.03	0.00	0.00	20.39
rs11986992	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	8	41148529	A	G	8233	-0.07	0.02	0.00	0.00	19.80
rs56400540	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	9	1996560	C	G	8233	0.10	0.02	0.00	0.00	20.57

rs10814274	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	9	35734959	T	C	8233	0.14	0.02	0.00	0.01	83.74
rs1045989	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	9	111934208	C	A	8233	0.08	0.02	0.00	0.00	30.97
rs11599216	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	10	7617969	C	T	8233	0.18	0.04	0.00	0.00	21.80
rs825647	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	10	13257829	G	T	8233	-0.07	0.02	0.00	0.00	21.39
rs2474612	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	10	50425366	C	T	8233	-0.07	0.02	0.00	0.00	21.53
rs17880383	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	10	100204555	A	G	8233	0.15	0.03	0.00	0.00	23.10
rs4752487	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	10	120976908	T	C	8233	0.15	0.03	0.00	0.00	25.19
rs117405168	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	11	18219144	A	G	8233	-0.34	0.07	0.00	0.00	22.82
rs7320739	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	13	106285700	G	T	8233	-0.10	0.02	0.00	0.00	23.43
rs11851262	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	14	29718156	T	C	8233	-0.12	0.03	0.00	0.00	19.83
rs141043853	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	14	63880699	T	G	8233	-0.15	0.03	0.00	0.00	20.20
rs397923	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	15	58399919	T	A	8233	-0.08	0.02	0.00	0.00	28.44
rs11854622	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	15	70351487	G	A	8233	0.21	0.05	0.00	0.00	19.63
rs75714613	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	16	72773917	G	T	8233	0.32	0.07	0.00	0.00	19.72

rs146059473	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	17	13667728	T	C	8233	-0.34	0.08	0.00	0.00	19.76
rs1624032	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	18	4596475	T	C	8233	0.07	0.02	0.00	0.00	20.58
rs1871194	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	19	8218935	A	C	8233	0.12	0.02	0.00	0.01	54.00
rs2074798	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	19	18906763	C	T	8233	-0.11	0.02	0.00	0.01	49.12
rs4813102	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	20	12967235	T	A	8233	-0.07	0.02	0.00	0.00	22.53
rs131430	Glycosyl-N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90199846	22	23584947	A	G	8233	-0.07	0.02	0.00	0.00	19.86
rs72852246	4-allylphenol sulfate levels	GCST90199847	2	137179226	T	C	8240	0.10	0.02	0.00	0.00	21.67
rs4676609	4-allylphenol sulfate levels	GCST90199847	3	39172765	T	C	8240	0.09	0.02	0.00	0.00	20.07
rs73168640	4-allylphenol sulfate levels	GCST90199847	3	156702127	A	C	8240	0.18	0.04	0.00	0.00	19.77
rs75171739	4-allylphenol sulfate levels	GCST90199847	3	161036854	G	T	8240	0.35	0.08	0.00	0.00	20.16
rs62281914	4-allylphenol sulfate levels	GCST90199847	3	171928238	A	G	8240	0.20	0.04	0.00	0.00	19.58
rs72971004	4-allylphenol sulfate levels	GCST90199847	4	153488537	A	G	8240	-0.34	0.07	0.00	0.00	25.28
rs35069554	4-allylphenol sulfate levels	GCST90199847	5	66863427	T	G	8240	0.08	0.02	0.00	0.00	22.61
rs9467618	4-allylphenol sulfate levels	GCST90199847	6	25824581	T	C	8240	0.13	0.02	0.00	0.01	52.20
rs78389894	4-allylphenol sulfate levels	GCST90199847	6	37002878	T	C	8240	-0.15	0.03	0.00	0.00	20.70
rs191335487	4-allylphenol sulfate levels	GCST90199847	6	99650996	T	C	8240	0.08	0.02	0.00	0.00	19.84
rs73573552	4-allylphenol sulfate levels	GCST90199847	6	155997131	A	G	8240	-0.07	0.02	0.00	0.00	19.63
rs2841691	4-allylphenol sulfate levels	GCST90199847	9	91843187	A	G	8240	-0.08	0.02	0.00	0.00	20.17
rs11103829	4-allylphenol sulfate levels	GCST90199847	9	135345473	A	G	8240	0.08	0.02	0.00	0.00	22.87
rs1887333	4-allylphenol sulfate levels	GCST90199847	10	7686973	G	T	8240	-0.09	0.02	0.00	0.00	27.77
rs56233220	4-allylphenol sulfate levels	GCST90199847	10	94957529	C	G	8240	0.10	0.02	0.00	0.00	29.18
rs1998345	4-allylphenol sulfate levels	GCST90199847	10	122364790	G	A	8240	-0.08	0.02	0.00	0.00	21.85
rs10732873	4-allylphenol sulfate levels	GCST90199847	11	133787605	C	A	8240	-0.15	0.03	0.00	0.00	20.58
rs183977843	4-allylphenol sulfate levels	GCST90199847	13	31956379	A	G	8240	0.35	0.08	0.00	0.00	20.62
rs4885962	4-allylphenol sulfate levels	GCST90199847	13	56289820	C	A	8240	-0.42	0.09	0.00	0.00	22.37
rs8011890	4-allylphenol sulfate levels	GCST90199847	14	95680556	A	C	8240	-0.12	0.03	0.00	0.00	20.05
rs117640413	4-allylphenol sulfate levels	GCST90199847	16	18091916	C	A	8240	0.10	0.02	0.00	0.00	21.49
rs1902817	4-allylphenol sulfate levels	GCST90199847	16	20067739	G	A	8240	0.07	0.02	0.00	0.00	19.85

rs4115668	4-allylphenol sulfate levels	GCST90199847	16	28596211	A	G	8240	-0.08	0.02	0.00	0.00	21.76
rs117850419	4-allylphenol sulfate levels	GCST90199847	16	78414326	T	C	8240	-0.22	0.05	0.00	0.00	20.91
rs12150373	4-allylphenol sulfate levels	GCST90199847	17	20753652	C	T	8240	-0.16	0.04	0.00	0.00	19.81
rs142817090	4-allylphenol sulfate levels	GCST90199847	19	9215303	G	A	8240	0.17	0.04	0.00	0.00	20.73
rs13052767	4-allylphenol sulfate levels	GCST90199847	21	46226127	T	C	8240	0.30	0.07	0.00	0.00	19.78
rs1877477	Succinylcarnitine levels	GCST90199848	1	42161609	C	T	8212	0.12	0.02	0.00	0.00	25.20
rs1799822	Succinylcarnitine levels	GCST90199848	1	53213557	G	A	8212	-0.09	0.02	0.00	0.00	27.30
rs6664862	Succinylcarnitine levels	GCST90199848	1	216659460	A	G	8212	0.08	0.02	0.00	0.00	20.15
rs148466143	Succinylcarnitine levels	GCST90199848	2	126904919	A	G	8212	0.24	0.05	0.00	0.00	22.02
rs13401099	Succinylcarnitine levels	GCST90199848	2	228897167	C	A	8212	-0.22	0.05	0.00	0.00	20.79
rs4422180	Succinylcarnitine levels	GCST90199848	2	238959576	G	A	8212	0.10	0.02	0.00	0.00	22.52
rs13073708	Succinylcarnitine levels	GCST90199848	3	59482628	G	A	8212	-0.10	0.02	0.00	0.00	21.65
rs17806888	Succinylcarnitine levels	GCST90199848	3	67365898	C	T	8212	0.25	0.02	0.00	0.01	120.77
rs4912506	Succinylcarnitine levels	GCST90199848	3	184392842	G	A	8212	-0.09	0.02	0.00	0.00	20.20
rs146510033	Succinylcarnitine levels	GCST90199848	5	62297257	A	G	8212	0.27	0.06	0.00	0.00	21.41
rs143145930	Succinylcarnitine levels	GCST90199848	6	57136304	G	A	8212	-0.38	0.07	0.00	0.00	26.06
rs2282140	Succinylcarnitine levels	GCST90199848	6	160073489	T	C	8212	-0.14	0.02	0.00	0.01	42.93
rs62437933	Succinylcarnitine levels	GCST90199848	7	3730179	G	C	8212	0.09	0.02	0.00	0.00	19.60
rs12237170	Succinylcarnitine levels	GCST90199848	9	4671659	G	C	8212	0.11	0.02	0.00	0.00	22.98
rs3814492	Succinylcarnitine levels	GCST90199848	9	129110943	A	G	8212	0.21	0.02	0.00	0.02	165.93
rs12251746	Succinylcarnitine levels	GCST90199848	10	16849469	T	C	8212	0.15	0.03	0.00	0.00	19.82
rs78207279	Succinylcarnitine levels	GCST90199848	10	27683690	A	G	8212	-0.35	0.07	0.00	0.00	23.41
rs117707954	Succinylcarnitine levels	GCST90199848	12	12077284	A	G	8212	-0.29	0.06	0.00	0.00	20.20
rs74991768	Succinylcarnitine levels	GCST90199848	13	47961693	T	C	8212	-0.12	0.02	0.00	0.00	30.40
rs12861002	Succinylcarnitine levels	GCST90199848	13	97766278	A	G	8212	-0.08	0.02	0.00	0.00	22.40
rs76163561	Succinylcarnitine levels	GCST90199848	15	63066379	C	T	8212	-0.26	0.05	0.00	0.00	26.66
rs4775623	Succinylcarnitine levels	GCST90199848	15	63116121	A	G	8212	-0.34	0.01	0.00	0.06	548.41
rs999743	Succinylcarnitine levels	GCST90199848	15	73822628	T	A	8212	-0.12	0.02	0.00	0.00	24.59
rs2062541	Succinylcarnitine levels	GCST90199848	16	16033378	A	G	8212	0.12	0.02	0.00	0.01	59.05
rs145709129	Succinylcarnitine levels	GCST90199848	16	51158383	C	A	8212	-0.31	0.07	0.00	0.00	20.97
rs71402061	Succinylcarnitine levels	GCST90199848	16	83313776	G	A	8212	0.10	0.02	0.00	0.00	19.98
rs77818755	Succinylcarnitine levels	GCST90199848	18	62601442	T	C	8212	0.22	0.05	0.00	0.00	19.80
rs6015663	Succinylcarnitine levels	GCST90199848	20	60144734	G	A	8212	0.07	0.02	0.00	0.00	21.72
rs9976902	Succinylcarnitine levels	GCST90199848	21	25866856	T	C	8212	0.09	0.02	0.00	0.00	25.81
rs12096570	hydroxypregnenolone disulfate levels	GCST90199849	1	26526216	C	T	8132	0.09	0.02	0.00	0.00	26.23

rs111790575	21-hydroxypregn enolone disulfate levels	GCST90199849	1	46920877	G	A	8132	0.19	0.02	0.00	0.01	75.29
rs2734822	21-hydroxypregn enolone disulfate levels	GCST90199849	1	236086220	T	A	8132	0.07	0.01	0.00	0.00	20.73
rs11689132	21-hydroxypregn enolone disulfate levels	GCST90199849	2	24811460	C	T	8132	-0.07	0.02	0.00	0.00	19.75
rs6740315	21-hydroxypregn enolone disulfate levels	GCST90199849	2	176655378	C	T	8132	-0.08	0.02	0.00	0.00	26.17
rs17015753	21-hydroxypregn enolone disulfate levels	GCST90199849	3	25069637	A	C	8132	0.10	0.02	0.00	0.00	20.87
rs114437652	21-hydroxypregn enolone disulfate levels	GCST90199849	4	6907836	A	G	8132	-0.30	0.07	0.00	0.00	19.85
rs10491431	21-hydroxypregn enolone disulfate levels	GCST90199849	5	35967898	A	C	8132	0.10	0.02	0.00	0.00	21.52
rs56026432	21-hydroxypregn enolone disulfate levels	GCST90199849	5	65269955	A	G	8132	-0.12	0.03	0.00	0.00	21.10
rs114772891	21-hydroxypregn enolone disulfate levels	GCST90199849	5	96967110	G	A	8132	0.29	0.06	0.00	0.00	22.38
rs12658172	21-hydroxypregn enolone disulfate levels	GCST90199849	5	124869692	C	G	8132	-0.09	0.02	0.00	0.00	19.89
rs151198906	21-hydroxypregn enolone disulfate levels	GCST90199849	6	14192536	A	G	8132	-0.34	0.07	0.00	0.00	20.29
rs1165195	21-hydroxypregn enolone disulfate levels	GCST90199849	6	25814852	G	T	8132	-0.16	0.01	0.00	0.01	123.14
rs116882447	21-hydroxypregn enolone disulfate levels	GCST90199849	6	88205775	C	G	8132	-0.16	0.04	0.00	0.00	20.30
rs10951833	21-hydroxypregn enolone disulfate levels	GCST90199849	7	45755775	T	C	8132	-0.11	0.02	0.00	0.00	26.83
rs10255736	21-hydroxypregn enolone disulfate levels	GCST90199849	7	64583907	G	A	8132	-0.10	0.02	0.00	0.00	19.95
rs12547085	21-hydroxypregn enolone disulfate levels	GCST90199849	8	29778978	C	T	8132	-0.07	0.02	0.00	0.00	19.94
rs138587061	21-hydroxypregn enolone disulfate levels	GCST90199849	8	62970263	T	G	8132	0.34	0.07	0.00	0.00	20.40
rs76728353	21-hydroxypregn enolone disulfate levels	GCST90199849	8	63988463	A	G	8132	-0.19	0.04	0.00	0.00	23.24

rs1543242	21-hydroxypregn enolone disulfate levels	GCST90199849	8	82631890	T	A	8132	0.07	0.01	0.00	0.00	19.66
rs142497180	21-hydroxypregn enolone disulfate levels	GCST90199849	9	32217925	T	C	8132	-0.20	0.04	0.00	0.00	22.11
rs55957832	21-hydroxypregn enolone disulfate levels	GCST90199849	10	99926752	G	C	8132	-0.16	0.03	0.00	0.00	23.87
rs139230314	21-hydroxypregn enolone disulfate levels	GCST90199849	11	80628808	A	G	8132	-0.35	0.06	0.00	0.00	30.44
rs72953925	21-hydroxypregn enolone disulfate levels	GCST90199849	11	85481305	A	G	8132	0.13	0.03	0.00	0.00	21.96
rs12419764	21-hydroxypregn enolone disulfate levels	GCST90199849	11	121263686	G	A	8132	-0.08	0.02	0.00	0.00	20.21
rs55962399	21-hydroxypregn enolone disulfate levels	GCST90199849	11	124101909	C	T	8132	-0.20	0.04	0.00	0.00	24.85
rs12369881	21-hydroxypregn enolone disulfate levels	GCST90199849	12	21238418	A	G	8132	0.21	0.02	0.00	0.01	117.09
rs11045962	21-hydroxypregn enolone disulfate levels	GCST90199849	12	21308602	T	A	8132	-0.15	0.02	0.00	0.01	55.68
rs73129267	21-hydroxypregn enolone disulfate levels	GCST90199849	12	65082247	G	A	8132	-0.14	0.03	0.00	0.00	19.78
rs117068876	21-hydroxypregn enolone disulfate levels	GCST90199849	12	108938676	C	G	8132	-0.33	0.07	0.00	0.00	22.88
rs112256561	21-hydroxypregn enolone disulfate levels	GCST90199849	12	111915447	C	T	8132	0.12	0.03	0.00	0.00	21.10
rs9509847	21-hydroxypregn enolone disulfate levels	GCST90199849	13	21744175	A	C	8132	-0.09	0.02	0.00	0.00	33.11
rs9543004	21-hydroxypregn enolone disulfate levels	GCST90199849	13	72562240	C	T	8132	0.08	0.02	0.00	0.00	26.08
rs516452	21-hydroxypregn enolone disulfate levels	GCST90199849	15	33901901	G	A	8132	0.25	0.06	0.00	0.00	20.00
rs7102	21-hydroxypregn enolone disulfate levels	GCST90199849	16	11548386	C	T	8132	0.07	0.02	0.00	0.00	21.54
rs2061679	21-hydroxypregn enolone disulfate levels	GCST90199849	16	81540371	T	C	8132	0.17	0.03	0.00	0.00	36.01
rs212100	21-hydroxypregn enolone disulfate levels	GCST90199849	19	47873738	C	T	8132	0.16	0.02	0.00	0.01	64.25

rs55720021	21-hydroxypregn enolone disulfate levels	GCST90199849	19	48640984	T	G	8132	0.08	0.02	0.00	0.00	19.89
rs78438321	21-hydroxypregn enolone disulfate levels	GCST90199849	22	47841738	T	C	8132	-0.29	0.06	0.00	0.00	24.73
rs6688829	5alpha-androstan- 3alpha,17alph a-diol monosulfate levels	GCST90199850	1	104303832	T	C	5524	-0.08	0.02	0.00	0.00	20.52
rs13096010	5alpha-androstan- 3alpha,17alph a-diol monosulfate levels	GCST90199850	3	186633346	A	G	5524	0.09	0.02	0.00	0.00	22.61
rs730139	5alpha-androstan- 3alpha,17alph a-diol monosulfate levels	GCST90199850	4	42752499	C	T	5524	0.15	0.03	0.00	0.00	20.18
rs62317882	5alpha-androstan- 3alpha,17alph a-diol monosulfate levels	GCST90199850	4	68489991	C	T	5524	-0.27	0.02	0.00	0.04	218.81
rs2603152	5alpha-androstan- 3alpha,17alph a-diol monosulfate levels	GCST90199850	4	68501356	C	T	5524	0.16	0.02	0.00	0.01	73.40
rs17506532	5alpha-androstan- 3alpha,17alph a-diol monosulfate levels	GCST90199850	4	117053764	G	T	5524	0.34	0.08	0.00	0.00	19.75
rs13161089	5alpha-androstan- 3alpha,17alph a-diol monosulfate levels	GCST90199850	5	3052048	G	A	5524	-0.13	0.03	0.00	0.00	20.26
rs18207431 9	5alpha-androstan- 3alpha,17alph a-diol monosulfate levels	GCST90199850	5	22900591	T	C	5524	-0.68	0.11	0.00	0.01	38.79
rs183293	5alpha-androstan- 3alpha,17alph a-diol monosulfate levels	GCST90199850	5	162054300	A	G	5524	-0.14	0.03	0.00	0.00	19.58
rs9461218	5alpha-androstan- 3alpha,17alph a-diol monosulfate levels	GCST90199850	6	25818527	A	G	5524	0.14	0.02	0.00	0.01	43.72
rs15036369 4	5alpha-androstan- 3alpha,17alph a-diol monosulfate levels	GCST90199850	6	123642956	G	A	5524	0.37	0.08	0.00	0.00	19.57

rs14898237 7	5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	7	99477415	C	T	5524	-0.70	0.06	0.00	0.02	128.70
rs75766985	5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	8	80547977	G	T	5524	-0.41	0.09	0.00	0.00	21.52
rs58515501	5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	8	84229808	T	G	5524	-0.18	0.04	0.00	0.00	20.33
rs1492611	5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	9	79275161	C	T	5524	0.09	0.02	0.00	0.00	21.26
rs7070862	5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	10	5197995	T	A	5524	-0.23	0.03	0.00	0.01	77.44
rs12765778	5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	10	5378514	A	G	5524	-0.08	0.02	0.00	0.00	20.12
rs11044235	5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	12	18648502	T	G	5524	0.09	0.02	0.00	0.00	22.33
rs772733	5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	12	76945330	A	G	5524	-0.37	0.08	0.00	0.00	20.82
rs2094799	5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	13	84185798	T	C	5524	0.08	0.02	0.00	0.00	20.41
rs15035239 4	5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	13	114013095	A	G	5524	0.44	0.09	0.00	0.00	25.34
rs14273421 8	5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	15	28276220	A	G	5524	0.50	0.11	0.00	0.00	20.19
rs61049932	5alpha-androstan-3alpha,17alpha-diol monosulfate levels	GCST90199850	15	98881458	T	C	5524	-0.27	0.06	0.00	0.00	19.98

rs112216002	5alpha-androstan-3alpha,17alpha-diol monosulfate	GCST90199850	16	48815789	A	G	5524	-0.62	0.14	0.00	0.00	20.89
rs16970513	5alpha-androstan-3alpha,17alpha-diol monosulfate	GCST90199850	16	70758014	G	A	5524	0.11	0.02	0.00	0.00	21.20
rs7185229	5alpha-androstan-3alpha,17alpha-diol monosulfate	GCST90199850	16	83223163	A	G	5524	-0.11	0.02	0.00	0.00	21.61
rs17745049	5alpha-androstan-3alpha,17alpha-diol monosulfate	GCST90199850	17	54857765	A	G	5524	-0.12	0.03	0.00	0.00	22.02
rs35951956	5alpha-androstan-3alpha,17alpha-diol monosulfate	GCST90199850	19	54409388	A	G	5524	0.09	0.02	0.00	0.00	22.23
rs6074652	5alpha-androstan-3alpha,17alpha-diol monosulfate	GCST90199850	20	13857591	A	G	5524	0.26	0.06	0.00	0.00	21.15
rs12096570	Androstenediol (3beta,17beta) disulfate (2)	GCST90199851	1	26526216	C	T	8205	0.09	0.02	0.00	0.00	30.18
rs79510645	Androstenediol (3beta,17beta) disulfate (2)	GCST90199851	1	198115991	A	G	8205	-1.04	0.23	0.00	0.00	19.80
rs142733159	Androstenediol (3beta,17beta) disulfate (2)	GCST90199851	2	27719895	A	G	8205	-0.31	0.07	0.00	0.00	20.07
rs72648970	Androstenediol (3beta,17beta) disulfate (2)	GCST90199851	2	178721877	G	C	8205	-0.18	0.04	0.00	0.00	24.76
rs145351952	Androstenediol (3beta,17beta) disulfate (2)	GCST90199851	3	12108398	G	A	8205	-0.36	0.08	0.00	0.00	21.09
rs7726839	Androstenediol (3beta,17beta) disulfate (2)	GCST90199851	5	618471	G	A	8205	0.09	0.02	0.00	0.00	29.40
rs12658172	Androstenediol (3beta,17beta) disulfate (2)	GCST90199851	5	124869692	C	G	8205	-0.09	0.02	0.00	0.00	20.29
rs74923575	Androstenediol (3beta,17beta) disulfate (2)	GCST90199851	5	155091498	A	G	8205	-0.15	0.03	0.00	0.00	21.63
rs4868305	Androstenediol (3beta,17beta) disulfate (2)	GCST90199851	5	173704741	A	C	8205	0.09	0.02	0.00	0.00	22.38

	Androstenedio												
rs1165195	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	6	25814852	G	T	8205	-0.09	0.01	0.00	0.01	43.49	
rs4714768	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	6	44191109	A	G	8205	-0.07	0.01	0.00	0.00	21.49	
rs6906196	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	6	122351057	C	G	8205	-0.07	0.01	0.00	0.00	19.61	
rs2354373	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	7	11419479	C	G	8205	0.07	0.01	0.00	0.00	21.20	
rs1858930	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	7	107688092	C	A	8205	0.07	0.02	0.00	0.00	21.01	
rs9886448	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	8	26512191	C	T	8205	-0.10	0.02	0.00	0.00	23.15	
rs76728353	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	8	63988463	A	G	8205	-0.19	0.04	0.00	0.00	25.56	
rs11774829	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	8	104966140	A	T	8205	0.11	0.02	0.00	0.00	21.80	
rs11769485 5	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	9	32098146	A	G	8205	-0.19	0.04	0.00	0.00	21.72	
rs1547307	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	9	111840940	G	A	8205	-0.08	0.02	0.00	0.00	22.62	
rs74827952	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	10	5203233	A	G	8205	-0.13	0.02	0.00	0.01	45.75	
rs7907994	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	10	97162100	G	A	8205	-0.08	0.02	0.00	0.00	19.97	
rs11190298	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	10	99861191	G	A	8205	-0.07	0.01	0.00	0.00	27.73	
rs14645062 7	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	11	13933467	C	G	8205	-0.23	0.05	0.00	0.00	20.76	
rs13923031 4	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	11	80628808	A	G	8205	-0.29	0.06	0.00	0.00	23.82	
rs12289923	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	11	121242180	G	A	8205	-0.08	0.02	0.00	0.00	23.28	
rs55962399	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	11	124101909	C	T	8205	-0.19	0.04	0.00	0.00	23.70	
rs12369881	l (3beta,17beta) disulfate (2)	GCST90199851	12	21238418	A	G	8205	0.21	0.02	0.00	0.02	131.46	

rs11045962	Androstenedio l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	12	21308602	T	A	8205	-0.09	0.02	0.00	0.00	22.60
rs11706887 6	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	12	108938676	C	G	8205	-0.29	0.06	0.00	0.00	20.61
rs73167561	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	13	18791788	C	A	8205	0.27	0.06	0.00	0.00	21.13
rs14534777 5	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	14	84919554	C	G	8205	0.28	0.06	0.00	0.00	22.08
rs7183977	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	15	40084891	C	T	8205	0.07	0.02	0.00	0.00	22.02
rs56110419	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	15	101562922	T	G	8205	-0.38	0.08	0.00	0.00	21.38
rs7102	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	16	11548386	C	T	8205	0.06	0.01	0.00	0.00	19.56
rs6564886	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	16	81549845	C	T	8205	-0.10	0.02	0.00	0.00	22.01
rs9319993	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	18	61943290	A	T	8205	0.07	0.01	0.00	0.00	24.55
rs78916770	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	19	10433839	T	A	8205	-0.11	0.02	0.00	0.00	25.35
rs3827699	l (3beta,17beta) disulfate (2) Androstenedio	GCST90199851	20	6089458	G	A	8205	-0.07	0.01	0.00	0.00	20.75
rs78438321	l (3beta,17beta) disulfate (2) 5alpha- androstan-	GCST90199851	22	47841738	T	C	8205	-0.24	0.05	0.00	0.00	19.89
rs7534454	3beta,17alpha- diol disulfate levels	GCST90199852	1	99335409	T	C	7103	0.09	0.02	0.00	0.00	23.82
rs930801	5alpha- androstan- 3beta,17alpha- diol disulfate levels	GCST90199852	2	13918919	T	C	7103	-0.07	0.02	0.00	0.00	19.68
rs55777752	5alpha- androstan- 3beta,17alpha- diol disulfate levels	GCST90199852	2	106127238	C	T	7103	0.24	0.05	0.00	0.00	20.02
rs2196661	5alpha- androstan- 3beta,17alpha- diol disulfate levels	GCST90199852	2	224061127	C	T	7103	-0.08	0.02	0.00	0.00	21.74
rs18301186 0	5alpha- androstan- 3beta,17alpha- diol disulfate levels	GCST90199852	2	236218401	C	T	7103	0.34	0.07	0.00	0.00	20.36

rs73029439	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	3	8336873	C	T	7103	-0.09	0.02	0.00	0.00	24.46
rs1488193	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	3	112962738	G	A	7103	0.15	0.03	0.00	0.00	20.44
rs61661577	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	4	16982377	G	C	7103	-0.17	0.03	0.00	0.00	24.29
rs2123886	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	4	68463169	C	A	7103	-0.09	0.02	0.00	0.00	23.50
rs254477	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	5	53160123	G	T	7103	0.12	0.03	0.00	0.00	21.36
rs1877216	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	5	91189868	T	G	7103	-0.11	0.02	0.00	0.00	28.88
rs113847326	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	7	47741739	A	G	7103	0.19	0.04	0.00	0.00	21.19
rs148982377	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	7	99477415	C	T	7103	-0.36	0.05	0.00	0.01	60.64
rs72671019	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	8	109976141	T	C	7103	-0.19	0.04	0.00	0.00	19.61
rs143138983	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	9	96686834	T	C	7103	-0.26	0.06	0.00	0.00	20.82
rs151227875	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	10	5255358	G	C	7103	-0.15	0.02	0.00	0.01	43.08
rs10999673	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	10	71093556	T	C	7103	0.10	0.02	0.00	0.00	20.81
rs177863	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	14	37650645	A	C	7103	0.08	0.02	0.00	0.00	20.08
rs3803511	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	15	85752556	A	G	7103	0.08	0.02	0.00	0.00	20.99

rs117764708	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	16	62132082	C	A	7103	-0.20	0.05	0.00	0.00	20.20
rs140912942	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	17	7411077	T	C	7103	-0.31	0.07	0.00	0.00	20.69
rs1914253	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	18	44185186	T	C	7103	-0.13	0.03	0.00	0.00	23.22
rs10426201	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	19	47881492	A	G	7103	0.18	0.02	0.00	0.01	66.62
rs1205320	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	19	54332304	C	G	7103	-0.08	0.02	0.00	0.00	22.31
rs61263523	5alpha-androstan-3beta,17alpha-diol disulfate levels	GCST90199852	22	18005133	G	C	7103	-0.23	0.05	0.00	0.00	20.33
rs12069514	pregnan-3beta,20beta-diol monosulfate (1) levels	GCST90199853	1	76399557	T	C	7772	-0.09	0.02	0.00	0.00	19.53
rs6659351	pregnan-3beta,20beta-diol monosulfate (1) levels	GCST90199853	1	101826081	A	G	7772	0.11	0.02	0.00	0.00	21.45
rs2119191	pregnan-3beta,20beta-diol monosulfate (1) levels	GCST90199853	1	112148837	T	G	7772	-0.09	0.02	0.00	0.00	24.60
rs62142079	pregnan-3beta,20beta-diol monosulfate (1) levels	GCST90199853	2	31953683	T	C	7772	0.11	0.02	0.00	0.01	44.53
rs1524036	pregnan-3beta,20beta-diol monosulfate (1) levels	GCST90199853	2	195333329	G	A	7772	-0.11	0.03	0.00	0.00	20.21
rs7648957	pregnan-3beta,20beta-diol monosulfate (1) levels	GCST90199853	3	18635376	C	T	7772	-0.08	0.02	0.00	0.00	20.34
rs34391229	pregnan-3beta,20beta-diol monosulfate (1) levels	GCST90199853	3	110502105	T	C	7772	0.11	0.02	0.00	0.00	20.41

rs115019205	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	4	3396341	A	G	7772	0.23	0.05	0.00	0.00	20.21
rs2708666	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	4	68501116	T	C	7772	0.10	0.02	0.00	0.00	28.75
rs62305600	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	4	86812103	A	G	7772	-0.11	0.02	0.00	0.00	23.94
rs10491431	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	5	35967898	A	C	7772	0.51	0.02	0.00	0.07	585.92
rs79447773	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	7	12532831	A	T	7772	0.56	0.12	0.00	0.00	20.51
rs190912686	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	7	40333860	A	G	7772	-0.21	0.05	0.00	0.00	20.46
rs148982377	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	7	99477415	C	T	7772	-0.30	0.04	0.00	0.01	48.59
rs1967501	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	7	109075334	C	T	7772	0.15	0.03	0.00	0.00	20.04
rs13275904	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	8	11910205	A	C	7772	0.08	0.02	0.00	0.00	22.05
rs77697233	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	10	5204162	T	C	7772	-0.13	0.02	0.00	0.00	32.23
rs1070048	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	10	118389069	A	C	7772	-0.07	0.02	0.00	0.00	21.96
rs150178331	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	11	9934359	T	C	7772	0.19	0.04	0.00	0.00	26.31

rs11736707	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	11	125071506	T	C	7772	0.26	0.06	0.00	0.00	20.58
rs4149056	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	12	21178615	C	T	7772	0.16	0.02	0.00	0.01	59.20
rs7308081	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	12	21928660	T	A	7772	0.32	0.07	0.00	0.00	20.10
rs10876695	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	12	55053830	A	C	7772	-0.23	0.05	0.00	0.00	23.05
rs74042862	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	13	29909716	G	A	7772	0.36	0.08	0.00	0.00	20.79
rs78214423	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	13	67278594	A	G	7772	0.35	0.07	0.00	0.00	23.11
rs117054834	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	16	8301558	T	G	7772	0.37	0.08	0.00	0.00	20.90
rs9933772	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	16	9757374	T	A	7772	0.40	0.09	0.00	0.00	19.75
rs35363016	5alpha-pregnan-3beta,20beta-diol monosulfate (1) level	GCST90199853	16	76448104	G	A	7772	-0.26	0.06	0.00	0.00	20.96
rs12069514	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	1	76399557	T	C	8028	-0.09	0.02	0.00	0.00	21.52
rs36098010	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	1	96976838	A	G	8028	0.19	0.04	0.00	0.00	20.13
rs2119191	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	1	112148837	T	G	8028	-0.08	0.02	0.00	0.00	19.57

rs6680424	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	1	211519119	T	C	8028	-0.07	0.02	0.00	0.00	19.80
rs62142079	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	2	31953683	T	C	8028	0.10	0.02	0.00	0.00	38.20
rs2594950	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	2	176643894	C	G	8028	0.10	0.02	0.00	0.00	34.38
rs62200878	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	2	185839214	T	A	8028	-0.33	0.07	0.00	0.00	25.27
rs7648957	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	3	18635376	C	T	8028	-0.09	0.02	0.00	0.00	23.95
rs6837231	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	4	76234354	C	T	8028	-0.09	0.02	0.00	0.00	21.14
rs354288	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	5	14237156	A	G	8028	-0.09	0.02	0.00	0.00	20.55
rs27739	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	5	33526336	T	A	8028	-0.08	0.02	0.00	0.00	27.38
rs12659258	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	5	35970113	A	G	8028	0.28	0.02	0.00	0.02	168.48
rs12519980	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	5	82961350	A	G	8028	0.09	0.02	0.00	0.00	23.18
rs78170663	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	5	99436510	G	A	8028	0.35	0.07	0.00	0.00	21.26
rs77670276	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) levels	GCST90199854	6	67139768	G	A	8028	-0.10	0.02	0.00	0.00	22.43

rs117513580	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	7	39405228	G	A	8028	0.36	0.07	0.00	0.00	23.72
rs79654092	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	7	108934752	C	T	8028	0.21	0.05	0.00	0.00	20.07
rs76903738	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	8	16111633	C	T	8028	-0.16	0.04	0.00	0.00	19.73
rs36017154	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	9	9196692	C	T	8028	0.10	0.02	0.00	0.00	19.85
rs115855659	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	9	38586555	G	T	8028	0.30	0.07	0.00	0.00	19.64
rs2418009	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	9	109532584	A	T	8028	0.07	0.02	0.00	0.00	20.51
rs142122182	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	10	5221378	G	A	8028	0.11	0.02	0.00	0.00	26.32
rs150178331	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	11	9934359	T	C	8028	0.18	0.04	0.00	0.00	25.98
rs147165100	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	12	126780574	C	T	8028	0.32	0.07	0.00	0.00	22.51
rs1886858	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	13	21742417	C	T	8028	0.09	0.02	0.00	0.00	21.44
rs148116999	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	13	26228522	T	C	8028	0.60	0.12	0.00	0.00	26.33
rs78214423	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	13	67278594	A	G	8028	0.41	0.07	0.00	0.00	31.57

rs12888438	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	14	23733005	A	C	8028	0.08	0.02	0.00	0.00	23.01
rs11641025	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	16	81551468	G	A	8028	-0.10	0.02	0.00	0.00	22.85
rs1078036	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	18	79381096	C	T	8028	0.09	0.02	0.00	0.00	27.84
rs2547233	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	19	47880769	G	A	8028	-0.16	0.02	0.00	0.01	61.09
rs142832133	5alpha-pregnan-3beta,20alpha-diol monosulfate (2) level	GCST90199854	22	37871081	C	T	8028	0.32	0.07	0.00	0.00	21.45
rs11807828	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	1	112499927	A	G	7066	0.18	0.04	0.00	0.00	24.85
rs112881196	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	2	31757742	G	C	7066	-0.30	0.04	0.00	0.01	48.05
rs143358204	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	2	31762473	G	A	7066	0.25	0.06	0.00	0.00	19.67
rs6807359	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	3	53145738	T	C	7066	-0.11	0.02	0.00	0.00	20.09
rs56225736	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	3	196242315	A	G	7066	0.13	0.02	0.00	0.00	32.08
rs6843105	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	4	24506047	A	C	7066	-0.10	0.02	0.00	0.00	23.44
rs2123886	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	4	68463169	C	A	7066	-0.11	0.02	0.00	0.01	36.55

rs139943078	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	4	68650200	T	G	7066	0.22	0.05	0.00	0.00	20.93
rs75121365	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	5	67876065	T	C	7066	0.23	0.05	0.00	0.00	20.73
rs141113556	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	5	128676852	G	A	7066	0.27	0.06	0.00	0.00	20.34
rs548244437	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	6	127929981	T	C	7066	-0.30	0.06	0.00	0.00	24.46
rs1202220	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	7	3618334	C	T	7066	0.07	0.02	0.00	0.00	19.88
rs138257623	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	7	76013165	C	A	7066	0.17	0.03	0.00	0.00	23.81
rs148982377	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	7	99477415	C	T	7066	-1.09	0.05	0.00	0.06	424.90
rs117907084	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	8	8237018	C	A	7066	-0.18	0.04	0.00	0.00	20.92
rs79728496	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	8	80204558	A	G	7066	-0.13	0.03	0.00	0.00	19.95
rs147344701	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	8	93545461	A	G	7066	-0.36	0.08	0.00	0.00	21.38
rs146802218	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	8	122473164	G	C	7066	-0.46	0.10	0.00	0.00	22.04
rs117299048	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	8	142616758	A	T	7066	0.32	0.07	0.00	0.00	22.85

rs146308324	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	9	100608087	A	C	7066	-0.33	0.07	0.00	0.00	19.68
rs35192168	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	9	123991042	A	T	7066	-0.08	0.02	0.00	0.00	21.45
rs150754448	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	10	5224911	A	G	7066	0.10	0.02	0.00	0.00	21.45
rs9422240	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	10	124005591	C	T	7066	0.07	0.02	0.00	0.00	19.96
rs4149056	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	12	21178615	C	T	7066	0.11	0.02	0.00	0.00	27.02
rs342165	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	12	62687489	G	A	7066	-0.10	0.02	0.00	0.00	20.44
rs772736	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	12	76947337	C	T	7066	-0.36	0.08	0.00	0.00	21.26
rs75025327	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	12	127643627	G	T	7066	-0.30	0.07	0.00	0.00	21.54
rs7139537	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	13	93744310	G	T	7066	0.09	0.02	0.00	0.00	25.18
rs9933711	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	16	5841579	C	T	7066	0.08	0.02	0.00	0.00	22.56
rs11663683	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	18	571911	T	C	7066	0.08	0.02	0.00	0.00	24.66
rs78424818	5alpha-androstan-3beta,17beta-diol monosulfate (2) level	GCST90199855	19	30222118	C	A	7066	-0.27	0.06	0.00	0.00	20.19

rs111863675	5alpha-androstan-3beta,17beta-diol monosulfate (2) levels Androstenediol	GCST90199855	19	53731655	A	G	7066	-0.35	0.07	0.00	0.00	23.08
rs116262021	1 (3alpha, 17alpha) monosulfate (3) levels Androstenediol	GCST90199856	1	190902350	T	A	8192	-0.36	0.07	0.00	0.00	26.01
rs11122565	1 (3alpha, 17alpha) monosulfate (3) levels Androstenediol	GCST90199856	1	230643520	T	G	8192	-0.08	0.02	0.00	0.00	20.54
rs72782873	1 (3alpha, 17alpha) monosulfate (3) levels Androstenediol	GCST90199856	2	15742770	T	G	8192	-0.23	0.05	0.00	0.00	20.60
rs10166967	1 (3alpha, 17alpha) monosulfate (3) levels Androstenediol	GCST90199856	2	46254692	G	T	8192	-0.14	0.03	0.00	0.00	21.62
rs2278921	1 (3alpha, 17alpha) monosulfate (3) levels Androstenediol	GCST90199856	4	68496583	G	T	8192	-0.19	0.01	0.00	0.02	173.88
rs2603152	1 (3alpha, 17alpha) monosulfate (3) levels Androstenediol	GCST90199856	4	68501356	C	T	8192	0.10	0.01	0.00	0.01	51.69
rs4330490	1 (3alpha, 17alpha) monosulfate (3) levels Androstenediol	GCST90199856	5	121913629	G	T	8192	0.07	0.01	0.00	0.00	22.55
rs10238197	1 (3alpha, 17alpha) monosulfate (3) levels Androstenediol	GCST90199856	7	64465556	G	C	8192	-0.08	0.01	0.00	0.00	29.48
rs148982377	1 (3alpha, 17alpha) monosulfate (3) levels Androstenediol	GCST90199856	7	99477415	C	T	8192	-0.84	0.04	0.00	0.06	524.03
rs117209214	1 (3alpha, 17alpha) monosulfate (3) levels Androstenediol	GCST90199856	7	100396354	A	G	8192	-0.38	0.08	0.00	0.00	24.35
rs9690507	1 (3alpha, 17alpha) monosulfate (3) levels Androstenediol	GCST90199856	7	138399225	T	A	8192	-0.07	0.01	0.00	0.00	20.12
rs147613192	1 (3alpha, 17alpha) monosulfate (3) levels Androstenediol	GCST90199856	7	154011011	T	G	8192	-0.30	0.06	0.00	0.00	21.55
rs2406569	1 (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	8	3142407	T	A	8192	-0.12	0.02	0.00	0.00	25.93

rs1461729	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	8	9329732	G	A	8192	-0.11	0.02	0.00	0.00	25.52
rs12549641	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	8	20481231	G	A	8192	-0.07	0.01	0.00	0.00	23.29
rs13253851	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	8	57396198	C	T	8192	-0.06	0.01	0.00	0.00	19.67
rs2954021	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	8	125469835	G	A	8192	-0.07	0.01	0.00	0.00	30.14
rs138841709	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	9	133438771	C	G	8192	-0.23	0.05	0.00	0.00	20.27
rs182566136	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	10	95080278	T	C	8192	-0.21	0.02	0.00	0.01	104.26
rs147417168	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	10	124430354	T	C	8192	-1.29	0.27	0.00	0.00	22.29
rs10897407	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	11	63369912	G	A	8192	-0.07	0.01	0.00	0.00	23.03
rs2076801	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	11	134382362	C	T	8192	-0.88	0.18	0.00	0.00	22.76
rs78813350	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	12	10754332	A	C	8192	-1.38	0.31	0.00	0.00	20.33
rs4149056	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	12	21178615	C	T	8192	0.18	0.02	0.00	0.01	94.54
rs9738365	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	12	31844701	A	C	8192	0.07	0.02	0.00	0.00	21.37
rs77184300	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	12	52364387	A	G	8192	-0.26	0.06	0.00	0.00	21.12
rs1374219	Androstenedio l (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	15	80340124	C	A	8192	0.08	0.02	0.00	0.00	20.29

rs78135981	Androstenediol (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	15	85906825	G	C	8192	-1.33	0.27	0.00	0.00	23.47
rs7102	Androstenediol (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	16	11548386	C	T	8192	0.06	0.01	0.00	0.00	20.04
rs235799	Androstenediol (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	16	26684101	C	T	8192	-0.08	0.02	0.00	0.00	21.62
rs12939689	Androstenediol (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	17	71451404	G	A	8192	-0.12	0.03	0.00	0.00	19.95
rs212100	Androstenediol (3alpha, 17alpha) monosulfate (3) levels	GCST90199856	19	47873738	C	T	8192	0.33	0.02	0.00	0.04	334.91
rs61782471	5alpha-pregnan-diol disulfate levels	GCST90199857	1	101355481	T	A	4110	-0.29	0.06	0.00	0.01	20.91
rs138427031	5alpha-pregnan-diol disulfate levels	GCST90199857	2	173355391	T	G	4110	0.41	0.09	0.00	0.00	20.35
rs11715086	5alpha-pregnan-diol disulfate levels	GCST90199857	3	109210687	C	A	4110	-0.15	0.03	0.00	0.00	19.90
rs7641134	5alpha-pregnan-diol disulfate levels	GCST90199857	3	133889504	A	G	4110	-0.22	0.04	0.00	0.01	30.20
rs79486795	5alpha-pregnan-diol disulfate levels	GCST90199857	4	110755825	G	A	4110	-0.26	0.06	0.00	0.01	21.15
rs17614438	5alpha-pregnan-diol disulfate levels	GCST90199857	4	164288157	T	C	4110	-0.11	0.02	0.00	0.00	20.36
rs10054038	5alpha-pregnan-diol disulfate levels	GCST90199857	5	8762328	G	A	4110	0.37	0.08	0.00	0.01	20.86
rs10491431	5alpha-pregnan-diol disulfate levels	GCST90199857	5	35967898	A	C	4110	0.35	0.03	0.00	0.04	164.17
rs1441392	5alpha-pregnan-diol disulfate levels	GCST90199857	5	91619540	T	C	4110	-0.20	0.04	0.00	0.01	20.85
rs10043074	5alpha-pregnan-diol disulfate levels	GCST90199857	5	161420958	C	T	4110	0.15	0.03	0.00	0.01	20.84
rs28632798	5alpha-pregnan-diol disulfate levels	GCST90199857	5	172883009	C	T	4110	0.17	0.04	0.00	0.00	20.48
rs143690814	5alpha-pregnan-diol disulfate levels	GCST90199857	6	48352374	C	T	4110	0.37	0.08	0.00	0.01	20.87
rs56242241	5alpha-pregnan-diol disulfate levels	GCST90199857	7	103986020	A	G	4110	0.57	0.12	0.00	0.01	21.24
rs4395834	5alpha-pregnan-diol disulfate levels	GCST90199857	7	134735473	T	G	4110	0.10	0.02	0.00	0.00	20.36
rs58418946	5alpha-pregnan-diol disulfate levels	GCST90199857	7	153944137	T	G	4110	0.60	0.13	0.00	0.01	22.05
rs148881026	5alpha-pregnan-diol disulfate levels	GCST90199857	10	30769337	A	G	4110	0.48	0.10	0.00	0.01	25.00

rs18552231 2	5alpha- pregnan-diol disulfate levels	GCST90199857	11	13557392	A	G	4110	-0.30	0.07	0.00	0.00	19.52
rs72878234	5alpha- pregnan-diol disulfate levels	GCST90199857	11	29061473	G	A	4110	0.34	0.08	0.00	0.01	20.95
rs2246254	5alpha- pregnan-diol disulfate levels	GCST90199857	14	61682071	C	G	4110	-0.61	0.14	0.00	0.00	19.72
rs18176221 7	5alpha- pregnan-diol disulfate levels	GCST90199857	15	76080465	A	G	4110	0.41	0.09	0.00	0.01	21.72
rs1466405	5alpha- pregnan-diol disulfate levels	GCST90199857	16	8186517	C	T	4110	-0.14	0.03	0.00	0.01	20.69
rs212100	5alpha- pregnan-diol disulfate levels	GCST90199857	19	47873738	C	T	4110	0.21	0.03	0.00	0.01	39.61
rs17812022	5alpha- pregnan-diol disulfate levels	GCST90199857	20	19026455	T	C	4110	0.17	0.04	0.00	0.00	20.06
rs72790679	3alpha,17beta- diol monosulfate	GCST90199858	2	31431289	A	G	7608	-0.30	0.06	0.00	0.00	24.46
rs11288119 6	(1) level 5alpha- androstan- 3alpha,17beta- diol monosulfate	GCST90199858	2	31757742	G	C	7608	-0.33	0.04	0.00	0.01	61.81
rs14335820 4	(1) level 5alpha- androstan- 3alpha,17beta- diol monosulfate	GCST90199858	2	31762473	G	A	7608	0.26	0.06	0.00	0.00	21.01
rs11437883 6	(1) level 5alpha- androstan- 3alpha,17beta- diol monosulfate	GCST90199858	2	65839066	T	C	7608	0.31	0.07	0.00	0.00	23.32
rs56225736	(1) level 5alpha- androstan- 3alpha,17beta- diol monosulfate	GCST90199858	3	196242315	A	G	7608	0.15	0.02	0.00	0.01	45.76
rs976058	(1) level 5alpha- androstan- 3alpha,17beta- diol monosulfate	GCST90199858	4	68475769	C	T	7608	0.17	0.02	0.00	0.01	115.22
rs1902022	(1) level 5alpha- androstan- 3alpha,17beta- diol monosulfate	GCST90199858	4	68485004	C	G	7608	-0.10	0.02	0.00	0.00	35.61
rs56018415	(1) level 5alpha- androstan- 3alpha,17beta- diol monosulfate	GCST90199858	4	91670961	T	C	7608	0.21	0.04	0.00	0.00	21.70

rs17627325	5alpha-androstan-3alpha,17beta-diol monosulfate (1) level	GCST90199858	4	136968904	A	C	7608	-0.27	0.06	0.00	0.00	20.31
rs74647892	5alpha-androstan-3alpha,17beta-diol monosulfate (1) level	GCST90199858	5	115166473	T	G	7608	-0.35	0.08	0.00	0.00	20.23
rs150363694	5alpha-androstan-3alpha,17beta-diol monosulfate (1) level	GCST90199858	6	123642956	G	A	7608	0.35	0.08	0.00	0.00	20.92
rs118022426	5alpha-androstan-3alpha,17beta-diol monosulfate (1) level	GCST90199858	6	134277356	A	C	7608	-0.31	0.07	0.00	0.00	22.15
rs148982377	5alpha-androstan-3alpha,17beta-diol monosulfate (1) level	GCST90199858	7	99477415	C	T	7608	-1.34	0.05	0.00	0.09	744.73
rs117209214	5alpha-androstan-3alpha,17beta-diol monosulfate (1) level	GCST90199858	7	100396354	A	G	7608	-0.52	0.10	0.00	0.00	28.66
rs4762697	5alpha-androstan-3alpha,17beta-diol monosulfate (1) level	GCST90199858	12	21162039	T	A	7608	0.08	0.02	0.00	0.00	19.53
rs4149056	5alpha-androstan-3alpha,17beta-diol monosulfate (1) level	GCST90199858	12	21178615	C	T	7608	0.18	0.02	0.00	0.01	77.68
rs2567990	5alpha-androstan-3alpha,17beta-diol monosulfate (1) level	GCST90199858	12	121172608	G	A	7608	-0.16	0.04	0.00	0.00	20.84
rs150733161	5alpha-androstan-3alpha,17beta-diol monosulfate (1) level	GCST90199858	13	67225165	T	C	7608	0.29	0.06	0.00	0.00	21.75
rs9516278	5alpha-androstan-3alpha,17beta-diol monosulfate (1) level	GCST90199858	13	93738381	T	A	7608	0.08	0.02	0.00	0.00	23.12
rs4778706	5alpha-androstan-3alpha,17beta-diol monosulfate (1) level	GCST90199858	15	79570377	T	A	7608	-0.07	0.02	0.00	0.00	20.84

rs55792688	5alpha-androstan-3alpha,17beta-diol monosulfate (1) levels	GCST90199858	17	66778659	G	A	7608	-0.08	0.02	0.00	0.00	19.66
rs212100	5alpha-androstan-3alpha,17beta-diol monosulfate (1) levels	GCST90199858	19	47873738	C	T	7608	0.18	0.02	0.00	0.01	71.28
rs7582470	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	2	120818243	A	G	5082	0.08	0.02	0.00	0.00	24.43
rs114735413	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	2	216399142	A	C	5082	0.44	0.08	0.00	0.01	27.04
rs75630763	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	4	147325752	T	C	5082	0.36	0.08	0.00	0.00	19.59
rs11133644	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	5	11114692	C	T	5082	-0.11	0.02	0.00	0.00	20.09
rs189771170	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	5	69096973	C	A	5082	-0.22	0.05	0.00	0.00	21.53
rs80175591	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	5	106538185	G	A	5082	-0.12	0.03	0.00	0.00	22.80
rs7758685	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	6	43857529	G	A	5082	0.08	0.02	0.00	0.00	25.17
rs4546480	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	6	53126276	C	A	5082	0.08	0.02	0.00	0.00	19.89
rs6921455	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	6	130822243	C	T	5082	0.08	0.02	0.00	0.00	19.75
rs13237261	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	7	152588656	T	C	5082	-0.08	0.02	0.00	0.00	21.66
rs111279154	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	8	7036442	G	C	5082	0.28	0.06	0.00	0.00	22.14
rs113532602	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	8	47489452	T	C	5082	-0.26	0.05	0.00	0.00	25.40

rs143142288	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	8	97908179	T	C	5082	-0.16	0.03	0.00	0.00	22.36
rs3927165	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	8	128037873	G	A	5082	0.09	0.02	0.00	0.01	27.44
rs62578793	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	9	127286531	A	G	5082	-0.10	0.02	0.00	0.00	20.41
rs3740065	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	10	99845936	G	A	5082	-0.13	0.03	0.00	0.00	22.22
rs72906181	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	11	43936040	A	C	5082	0.21	0.05	0.00	0.00	19.95
rs11045883	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	12	21230582	A	G	5082	0.19	0.02	0.00	0.02	83.59
rs35404636	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	12	125405410	G	A	5082	0.13	0.02	0.00	0.01	29.77
rs342697	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	13	91776722	A	G	5082	-0.09	0.02	0.00	0.00	25.28
rs1954070	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	14	82958374	C	T	5082	-0.09	0.02	0.00	0.00	20.72
rs77740010	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	15	91469864	T	C	5082	-0.45	0.09	0.00	0.00	22.18
rs1875205	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	16	9966251	A	C	5082	-0.10	0.02	0.00	0.00	21.82
rs3744582	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	17	11747822	T	C	5082	0.12	0.03	0.00	0.00	20.73
rs74388472	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	18	23157299	A	G	5082	-0.26	0.06	0.00	0.00	21.26
rs12326273	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	18	77683427	C	T	5082	0.37	0.08	0.00	0.00	22.06

rs28505302	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	19	47887477	T	C	5082	-0.11	0.02	0.00	0.01	41.19
rs235017	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	20	49614604	A	G	5082	0.08	0.02	0.00	0.00	22.34
rs79937273	5alpha-androstan-3alpha,17beta-diol disulfate levels	GCST90199859	22	31295648	C	T	5082	0.42	0.09	0.00	0.00	21.66
rs1832420	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	1	66474237	G	A	7415	-0.16	0.03	0.00	0.00	22.71
rs140444359	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	1	105308946	T	A	7415	0.22	0.05	0.00	0.00	20.61
rs111933332	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	1	108632055	A	G	7415	-0.15	0.03	0.00	0.00	20.63
rs12072603	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	1	110445953	A	G	7415	0.10	0.02	0.00	0.00	22.43
rs115020183	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	2	61659967	A	G	7415	-0.18	0.04	0.00	0.00	25.10
rs116757524	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	2	185199311	G	A	7415	0.26	0.06	0.00	0.00	19.94
rs116475430	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	2	229562356	A	G	7415	0.41	0.09	0.00	0.00	20.45
rs114210960	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	3	180463446	G	A	7415	0.23	0.05	0.00	0.00	19.84
rs2342307	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	3	196215616	G	A	7415	-0.11	0.02	0.00	0.01	43.80
rs62372309	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	5	64731464	G	A	7415	-0.19	0.04	0.00	0.00	22.01
rs13198474	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	6	25874195	A	G	7415	0.26	0.03	0.00	0.01	74.00
rs78373808	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	6	25878733	A	T	7415	-0.28	0.06	0.00	0.00	22.36
rs6942810	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	7	70878095	C	T	7415	0.18	0.04	0.00	0.00	20.49
rs148982377	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	7	99477415	C	T	7415	0.83	0.04	0.00	0.05	402.64

rs7801492	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	7	100594494	A	G	7415	0.44	0.09	0.00	0.00	25.18
rs77476036	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	8	3503692	G	C	7415	0.24	0.05	0.00	0.00	20.06
rs11815772 1	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	8	64217805	C	A	7415	-0.20	0.04	0.00	0.00	25.34
rs7863007	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	9	90637883	A	G	7415	0.07	0.02	0.00	0.00	19.76
rs76021360	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	10	17081329	A	G	7415	-0.25	0.05	0.00	0.00	21.19
rs2071426	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	10	95068566	C	T	7415	-0.15	0.02	0.00	0.01	69.80
rs17266687	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	10	112608883	T	C	7415	0.27	0.06	0.00	0.00	19.77
rs4390274	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	10	132289369	G	T	7415	-0.08	0.02	0.00	0.00	23.13
rs61946922	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	13	30220669	C	T	7415	0.10	0.02	0.00	0.00	21.78
rs9590331	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	13	95807816	A	G	7415	-0.11	0.02	0.00	0.00	22.96
rs11617579	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	13	110548623	C	T	7415	-0.12	0.03	0.00	0.00	21.43
rs1335515	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	14	57918647	C	T	7415	-0.08	0.02	0.00	0.00	20.51
rs540765	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	15	40087676	G	A	7415	-0.08	0.02	0.00	0.00	19.66
rs4886522	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	15	77740260	G	C	7415	0.21	0.04	0.00	0.00	22.17
rs14871317 9	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	15	97747521	A	G	7415	0.31	0.07	0.00	0.00	19.80
rs55287457 8	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	16	32882331	A	G	7415	-0.58	0.13	0.00	0.00	20.55
rs7195229	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	16	79643491	T	A	7415	-0.09	0.02	0.00	0.00	23.14
rs72839420	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	17	67642316	A	G	7415	0.40	0.09	0.00	0.00	19.85

rs1893363	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	18	25710006	G	A	7415	0.12	0.03	0.00	0.00	19.71
rs7245004	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	18	53190575	A	C	7415	0.07	0.02	0.00	0.00	20.48
rs4602142	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	19	40428752	C	T	7415	-0.07	0.02	0.00	0.00	21.30
rs203541	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	20	1216299	C	G	7415	-0.08	0.02	0.00	0.00	21.42
rs13042329	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	20	2549408	A	G	7415	0.10	0.02	0.00	0.00	22.34
rs11712178 3	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	20	43039519	A	G	7415	0.19	0.04	0.00	0.00	23.79
rs465156	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	20	54065980	C	T	7415	0.08	0.02	0.00	0.00	21.92
rs11688372 6	Andro steroid monosulfate C19H28O6S (1) levels	GCST90199860	22	19908245	A	G	7415	0.32	0.07	0.00	0.00	20.28
rs2229712	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	1	26557020	C	A	8260	0.07	0.02	0.00	0.00	21.92
rs4399197	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	1	44812692	T	C	8260	0.13	0.03	0.00	0.00	21.59
rs6696464	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	1	179295940	T	C	8260	-0.06	0.01	0.00	0.00	19.91
rs60565091	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	2	24497500	C	T	8260	-0.07	0.02	0.00	0.00	20.41
rs2594950	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	2	176643894	C	G	8260	0.10	0.01	0.00	0.01	55.49
rs11506181 6	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	2	208029414	T	C	8260	-0.22	0.05	0.00	0.00	20.05
rs2055157	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	3	23208068	A	C	8260	0.08	0.02	0.00	0.00	23.86
rs15037429 7	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	5	9285583	C	T	8260	-0.26	0.06	0.00	0.00	21.61
rs10491431	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	5	35967898	A	C	8260	0.26	0.02	0.00	0.02	207.44
rs10252509	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	7	64464647	C	T	8260	-0.07	0.01	0.00	0.00	24.91

rs117731567	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	7	121877154	T	C	8260	0.19	0.04	0.00	0.00	28.03
rs150619729	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	8	6198835	A	G	8260	0.14	0.03	0.00	0.00	21.73
rs3102543	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	8	95831418	A	G	8260	-0.06	0.01	0.00	0.00	22.97
rs16914891	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	9	29498321	T	C	8260	-0.08	0.02	0.00	0.00	21.73
rs7851737	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	9	124485652	A	G	8260	-0.07	0.01	0.00	0.00	32.51
rs75360981	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	10	7238390	T	G	8260	0.10	0.02	0.00	0.00	19.87
rs140331100	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	10	60990445	T	C	8260	-0.45	0.09	0.00	0.00	24.13
rs2497318	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	10	92672243	T	C	8260	-0.08	0.01	0.00	0.00	35.31
rs149982314	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	11	128095982	T	C	8260	-0.37	0.07	0.00	0.00	29.48
rs78811636	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	12	57966801	T	G	8260	-0.16	0.03	0.00	0.00	23.06
rs73416497	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	12	111633173	A	T	8260	0.08	0.02	0.00	0.00	21.97
rs9509847	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	13	21744175	A	C	8260	-0.07	0.01	0.00	0.00	24.13
rs9543004	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	13	72562240	C	T	8260	0.08	0.01	0.00	0.00	33.57
rs77941758	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	13	97345817	G	C	8260	-0.16	0.03	0.00	0.00	20.27
rs8007280	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	14	93916616	C	G	8260	-0.08	0.02	0.00	0.00	23.08
rs78111136	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	14	106660713	A	G	8260	0.10	0.02	0.00	0.00	23.53
rs79886109	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	15	97990850	A	T	8260	-0.17	0.04	0.00	0.00	19.83
rs7102	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	16	11548386	C	T	8260	0.07	0.01	0.00	0.00	21.94

rs79388303	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	16	81539357	A	T	8260	0.14	0.03	0.00	0.00	31.48
rs4793684	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	17	47864498	A	G	8260	-0.06	0.01	0.00	0.00	20.99
rs296365	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	19	47871294	G	C	8260	0.11	0.01	0.00	0.01	59.25
rs62202438	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	20	46852275	T	C	8260	-0.12	0.03	0.00	0.00	21.73
rs13995284 9	Pregnenediol sulfate (C21H34O5S) levels	GCST90199861	21	45921224	G	A	8260	-0.41	0.08	0.00	0.00	23.58
rs12126778	4- hydroxycouma rin levels	GCST90199862	1	216761107	A	T	6944	0.08	0.02	0.00	0.00	22.39
rs79050181	4- hydroxycouma rin levels	GCST90199862	1	242181510	T	C	6944	0.23	0.05	0.00	0.00	19.97
rs1589790	4- hydroxycouma rin levels	GCST90199862	2	16695707	C	T	6944	0.10	0.02	0.00	0.00	19.61
rs2605436	4- hydroxycouma rin levels	GCST90199862	3	59758937	T	A	6944	-0.15	0.03	0.00	0.00	23.66
rs15065842 6	4- hydroxycouma rin levels	GCST90199862	3	119020170	T	C	6944	-0.43	0.08	0.00	0.00	25.83
rs57953989	4- hydroxycouma rin levels	GCST90199862	5	2370617	A	G	6944	-0.28	0.05	0.00	0.00	27.57
rs16880932	4- hydroxycouma rin levels	GCST90199862	6	88591887	A	G	6944	0.28	0.06	0.00	0.00	19.67
rs11749491 4	4- hydroxycouma rin levels	GCST90199862	6	113637815	C	T	6944	0.23	0.05	0.00	0.00	24.13
rs174987	4- hydroxycouma rin levels	GCST90199862	7	29894062	C	T	6944	-0.08	0.02	0.00	0.00	20.63
rs15126982 2	4- hydroxycouma rin levels	GCST90199862	7	126088910	T	C	6944	0.55	0.11	0.00	0.00	23.17
rs10252472	4- hydroxycouma rin levels	GCST90199862	7	141116079	A	G	6944	-0.09	0.02	0.00	0.00	19.58
rs11203633	4- hydroxycouma rin levels	GCST90199862	8	14589585	T	G	6944	-0.08	0.02	0.00	0.00	22.61
rs14113867 4	4- hydroxycouma rin levels	GCST90199862	9	453691	G	T	6944	-0.47	0.09	0.00	0.00	25.89
rs75385363	4- hydroxycouma rin levels	GCST90199862	9	27168112	G	T	6944	-0.14	0.03	0.00	0.00	21.56
rs15109132 3	4- hydroxycouma rin levels	GCST90199862	10	27801349	T	C	6944	-0.33	0.07	0.00	0.00	24.92
rs7087903	4- hydroxycouma rin levels	GCST90199862	10	69614710	C	T	6944	0.12	0.03	0.00	0.00	20.49
rs72974056	4- hydroxycouma rin levels	GCST90199862	11	97729334	G	C	6944	-0.21	0.05	0.00	0.00	19.83
rs6487886	4- hydroxycouma rin levels	GCST90199862	12	30194107	G	T	6944	-0.25	0.05	0.00	0.00	29.75

rs2167724	4-hydroxycoumarin levels	GCST90199862	15	69896334	C	T	6944	0.09	0.02	0.00	0.00	21.11
rs2672088	4-hydroxycoumarin levels	GCST90199862	15	81565837	A	G	6944	-0.11	0.02	0.00	0.00	21.32
rs11641995	4-hydroxycoumarin levels	GCST90199862	16	73754577	G	A	6944	-0.08	0.02	0.00	0.00	20.57
rs77577373	4-hydroxycoumarin levels	GCST90199862	20	17339169	A	G	6944	-0.24	0.05	0.00	0.00	21.10
rs12029116	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	1	101273476	A	G	8236	0.08	0.02	0.00	0.00	22.21
rs115397758	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	2	29740728	A	G	8236	0.34	0.07	0.00	0.00	23.69
rs190372499	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	2	134109850	G	A	8236	0.29	0.06	0.00	0.00	21.05
rs2342307	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	3	196215616	G	A	8236	-0.10	0.02	0.00	0.01	44.20
rs4703006	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	5	101726056	C	T	8236	0.08	0.02	0.00	0.00	28.15
rs17171525	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	5	137625877	A	C	8236	0.18	0.04	0.00	0.00	22.86
rs487624	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	6	25879311	A	C	8236	-0.08	0.02	0.00	0.00	28.92
rs9322313	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	6	151296185	T	C	8236	0.07	0.02	0.00	0.00	20.11
rs117156815	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	7	43824751	A	G	8236	0.18	0.04	0.00	0.00	21.06
rs17361671	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	7	75863618	A	G	8236	-0.08	0.02	0.00	0.00	21.11
rs148982377	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	7	99477415	C	T	8236	1.04	0.04	0.00	0.08	723.68
rs1987580	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	7	99972963	C	A	8236	-0.09	0.02	0.00	0.00	29.04
rs117209214	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	7	100396354	A	G	8236	0.57	0.08	0.00	0.01	45.46
rs138761606	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	8	63942485	C	T	8236	-0.31	0.06	0.00	0.00	23.85
rs74910762	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	8	80197190	A	C	8236	-0.16	0.03	0.00	0.00	24.19
rs13261522	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	8	104873181	T	A	8236	0.08	0.02	0.00	0.00	20.63
rs2810507	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	9	133915186	A	G	8236	0.25	0.05	0.00	0.00	24.04
rs10128455	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	10	95091596	C	T	8236	-0.11	0.01	0.00	0.01	51.47
rs356241	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	11	127614563	G	A	8236	0.07	0.01	0.00	0.00	20.99
rs12825645	16a-hydroxy DHEA 3-sulfate levels	GCST90199863	12	96107267	G	A	8236	0.24	0.05	0.00	0.00	20.15

rs61944202	16a-hydroxy DHEA 3- sulfate levels	GCST90199863	13	28030561	T	C	8236	0.32	0.07	0.00	0.00	19.87
rs9526196	16a-hydroxy DHEA 3- sulfate levels	GCST90199863	13	46561591	A	G	8236	0.12	0.03	0.00	0.00	21.82
rs9543004	16a-hydroxy DHEA 3- sulfate levels	GCST90199863	13	72562240	C	T	8236	0.07	0.02	0.00	0.00	20.23
rs4924416	16a-hydroxy DHEA 3- sulfate levels	GCST90199863	15	40074508	T	G	8236	0.07	0.02	0.00	0.00	22.44
rs75801074	Gamma- CEHC levels	GCST90199864	1	99322126	A	C	8258	0.26	0.06	0.00	0.00	20.17
rs14983432	Gamma- CEHC levels	GCST90199864	1	185172192	C	T	8258	0.42	0.09	0.00	0.00	21.35
rs11455433	Gamma- CEHC levels	GCST90199864	2	10925882	A	G	8258	-0.23	0.05	0.00	0.00	24.12
rs72551330	Gamma- CEHC levels	GCST90199864	2	233672032	C	T	8258	0.39	0.06	0.00	0.00	37.68
rs7616069	Gamma- CEHC levels	GCST90199864	3	72914618	G	A	8258	0.11	0.02	0.00	0.00	20.82
rs1499882	Gamma- CEHC levels	GCST90199864	3	177530850	G	T	8258	-0.20	0.04	0.00	0.00	20.36
rs14460901	Gamma- CEHC levels	GCST90199864	5	26555503	A	G	8258	0.28	0.06	0.00	0.00	19.80
rs11382945	Gamma- CEHC levels	GCST90199864	5	27119953	C	T	8258	-0.10	0.02	0.00	0.00	20.13
rs34215864	Gamma- CEHC levels	GCST90199864	5	42966265	G	C	8258	0.12	0.02	0.00	0.00	23.85
rs55368967	Gamma- CEHC levels	GCST90199864	5	54486795	G	A	8258	0.26	0.05	0.00	0.00	24.35
rs370305	Gamma- CEHC levels	GCST90199864	5	112364927	C	T	8258	-0.10	0.02	0.00	0.00	19.92
rs13863197	Gamma- CEHC levels	GCST90199864	5	153749553	T	C	8258	0.25	0.06	0.00	0.00	19.78
rs9461218	Gamma- CEHC levels	GCST90199864	6	25818527	A	G	8258	-0.09	0.02	0.00	0.00	22.99
rs2146349	Gamma- CEHC levels	GCST90199864	6	44558252	C	T	8258	0.08	0.02	0.00	0.00	21.42
rs14501342	Gamma- CEHC levels	GCST90199864	6	132937969	C	A	8258	-0.20	0.04	0.00	0.00	23.26
rs79984619	Gamma- CEHC levels	GCST90199864	6	153155883	T	G	8258	-0.24	0.05	0.00	0.00	27.45
rs4709725	Gamma- CEHC levels	GCST90199864	6	163587376	T	C	8258	0.09	0.02	0.00	0.00	28.12
rs10479815	Gamma- CEHC levels	GCST90199864	7	28322677	A	G	8258	-0.07	0.02	0.00	0.00	21.83
rs14233772	Gamma- CEHC levels	GCST90199864	8	121796998	T	G	8258	-0.29	0.06	0.00	0.00	21.72
rs877115	Gamma- CEHC levels	GCST90199864	10	110345048	A	G	8258	0.08	0.02	0.00	0.00	21.40
rs11179971	Gamma- CEHC levels	GCST90199864	11	25477831	G	A	8258	-0.45	0.10	0.00	0.00	21.46
rs1149598	Gamma- CEHC levels	GCST90199864	11	76760585	T	C	8258	0.14	0.03	0.00	0.00	20.36
rs7971846	Gamma- CEHC levels	GCST90199864	12	9937496	T	C	8258	0.12	0.03	0.00	0.00	22.24
rs7967732	Gamma- CEHC levels	GCST90199864	12	115009666	C	T	8258	-0.14	0.03	0.00	0.00	20.38
rs7485656	Gamma- CEHC levels	GCST90199864	12	124831101	G	A	8258	0.11	0.02	0.00	0.00	24.99
rs279939	Gamma- CEHC levels	GCST90199864	13	103048516	C	G	8258	0.09	0.02	0.00	0.00	21.89
rs959197	Gamma- CEHC levels	GCST90199864	14	29226152	G	A	8258	0.07	0.02	0.00	0.00	21.02
rs28399223	Gamma- CEHC levels	GCST90199864	15	55813583	T	C	8258	0.17	0.04	0.00	0.00	21.24
rs62004225	Gamma- CEHC levels	GCST90199864	15	62239996	C	T	8258	-0.15	0.03	0.00	0.00	21.88
rs11278547	Gamma- CEHC levels	GCST90199864	17	8489269	T	C	8258	0.14	0.03	0.00	0.00	22.07
rs8065933	Gamma- CEHC levels	GCST90199864	17	73330291	A	G	8258	0.08	0.02	0.00	0.00	23.56

rs7226894	Gamma-CEHC levels	GCST90199864	18	28281730	G	C	8258	-0.07	0.02	0.00	0.00	22.39
rs9807638	Gamma-CEHC levels	GCST90199864	18	59939466	G	A	8258	-0.08	0.02	0.00	0.00	20.12
rs2108622	Gamma-CEHC levels	GCST90199864	19	15879621	T	C	8258	-0.30	0.02	0.00	0.04	340.25
rs6044876	Gamma-CEHC levels	GCST90199864	20	1826415	A	C	8258	-0.12	0.03	0.00	0.00	21.36
rs6132756	Gamma-CEHC levels	GCST90199864	20	2537107	C	G	8258	0.07	0.02	0.00	0.00	22.29
rs117316358	Gamma-CEHC levels	GCST90199864	21	21949135	C	A	8258	-0.20	0.04	0.00	0.00	19.94
rs11681040	hydroxyglutarate levels	GCST90199865	2	203687247	T	C	7769	0.12	0.03	0.00	0.00	21.86
rs6707874	hydroxyglutarate levels	GCST90199865	2	241769948	G	A	7769	0.10	0.02	0.00	0.00	38.54
rs690023	hydroxyglutarate levels	GCST90199865	3	16344847	A	G	7769	-0.07	0.02	0.00	0.00	20.56
rs146025798	hydroxyglutarate levels	GCST90199865	3	27744510	T	A	7769	0.19	0.04	0.00	0.00	20.40
rs264549	hydroxyglutarate levels	GCST90199865	3	76712000	G	A	7769	0.08	0.02	0.00	0.00	23.35
rs1113681	hydroxyglutarate levels	GCST90199865	4	14506603	A	T	7769	0.08	0.02	0.00	0.00	19.53
rs282405	hydroxyglutarate levels	GCST90199865	5	73916027	T	A	7769	0.12	0.03	0.00	0.00	21.04
rs2695976	hydroxyglutarate levels	GCST90199865	5	166239052	T	C	7769	-0.09	0.02	0.00	0.00	22.86
rs6872201	hydroxyglutarate levels	GCST90199865	5	177293765	G	A	7769	-0.07	0.02	0.00	0.00	19.60
rs9482183	hydroxyglutarate levels	GCST90199865	6	121626244	A	G	7769	-0.08	0.02	0.00	0.00	21.01
rs191179081	hydroxyglutarate levels	GCST90199865	8	5615924	T	C	7769	-0.39	0.09	0.00	0.00	20.83
rs118106261	hydroxyglutarate levels	GCST90199865	8	33945169	A	G	7769	0.20	0.04	0.00	0.00	20.64
rs111851357	hydroxyglutarate levels	GCST90199865	9	19051442	A	T	7769	-0.20	0.04	0.00	0.00	21.29
rs78090863	hydroxyglutarate levels	GCST90199865	10	81260679	T	G	7769	-0.30	0.06	0.00	0.00	20.94
rs113824710	hydroxyglutarate levels	GCST90199865	11	11549225	G	A	7769	0.36	0.07	0.00	0.00	24.46
rs17400516	hydroxyglutarate levels	GCST90199865	13	103806458	A	G	7769	0.28	0.06	0.00	0.00	19.68
rs12432673	hydroxyglutarate levels	GCST90199865	14	50265324	A	G	7769	0.07	0.02	0.00	0.00	20.75
rs4900072	hydroxyglutarate levels	GCST90199865	14	91170188	T	C	7769	0.14	0.02	0.00	0.01	66.88
rs58087925	hydroxyglutarate levels	GCST90199865	14	105516759	T	C	7769	0.09	0.02	0.00	0.00	21.76
rs2928704	hydroxyglutarate levels	GCST90199865	15	26474818	T	C	7769	-0.13	0.03	0.00	0.00	20.44

rs4627290	2-hydroxyglutarate levels	GCST90199865	15	92222340	G	A	7769	0.07	0.02	0.00	0.00	19.62
rs8045800	2-hydroxyglutarate levels	GCST90199865	16	20425371	A	T	7769	0.09	0.02	0.00	0.00	26.77
rs215896	2-hydroxyglutarate levels	GCST90199865	16	21667465	C	T	7769	-0.08	0.02	0.00	0.00	19.72
rs74814791	2-hydroxyglutarate levels	GCST90199865	16	31752823	C	T	7769	-0.20	0.05	0.00	0.00	19.78
rs141672934	2-hydroxyglutarate levels	GCST90199865	17	16451998	T	C	7769	-0.10	0.02	0.00	0.00	21.51
rs545763129	2-hydroxyglutarate levels	GCST90199865	17	32127826	C	T	7769	0.43	0.09	0.00	0.00	22.75
rs9898470	2-hydroxyglutarate levels	GCST90199865	17	80377568	G	A	7769	-0.17	0.04	0.00	0.00	21.48
rs62107106	2-hydroxyglutarate levels	GCST90199865	19	29775799	A	G	7769	0.08	0.02	0.00	0.00	20.14
rs6117068	2-hydroxyglutarate levels	GCST90199865	20	6077563	C	T	7769	-0.09	0.02	0.00	0.00	19.96
rs3737678	N-acetyl-beta-alanine levels	GCST90199866	1	87339660	A	T	8231	-0.28	0.06	0.00	0.00	23.26
rs11586962	N-acetyl-beta-alanine levels	GCST90199866	1	244024853	T	C	8231	0.09	0.02	0.00	0.00	19.58
rs77595635	N-acetyl-beta-alanine levels	GCST90199866	2	64995712	A	G	8231	0.16	0.03	0.00	0.00	20.70
rs111435770	N-acetyl-beta-alanine levels	GCST90199866	3	9286692	C	T	8231	1.09	0.25	0.00	0.00	19.68
rs62267025	N-acetyl-beta-alanine levels	GCST90199866	3	87676982	C	T	8231	-0.30	0.07	0.00	0.00	20.29
rs78531225	N-acetyl-beta-alanine levels	GCST90199866	4	21000777	T	C	8231	0.12	0.03	0.00	0.00	19.85
rs145604263	N-acetyl-beta-alanine levels	GCST90199866	4	72556681	A	G	8231	-0.29	0.06	0.00	0.00	21.89
rs35564002	N-acetyl-beta-alanine levels	GCST90199866	4	113059651	T	C	8231	-0.32	0.06	0.00	0.00	25.43
rs192269900	N-acetyl-beta-alanine levels	GCST90199866	5	129537452	C	T	8231	0.41	0.09	0.00	0.00	20.98
rs55939419	N-acetyl-beta-alanine levels	GCST90199866	6	68119681	T	A	8231	-0.15	0.03	0.00	0.00	20.80
rs422751	N-acetyl-beta-alanine levels	GCST90199866	6	89198154	A	G	8231	-0.09	0.02	0.00	0.00	20.09
rs12198601	N-acetyl-beta-alanine levels	GCST90199866	6	115791130	T	G	8231	-0.12	0.03	0.00	0.00	21.75
rs79598335	N-acetyl-beta-alanine levels	GCST90199866	6	165822186	G	A	8231	-0.25	0.05	0.00	0.00	25.54
rs7013489	N-acetyl-beta-alanine levels	GCST90199866	8	37039162	T	C	8231	-0.17	0.04	0.00	0.00	22.26
rs117153732	N-acetyl-beta-alanine levels	GCST90199866	8	50896480	G	A	8231	-0.30	0.07	0.00	0.00	19.80
rs6985031	N-acetyl-beta-alanine levels	GCST90199866	8	129538391	C	T	8231	0.07	0.02	0.00	0.00	20.52
rs148368268	N-acetyl-beta-alanine levels	GCST90199866	9	7233040	G	T	8231	-1.38	0.29	0.00	0.00	23.30
rs35285458	N-acetyl-beta-alanine levels	GCST90199866	9	20205754	T	C	8231	0.25	0.06	0.00	0.00	20.22
rs35715362	N-acetyl-beta-alanine levels	GCST90199866	9	76792432	C	T	8231	0.08	0.02	0.00	0.00	21.33
rs1873166	N-acetyl-beta-alanine levels	GCST90199866	10	16430205	G	C	8231	-0.19	0.01	0.00	0.02	162.38
rs1055338	N-acetyl-beta-alanine levels	GCST90199866	10	16513465	C	T	8231	-0.37	0.03	0.00	0.02	186.65
rs12221081	N-acetyl-beta-alanine levels	GCST90199866	10	16578885	A	G	8231	-0.09	0.02	0.00	0.00	25.16
rs12275050	N-acetyl-beta-alanine levels	GCST90199866	11	75032713	T	G	8231	0.17	0.04	0.00	0.00	21.06

rs76352627	N-acetyl-beta-alanine levels	GCST90199866	11	124692761	T	C	8231	0.33	0.06	0.00	0.00	27.55
rs76250070	N-acetyl-beta-alanine levels	GCST90199866	12	63252762	G	T	8231	0.21	0.05	0.00	0.00	19.97
rs844515	N-acetyl-beta-alanine levels	GCST90199866	12	128935199	C	A	8231	0.08	0.02	0.00	0.00	21.27
rs74342550	N-acetyl-beta-alanine levels	GCST90199866	14	49264278	A	G	8231	0.16	0.04	0.00	0.00	19.63
rs8047386	N-acetyl-beta-alanine levels	GCST90199866	16	82658369	G	C	8231	0.09	0.02	0.00	0.00	21.59
rs2967848	N-acetyl-beta-alanine levels	GCST90199866	16	84582440	A	G	8231	0.07	0.02	0.00	0.00	22.22
rs18748089 2	Tridecenedioate (C13:1-DC) levels	GCST90199867	1	75197642	T	G	8231	-0.33	0.07	0.00	0.00	19.79
rs561634	Tridecenedioate (C13:1-DC) levels	GCST90199867	1	177926628	T	A	8231	-0.07	0.02	0.00	0.00	22.96
rs75120308	Tridecenedioate (C13:1-DC) levels	GCST90199867	2	11813172	A	G	8231	0.21	0.05	0.00	0.00	20.26
rs79257862	Tridecenedioate (C13:1-DC) levels	GCST90199867	2	29728473	A	G	8231	0.21	0.04	0.00	0.00	21.87
rs2171035	Tridecenedioate (C13:1-DC) levels	GCST90199867	3	142283944	T	C	8231	0.07	0.02	0.00	0.00	20.23
rs76498162	Tridecenedioate (C13:1-DC) levels	GCST90199867	4	172296122	G	C	8231	-0.19	0.04	0.00	0.00	20.29
rs16871130	Tridecenedioate (C13:1-DC) levels	GCST90199867	5	3127161	T	C	8231	0.07	0.02	0.00	0.00	19.61
rs11439408 6	Tridecenedioate (C13:1-DC) levels	GCST90199867	5	33187061	C	T	8231	-0.20	0.05	0.00	0.00	19.64
rs72775276	Tridecenedioate (C13:1-DC) levels	GCST90199867	5	92142108	T	C	8231	0.15	0.03	0.00	0.00	20.32
rs526553	Tridecenedioate (C13:1-DC) levels	GCST90199867	6	52393058	C	G	8231	0.08	0.02	0.00	0.00	21.71
rs17504230	Tridecenedioate (C13:1-DC) levels	GCST90199867	6	158492220	G	A	8231	-0.12	0.02	0.00	0.00	26.21
rs14058126 5	Tridecenedioate (C13:1-DC) levels	GCST90199867	7	50791914	C	G	8231	0.39	0.09	0.00	0.00	20.03
rs55142952 4	Tridecenedioate (C13:1-DC) levels	GCST90199867	10	114355258	C	T	8231	0.27	0.06	0.00	0.00	22.86
rs7122025	Tridecenedioate (C13:1-DC) levels	GCST90199867	11	1795607	C	G	8231	0.08	0.02	0.00	0.00	22.66
rs7943838	Tridecenedioate (C13:1-DC) levels	GCST90199867	11	97615665	T	C	8231	-0.09	0.02	0.00	0.00	25.91
rs55675450	Tridecenedioate (C13:1-DC) levels	GCST90199867	11	114288907	A	G	8231	0.10	0.02	0.00	0.00	21.58
rs18567785 6	Tridecenedioate (C13:1-DC) levels	GCST90199867	12	31990070	A	G	8231	-0.36	0.08	0.00	0.00	21.15
rs73138093	Tridecenedioate (C13:1-DC) levels	GCST90199867	12	77829870	C	T	8231	0.12	0.03	0.00	0.00	21.14
rs4580076	Tridecenedioate (C13:1-DC) levels	GCST90199867	14	48562731	G	A	8231	-0.07	0.02	0.00	0.00	20.31
rs8041483	Tridecenedioate (C13:1-DC) levels	GCST90199867	15	50173024	G	A	8231	0.13	0.02	0.00	0.01	68.47

rs72765248	Tridecenedioate (C13:1-DC) levels	GCST90199867	15	97495162	T	G	8231	0.10	0.02	0.00	0.00	20.51
rs12603517	Tridecenedioate (C13:1-DC) levels	GCST90199867	17	1035013	T	C	8231	0.20	0.04	0.00	0.00	24.02
rs143694286	Tridecenedioate (C13:1-DC) levels	GCST90199867	17	35195690	G	C	8231	0.14	0.03	0.00	0.00	21.12
rs12608402	Tridecenedioate (C13:1-DC) levels	GCST90199867	18	13369149	A	G	8231	-0.07	0.02	0.00	0.00	20.07
rs117441042	Tridecenedioate (C13:1-DC) levels	GCST90199867	18	20968464	A	G	8231	-0.36	0.08	0.00	0.00	20.96
rs11660516	Tridecenedioate (C13:1-DC) levels	GCST90199867	18	61583613	A	G	8231	-0.24	0.05	0.00	0.00	26.62
rs7516441	N-acetyl-3-methylhistidine levels	GCST90199868	1	59674575	A	G	7018	0.12	0.03	0.00	0.00	21.53
rs6546869	N-acetyl-3-methylhistidine levels	GCST90199868	2	73668638	A	G	7018	0.42	0.02	0.00	0.06	479.81
rs11927251	N-acetyl-3-methylhistidine levels	GCST90199868	3	113125156	A	G	7018	0.29	0.06	0.00	0.00	21.26
rs114314338	N-acetyl-3-methylhistidine levels	GCST90199868	3	136962479	T	C	7018	0.33	0.07	0.00	0.00	21.35
rs116366069	N-acetyl-3-methylhistidine levels	GCST90199868	3	172616814	C	T	7018	-0.27	0.06	0.00	0.00	21.17
rs4916565	N-acetyl-3-methylhistidine levels	GCST90199868	3	196866918	A	G	7018	0.09	0.02	0.00	0.00	21.67
rs74908861	N-acetyl-3-methylhistidine levels	GCST90199868	4	34968775	T	A	7018	-0.32	0.07	0.00	0.00	21.23
rs34887234	N-acetyl-3-methylhistidine levels	GCST90199868	5	34480130	A	G	7018	-0.10	0.02	0.00	0.00	22.50
rs62364220	N-acetyl-3-methylhistidine levels	GCST90199868	5	84073193	G	A	7018	0.09	0.02	0.00	0.00	21.35
rs72800476	N-acetyl-3-methylhistidine levels	GCST90199868	5	115736205	A	G	7018	0.34	0.07	0.00	0.00	20.93
rs4272212	N-acetyl-3-methylhistidine levels	GCST90199868	6	42012379	G	A	7018	0.26	0.06	0.00	0.00	19.82
rs71570647	N-acetyl-3-methylhistidine levels	GCST90199868	6	63482027	A	T	7018	0.22	0.05	0.00	0.00	22.68
rs58437368	N-acetyl-3-methylhistidine levels	GCST90199868	7	4146976	T	C	7018	-0.32	0.07	0.00	0.00	19.61
rs62439688	N-acetyl-3-methylhistidine levels	GCST90199868	7	21373144	G	T	7018	0.09	0.02	0.00	0.00	20.80
rs112927051	N-acetyl-3-methylhistidine levels	GCST90199868	7	46634962	T	C	7018	-0.21	0.04	0.00	0.00	24.50
rs61731322	N-acetyl-3-methylhistidine levels	GCST90199868	7	101180348	G	C	7018	0.19	0.04	0.00	0.00	22.96
rs61731321	N-acetyl-3-methylhistidine levels	GCST90199868	7	101182225	T	G	7018	-0.20	0.03	0.00	0.01	36.00
rs75789036	N-acetyl-3-methylhistidine levels	GCST90199868	8	51201458	T	C	7018	-0.24	0.05	0.00	0.00	21.43

rs2514032	N-acetyl-3-methylhistidine levels	GCST90199868	11	67643949	T	C	7018	-0.12	0.02	0.00	0.00	28.90
rs995762	N-acetyl-3-methylhistidine levels	GCST90199868	15	94108825	C	T	7018	0.13	0.03	0.00	0.00	21.38
rs62095872	N-acetyl-3-methylhistidine levels	GCST90199868	18	67115783	G	A	7018	0.29	0.06	0.00	0.00	20.67
rs34464599	N-acetyl-3-methylhistidine levels	GCST90199868	20	56718103	T	C	7018	-0.13	0.03	0.00	0.00	19.90
rs11701297	N-acetyl-3-methylhistidine levels	GCST90199868	21	23463401	T	C	7018	-0.10	0.02	0.00	0.00	20.46
rs116906519	N-acetyl-3-methylhistidine levels	GCST90199868	21	37418820	A	G	7018	-0.25	0.05	0.00	0.00	22.88
rs61777887	hydroxyhippurate levels	GCST90199869	1	1531630	C	T	8241	0.25	0.05	0.00	0.00	21.99
rs61775225	hydroxyhippurate levels	GCST90199869	1	54187618	T	C	8241	-0.11	0.03	0.00	0.00	19.52
rs73977802	hydroxyhippurate levels	GCST90199869	2	182836076	T	C	8241	0.09	0.02	0.00	0.00	20.82
rs147339316	hydroxyhippurate levels	GCST90199869	3	10695400	C	G	8241	0.31	0.07	0.00	0.00	23.08
rs73075635	hydroxyhippurate levels	GCST90199869	3	46984611	A	G	8241	-0.30	0.06	0.00	0.00	23.10
rs11926928	hydroxyhippurate levels	GCST90199869	3	132282523	G	A	8241	0.08	0.02	0.00	0.00	20.38
rs55782812	hydroxyhippurate levels	GCST90199869	4	21909533	C	T	8241	-0.08	0.02	0.00	0.00	23.20
rs2844698	hydroxyhippurate levels	GCST90199869	6	30963468	T	C	8241	0.07	0.02	0.00	0.00	20.27
rs4731772	hydroxyhippurate levels	GCST90199869	7	131247633	G	A	8241	0.12	0.03	0.00	0.00	19.65
rs4078189	hydroxyhippurate levels	GCST90199869	8	10975979	C	A	8241	-0.07	0.02	0.00	0.00	19.71
rs59465288	hydroxyhippurate levels	GCST90199869	8	32258632	C	T	8241	-0.33	0.07	0.00	0.00	23.27
rs58331764	hydroxyhippurate levels	GCST90199869	9	101969494	G	A	8241	0.21	0.04	0.00	0.00	22.67
rs76412917	hydroxyhippurate levels	GCST90199869	10	83158210	T	C	8241	0.23	0.05	0.00	0.00	19.71
rs11067096	hydroxyhippurate levels	GCST90199869	12	114384914	C	T	8241	0.21	0.05	0.00	0.00	20.41
rs34947582	hydroxyhippurate levels	GCST90199869	15	39285620	A	C	8241	-0.13	0.03	0.00	0.00	25.56
rs36122190	hydroxyhippurate levels	GCST90199869	15	40479619	A	T	8241	0.08	0.02	0.00	0.00	21.72
rs8062344	hydroxyhippurate levels	GCST90199869	16	20429731	G	C	8241	0.08	0.02	0.00	0.00	22.39
rs73527994	hydroxyhippurate levels	GCST90199869	16	26811073	T	C	8241	-0.08	0.02	0.00	0.00	22.14

rs149759219	2-hydroxyhippurate levels	GCST90199869	17	49022433	A	G	8241	-0.40	0.09	0.00	0.00	21.40
rs10410885	2-hydroxyhippurate levels	GCST90199869	19	10032406	A	G	8241	0.24	0.05	0.00	0.00	22.47
rs13303289	4-cholesten-3-one levels	GCST90199870	1	2054074	G	C	6990	-0.11	0.02	0.00	0.00	22.34
rs17277008	4-cholesten-3-one levels	GCST90199870	1	172136022	C	T	6990	0.09	0.02	0.00	0.00	22.36
rs1170914	4-cholesten-3-one levels	GCST90199870	1	190646848	C	G	6990	-0.08	0.02	0.00	0.00	21.06
rs2015396	4-cholesten-3-one levels	GCST90199870	3	111924950	C	T	6990	0.08	0.02	0.00	0.00	24.19
rs114105067	4-cholesten-3-one levels	GCST90199870	3	197061775	G	A	6990	-0.42	0.09	0.00	0.00	22.68
rs571550	4-cholesten-3-one levels	GCST90199870	5	6632796	A	G	6990	-0.11	0.02	0.00	0.01	43.85
rs533834	4-cholesten-3-one levels	GCST90199870	5	21659988	G	A	6990	-0.10	0.02	0.00	0.00	19.68
rs7454474	4-cholesten-3-one levels	GCST90199870	6	162468943	A	C	6990	-0.08	0.02	0.00	0.00	21.21
rs7778907	4-cholesten-3-one levels	GCST90199870	7	12053697	T	C	6990	-0.08	0.02	0.00	0.00	21.24
rs10244501	4-cholesten-3-one levels	GCST90199870	7	41352852	C	T	6990	-0.11	0.02	0.00	0.00	24.94
rs142989216	4-cholesten-3-one levels	GCST90199870	7	91207146	C	T	6990	-0.27	0.06	0.00	0.00	20.42
rs72681458	4-cholesten-3-one levels	GCST90199870	8	100800274	T	C	6990	-0.29	0.06	0.00	0.00	19.59
rs75982836	4-cholesten-3-one levels	GCST90199870	9	83069373	G	C	6990	-0.16	0.03	0.00	0.00	21.14
rs11103033	4-cholesten-3-one levels	GCST90199870	9	135465539	T	C	6990	0.08	0.02	0.00	0.00	20.20
rs28623342	4-cholesten-3-one levels	GCST90199870	10	123861016	G	A	6990	0.08	0.02	0.00	0.00	20.25
rs11219109	4-cholesten-3-one levels	GCST90199870	11	123307989	A	C	6990	-0.08	0.02	0.00	0.00	21.20
rs118128425	4-cholesten-3-one levels	GCST90199870	15	53094394	A	C	6990	-0.41	0.09	0.00	0.00	20.39
rs8062719	4-cholesten-3-one levels	GCST90199870	16	30991343	G	A	6990	-0.11	0.02	0.00	0.01	36.55
rs113495233	4-cholesten-3-one levels	GCST90199870	16	31055478	A	G	6990	-0.60	0.12	0.00	0.00	23.31
rs11861996	4-cholesten-3-one levels	GCST90199870	16	90038873	G	C	6990	0.11	0.02	0.00	0.00	19.95
rs117215340	4-cholesten-3-one levels	GCST90199870	18	54042717	T	C	6990	-0.17	0.04	0.00	0.00	19.83
rs7238113	4-cholesten-3-one levels	GCST90199870	18	61611238	C	T	6990	-0.13	0.03	0.00	0.00	21.79
rs73460158	4-cholesten-3-one levels	GCST90199870	18	71640298	A	G	6990	0.12	0.03	0.00	0.00	21.14
rs73148152	4-cholesten-3-one levels	GCST90199870	20	54818397	A	T	6990	-0.12	0.02	0.00	0.00	24.38
rs6142704	4-cholesten-3-one levels	GCST90199870	20	61436257	T	A	6990	-0.38	0.08	0.00	0.00	20.63
rs139826126	4-cholesten-3-one levels	GCST90199870	21	31927080	A	G	6990	0.23	0.05	0.00	0.00	21.60
rs4952188	Androstenediol (3beta,17beta) monosulfate	GCST90199871	2	30862861	C	T	7811	-0.07	0.02	0.00	0.00	23.06
rs36129872	Androstenediol (3beta,17beta) monosulfate	GCST90199871	2	109497131	G	A	7811	0.07	0.02	0.00	0.00	23.19
rs11130379	Androstenediol (3beta,17beta) monosulfate	GCST90199871	3	5384638	G	C	7811	0.11	0.02	0.00	0.00	21.04
rs76039768	Androstenediol (3beta,17beta) monosulfate	GCST90199871	3	59851945	C	A	7811	-0.08	0.02	0.00	0.00	21.45

rs2342307	Androstenedio l (3beta,17beta) monosulfate Androstenedio	GCST90199871	3	196215616	G	A	7811	-0.09	0.02	0.00	0.00	30.51
rs145716227	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	5	9280569	T	C	7811	-0.34	0.08	0.00	0.00	20.39
rs1165200	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	6	25874984	A	G	7811	0.11	0.02	0.00	0.01	39.47
rs73263095	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	7	1125126	G	C	7811	0.32	0.07	0.00	0.00	19.94
rs148982377	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	7	99477415	C	T	7811	-0.35	0.04	0.00	0.01	71.85
rs7843320	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	8	23130324	T	C	7811	0.09	0.02	0.00	0.00	23.78
rs118127261	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	8	40121854	A	G	7811	-0.33	0.07	0.00	0.00	20.25
rs77987064	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	8	58236358	T	C	7811	0.16	0.04	0.00	0.00	20.33
rs28808349	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	8	124903634	C	T	7811	0.15	0.03	0.00	0.00	20.94
rs2125839	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	10	59309451	T	C	7811	0.07	0.02	0.00	0.00	21.40
rs35203700	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	10	95231875	A	G	7811	-0.12	0.02	0.00	0.00	24.48
rs12775431	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	10	102852007	C	A	7811	-0.08	0.02	0.00	0.00	21.61
rs118155370	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	11	64507811	T	C	7811	-0.22	0.04	0.00	0.00	23.81
rs73079476	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	12	21190899	C	A	7811	-0.12	0.02	0.00	0.00	32.36
rs73235078	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	12	96533859	C	A	7811	0.19	0.04	0.00	0.00	20.02
rs1556644	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	13	22322677	A	G	7811	-0.09	0.02	0.00	0.00	20.19
rs12859952	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	13	25807041	G	A	7811	-0.08	0.02	0.00	0.00	22.07
rs77425442	l (3beta,17beta) monosulfate	GCST90199871	13	113396935	A	G	7811	0.23	0.05	0.00	0.00	21.24

rs55764900	Androstenedio l (3beta,17beta) monosulfate Androstenedio	GCST90199871	14	31863752	G	A	7811	-0.10	0.02	0.00	0.00	21.90
rs6497249	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	15	27875567	G	C	7811	0.07	0.02	0.00	0.00	20.03
rs10863168	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	16	86783634	C	A	7811	-0.08	0.02	0.00	0.00	21.05
rs186056728	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	18	221643	G	C	7811	-0.21	0.04	0.00	0.00	24.39
rs73035100	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	19	33460360	T	C	7811	0.26	0.06	0.00	0.00	19.73
rs6021297	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	20	51578914	T	C	7811	0.15	0.03	0.00	0.00	19.67
rs78438321	l (3beta,17beta) monosulfate Androstenedio	GCST90199871	22	47841738	T	C	7811	-0.27	0.06	0.00	0.00	22.03
rs75561083	l (3beta,17beta) monosulfate Androstenedio	GCST90199872	1	18620603	T	C	8229	0.26	0.05	0.00	0.00	21.58
rs141370991	l (3beta,17beta) monosulfate Androstenedio	GCST90199872	1	95564733	T	C	8229	-0.23	0.05	0.00	0.00	22.57
rs12038241	l (3beta,17beta) monosulfate Androstenedio	GCST90199872	1	119404375	G	A	8229	-0.06	0.01	0.00	0.00	20.52
rs55677910	l (3beta,17beta) monosulfate Androstenedio	GCST90199872	2	101024573	G	A	8229	-0.09	0.02	0.00	0.00	21.77
rs146747578	l (3beta,17beta) monosulfate Androstenedio	GCST90199872	2	135987192	C	G	8229	-0.29	0.07	0.00	0.00	19.58
rs534538291	l (3beta,17beta) monosulfate Androstenedio	GCST90199872	2	178483341	T	A	8229	-0.29	0.06	0.00	0.00	21.87
rs7675318	l (3beta,17beta) monosulfate Androstenedio	GCST90199872	4	19737209	T	C	8229	0.08	0.02	0.00	0.00	21.17
rs7687817	l (3beta,17beta) monosulfate Androstenedio	GCST90199872	4	109052965	T	C	8229	-0.11	0.02	0.00	0.00	20.71
rs72729813	l (3beta,17beta) monosulfate Androstenedio	GCST90199872	4	146307563	C	G	8229	-0.13	0.03	0.00	0.00	20.15
rs784420	l (3beta,17beta) monosulfate Androstenedio	GCST90199872	5	78691701	G	A	8229	0.07	0.01	0.00	0.00	19.77
rs75107956	l (3beta,17beta) monosulfate	GCST90199872	5	123379036	C	A	8229	0.16	0.04	0.00	0.00	19.73

rs147871557	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	6	64416869	G	A	8229	0.32	0.07	0.00	0.00	19.89
rs148982377	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	7	99477415	C	T	8229	-0.38	0.04	0.00	0.01	106.12
rs9407758	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	9	16349510	A	C	8229	-0.07	0.01	0.00	0.00	22.05
rs528454	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	9	90582255	T	A	8229	-0.06	0.01	0.00	0.00	21.49
rs7086721	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	10	3120876	C	T	8229	0.07	0.02	0.00	0.00	19.58
rs9420589	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	10	92690476	T	G	8229	-0.06	0.01	0.00	0.00	21.62
rs12775431	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	10	102852007	C	A	8229	-0.08	0.02	0.00	0.00	23.80
rs191866531	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	11	99965551	A	G	8229	0.42	0.07	0.00	0.00	31.49
rs677027	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	11	119978680	A	G	8229	-0.06	0.01	0.00	0.00	20.61
rs149982314	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	11	128095982	T	C	8229	-0.32	0.07	0.00	0.00	20.60
rs1871395	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	12	21199381	G	A	8229	0.11	0.02	0.00	0.00	37.00
rs144814135	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	12	49156161	A	G	8229	-0.25	0.05	0.00	0.00	21.73
rs706795	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	12	49903887	C	T	8229	0.06	0.01	0.00	0.00	21.16
rs11174150	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	12	61740420	T	C	8229	0.07	0.01	0.00	0.00	20.60
rs955783	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	13	21724936	T	A	8229	0.07	0.01	0.00	0.00	22.30
rs142274824	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	13	34569398	T	C	8229	-0.33	0.07	0.00	0.00	19.56
rs111936578	I (3beta,17beta) monosulfate Androstenedio	GCST90199872	13	91326735	C	T	8229	-0.22	0.05	0.00	0.00	20.07
rs55764900	I (3beta,17beta) monosulfate	GCST90199872	14	31863752	G	A	8229	-0.09	0.02	0.00	0.00	22.28

rs7173332	Androstenedio l (3beta,17beta) monosulfate	GCST90199872	15	84978503	C	G	8229	-0.09	0.02	0.00	0.00	21.77
rs1467067	Androstenedio l (3beta,17beta) monosulfate	GCST90199872	16	78970586	C	A	8229	0.07	0.01	0.00	0.00	21.71
rs76294479	Androstenedio l (3beta,17beta) monosulfate	GCST90199872	16	81547979	T	C	8229	0.14	0.03	0.00	0.00	28.85
rs28524991	Androstenedio l (3beta,17beta) monosulfate	GCST90199872	16	86142630	A	T	8229	-0.19	0.04	0.00	0.00	21.63
rs78438321	Androstenedio l (3beta,17beta) monosulfate	GCST90199872	22	47841738	T	C	8229	-0.27	0.05	0.00	0.00	25.24
rs4399197	Pregnenolone sulfate levels	GCST90199873	1	44812692	T	C	7772	0.15	0.03	0.00	0.00	23.44
rs6663401	Pregnenolone sulfate levels	GCST90199873	1	218057440	A	G	7772	-0.17	0.04	0.00	0.00	19.75
rs28417093	Pregnenolone sulfate levels	GCST90199873	1	241944591	C	A	7772	0.07	0.02	0.00	0.00	22.03
rs11533575 4	Pregnenolone sulfate levels	GCST90199873	2	77506225	G	A	7772	-0.28	0.06	0.00	0.00	20.02
rs6740315	Pregnenolone sulfate levels	GCST90199873	2	176655378	C	T	7772	-0.09	0.02	0.00	0.00	33.67
rs73068993	Pregnenolone sulfate levels	GCST90199873	2	195403146	T	C	7772	0.13	0.03	0.00	0.00	20.35
rs61759670	Pregnenolone sulfate levels	GCST90199873	4	47603488	A	G	7772	0.26	0.05	0.00	0.00	25.07
rs14276750 7	Pregnenolone sulfate levels	GCST90199873	4	95342246	A	G	7772	-0.36	0.08	0.00	0.00	20.65
rs11645880 9	Pregnenolone sulfate levels	GCST90199873	4	109282937	C	T	7772	-0.17	0.04	0.00	0.00	22.13
rs10491431	Pregnenolone sulfate levels	GCST90199873	5	35967898	A	C	7772	0.17	0.02	0.00	0.01	71.44
rs2547002	Pregnenolone sulfate levels	GCST90199873	5	145225668	A	C	7772	0.07	0.01	0.00	0.00	19.56
rs61749071	Pregnenolone sulfate levels	GCST90199873	6	4891847	T	C	7772	-0.21	0.04	0.00	0.00	26.38
rs7738921	Pregnenolone sulfate levels	GCST90199873	6	158721845	C	G	7772	-0.08	0.02	0.00	0.00	26.32
rs11696173 2	Pregnenolone sulfate levels	GCST90199873	7	1332943	A	G	7772	-0.31	0.07	0.00	0.00	19.90
rs11794386 7	Pregnenolone sulfate levels	GCST90199873	7	40615944	G	A	7772	-0.25	0.06	0.00	0.00	20.22
rs11773156 7	Pregnenolone sulfate levels	GCST90199873	7	121877154	T	C	7772	0.18	0.04	0.00	0.00	20.06
rs3102547	Pregnenolone sulfate levels	GCST90199873	8	95819710	A	G	7772	-0.08	0.01	0.00	0.00	30.75
rs10757690	Pregnenolone sulfate levels	GCST90199873	9	27843918	C	G	7772	-0.07	0.02	0.00	0.00	20.93
rs9423388	Pregnenolone sulfate levels	GCST90199873	10	5237994	G	C	7772	-0.08	0.02	0.00	0.00	22.62
rs75360981	Pregnenolone sulfate levels	GCST90199873	10	7238390	T	G	7772	0.12	0.03	0.00	0.00	23.85
rs14033110 0	Pregnenolone sulfate levels	GCST90199873	10	60990445	T	C	7772	-0.59	0.10	0.00	0.00	34.22
rs4933729	Pregnenolone sulfate levels	GCST90199873	10	92563265	A	C	7772	0.07	0.02	0.00	0.00	21.02
rs78320625	Pregnenolone sulfate levels	GCST90199873	11	85673427	G	A	7772	0.11	0.03	0.00	0.00	20.22
rs4762697	Pregnenolone sulfate levels	GCST90199873	12	21162039	T	A	7772	0.09	0.02	0.00	0.00	31.75
rs4149056	Pregnenolone sulfate levels	GCST90199873	12	21178615	C	T	7772	0.21	0.02	0.00	0.01	108.45
rs4882650	Pregnenolone sulfate levels	GCST90199873	12	74657756	T	C	7772	-0.10	0.02	0.00	0.00	22.73
rs9509847	Pregnenolone sulfate levels	GCST90199873	13	21744175	A	C	7772	-0.07	0.02	0.00	0.00	21.54

rs67994003	Pregnenolone sulfate levels	GCST90199873	13	68165791	T	C	7772	-0.09	0.02	0.00	0.00	19.57
rs4242948	Pregnenolone sulfate levels	GCST90199873	13	72564906	G	T	7772	0.08	0.02	0.00	0.00	28.40
rs446995	Pregnenolone sulfate levels	GCST90199873	13	110525487	G	C	7772	-0.07	0.02	0.00	0.00	19.82
rs11158997	Pregnenolone sulfate levels	GCST90199873	14	72944690	C	G	7772	-0.08	0.02	0.00	0.00	20.15
rs2105985	Pregnenolone sulfate levels	GCST90199873	14	106711347	A	C	7772	0.10	0.02	0.00	0.00	19.88
rs9922045	Pregnenolone sulfate levels	GCST90199873	16	81538241	G	A	7772	0.18	0.03	0.00	0.00	37.72
rs62116852	Pregnenolone sulfate levels	GCST90199873	19	16077044	A	G	7772	0.10	0.02	0.00	0.00	20.53
rs184445849	Pregnenolone sulfate levels	GCST90199873	19	29980806	T	C	7772	0.27	0.06	0.00	0.00	20.70
rs296393	Pregnenolone sulfate levels	GCST90199873	19	47863248	C	T	7772	0.10	0.02	0.00	0.00	26.25
rs72798135	methylmethionine levels	GCST90199874	2	22216536	C	T	6674	0.14	0.03	0.00	0.00	20.18
rs62173529	methylmethionine levels	GCST90199874	2	139210698	A	G	6674	0.09	0.02	0.00	0.00	21.11
rs10194513	methylmethionine levels	GCST90199874	2	173696371	G	A	6674	-0.12	0.03	0.00	0.00	19.79
rs10180486	methylmethionine levels	GCST90199874	2	214731148	A	G	6674	0.13	0.03	0.00	0.00	20.04
rs62300810	methylmethionine levels	GCST90199874	4	27264041	A	G	6674	0.28	0.06	0.00	0.00	20.81
rs6828665	methylmethionine levels	GCST90199874	4	148208101	T	C	6674	-0.08	0.02	0.00	0.00	20.80
rs16878604	methylmethionine levels	GCST90199874	5	7377879	T	C	6674	-0.16	0.03	0.00	0.00	22.28
rs987948	methylmethionine levels	GCST90199874	5	18845597	C	T	6674	-0.15	0.03	0.00	0.00	22.39
rs78172873	methylmethionine levels	GCST90199874	7	21828898	A	G	6674	0.14	0.03	0.00	0.00	21.02
rs116906641	methylmethionine levels	GCST90199874	8	136026690	G	A	6674	0.19	0.04	0.00	0.00	25.83
rs12236091	methylmethionine levels	GCST90199874	9	2514644	A	C	6674	-0.09	0.02	0.00	0.00	20.30
rs112273668	methylmethionine levels	GCST90199874	10	83022632	C	T	6674	-0.14	0.03	0.00	0.00	20.52
rs2232946	methylmethionine levels	GCST90199874	11	62242139	T	C	6674	0.10	0.02	0.00	0.00	23.19
rs11044949	methylmethionine levels	GCST90199874	12	19938002	G	A	6674	-0.16	0.03	0.00	0.00	20.51
rs150443880	methylmethionine levels	GCST90199874	12	101129221	A	G	6674	-0.32	0.07	0.00	0.00	20.54
rs9518832	methylmethionine levels	GCST90199874	13	87909811	C	T	6674	-0.09	0.02	0.00	0.00	21.04
rs10498421	methylmethionine levels	GCST90199874	14	51119694	A	G	6674	-0.08	0.02	0.00	0.00	19.86
rs36130143	methylmethionine levels	GCST90199874	15	54059196	C	T	6674	0.08	0.02	0.00	0.00	19.57

rs76670140	S-methylmethionine levels	GCST90199874	15	94064577	C	T	6674	-0.44	0.09	0.00	0.00	22.42
rs2897286	S-methylmethionine levels	GCST90199874	18	76100933	T	C	6674	0.08	0.02	0.00	0.00	19.57
rs2205127	S-methylmethionine levels	GCST90199874	21	39138770	A	G	6674	-0.13	0.03	0.00	0.00	22.90
rs7514041	13-HODE + 9-HODE levels	GCST90199875	1	77498584	A	G	8207	0.07	0.02	0.00	0.00	20.09
rs140690283	13-HODE + 9-HODE levels	GCST90199875	1	95993793	G	A	8207	-0.41	0.09	0.00	0.00	22.59
rs7581134	13-HODE + 9-HODE levels	GCST90199875	2	229053029	A	G	8207	0.07	0.02	0.00	0.00	20.55
rs1488089	13-HODE + 9-HODE levels	GCST90199875	3	35946465	T	A	8207	-0.07	0.02	0.00	0.00	21.43
rs75624037	13-HODE + 9-HODE levels	GCST90199875	3	43180347	T	G	8207	0.19	0.04	0.00	0.00	24.08
rs141087794	13-HODE + 9-HODE levels	GCST90199875	3	66897341	G	A	8207	-0.11	0.02	0.00	0.00	20.05
rs148917008	13-HODE + 9-HODE levels	GCST90199875	3	81568294	T	C	8207	-0.25	0.06	0.00	0.00	20.51
rs142051011	13-HODE + 9-HODE levels	GCST90199875	5	45930310	T	A	8207	0.33	0.07	0.00	0.00	23.30
rs1198965	13-HODE + 9-HODE levels	GCST90199875	5	142357631	C	T	8207	0.07	0.02	0.00	0.00	20.78
rs9472704	13-HODE + 9-HODE levels	GCST90199875	6	46150247	A	G	8207	-0.07	0.02	0.00	0.00	20.09
rs71537095	13-HODE + 9-HODE levels	GCST90199875	6	99252176	C	T	8207	-0.10	0.02	0.00	0.00	24.70
rs289205	13-HODE + 9-HODE levels	GCST90199875	7	114786475	T	A	8207	0.14	0.03	0.00	0.00	20.61
rs146539354	13-HODE + 9-HODE levels	GCST90199875	8	19289834	G	C	8207	-0.41	0.09	0.00	0.00	19.80
rs1888287	13-HODE + 9-HODE levels	GCST90199875	9	116960940	T	C	8207	-0.08	0.02	0.00	0.00	23.15
rs1024277	13-HODE + 9-HODE levels	GCST90199875	9	131370838	C	T	8207	0.21	0.05	0.00	0.00	19.53
rs74154781	13-HODE + 9-HODE levels	GCST90199875	10	104282569	A	G	8207	-1.76	0.39	0.00	0.00	19.90
rs144295623	13-HODE + 9-HODE levels	GCST90199875	12	124277191	A	G	8207	-0.33	0.07	0.00	0.00	20.57
rs71407802	13-HODE + 9-HODE levels	GCST90199875	14	39844316	T	C	8207	0.29	0.06	0.00	0.00	20.08
rs16944511	13-HODE + 9-HODE levels	GCST90199875	15	90489707	G	A	8207	-0.40	0.08	0.00	0.00	27.60
rs71364555	13-HODE + 9-HODE levels	GCST90199875	18	46683481	A	G	8207	-0.15	0.03	0.00	0.00	19.52
rs62105542	13-HODE + 9-HODE levels	GCST90199875	19	28430066	G	T	8207	-0.15	0.03	0.00	0.00	20.67
rs11591147	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	1	55039974	T	G	8269	-0.34	0.06	0.00	0.00	36.61
rs145063492	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	1	190677562	T	C	8269	-0.39	0.09	0.00	0.00	19.66
rs6702302	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	1	236451809	T	C	8269	-0.19	0.04	0.00	0.00	20.15
rs80051818	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	2	27368937	C	T	8269	0.10	0.02	0.00	0.00	36.30
rs147199492	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	2	85732053	T	C	8269	-0.13	0.03	0.00	0.00	19.85

rs31468	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	5	93445277	A	G	8269	0.08	0.02	0.00	0.00	21.63
rs11596834 2	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	5	165594601	C	T	8269	-0.13	0.03	0.00	0.00	20.42
rs72966595	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	6	122767330	A	G	8269	0.16	0.04	0.00	0.00	19.75
rs4252185	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	6	160702419	C	T	8269	0.16	0.03	0.00	0.00	36.38
rs35330527	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	7	73455877	G	A	8269	0.11	0.02	0.00	0.00	23.98
rs2373873	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	7	89308558	G	A	8269	-0.09	0.02	0.00	0.00	23.96
rs9690040	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	7	155294006	C	T	8269	-0.07	0.02	0.00	0.00	20.65
rs13937467 9	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	8	112639073	G	T	8269	-0.14	0.03	0.00	0.00	28.51
rs79270230	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	9	33110272	A	C	8269	0.15	0.03	0.00	0.00	23.49
rs10908901	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	9	89608274	T	C	8269	-0.47	0.10	0.00	0.00	20.93
rs9632907	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	9	115873482	T	C	8269	0.07	0.02	0.00	0.00	20.27
rs9420630	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	10	93768428	G	A	8269	0.09	0.02	0.00	0.00	22.74
rs11739416 5	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	11	66688931	T	C	8269	0.21	0.04	0.00	0.00	27.44
rs11225188	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	11	102271700	G	A	8269	-0.11	0.03	0.00	0.00	19.97
rs10892986	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	11	123255071	T	G	8269	-0.08	0.02	0.00	0.00	20.11
rs2393072	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	12	116331608	C	T	8269	0.07	0.02	0.00	0.00	22.55
rs9592030	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	13	60279972	A	G	8269	-0.09	0.02	0.00	0.00	19.95
rs10492646	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	13	106344462	T	C	8269	-0.08	0.02	0.00	0.00	22.96

rs11073157	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	15	29648067	C	G	8269	0.10	0.02	0.00	0.00	20.10
rs72731112	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	15	49621129	C	G	8269	-0.31	0.07	0.00	0.00	21.45
rs11355152 5	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	16	56077670	T	C	8269	0.25	0.05	0.00	0.00	26.06
rs375938	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	17	15341840	A	G	8269	0.07	0.02	0.00	0.00	20.51
rs7234333	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	18	31413626	T	C	8269	-0.09	0.02	0.00	0.00	21.79
rs17248720	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	19	11087511	T	C	8269	-0.10	0.02	0.00	0.00	20.04
rs11334588 1	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	19	44928379	G	A	8269	-0.16	0.03	0.00	0.00	33.32
rs60167816	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	21	43346675	A	G	8269	0.10	0.02	0.00	0.00	21.14
rs4821072	Palmitoyl sphingomyelin (d18:1/16:0) levels	GCST90199876	22	32540545	G	A	8269	-0.08	0.02	0.00	0.00	21.83
rs2746683	Indole-3- carboxylate levels	GCST90199877	1	55376062	C	A	4989	-0.16	0.03	0.00	0.00	21.18
rs9431700	Indole-3- carboxylate levels	GCST90199877	1	231862532	G	A	4989	0.31	0.07	0.00	0.00	19.55
rs10496852	Indole-3- carboxylate levels	GCST90199877	2	140726295	T	G	4989	-0.20	0.04	0.00	0.00	22.89
rs71428357	Indole-3- carboxylate levels	GCST90199877	2	214989432	T	C	4989	-0.20	0.04	0.00	0.00	19.85
rs72551330	Indole-3- carboxylate levels	GCST90199877	2	233672032	C	T	4989	0.52	0.07	0.00	0.01	47.82
rs18657575 4	Indole-3- carboxylate levels	GCST90199877	3	98479801	A	T	4989	0.36	0.08	0.00	0.00	22.12
rs34088589	Indole-3- carboxylate levels	GCST90199877	3	173098016	G	A	4989	-0.14	0.03	0.00	0.00	19.75
rs358645	Indole-3- carboxylate levels	GCST90199877	5	144526400	C	G	4989	-0.12	0.03	0.00	0.00	19.71
rs13935499 8	Indole-3- carboxylate levels	GCST90199877	6	36941406	A	C	4989	-0.12	0.03	0.00	0.00	20.98
rs75126326	Indole-3- carboxylate levels	GCST90199877	7	47818203	A	G	4989	0.32	0.07	0.00	0.00	20.35
rs7786963	Indole-3- carboxylate levels	GCST90199877	7	140381399	C	G	4989	0.10	0.02	0.00	0.00	24.14
rs341511	Indole-3- carboxylate levels	GCST90199877	13	59840836	T	C	4989	-0.10	0.02	0.00	0.00	20.20

rs138934274	Indole-3-carboxylate levels	GCST90199877	16	70587483	C	G	4989	0.45	0.10	0.00	0.00	21.77
rs79121515	Indole-3-carboxylate levels	GCST90199877	16	76376973	G	A	4989	-0.32	0.07	0.00	0.00	22.82
rs8075454	Indole-3-carboxylate levels	GCST90199877	17	14684520	T	C	4989	0.75	0.16	0.00	0.00	22.23
rs1632197	Indole-3-carboxylate levels	GCST90199877	21	24131863	G	T	4989	-0.10	0.02	0.00	0.00	22.26
rs148337412	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	1	59749774	T	C	8267	0.28	0.06	0.00	0.00	19.68
rs116291770	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	2	46334863	A	G	8267	-0.32	0.07	0.00	0.00	20.78
rs12469571	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	2	215758531	T	C	8267	0.12	0.03	0.00	0.00	21.15
rs9846165	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	3	68925401	C	T	8267	-0.08	0.02	0.00	0.00	22.98
rs34446099	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	4	126261469	G	A	8267	-0.13	0.03	0.00	0.00	22.05
rs191557802	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	4	185851347	A	T	8267	-0.26	0.06	0.00	0.00	19.94
rs146437168	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	5	69091815	C	G	8267	0.37	0.08	0.00	0.00	19.72
rs114836402	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	5	76009576	G	A	8267	0.39	0.09	0.00	0.00	20.67
rs72800974	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	5	140820411	C	T	8267	0.11	0.02	0.00	0.00	21.81
rs2457340	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	6	20096103	C	A	8267	0.12	0.02	0.00	0.00	22.89
rs7756308	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	6	138141336	G	A	8267	-0.06	0.01	0.00	0.00	19.84
rs55730499	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	6	160584578	T	C	8267	0.14	0.03	0.00	0.00	25.79
rs76572147	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	7	91558598	T	C	8267	-0.39	0.08	0.00	0.00	20.79
rs117579722	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	8	3426314	T	G	8267	-0.32	0.07	0.00	0.00	23.87
rs35524619	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	8	41126400	G	T	8267	-0.09	0.02	0.00	0.00	23.16

rs7812898	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	8	112624710	C	T	8267	0.12	0.02	0.00	0.00	29.90
rs13988941 1	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	9	16659254	A	G	8267	-0.29	0.06	0.00	0.00	21.22
rs7871183	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	9	121594300	T	C	8267	-0.33	0.06	0.00	0.00	28.87
rs80089950	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	10	65612762	T	C	8267	-0.28	0.06	0.00	0.00	22.12
rs14404138 1	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	10	71456492	A	G	8267	-0.39	0.08	0.00	0.00	22.21
rs11721972 9	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	10	100026821	T	A	8267	-0.22	0.05	0.00	0.00	21.04
rs14248949 8	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	11	32180183	A	G	8267	-0.26	0.06	0.00	0.00	19.69
rs174548	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	11	61803876	G	C	8267	-0.13	0.02	0.00	0.01	69.10
rs10734751	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	12	25800656	C	A	8267	0.13	0.03	0.00	0.00	20.02
rs14452862 4	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	12	49289066	T	C	8267	-0.21	0.05	0.00	0.00	20.26
rs7133607	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	12	94957478	C	A	8267	-0.08	0.02	0.00	0.00	20.30
rs653178	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	12	111569952	T	C	8267	0.07	0.01	0.00	0.00	23.24
rs7139079	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	12	120977490	A	G	8267	0.09	0.01	0.00	0.00	36.96
rs34862991	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	14	45242113	T	C	8267	-0.16	0.04	0.00	0.00	21.55
rs492571	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	15	43919075	C	T	8267	-0.17	0.03	0.00	0.00	23.45
rs11218335 2	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	17	16431490	A	G	8267	0.35	0.08	0.00	0.00	20.02
rs1466448	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	19	8224635	A	C	8267	0.20	0.02	0.00	0.02	130.34
rs73047547	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	19	48318639	A	C	8267	-0.08	0.02	0.00	0.00	19.61

rs139373789	Sphingomyelin (d18:1/18:1, d18:2/18:0) levels	GCST90199878	20	54924520	G	A	8267	0.37	0.08	0.00	0.00	22.96
rs369576	Ergothioneine levels	GCST90199879	1	30056149	T	C	8210	0.08	0.02	0.00	0.00	20.92
rs72661832	Ergothioneine levels	GCST90199879	1	37795061	T	C	8210	0.08	0.02	0.00	0.00	20.47
rs6758001	Ergothioneine levels	GCST90199879	2	215750203	C	T	8210	-0.21	0.04	0.00	0.00	21.70
rs74934631	Ergothioneine levels	GCST90199879	3	32766796	C	T	8210	-2.33	0.49	0.00	0.00	22.55
rs9829222	Ergothioneine levels	GCST90199879	3	175953365	T	C	8210	-0.09	0.02	0.00	0.00	22.04
rs75389841	Ergothioneine levels	GCST90199879	4	40195705	C	T	8210	0.15	0.03	0.00	0.00	21.18
rs252241	Ergothioneine levels	GCST90199879	5	78733145	C	T	8210	0.09	0.02	0.00	0.00	20.45
rs146561862	Ergothioneine levels	GCST90199879	5	122821494	T	C	8210	-0.29	0.06	0.00	0.00	21.14
rs273913	Ergothioneine levels	GCST90199879	5	132325463	C	T	8210	0.15	0.02	0.00	0.01	88.48
rs12210538	Ergothioneine levels	GCST90199879	6	110438805	G	A	8210	0.20	0.02	0.00	0.02	125.96
rs76584991	Ergothioneine levels	GCST90199879	8	28304355	C	A	8210	-0.21	0.05	0.00	0.00	20.90
rs62499814	Ergothioneine levels	GCST90199879	8	52281266	T	G	8210	0.09	0.02	0.00	0.00	19.58
rs141078273	Ergothioneine levels	GCST90199879	8	65814768	A	G	8210	0.33	0.07	0.00	0.00	20.02
rs77832767	Ergothioneine levels	GCST90199879	9	36872799	A	C	8210	-0.28	0.06	0.00	0.00	20.24
rs12555482	Ergothioneine levels	GCST90199879	9	84154201	G	A	8210	-0.14	0.03	0.00	0.00	20.05
rs75173598	Ergothioneine levels	GCST90199879	10	19714634	T	A	8210	0.14	0.03	0.00	0.00	20.72
rs147187084	Ergothioneine levels	GCST90199879	11	90732802	T	A	8210	-0.21	0.05	0.00	0.00	19.93
rs75636209	Ergothioneine levels	GCST90199879	12	127883849	A	T	8210	0.25	0.06	0.00	0.00	19.84
rs35968066	Ergothioneine levels	GCST90199879	14	95543733	C	T	8210	0.22	0.05	0.00	0.00	19.60
rs139768355	Ergothioneine levels	GCST90199879	14	102974335	A	G	8210	-0.36	0.08	0.00	0.00	19.68
rs12940890	Ergothioneine levels	GCST90199879	17	1934813	A	G	8210	-0.13	0.03	0.00	0.00	19.51
rs7215363	Ergothioneine levels	GCST90199879	17	45222864	C	G	8210	-0.13	0.03	0.00	0.00	20.61
rs117602803	Ergothioneine levels	GCST90199879	17	73815449	T	C	8210	0.13	0.03	0.00	0.00	21.51
rs4818008	Ergothioneine levels	GCST90199879	21	39239516	A	T	8210	0.09	0.02	0.00	0.00	28.98
rs1535186	Ergothioneine levels	GCST90199879	22	48056105	A	T	8210	-0.09	0.02	0.00	0.00	23.16
rs149556176	decenoylcarnitine (C10:1) levels	GCST90199880	1	74971148	C	T	8239	0.39	0.06	0.00	0.00	36.93
rs2185152	decenoylcarnitine (C10:1) levels	GCST90199880	1	75758325	T	C	8239	-0.39	0.02	0.00	0.07	635.33
rs75281229	decenoylcarnitine (C10:1) levels	GCST90199880	1	182694869	T	C	8239	-0.18	0.04	0.00	0.00	22.56
rs36012907	decenoylcarnitine (C10:1) levels	GCST90199880	1	204619938	T	C	8239	0.12	0.03	0.00	0.00	20.03
rs116054927	decenoylcarnitine (C10:1) levels	GCST90199880	1	217505640	C	T	8239	0.28	0.06	0.00	0.00	19.87

rs892447	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	2	26187081	A	G	8239	-0.08	0.02	0.00	0.00	21.08
rs193073991	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	2	148403441	G	A	8239	0.38	0.08	0.00	0.00	20.19
rs71429198	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	2	226361374	T	C	8239	-0.07	0.02	0.00	0.00	20.77
rs4515089	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	3	106617943	C	A	8239	-0.13	0.03	0.00	0.00	21.09
rs79187427	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	3	153213937	G	A	8239	0.17	0.04	0.00	0.00	22.44
rs6839534	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	4	158716843	A	C	8239	-0.14	0.02	0.00	0.01	75.74
rs149858359	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	6	24531667	T	A	8239	-0.42	0.09	0.00	0.00	20.01
rs142632116	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	6	167749299	G	T	8239	-0.13	0.03	0.00	0.00	20.69
rs141800211	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	7	17586440	T	C	8239	0.37	0.08	0.00	0.00	20.25
rs59207687	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	7	110944469	A	G	8239	0.17	0.04	0.00	0.00	22.15
rs148679922	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	10	56592144	C	G	8239	0.16	0.04	0.00	0.00	20.39
rs141882839	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	11	7573189	A	G	8239	0.23	0.05	0.00	0.00	24.25
rs116949598	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	11	12402235	A	G	8239	0.18	0.04	0.00	0.00	20.15
rs77770407	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	11	41521606	T	C	8239	-0.20	0.04	0.00	0.00	19.84
rs2342082	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	12	122605833	C	T	8239	-0.08	0.02	0.00	0.00	20.49
rs142010287	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	14	73317054	T	C	8239	-0.36	0.08	0.00	0.00	20.68
rs2062541	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	16	16033378	A	G	8239	0.11	0.02	0.00	0.01	48.94
rs74339830	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	16	48952986	T	C	8239	-0.16	0.04	0.00	0.00	20.78

rs11646091	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	16	70791746	C	T	8239	-0.18	0.04	0.00	0.00	20.23
rs140433690	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	18	21131557	T	A	8239	-0.37	0.08	0.00	0.00	23.14
rs1789497	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	18	36134278	G	A	8239	0.16	0.03	0.00	0.00	19.83
rs11662476	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	18	73841771	G	A	8239	0.09	0.02	0.00	0.00	21.81
rs117002844	Cis-4-decenoylcarnitine (C10:1) levels	GCST90199880	22	30467699	C	G	8239	-0.46	0.10	0.00	0.00	21.95
rs61301556	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	2	133970989	C	T	6898	-0.11	0.02	0.00	0.00	22.49
rs35328001	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	2	219243701	T	C	6898	0.13	0.02	0.00	0.01	36.98
rs150728311	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	3	27910232	C	T	6898	-0.41	0.08	0.00	0.00	22.87
rs11790445	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	9	6972165	G	T	6898	0.29	0.06	0.00	0.00	25.54
rs78190000	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	10	43393152	G	T	6898	-0.23	0.05	0.00	0.00	19.67
rs144359763	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	10	79619187	C	T	6898	-0.25	0.05	0.00	0.00	21.67
rs11022902	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	11	13607908	C	T	6898	0.16	0.03	0.00	0.00	20.92
rs117917511	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	13	74718023	T	A	6898	0.35	0.08	0.00	0.00	19.66
rs112423537	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	16	271993	C	A	6898	-0.22	0.05	0.00	0.00	21.12
rs4795980	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	17	34699560	C	G	6898	-0.09	0.02	0.00	0.00	22.67
rs2910345	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	19	8816694	C	G	6898	0.08	0.02	0.00	0.00	20.08
rs147855120	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	21	24478117	G	C	6898	0.38	0.08	0.00	0.00	23.56
rs738651	5-(galactosylhydroxy)-L-lysine levels	GCST90199881	22	26221939	A	G	6898	0.12	0.03	0.00	0.00	19.78

rs80138657	2s,3R- dihydroxybuty rate levels	GCST90199882	1	98490742	G	A	8252	0.28	0.06	0.00	0.00	21.45
rs12121162	2s,3R- dihydroxybuty rate levels	GCST90199882	1	242603238	T	G	8252	-0.11	0.02	0.00	0.00	24.12
rs146441900	2s,3R- dihydroxybuty rate levels	GCST90199882	3	72936950	G	C	8252	-0.21	0.05	0.00	0.00	19.85
rs56404875	2s,3R- dihydroxybuty rate levels	GCST90199882	3	121636645	G	A	8252	-0.26	0.06	0.00	0.00	20.93
rs1426038	2s,3R- dihydroxybuty rate levels	GCST90199882	3	139982947	G	A	8252	0.07	0.02	0.00	0.00	19.85
rs534536125	2s,3R- dihydroxybuty rate levels	GCST90199882	4	165123258	C	T	8252	0.30	0.07	0.00	0.00	20.27
rs4862375	2s,3R- dihydroxybuty rate levels	GCST90199882	4	184532166	G	A	8252	-0.07	0.02	0.00	0.00	22.08
rs75427098	2s,3R- dihydroxybuty rate levels	GCST90199882	5	150195274	T	C	8252	-0.12	0.03	0.00	0.00	19.53
rs34766042	2s,3R- dihydroxybuty rate levels	GCST90199882	5	178355766	G	A	8252	-0.09	0.02	0.00	0.00	23.10
rs2064323	2s,3R- dihydroxybuty rate levels	GCST90199882	6	3714832	C	T	8252	-0.07	0.02	0.00	0.00	20.80
rs12175318	2s,3R- dihydroxybuty rate levels	GCST90199882	6	15276541	T	C	8252	-0.11	0.02	0.00	0.00	21.82
rs147321540	2s,3R- dihydroxybuty rate levels	GCST90199882	6	83683350	T	G	8252	-0.38	0.09	0.00	0.00	19.57
rs1383747	2s,3R- dihydroxybuty rate levels	GCST90199882	6	112928947	A	G	8252	-0.13	0.03	0.00	0.00	20.39
rs243545	2s,3R- dihydroxybuty rate levels	GCST90199882	7	148704316	A	G	8252	-0.06	0.01	0.00	0.00	19.81
rs145907656	2s,3R- dihydroxybuty rate levels	GCST90199882	9	2252752	T	C	8252	0.30	0.07	0.00	0.00	20.97
rs147375567	2s,3R- dihydroxybuty rate levels	GCST90199882	9	133279293	G	A	8252	0.20	0.05	0.00	0.00	20.10
rs656382	2s,3R- dihydroxybuty rate levels	GCST90199882	11	119970806	T	C	8252	-0.07	0.02	0.00	0.00	19.70
rs187226015	2s,3R- dihydroxybuty rate levels	GCST90199882	12	4320174	A	C	8252	0.38	0.04	0.00	0.01	79.63
rs17177326	2s,3R- dihydroxybuty rate levels	GCST90199882	12	4437399	A	G	8252	0.30	0.04	0.00	0.01	61.32
rs287536	2s,3R- dihydroxybuty rate levels	GCST90199882	13	91181232	G	T	8252	-0.08	0.02	0.00	0.00	24.34
rs112835958	2s,3R- dihydroxybuty rate levels	GCST90199882	14	101483547	A	G	8252	0.22	0.05	0.00	0.00	22.23
rs55725706	2s,3R- dihydroxybuty rate levels	GCST90199882	15	67811357	T	C	8252	0.11	0.02	0.00	0.00	20.08
rs2716929	2s,3R- dihydroxybuty rate levels	GCST90199882	17	5662638	T	A	8252	-0.07	0.01	0.00	0.00	22.12
rs4251790	2s,3R- dihydroxybuty rate levels	GCST90199882	17	35845670	T	C	8252	-0.39	0.08	0.00	0.00	23.25

rs75850151	2s,3R- dihydroxybuty rate levels	GCST90199882	18	2061695	A	T	8252	-0.27	0.06	0.00	0.00	20.19
rs72899372	2s,3R- dihydroxybuty rate levels	GCST90199882	18	7712168	C	G	8252	0.20	0.04	0.00	0.00	19.94
rs11666081	2s,3R- dihydroxybuty rate levels	GCST90199882	19	17665450	G	A	8252	-0.08	0.02	0.00	0.00	20.53
rs9287024	Cysteinyglyci ne disulfide levels	GCST90199883	1	229155904	G	T	8216	0.07	0.02	0.00	0.00	22.06
rs12494689	Cysteinyglyci ne disulfide levels	GCST90199883	3	21745738	A	C	8216	-0.19	0.04	0.00	0.00	19.66
rs76793684	Cysteinyglyci ne disulfide levels	GCST90199883	3	169790741	T	A	8216	0.22	0.05	0.00	0.00	20.51
rs34990175	Cysteinyglyci ne disulfide levels	GCST90199883	3	194797116	G	T	8216	-0.13	0.03	0.00	0.00	20.95
rs73233266	Cysteinyglyci ne disulfide levels	GCST90199883	4	13727517	A	G	8216	0.21	0.05	0.00	0.00	19.74
rs14572273 4	Cysteinyglyci ne disulfide levels	GCST90199883	5	51005467	C	T	8216	-0.59	0.13	0.00	0.00	19.81
rs11756628 0	Cysteinyglyci ne disulfide levels	GCST90199883	6	149202211	A	G	8216	-0.27	0.06	0.00	0.00	20.31
rs19117908 1	Cysteinyglyci ne disulfide levels	GCST90199883	8	5615924	T	C	8216	-0.38	0.08	0.00	0.00	20.75
rs1514506	Cysteinyglyci ne disulfide levels	GCST90199883	8	65262315	G	T	8216	-0.20	0.04	0.00	0.00	26.13
rs72748450	Cysteinyglyci ne disulfide levels	GCST90199883	9	107800640	T	C	8216	-0.11	0.02	0.00	0.00	27.55
rs11772419 4	Cysteinyglyci ne disulfide levels	GCST90199883	9	124170505	G	A	8216	0.15	0.03	0.00	0.00	20.29
rs11750295 0	Cysteinyglyci ne disulfide levels	GCST90199883	10	128909040	A	C	8216	-0.16	0.04	0.00	0.00	19.89
rs368306	Cysteinyglyci ne disulfide levels	GCST90199883	12	125416368	C	T	8216	0.08	0.02	0.00	0.00	25.85
rs77075058	Cysteinyglyci ne disulfide levels	GCST90199883	13	34029889	G	A	8216	0.24	0.05	0.00	0.00	20.08
rs924135	Cysteinyglyci ne disulfide levels	GCST90199883	16	16029602	T	A	8216	0.17	0.02	0.00	0.01	112.45
rs60481069	Cysteinyglyci ne disulfide levels	GCST90199883	16	88964279	C	G	8216	0.11	0.02	0.00	0.00	25.96
rs258341	Cysteinyglyci ne disulfide levels	GCST90199883	16	89624734	C	T	8216	-0.32	0.02	0.00	0.05	426.11
rs62054658	Cysteinyglyci ne disulfide levels	GCST90199883	16	90074286	G	A	8216	0.17	0.03	0.00	0.00	26.94
rs14675222 3	Cysteinyglyci ne disulfide levels	GCST90199883	19	9035010	A	G	8216	-0.23	0.05	0.00	0.00	25.49
rs281379	Cysteinyglyci ne disulfide levels	GCST90199883	19	48711017	A	G	8216	0.07	0.01	0.00	0.00	19.75
rs72652536	2,3- dihydroxyisov aleralate levels	GCST90199884	1	24366847	G	A	8268	0.44	0.09	0.00	0.00	21.81

rs4557020	2,3-dihydroxyisovalerate levels	GCST90199884	2	54491044	C	T	8268	-0.07	0.02	0.00	0.00	19.83
rs75506522	2,3-dihydroxyisovalerate levels	GCST90199884	2	241869714	C	G	8268	0.35	0.07	0.00	0.00	23.41
rs11915086	2,3-dihydroxyisovalerate levels	GCST90199884	3	22100707	C	T	8268	0.41	0.09	0.00	0.00	20.06
rs72616132	2,3-dihydroxyisovalerate levels	GCST90199884	4	6733931	A	C	8268	-0.16	0.03	0.00	0.00	20.10
rs62365255	2,3-dihydroxyisovalerate levels	GCST90199884	5	112414505	A	G	8268	-0.10	0.02	0.00	0.00	21.96
rs6859482	2,3-dihydroxyisovalerate levels	GCST90199884	5	138623715	T	C	8268	0.08	0.02	0.00	0.00	19.59
rs12200198	2,3-dihydroxyisovalerate levels	GCST90199884	6	20092952	C	T	8268	-0.15	0.03	0.00	0.00	21.46
rs9262134	2,3-dihydroxyisovalerate levels	GCST90199884	6	30650523	A	G	8268	-0.13	0.03	0.00	0.00	20.66
rs113634280	2,3-dihydroxyisovalerate levels	GCST90199884	6	40773434	G	A	8268	-0.24	0.05	0.00	0.00	24.38
rs72886665	2,3-dihydroxyisovalerate levels	GCST90199884	6	63190401	T	G	8268	-0.08	0.02	0.00	0.00	21.08
rs80113431	2,3-dihydroxyisovalerate levels	GCST90199884	6	108442052	A	G	8268	0.18	0.04	0.00	0.00	20.89
rs117727741	2,3-dihydroxyisovalerate levels	GCST90199884	7	109541983	T	G	8268	-0.16	0.04	0.00	0.00	20.35
rs150448803	2,3-dihydroxyisovalerate levels	GCST90199884	7	145613370	A	G	8268	-0.14	0.03	0.00	0.00	22.89
rs190599873	2,3-dihydroxyisovalerate levels	GCST90199884	8	130459818	A	G	8268	-0.36	0.08	0.00	0.00	21.07
rs145928626	2,3-dihydroxyisovalerate levels	GCST90199884	9	21747405	T	G	8268	-0.29	0.06	0.00	0.00	20.78
rs56761894	2,3-dihydroxyisovalerate levels	GCST90199884	9	110979923	T	C	8268	-0.09	0.02	0.00	0.00	22.88
rs117110179	2,3-dihydroxyisovalerate levels	GCST90199884	11	123981322	C	T	8268	0.23	0.05	0.00	0.00	22.97
rs11116000	2,3-dihydroxyisovalerate levels	GCST90199884	12	76884022	T	C	8268	-0.29	0.06	0.00	0.00	20.11
rs11068615	2,3-dihydroxyisovalerate levels	GCST90199884	12	117673185	G	C	8268	0.08	0.02	0.00	0.00	21.81
rs71403567	2,3-dihydroxyisovalerate levels	GCST90199884	15	39895255	G	A	8268	0.36	0.08	0.00	0.00	21.09
rs28416201	2,3-dihydroxyisovalerate levels	GCST90199884	15	98331535	A	C	8268	-0.08	0.02	0.00	0.00	20.99
rs4965382	2,3-dihydroxyisovalerate levels	GCST90199884	15	101404875	C	T	8268	-0.07	0.02	0.00	0.00	19.83
rs35409385	2,3-dihydroxyisovalerate levels	GCST90199884	16	6646096	C	A	8268	-0.14	0.03	0.00	0.00	21.96
rs17848711	2,3-dihydroxyisovalerate levels	GCST90199884	17	80945331	A	G	8268	-0.08	0.02	0.00	0.00	21.61

rs62128735	2,3-dihydroxyisovalerate levels	GCST90199884	19	47610347	A	G	8268	-0.08	0.02	0.00	0.00	21.04
rs113787149	2,3-dihydroxyisovalerate levels	GCST90199884	21	46109443	A	G	8268	-0.43	0.10	0.00	0.00	20.14
rs1881397	Alpha-ketoglutarate levels	GCST90199885	2	27609418	G	A	8210	0.08	0.02	0.00	0.00	20.11
rs72855962	Alpha-ketoglutarate levels	GCST90199885	2	149670005	A	T	8210	0.22	0.05	0.00	0.00	21.24
rs7610977	Alpha-ketoglutarate levels	GCST90199885	3	8621741	A	G	8210	0.07	0.01	0.00	0.00	20.70
rs7653239	Alpha-ketoglutarate levels	GCST90199885	3	33248104	A	G	8210	0.12	0.03	0.00	0.00	19.83
rs60230066	Alpha-ketoglutarate levels	GCST90199885	3	69114657	G	A	8210	-0.28	0.06	0.00	0.00	22.40
rs277627	Alpha-ketoglutarate levels	GCST90199885	3	100336429	A	G	8210	0.20	0.02	0.00	0.02	158.81
rs116836578	Alpha-ketoglutarate levels	GCST90199885	3	113559894	T	C	8210	-0.62	0.12	0.00	0.00	27.00
rs6785814	Alpha-ketoglutarate levels	GCST90199885	3	122800410	C	A	8210	0.08	0.02	0.00	0.00	22.87
rs9869009	Alpha-ketoglutarate levels	GCST90199885	3	157898429	A	G	8210	0.11	0.02	0.00	0.00	20.16
rs10063681	Alpha-ketoglutarate levels	GCST90199885	5	76266281	T	C	8210	-0.07	0.02	0.00	0.00	19.91
rs189426680	Alpha-ketoglutarate levels	GCST90199885	5	116329003	G	A	8210	0.32	0.07	0.00	0.00	19.74
rs111990802	Alpha-ketoglutarate levels	GCST90199885	6	63446102	G	A	8210	0.11	0.02	0.00	0.00	21.60
rs9484270	Alpha-ketoglutarate levels	GCST90199885	6	139379151	T	G	8210	0.08	0.02	0.00	0.00	19.51
rs1904757	Alpha-ketoglutarate levels	GCST90199885	10	57352180	G	T	8210	0.09	0.02	0.00	0.00	21.07
rs72808295	Alpha-ketoglutarate levels	GCST90199885	10	78394293	T	C	8210	-0.15	0.03	0.00	0.00	19.53
rs76352471	Alpha-ketoglutarate levels	GCST90199885	14	72738393	T	C	8210	0.17	0.04	0.00	0.00	20.62
rs150375031	Alpha-ketoglutarate levels	GCST90199885	14	103184172	T	C	8210	0.29	0.06	0.00	0.00	20.62
rs12446442	Alpha-ketoglutarate levels	GCST90199885	16	7391850	T	C	8210	0.12	0.03	0.00	0.00	19.51
rs12924700	Alpha-ketoglutarate levels	GCST90199885	16	58743192	G	A	8210	0.12	0.03	0.00	0.00	20.33
rs12462160	Alpha-ketoglutarate levels	GCST90199885	19	11657184	G	A	8210	0.07	0.01	0.00	0.00	19.61
rs12043801	3-methylglutamate levels	GCST90199886	1	41505556	A	C	8197	-0.09	0.02	0.00	0.00	20.44
rs6684642	3-methylglutamate levels	GCST90199886	1	60252043	A	G	8197	0.19	0.04	0.00	0.00	20.37

rs141384714	3-methylglutamate levels	GCST90199886	1	183750746	A	G	8197	-0.22	0.05	0.00	0.00	20.00
rs116346051	3-methylglutamate levels	GCST90199886	2	86456963	G	C	8197	-0.34	0.06	0.00	0.00	27.77
rs1047891	3-methylglutamate levels	GCST90199886	2	210675783	A	C	8197	0.37	0.02	0.00	0.06	557.86
rs980614	3-methylglutamate levels	GCST90199886	4	134058236	A	C	8197	-0.07	0.01	0.00	0.00	22.18
rs7720811	3-methylglutamate levels	GCST90199886	5	24602541	A	G	8197	-0.09	0.02	0.00	0.00	22.20
rs116102606	3-methylglutamate levels	GCST90199886	5	152017156	A	G	8197	-0.22	0.05	0.00	0.00	23.77
rs1158993	3-methylglutamate levels	GCST90199886	7	8898201	G	C	8197	-0.08	0.02	0.00	0.00	19.80
rs55933544	3-methylglutamate levels	GCST90199886	9	6534080	T	C	8197	-0.12	0.02	0.00	0.01	49.20
rs1658972	3-methylglutamate levels	GCST90199886	9	6665010	T	C	8197	-0.43	0.02	0.00	0.05	413.82
rs72733337	3-methylglutamate levels	GCST90199886	9	100189538	C	T	8197	0.28	0.06	0.00	0.00	21.14
rs302420	3-methylglutamate levels	GCST90199886	10	30479574	A	G	8197	0.07	0.02	0.00	0.00	20.24
rs1171620	3-methylglutamate levels	GCST90199886	10	59704749	G	C	8197	0.10	0.02	0.00	0.00	28.42
rs112793334	3-methylglutamate levels	GCST90199886	11	117559078	A	C	8197	-0.27	0.06	0.00	0.00	20.62
rs77467922	3-methylglutamate levels	GCST90199886	12	3304972	A	G	8197	0.09	0.02	0.00	0.00	19.75
rs61957294	3-methylglutamate levels	GCST90199886	13	76174454	A	G	8197	0.09	0.02	0.00	0.00	22.21
rs2236066	3-methylglutamate levels	GCST90199886	14	65779964	T	C	8197	0.13	0.03	0.00	0.00	23.82
rs11071613	3-methylglutamate levels	GCST90199886	15	61544933	C	T	8197	0.19	0.04	0.00	0.00	20.26
rs12922098	3-methylglutamate levels	GCST90199886	16	697454	C	T	8197	0.10	0.02	0.00	0.00	30.12
rs73176497	3-methylglutamate levels (16 or 17)-	GCST90199886	22	43941077	A	G	8197	0.11	0.02	0.00	0.00	29.31
rs190769725	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	1	151390093	A	G	8239	-1.02	0.22	0.00	0.00	21.01
rs7591428	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	2	22370712	G	C	8239	-0.17	0.04	0.00	0.00	19.53
rs10864859	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	2	120682642	T	G	8239	-0.14	0.03	0.00	0.00	23.00
rs4858853	methylstearate (a19:0 or i19:0) levels	GCST90199887	3	47760605	C	A	8239	0.08	0.02	0.00	0.00	22.57

rs18884889	(16 or 17)-methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	3	142911256	T	A	8239	0.23	0.05	0.00	0.00	19.82
rs73187235	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	3	179113281	A	G	8239	-0.16	0.03	0.00	0.00	20.20
rs73065156	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	3	193114771	G	A	8239	-0.31	0.06	0.00	0.00	26.02
rs144184860	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	4	148018341	T	C	8239	-0.36	0.07	0.00	0.00	23.79
rs116530753	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	4	156785921	A	G	8239	-0.16	0.04	0.00	0.00	20.21
rs720001	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	5	11096699	T	C	8239	-0.15	0.03	0.00	0.00	23.55
rs72760661	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	5	52223472	G	T	8239	0.25	0.05	0.00	0.00	20.77
rs117663718	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	6	124128328	T	C	8239	-0.22	0.05	0.00	0.00	22.26
rs9459492	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	6	165719998	A	G	8239	0.07	0.02	0.00	0.00	20.87
rs79998865	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	8	114588541	C	T	8239	0.28	0.06	0.00	0.00	21.33
rs1488869	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	11	6333376	T	G	8239	-0.16	0.04	0.00	0.00	20.01
rs61991636	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	14	77226090	A	G	8239	0.15	0.03	0.00	0.00	23.48
rs111949383	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	19	56248371	G	C	8239	-0.16	0.03	0.00	0.00	26.08
rs67002563	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	20	3213527	A	G	8239	0.13	0.03	0.00	0.00	19.66
rs148758368	methylstearate (a19:0 or i19:0) levels (16 or 17)-	GCST90199887	20	22738936	T	A	8239	0.38	0.08	0.00	0.00	21.96
rs9980315	methylstearate (a19:0 or i19:0) levels	GCST90199887	21	38356244	C	T	8239	-0.07	0.02	0.00	0.00	21.31
rs61773294	Cinnamoylglycine levels	GCST90199888	1	89858357	A	G	7824	-0.12	0.03	0.00	0.00	19.64
rs7596735	Cinnamoylglycine levels	GCST90199888	2	44105567	G	T	7824	0.08	0.02	0.00	0.00	24.38
rs34787974	Cinnamoylglycine levels	GCST90199888	2	111893328	C	T	7824	-0.09	0.02	0.00	0.00	21.52
rs1047891	Cinnamoylglycine levels	GCST90199888	2	210675783	A	C	7824	0.21	0.02	0.00	0.02	158.48
rs74432647	Cinnamoylglycine levels	GCST90199888	2	224858109	T	C	7824	0.14	0.03	0.00	0.00	23.40

rs77831208	Cinnamoylgly cine levels	GCST90199888	3	110665898	T	C	7824	0.27	0.05	0.00	0.00	24.68
rs1876412	Cinnamoylgly cine levels	GCST90199888	3	146559680	G	A	7824	-0.16	0.03	0.00	0.00	27.38
rs11562756 1	Cinnamoylgly cine levels	GCST90199888	5	76413416	A	G	7824	0.30	0.07	0.00	0.00	20.09
rs72797653	Cinnamoylgly cine levels	GCST90199888	5	114149324	A	G	7824	-0.07	0.02	0.00	0.00	20.79
rs2192599	Cinnamoylgly cine levels	GCST90199888	7	8985071	G	A	7824	-0.12	0.03	0.00	0.00	20.60
rs73672018	Cinnamoylgly cine levels	GCST90199888	8	31983555	T	A	7824	-0.32	0.07	0.00	0.00	19.91
rs62497573	Cinnamoylgly cine levels	GCST90199888	8	32240363	A	G	7824	-0.32	0.07	0.00	0.00	22.74
rs3102248	Cinnamoylgly cine levels	GCST90199888	8	109754800	C	T	7824	0.09	0.02	0.00	0.00	21.33
rs14227669 9	Cinnamoylgly cine levels	GCST90199888	9	6723314	T	G	7824	-0.23	0.05	0.00	0.00	23.48
rs67007979	Cinnamoylgly cine levels	GCST90199888	9	12836207	C	T	7824	-0.28	0.06	0.00	0.00	19.63
rs10964545	Cinnamoylgly cine levels	GCST90199888	9	20369376	C	T	7824	-0.29	0.06	0.00	0.00	23.25
rs34943056	Cinnamoylgly cine levels	GCST90199888	9	136261195	T	C	7824	-0.08	0.02	0.00	0.00	22.05
rs13816561 1	Cinnamoylgly cine levels	GCST90199888	10	13992223	C	T	7824	-0.34	0.08	0.00	0.00	20.53
rs596603	Cinnamoylgly cine levels	GCST90199888	11	67592132	G	T	7824	-0.07	0.02	0.00	0.00	21.27
rs61916271	Cinnamoylgly cine levels	GCST90199888	12	6781356	A	G	7824	-0.09	0.02	0.00	0.00	23.05
rs14403382 7	Cinnamoylgly cine levels	GCST90199888	12	115986993	C	A	7824	0.32	0.07	0.00	0.00	23.65
rs76775559	Cinnamoylgly cine levels	GCST90199888	13	23295731	T	C	7824	0.18	0.04	0.00	0.00	20.31
rs11767837 0	Cinnamoylgly cine levels	GCST90199888	14	62563506	G	A	7824	-0.41	0.08	0.00	0.00	23.02
rs11178065 6	Cinnamoylgly cine levels	GCST90199888	15	85160251	C	A	7824	-0.44	0.08	0.00	0.00	27.65
rs56325197 7	Cinnamoylgly cine levels	GCST90199888	16	33849893	T	A	7824	-0.62	0.14	0.00	0.00	20.38
rs62076885	Cinnamoylgly cine levels	GCST90199888	17	41932916	C	T	7824	-0.08	0.02	0.00	0.00	22.53
rs11870566	Cinnamoylgly cine levels	GCST90199888	17	57394223	T	A	7824	-0.18	0.04	0.00	0.00	22.14
rs77056604	Cinnamoylgly cine levels	GCST90199888	17	71672163	T	G	7824	-0.24	0.05	0.00	0.00	20.27
rs14192918 3	Cinnamoylgly cine levels	GCST90199888	17	74434794	A	G	7824	-0.16	0.04	0.00	0.00	19.69
rs12966382	Cinnamoylgly cine levels	GCST90199888	18	49559070	T	C	7824	0.10	0.02	0.00	0.00	20.58
rs6095632	Cinnamoylgly cine levels	GCST90199888	20	49733091	T	G	7824	0.10	0.02	0.00	0.00	20.75
rs2252002	Cinnamoylgly cine levels	GCST90199888	21	31338706	G	T	7824	-0.14	0.03	0.00	0.00	21.26
rs73885230	Cinnamoylgly cine levels	GCST90199888	22	39481082	T	G	7824	-0.33	0.07	0.00	0.00	21.42
rs344939	dihydroxybuty rate levels	GCST90199889	1	67661357	T	A	8223	0.08	0.02	0.00	0.00	22.96
rs14917850 7	2R,3R- dihydroxybuty rate levels	GCST90199889	1	189732679	T	G	8223	-0.22	0.05	0.00	0.00	20.75
rs6744393	2R,3R- dihydroxybuty rate levels	GCST90199889	2	27527272	T	C	8223	0.10	0.02	0.00	0.00	23.95
rs7340264	2R,3R- dihydroxybuty rate levels	GCST90199889	2	60509394	A	G	8223	-0.13	0.03	0.00	0.00	19.87
rs1047891	2R,3R- dihydroxybuty rate levels	GCST90199889	2	210675783	A	C	8223	-0.15	0.02	0.00	0.01	85.03
rs55649245	2R,3R- dihydroxybuty rate levels	GCST90199889	2	240854128	A	G	8223	-0.27	0.02	0.00	0.03	278.02

rs12694989	2R,3R- dihydroxybuty rate levels	GCST90199889	2	240911676	G	A	8223	-0.09	0.02	0.00	0.00	35.00
rs9878113	2R,3R- dihydroxybuty rate levels	GCST90199889	3	17145636	T	C	8223	-0.42	0.09	0.00	0.00	20.47
rs14231133 9	2R,3R- dihydroxybuty rate levels	GCST90199889	3	51890816	A	G	8223	0.45	0.10	0.00	0.00	20.13
rs72672806	2R,3R- dihydroxybuty rate levels	GCST90199889	4	123872983	G	A	8223	0.08	0.02	0.00	0.00	19.85
rs4691821	2R,3R- dihydroxybuty rate levels	GCST90199889	4	162196104	A	G	8223	0.08	0.02	0.00	0.00	20.08
rs11728557	2R,3R- dihydroxybuty rate levels	GCST90199889	4	187923543	G	A	8223	-0.11	0.02	0.00	0.00	23.91
rs2962724	2R,3R- dihydroxybuty rate levels	GCST90199889	5	8951930	T	C	8223	0.07	0.02	0.00	0.00	19.80
rs11672741 4	2R,3R- dihydroxybuty rate levels	GCST90199889	6	23215375	G	C	8223	0.32	0.07	0.00	0.00	23.13
rs73034481	2R,3R- dihydroxybuty rate levels	GCST90199889	7	3816906	T	C	8223	-0.30	0.06	0.00	0.00	23.40
rs1426060	2R,3R- dihydroxybuty rate levels	GCST90199889	8	74006636	C	T	8223	0.11	0.02	0.00	0.00	41.03
rs13289681	2R,3R- dihydroxybuty rate levels	GCST90199889	9	91657259	A	G	8223	-0.13	0.03	0.00	0.00	20.22
rs80192191	2R,3R- dihydroxybuty rate levels	GCST90199889	10	10333092	T	C	8223	0.26	0.05	0.00	0.00	28.98
rs2068888	2R,3R- dihydroxybuty rate levels	GCST90199889	10	93079885	A	G	8223	0.08	0.02	0.00	0.00	30.27
rs14969339 0	2R,3R- dihydroxybuty rate levels	GCST90199889	12	69072579	T	C	8223	-0.34	0.08	0.00	0.00	20.01
rs12817416	2R,3R- dihydroxybuty rate levels	GCST90199889	12	76182715	T	C	8223	0.09	0.02	0.00	0.00	19.59
rs11700528 1	2R,3R- dihydroxybuty rate levels	GCST90199889	13	26967892	A	G	8223	0.27	0.06	0.00	0.00	19.66
rs75295759	2R,3R- dihydroxybuty rate levels	GCST90199889	14	70682332	A	G	8223	0.12	0.03	0.00	0.00	22.49
rs11207753 0	2R,3R- dihydroxybuty rate levels	GCST90199889	14	91034063	C	T	8223	-0.22	0.05	0.00	0.00	20.97
rs11525644 5	2R,3R- dihydroxybuty rate levels	GCST90199889	14	100346168	C	A	8223	-0.11	0.02	0.00	0.01	49.10
rs7172632	2R,3R- dihydroxybuty rate levels	GCST90199889	15	74383317	G	T	8223	0.15	0.03	0.00	0.00	21.24
rs4777666	2R,3R- dihydroxybuty rate levels	GCST90199889	15	93429116	G	A	8223	-0.09	0.02	0.00	0.00	19.54
rs62020511	2R,3R- dihydroxybuty rate levels	GCST90199889	15	95643297	T	C	8223	-0.12	0.03	0.00	0.00	21.76
rs13889	2R,3R- dihydroxybuty rate levels	GCST90199889	16	1777001	T	C	8223	-0.19	0.04	0.00	0.00	30.09
rs78136893	2R,3R- dihydroxybuty rate levels	GCST90199889	17	55001925	G	C	8223	-0.12	0.02	0.00	0.00	31.86

rs6051169	2R,3R-dihydroxybutyrate levels	GCST90199889	20	26117459	T	C	8223	-0.29	0.06	0.00	0.00	21.80
rs56339442	2R,3R-dihydroxybutyrate levels	GCST90199889	21	39873090	G	C	8223	-0.08	0.02	0.00	0.00	21.88
rs77603131	4-hydroxyglutamate levels	GCST90199890	1	74314511	G	A	7226	0.36	0.07	0.00	0.00	24.55
rs76306311	4-hydroxyglutamate levels	GCST90199890	1	86556983	A	G	7226	0.11	0.02	0.00	0.00	21.67
rs17538288	4-hydroxyglutamate levels	GCST90199890	1	223018675	A	G	7226	-0.08	0.02	0.00	0.00	21.23
rs115187021	4-hydroxyglutamate levels	GCST90199890	2	75191909	T	C	7226	0.42	0.09	0.00	0.00	19.99
rs147700856	4-hydroxyglutamate levels	GCST90199890	3	44147247	A	C	7226	0.29	0.06	0.00	0.00	25.60
rs71319856	4-hydroxyglutamate levels	GCST90199890	3	74540413	A	T	7226	0.31	0.07	0.00	0.00	22.29
rs56897748	4-hydroxyglutamate levels	GCST90199890	3	186295325	C	A	7226	-0.16	0.04	0.00	0.00	21.32
rs150319196	4-hydroxyglutamate levels	GCST90199890	4	185263868	T	G	7226	0.26	0.06	0.00	0.00	19.72
rs75096272	4-hydroxyglutamate levels	GCST90199890	5	36630107	A	G	7226	-0.25	0.05	0.00	0.00	26.98
rs2545790	4-hydroxyglutamate levels	GCST90199890	5	58600899	C	G	7226	-0.09	0.02	0.00	0.00	23.95
rs71637311	4-hydroxyglutamate levels	GCST90199890	5	90754540	T	C	7226	-0.24	0.05	0.00	0.00	21.21
rs78297260	4-hydroxyglutamate levels	GCST90199890	7	45701022	A	T	7226	-0.16	0.04	0.00	0.00	20.60
rs6464809	4-hydroxyglutamate levels	GCST90199890	7	147471112	T	A	7226	-0.08	0.02	0.00	0.00	20.10
rs147019291	4-hydroxyglutamate levels	GCST90199890	8	3740948	T	G	7226	-0.41	0.09	0.00	0.00	22.36
rs7042524	4-hydroxyglutamate levels	GCST90199890	9	20782261	A	G	7226	-0.15	0.03	0.00	0.00	20.19
rs7078003	4-hydroxyglutamate levels	GCST90199890	10	97599655	T	C	7226	-0.16	0.02	0.00	0.01	57.53
rs10835056	4-hydroxyglutamate levels	GCST90199890	11	26675470	G	T	7226	0.09	0.02	0.00	0.00	21.41
rs4765842	4-hydroxyglutamate levels	GCST90199890	12	1748528	A	G	7226	0.08	0.02	0.00	0.00	22.05
rs182753626	4-hydroxyglutamate levels	GCST90199890	12	57534781	G	C	7226	0.29	0.07	0.00	0.00	19.59
rs149999931	4-hydroxyglutamate levels	GCST90199890	13	22366656	A	G	7226	0.40	0.09	0.00	0.00	20.33
rs12441183	4-hydroxyglutamate levels	GCST90199890	15	23588630	C	T	7226	0.07	0.02	0.00	0.00	20.90
rs141671482	4-hydroxyglutamate levels	GCST90199890	15	75772068	C	T	7226	0.12	0.03	0.00	0.00	21.45

rs28609190	4-hydroxyglutamate levels	GCST90199890	15	100563619	C	T	7226	-0.08	0.02	0.00	0.00	22.08
rs6420443	4-hydroxyglutamate levels	GCST90199890	16	82930539	C	A	7226	0.08	0.02	0.00	0.00	19.81
rs28396852	4-hydroxyglutamate levels	GCST90199890	18	2131286	A	T	7226	-0.17	0.04	0.00	0.00	20.00
rs7246170	4-hydroxyglutamate levels	GCST90199890	19	49818253	T	C	7226	-0.11	0.02	0.00	0.00	21.23
rs139181523	4-hydroxyglutamate levels	GCST90199890	22	44543750	G	C	7226	-0.25	0.05	0.00	0.00	23.41
rs17564210	S-methylcysteine levels	GCST90199891	1	171089095	C	T	8239	0.15	0.03	0.00	0.00	29.46
rs2235193	S-methylcysteine levels	GCST90199891	1	171139697	T	C	8239	0.28	0.02	0.00	0.03	245.19
rs10510461	S-methylcysteine levels	GCST90199891	3	16699598	T	C	8239	0.08	0.02	0.00	0.00	19.79
rs114654626	S-methylcysteine levels	GCST90199891	3	98033098	A	G	8239	0.24	0.05	0.00	0.00	20.06
rs901123	S-methylcysteine levels	GCST90199891	4	20049110	A	G	8239	0.07	0.02	0.00	0.00	20.20
rs35991001	S-methylcysteine levels	GCST90199891	6	106046776	T	C	8239	0.37	0.08	0.00	0.00	22.15
rs62427162	S-methylcysteine levels	GCST90199891	6	144406117	G	A	8239	-0.13	0.03	0.00	0.00	22.68
rs12719029	S-methylcysteine levels	GCST90199891	7	51082348	A	G	8239	0.07	0.02	0.00	0.00	19.51
rs10216697	S-methylcysteine levels	GCST90199891	8	73386806	T	C	8239	0.08	0.02	0.00	0.00	24.61
rs2811796	S-methylcysteine levels	GCST90199891	9	18531079	T	A	8239	-0.17	0.04	0.00	0.00	20.28
rs10821267	S-methylcysteine levels	GCST90199891	9	90316933	A	G	8239	-0.13	0.03	0.00	0.00	22.58
rs2505430	S-methylcysteine levels	GCST90199891	10	25816480	C	T	8239	0.40	0.09	0.00	0.00	22.04
rs10769884	S-methylcysteine levels	GCST90199891	11	8212397	C	T	8239	0.12	0.03	0.00	0.00	20.11
rs56200889	S-methylcysteine levels	GCST90199891	11	72697010	C	G	8239	0.08	0.02	0.00	0.00	23.04
rs143726418	S-methylcysteine levels	GCST90199891	12	95531170	G	A	8239	-0.17	0.04	0.00	0.00	20.60
rs17339509	S-methylcysteine levels	GCST90199891	12	97793669	T	C	8239	0.37	0.08	0.00	0.00	23.48
rs73205279	S-methylcysteine levels	GCST90199891	12	113070504	T	C	8239	-0.14	0.03	0.00	0.00	22.31
rs76634910	S-methylcysteine levels	GCST90199891	13	26009520	A	G	8239	0.13	0.03	0.00	0.00	19.99
rs62000680	S-methylcysteine levels	GCST90199891	14	24422156	A	G	8239	0.12	0.03	0.00	0.00	20.82

rs79650801	S-methylcysteine levels	GCST90199891	14	45894746	A	C	8239	0.50	0.11	0.00	0.00	19.61
rs4778017	S-methylcysteine levels	GCST90199891	15	92625692	G	A	8239	-0.07	0.02	0.00	0.00	19.56
rs8127120	S-methylcysteine levels	GCST90199891	21	41247347	G	A	8239	0.11	0.02	0.00	0.00	21.24
rs6687884	Isoursodeoxyc holate levels	GCST90199892	1	175557317	A	G	8234	0.07	0.02	0.00	0.00	20.81
rs140092283	Isoursodeoxyc holate levels	GCST90199892	2	110274374	G	C	8234	-0.20	0.04	0.00	0.00	20.17
rs148956032	Isoursodeoxyc holate levels	GCST90199892	3	156387144	A	G	8234	0.38	0.08	0.00	0.00	20.95
rs148581544	Isoursodeoxyc holate levels	GCST90199892	4	7741917	A	G	8234	-0.31	0.07	0.00	0.00	19.58
rs56407231	Isoursodeoxyc holate levels	GCST90199892	5	16761915	C	A	8234	-0.09	0.02	0.00	0.00	21.64
rs3756669	Isoursodeoxyc holate levels	GCST90199892	5	35965868	C	A	8234	0.13	0.02	0.00	0.00	36.08
rs4024336	Isoursodeoxyc holate levels	GCST90199892	7	152210242	A	G	8234	0.09	0.02	0.00	0.00	22.89
rs10504255	Isoursodeoxyc holate levels	GCST90199892	8	58485902	A	G	8234	0.08	0.02	0.00	0.00	21.31
rs78646567	Isoursodeoxyc holate levels	GCST90199892	8	120689260	A	G	8234	-0.11	0.03	0.00	0.00	20.51
rs2732567	Isoursodeoxyc holate levels	GCST90199892	11	35106917	G	A	8234	-0.08	0.02	0.00	0.00	19.74
rs7988405	Isoursodeoxyc holate levels	GCST90199892	13	57781717	C	A	8234	-0.07	0.02	0.00	0.00	22.91
rs77696112	Isoursodeoxyc holate levels	GCST90199892	14	95349022	T	C	8234	-0.26	0.06	0.00	0.00	21.60
rs72684962	Isoursodeoxyc holate levels	GCST90199892	14	106530669	T	C	8234	-0.18	0.04	0.00	0.00	19.82
rs1383145	Isoursodeoxyc holate levels	GCST90199892	15	98134812	C	A	8234	-0.07	0.02	0.00	0.00	19.53
rs72803399	Isoursodeoxyc holate levels	GCST90199892	16	89504060	C	T	8234	0.41	0.09	0.00	0.00	20.63
rs147829577	Isoursodeoxyc holate levels	GCST90199892	18	31946429	C	G	8234	0.28	0.06	0.00	0.00	21.61
rs73049764	Isoursodeoxyc holate levels	GCST90199892	19	47893758	A	G	8234	-0.10	0.02	0.00	0.00	19.53
rs137939927	Isoursodeoxyc holate levels	GCST90199892	21	45543942	T	C	8234	-0.38	0.08	0.00	0.00	19.75
rs11703218	Isoursodeoxyc holate levels	GCST90199892	22	27565389	T	C	8234	-0.08	0.02	0.00	0.00	20.21
rs56237983	Isoursodeoxyc holate levels	GCST90199892	22	36127043	T	C	8234	-0.09	0.02	0.00	0.00	25.14
rs138999278	Cis-4-decenoate (10:1n6) levels	GCST90199893	1	21700949	T	C	8173	0.24	0.05	0.00	0.00	27.14
rs149556176	Cis-4-decenoate (10:1n6) levels	GCST90199893	1	74971148	C	T	8173	0.40	0.06	0.00	0.00	38.08
rs2185152	Cis-4-decenoate (10:1n6) levels	GCST90199893	1	75758325	T	C	8173	-0.33	0.02	0.00	0.05	423.46
rs1418026	Cis-4-decenoate (10:1n6) levels	GCST90199893	1	119308513	T	C	8173	0.13	0.03	0.00	0.00	23.58
rs28415528	Cis-4-decenoate (10:1n6) levels	GCST90199893	1	151907285	A	G	8173	-0.41	0.02	0.00	0.08	671.71
rs11205002	Cis-4-decenoate (10:1n6) levels	GCST90199893	1	152430863	G	T	8173	-0.08	0.02	0.00	0.00	25.31
rs10021230	Cis-4-decenoate (10:1n6) levels	GCST90199893	4	73879833	A	T	8173	0.08	0.02	0.00	0.00	20.89
rs146431908	Cis-4-decenoate (10:1n6) levels	GCST90199893	5	58445276	C	A	8173	-0.37	0.08	0.00	0.00	21.36

rs34904423	Cis-4-decenoate (10:1n6) levels	GCST90199893	5	85156074	G	A	8173	0.13	0.03	0.00	0.00	21.86
rs79795772	Cis-4-decenoate (10:1n6) levels	GCST90199893	5	96753823	A	G	8173	-0.18	0.04	0.00	0.00	20.35
rs1458352	Cis-4-decenoate (10:1n6) levels	GCST90199893	5	162986460	G	A	8173	-0.09	0.02	0.00	0.00	22.59
rs112085223	Cis-4-decenoate (10:1n6) levels	GCST90199893	7	111038656	C	A	8173	0.16	0.04	0.00	0.00	20.53
rs10102352	Cis-4-decenoate (10:1n6) levels	GCST90199893	8	9348559	G	A	8173	0.07	0.02	0.00	0.00	20.60
rs9298007	Cis-4-decenoate (10:1n6) levels	GCST90199893	8	48446331	T	A	8173	0.08	0.02	0.00	0.00	21.14
rs143180009	Cis-4-decenoate (10:1n6) levels	GCST90199893	8	83353286	T	A	8173	0.27	0.06	0.00	0.00	21.74
rs55988623	Cis-4-decenoate (10:1n6) levels	GCST90199893	9	6496064	G	A	8173	0.13	0.03	0.00	0.00	20.61
rs117734990	Cis-4-decenoate (10:1n6) levels	GCST90199893	12	128598104	C	T	8173	-0.22	0.05	0.00	0.00	19.80
rs4942210	Cis-4-decenoate (10:1n6) levels	GCST90199893	13	43313765	C	T	8173	-0.07	0.02	0.00	0.00	21.12
rs41295332	Cis-4-decenoate (10:1n6) levels	GCST90199893	14	24262508	T	C	8173	0.14	0.03	0.00	0.00	19.75
rs12445598	Cis-4-decenoate (10:1n6) levels	GCST90199893	16	56680877	T	C	8173	-0.07	0.02	0.00	0.00	19.98
rs876481	Cis-4-decenoate (10:1n6) levels	GCST90199893	16	84916864	T	C	8173	-0.08	0.02	0.00	0.00	19.80
rs3935281	Cis-4-decenoate (10:1n6) levels	GCST90199893	17	40032166	T	C	8173	0.07	0.02	0.00	0.00	19.91
rs72831044	4-oxo-retinoic acid levels	GCST90199894	2	108169985	G	T	7514	-0.13	0.03	0.00	0.00	20.35
rs6721929	4-oxo-retinoic acid levels	GCST90199894	2	175860427	C	T	7514	-0.08	0.02	0.00	0.00	21.74
rs115655613	4-oxo-retinoic acid levels	GCST90199894	2	213706894	A	G	7514	-0.26	0.06	0.00	0.00	19.85
rs6714486	4-oxo-retinoic acid levels	GCST90199894	2	233671659	A	T	7514	-0.23	0.03	0.00	0.01	48.02
rs72551330	4-oxo-retinoic acid levels	GCST90199894	2	233672032	C	T	7514	0.50	0.07	0.00	0.01	56.70
rs2596811	4-oxo-retinoic acid levels	GCST90199894	3	11587939	T	C	7514	-0.08	0.02	0.00	0.00	22.18
rs10011241	4-oxo-retinoic acid levels	GCST90199894	4	3276580	C	T	7514	-0.25	0.06	0.00	0.00	20.34
rs35911076	4-oxo-retinoic acid levels	GCST90199894	4	139372736	G	C	7514	0.08	0.02	0.00	0.00	20.08
rs603424	4-oxo-retinoic acid levels	GCST90199894	10	100315722	A	G	7514	0.10	0.02	0.00	0.00	21.10
rs150127605	4-oxo-retinoic acid levels	GCST90199894	12	991093	A	G	7514	-0.19	0.04	0.00	0.00	25.68
rs62051928	4-oxo-retinoic acid levels	GCST90199894	16	86458865	C	G	7514	-0.08	0.02	0.00	0.00	20.98
rs4990638	4-oxo-retinoic acid levels	GCST90199894	17	34645710	C	T	7514	-0.13	0.03	0.00	0.00	21.05
rs12606866	4-oxo-retinoic acid levels	GCST90199894	18	13497154	C	A	7514	0.08	0.02	0.00	0.00	23.28
rs66531867	4-oxo-retinoic acid levels	GCST90199894	18	30914957	G	A	7514	0.15	0.03	0.00	0.00	22.48
rs241600	4-oxo-retinoic acid levels	GCST90199894	20	3930623	G	T	7514	-0.08	0.02	0.00	0.00	21.36
rs6079225	4-oxo-retinoic acid levels	GCST90199894	20	13926533	C	G	7514	0.13	0.03	0.00	0.00	19.83

rs61824986	1-lignoceroyl- GPC (24:0) levels	GCST90199895	1	205444432	A	G	8208	-0.12	0.03	0.00	0.00	20.14
rs902130	1-lignoceroyl- GPC (24:0) levels	GCST90199895	2	10770843	T	C	8208	-0.07	0.02	0.00	0.00	19.77
rs77346854	1-lignoceroyl- GPC (24:0) levels	GCST90199895	2	43653712	T	G	8208	0.12	0.03	0.00	0.00	20.51
rs67802215	1-lignoceroyl- GPC (24:0) levels	GCST90199895	2	207477927	T	C	8208	-0.09	0.02	0.00	0.00	20.88
rs62190280	1-lignoceroyl- GPC (24:0) levels	GCST90199895	2	241659003	A	G	8208	0.10	0.02	0.00	0.00	19.73
rs12492889	1-lignoceroyl- GPC (24:0) levels	GCST90199895	3	4572500	G	A	8208	-0.08	0.02	0.00	0.00	22.10
rs77787114	1-lignoceroyl- GPC (24:0) levels	GCST90199895	4	33377297	C	T	8208	-0.33	0.07	0.00	0.00	24.62
rs118032635	1-lignoceroyl- GPC (24:0) levels	GCST90199895	6	127724578	C	T	8208	-0.31	0.07	0.00	0.00	20.02
rs17575985	1-lignoceroyl- GPC (24:0) levels	GCST90199895	7	133375782	C	T	8208	-0.09	0.02	0.00	0.00	24.34
rs139195718	1-lignoceroyl- GPC (24:0) levels	GCST90199895	10	3054356	T	C	8208	0.23	0.05	0.00	0.00	21.82
rs35411360	1-lignoceroyl- GPC (24:0) levels	GCST90199895	11	43892966	C	A	8208	-0.21	0.05	0.00	0.00	20.72
rs174560	1-lignoceroyl- GPC (24:0) levels	GCST90199895	11	61814292	C	T	8208	-0.14	0.02	0.00	0.01	66.29
rs78773001	1-lignoceroyl- GPC (24:0) levels	GCST90199895	11	87970339	G	A	8208	0.14	0.03	0.00	0.00	19.93
rs16960724	1-lignoceroyl- GPC (24:0) levels	GCST90199895	13	102906289	G	C	8208	0.29	0.06	0.00	0.00	20.39
rs62052947	1-lignoceroyl- GPC (24:0) levels	GCST90199895	16	74860024	G	A	8208	0.16	0.03	0.00	0.00	21.91
rs1042580	1-lignoceroyl- GPC (24:0) levels	GCST90199895	20	23046984	C	T	8208	-0.08	0.02	0.00	0.00	20.97
rs36007427	Sulfate levels	GCST90199896	1	6413470	G	T	8230	0.12	0.03	0.00	0.00	21.95
rs11577971	Sulfate levels	GCST90199896	1	6542940	T	C	8230	-0.16	0.04	0.00	0.00	20.91
rs1045017	Sulfate levels	GCST90199896	1	23761638	A	G	8230	0.08	0.02	0.00	0.00	20.57
rs6679019	Sulfate levels	GCST90199896	1	169016724	A	G	8230	-0.14	0.03	0.00	0.00	19.80
rs4625268	Sulfate levels	GCST90199896	1	240725500	T	G	8230	0.09	0.02	0.00	0.00	24.47
rs7597314	Sulfate levels	GCST90199896	2	115940600	G	A	8230	0.09	0.02	0.00	0.00	20.84
rs147650122	Sulfate levels	GCST90199896	3	56920867	A	G	8230	0.13	0.03	0.00	0.00	21.38
rs149062332	Sulfate levels	GCST90199896	3	186623236	C	T	8230	0.33	0.07	0.00	0.00	20.32
rs1051613	Sulfate levels	GCST90199896	4	957391	A	G	8230	-0.08	0.02	0.00	0.00	24.69
rs72613188	Sulfate levels	GCST90199896	4	5246972	A	G	8230	0.21	0.04	0.00	0.00	23.04
rs73224766	Sulfate levels	GCST90199896	4	36946573	C	T	8230	-0.12	0.03	0.00	0.00	23.17
rs6813823	Sulfate levels	GCST90199896	4	187921055	A	G	8230	-0.12	0.03	0.00	0.00	19.93
rs522152	Sulfate levels	GCST90199896	5	73156528	T	C	8230	-0.11	0.02	0.00	0.00	20.28
rs116402366	Sulfate levels	GCST90199896	5	177363806	A	G	8230	0.24	0.05	0.00	0.00	24.21
rs78559311	Sulfate levels	GCST90199896	7	18907064	T	A	8230	0.17	0.04	0.00	0.00	20.11
rs58547626	Sulfate levels	GCST90199896	7	72088685	G	T	8230	-0.09	0.02	0.00	0.00	21.08
rs1343904	Sulfate levels	GCST90199896	7	123167557	T	C	8230	-0.09	0.02	0.00	0.00	33.77
rs41313101	Sulfate levels	GCST90199896	7	150972232	A	G	8230	-0.23	0.05	0.00	0.00	21.50
rs145823919	Sulfate levels	GCST90199896	9	91095908	T	G	8230	-0.35	0.07	0.00	0.00	22.55
rs75651177	Sulfate levels	GCST90199896	11	12396840	A	G	8230	0.14	0.03	0.00	0.00	20.04
rs11028610	Sulfate levels	GCST90199896	11	25338362	T	G	8230	-0.08	0.02	0.00	0.00	21.37

rs14234161 4	Sulfate levels	GCST90199896	11	107478677	T	G	8230	-0.22	0.05	0.00	0.00	23.27
rs77101172	Sulfate levels	GCST90199896	12	4664107	T	A	8230	0.11	0.03	0.00	0.00	19.52
rs2255531	Sulfate levels	GCST90199896	12	120977112	A	G	8230	0.08	0.02	0.00	0.00	24.25
rs9509908	Sulfate levels	GCST90199896	13	21878948	C	T	8230	0.07	0.02	0.00	0.00	21.01
rs11791166 3	Sulfate levels	GCST90199896	14	48417778	A	G	8230	-0.21	0.05	0.00	0.00	21.11
rs12435767	Sulfate levels	GCST90199896	14	62068455	G	A	8230	0.13	0.03	0.00	0.00	20.46
rs892405	Sulfate levels	GCST90199896	15	38914568	C	A	8230	-0.07	0.02	0.00	0.00	21.83
rs14229017 4	Sulfate levels	GCST90199896	15	100551364	T	C	8230	-0.18	0.04	0.00	0.00	20.95
rs13038820	Sulfate levels 4-hydroxy-2-	GCST90199896	20	38613187	A	G	8230	-0.10	0.02	0.00	0.00	21.89
rs3122550	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	1	55781379	A	G	7919	-0.08	0.02	0.00	0.00	23.25
rs75117584	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	1	105643393	G	A	7919	0.16	0.04	0.00	0.00	19.60
rs1231890	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	1	192752214	C	T	7919	-0.07	0.02	0.00	0.00	20.23
rs14572423 2	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	2	7599759	G	T	7919	0.28	0.06	0.00	0.00	20.18
rs11691945	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	2	80073106	C	T	7919	-0.08	0.02	0.00	0.00	19.74
rs13390061	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	2	126024409	T	C	7919	-0.17	0.03	0.00	0.00	22.48
rs20133092 1	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	3	85172727	C	T	7919	0.19	0.04	0.00	0.00	24.92
rs11708537	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	3	134404346	A	G	7919	-0.09	0.02	0.00	0.00	19.97
rs2412398	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	4	53203272	G	C	7919	-0.08	0.02	0.00	0.00	21.30
rs28661681	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	4	69989261	T	C	7919	0.13	0.03	0.00	0.00	24.81
rs62306559	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	4	87195646	T	C	7919	0.20	0.04	0.00	0.00	19.94
rs14706263 8	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	5	57821218	A	T	7919	0.27	0.06	0.00	0.00	19.94
rs1111546	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	7	17411889	T	C	7919	-0.16	0.03	0.00	0.00	24.12
rs11809613 1	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	7	77987679	A	G	7919	0.25	0.05	0.00	0.00	21.64
rs74947424	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	7	106058865	A	G	7919	0.32	0.07	0.00	0.00	23.68
rs11785370	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	8	29494040	G	A	7919	0.08	0.02	0.00	0.00	19.74
rs4738772	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	8	59399607	A	G	7919	0.08	0.02	0.00	0.00	21.10
rs78322209	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	10	8839128	C	T	7919	0.34	0.07	0.00	0.00	22.93
rs14242690 9	oxoglutaric acid levels 4-hydroxy-2-	GCST90199897	10	97695700	T	C	7919	-0.26	0.05	0.00	0.00	23.60
rs78091273	oxoglutaric acid levels	GCST90199897	12	111350430	T	C	7919	0.49	0.10	0.00	0.00	23.90

rs17698082	4-hydroxy-2-oxoglutaric acid levels	GCST90199897	13	55046629	G	A	7919	0.22	0.04	0.00	0.00	23.71
rs116921574	4-hydroxy-2-oxoglutaric acid levels	GCST90199897	14	56336549	C	T	7919	0.33	0.07	0.00	0.00	24.89
rs2749530	4-hydroxy-2-oxoglutaric acid levels	GCST90199897	14	94349962	G	A	7919	-0.07	0.02	0.00	0.00	21.73
rs141532226	4-hydroxy-2-oxoglutaric acid levels	GCST90199897	16	51065004	G	A	7919	0.21	0.04	0.00	0.00	26.43
rs140620704	4-hydroxy-2-oxoglutaric acid levels	GCST90199897	16	76120178	C	T	7919	0.25	0.06	0.00	0.00	20.51
rs4795346	4-hydroxy-2-oxoglutaric acid levels	GCST90199897	17	39081500	A	G	7919	0.08	0.02	0.00	0.00	21.64
rs1943826	4-hydroxy-2-oxoglutaric acid levels	GCST90199897	18	73303620	T	C	7919	-0.15	0.03	0.00	0.00	19.71
rs111299714	4-hydroxy-2-oxoglutaric acid levels	GCST90199897	20	346076	A	G	7919	0.20	0.04	0.00	0.00	21.24
rs535173560	Glycoursodeoxycholate levels	GCST90199898	1	197623370	A	C	8252	-0.30	0.07	0.00	0.00	19.56
rs115625365	Glycoursodeoxycholate levels	GCST90199898	2	20388275	T	C	8252	-0.22	0.05	0.00	0.00	22.19
rs6731003	Glycoursodeoxycholate levels	GCST90199898	2	22746816	C	G	8252	-0.07	0.02	0.00	0.00	20.30
rs115259806	Glycoursodeoxycholate levels	GCST90199898	2	35776779	T	C	8252	-0.17	0.04	0.00	0.00	19.64
rs35811114	Glycoursodeoxycholate levels	GCST90199898	2	141803190	C	T	8252	-0.15	0.03	0.00	0.00	19.90
rs147509209	Glycoursodeoxycholate levels	GCST90199898	3	59357068	T	G	8252	-0.35	0.08	0.00	0.00	21.57
rs2132579	Glycoursodeoxycholate levels	GCST90199898	3	89085975	T	G	8252	-0.10	0.02	0.00	0.00	20.35
rs139757554	Glycoursodeoxycholate levels	GCST90199898	3	111542918	A	G	8252	-0.25	0.06	0.00	0.00	20.18
rs7697610	Glycoursodeoxycholate levels	GCST90199898	4	30649351	T	A	8252	-0.08	0.02	0.00	0.00	22.72
rs34386075	Glycoursodeoxycholate levels	GCST90199898	7	88279772	G	A	8252	0.16	0.03	0.00	0.00	20.78
rs182563985	Glycoursodeoxycholate levels	GCST90199898	7	134171040	T	A	8252	0.47	0.10	0.00	0.00	23.01
rs117616724	Glycoursodeoxycholate levels	GCST90199898	7	146413123	A	G	8252	0.45	0.09	0.00	0.00	24.81
rs2170939	Glycoursodeoxycholate levels	GCST90199898	8	16070737	C	T	8252	-0.07	0.02	0.00	0.00	19.71
rs4606409	Glycoursodeoxycholate levels	GCST90199898	10	56015837	A	C	8252	0.29	0.06	0.00	0.00	23.55
rs180774442	Glycoursodeoxycholate levels	GCST90199898	11	35299388	C	T	8252	-0.44	0.09	0.00	0.00	21.65
rs117693717	Glycoursodeoxycholate levels	GCST90199898	11	87413562	C	G	8252	-0.25	0.05	0.00	0.00	22.13
rs2697073	Glycoursodeoxycholate levels	GCST90199898	11	91723705	T	C	8252	-0.07	0.02	0.00	0.00	20.37
rs73551625	Glycoursodeoxycholate levels	GCST90199898	11	107487965	G	A	8252	-0.20	0.04	0.00	0.00	21.67
rs10841268	Glycoursodeoxycholate levels	GCST90199898	12	19575043	T	C	8252	-0.07	0.02	0.00	0.00	21.57
rs7303996	Glycoursodeoxycholate levels	GCST90199898	12	59051185	C	T	8252	0.19	0.04	0.00	0.00	21.03
rs78374881	Glycoursodeoxycholate levels	GCST90199898	13	104853642	A	G	8252	0.10	0.02	0.00	0.00	20.18
rs554892792	Glycoursodeoxycholate levels	GCST90199898	14	65457999	A	G	8252	0.37	0.08	0.00	0.00	22.74
rs4777746	Glycoursodeoxycholate levels	GCST90199898	15	92855509	C	T	8252	0.08	0.02	0.00	0.00	22.36
rs79814358	Glycoursodeoxycholate levels	GCST90199898	17	13187017	A	G	8252	-0.10	0.02	0.00	0.00	21.18
rs72955296	Glycoursodeoxycholate levels	GCST90199898	18	33908972	A	G	8252	0.19	0.04	0.00	0.00	19.89

rs113390889	Glycoursodeoxycholate levels	GCST90199898	19	11197621	T	C	8252	-0.15	0.03	0.00	0.00	23.42
rs61781291	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	1	39936166	A	T	8170	0.13	0.02	0.00	0.01	55.68
rs6692150	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	1	187401964	C	A	8170	0.08	0.02	0.00	0.00	19.72
rs12987874	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	2	165156288	C	T	8170	0.07	0.02	0.00	0.00	20.01
rs569415514	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	2	228691335	C	T	8170	0.38	0.08	0.00	0.00	22.09
rs9808956	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	3	12174156	G	A	8170	0.11	0.03	0.00	0.00	19.84
rs79879633	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	3	181575675	A	G	8170	-0.15	0.03	0.00	0.00	19.67
rs143269888	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	5	10003001	G	T	8170	-0.20	0.04	0.00	0.00	21.29
rs299362	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	5	134985856	A	G	8170	-0.12	0.03	0.00	0.00	20.75
rs199959058	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	5	161072204	T	C	8170	0.08	0.02	0.00	0.00	21.24
rs56001438	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	6	153254016	T	C	8170	-0.21	0.05	0.00	0.00	20.18
rs62460125	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	7	56365926	C	T	8170	0.15	0.03	0.00	0.00	24.29
rs146372921	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	8	38795231	T	C	8170	0.37	0.08	0.00	0.00	21.03
rs73721339	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	8	139055133	A	C	8170	0.15	0.03	0.00	0.00	22.47
rs12547067	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	8	141188171	A	G	8170	0.10	0.02	0.00	0.00	20.90
rs34799273	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	10	104205138	G	A	8170	-0.09	0.02	0.00	0.00	19.90
rs174560	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	11	61814292	C	T	8170	-0.17	0.02	0.00	0.01	106.81
rs61916719	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	12	721129	T	C	8170	0.07	0.02	0.00	0.00	19.93
rs2766114	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	13	23343458	A	G	8170	0.08	0.02	0.00	0.00	23.01

rs77107962	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	13	30165627	T	C	8170	-0.21	0.04	0.00	0.00	23.30
rs1077989	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	14	67509105	C	A	8170	-0.10	0.02	0.00	0.00	40.97
rs11481699 9	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	14	67712562	T	C	8170	-0.18	0.04	0.00	0.00	21.43
rs4786957	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	16	7000761	C	T	8170	0.07	0.02	0.00	0.00	19.55
rs62036205	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	16	78841158	C	A	8170	-0.13	0.03	0.00	0.00	21.93
rs12921296	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	16	83938887	A	G	8170	-0.10	0.02	0.00	0.00	21.52
rs11350458 0	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	17	11062189	T	C	8170	0.52	0.12	0.00	0.00	19.87
rs3910162	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	18	41797838	G	A	8170	-0.09	0.02	0.00	0.00	19.82
rs7262063	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	20	39061592	A	G	8170	-0.07	0.02	0.00	0.00	20.29
rs80319729	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	21	22322958	T	C	8170	-0.13	0.03	0.00	0.00	20.41
rs11363370 6	1-(1-enyl-palmitoyl)-GPC (p-16:0) levels	GCST90199899	22	17392279	A	G	8170	0.22	0.05	0.00	0.00	19.67
rs6690813	Argininate levels	GCST90199900	1	15534578	A	C	8226	0.13	0.01	0.00	0.01	74.31
rs7578600	Argininate levels	GCST90199900	2	41048689	G	A	8226	0.40	0.09	0.00	0.00	19.57
rs3768921	Argininate levels	GCST90199900	2	236118949	A	G	8226	-0.07	0.02	0.00	0.00	20.96
rs75452632	Argininate levels	GCST90199900	2	237166021	T	C	8226	-0.25	0.06	0.00	0.00	20.53
rs2595917	Argininate levels	GCST90199900	3	101020964	A	C	8226	0.10	0.02	0.00	0.00	21.75
rs11719704	Argininate levels	GCST90199900	3	196614012	T	C	8226	-0.13	0.03	0.00	0.00	21.92
rs73812864	Argininate levels	GCST90199900	4	46404527	T	C	8226	0.23	0.05	0.00	0.00	19.84
rs13107325	Argininate levels	GCST90199900	4	102267552	T	C	8226	0.25	0.03	0.00	0.01	78.84
rs4078080	Argininate levels	GCST90199900	5	5296477	T	C	8226	0.08	0.02	0.00	0.00	20.35
rs62427615	Argininate levels	GCST90199900	6	106816823	T	C	8226	-0.16	0.04	0.00	0.00	19.62
rs73542824	Argininate levels	GCST90199900	6	131552842	A	G	8226	0.23	0.04	0.00	0.00	30.44
rs79396063	Argininate levels	GCST90199900	6	144008589	T	C	8226	0.09	0.02	0.00	0.00	21.80
rs80254170	Argininate levels	GCST90199900	6	160093251	G	A	8226	-0.21	0.03	0.00	0.01	57.22
rs662138	Argininate levels	GCST90199900	6	160143444	G	C	8226	-0.22	0.02	0.00	0.02	128.28
rs6946783	Argininate levels	GCST90199900	7	79980021	C	G	8226	0.09	0.02	0.00	0.00	19.89

rs62525305	Argininate levels	GCST90199900	8	103008512	A	G	8226	0.07	0.02	0.00	0.00	20.01
rs112150405	Argininate levels	GCST90199900	11	16706238	A	G	8226	0.29	0.06	0.00	0.00	25.80
rs146200874	Argininate levels	GCST90199900	11	80681523	A	G	8226	-0.35	0.07	0.00	0.00	28.31
rs181447152	Argininate levels	GCST90199900	11	116006896	A	G	8226	-0.13	0.03	0.00	0.00	21.94
rs139663394	Argininate levels	GCST90199900	12	78340182	T	G	8226	0.33	0.07	0.00	0.00	20.09
rs11070148	Argininate levels	GCST90199900	13	95652412	T	C	8226	0.11	0.02	0.00	0.00	20.29
rs11635044	Argininate levels	GCST90199900	15	82638926	C	T	8226	-0.14	0.03	0.00	0.00	19.66
rs73946175	Argininate levels	GCST90199900	18	34767870	G	A	8226	-0.12	0.03	0.00	0.00	20.96
rs145356253	Argininate levels	GCST90199900	18	68318220	A	G	8226	0.27	0.06	0.00	0.00	20.19
rs55797913	Argininate levels	GCST90199900	19	35879828	T	A	8226	0.19	0.04	0.00	0.00	20.43
rs191784228	Argininate levels	GCST90199900	21	25101849	C	T	8226	-0.30	0.07	0.00	0.00	20.49
rs62223512	Argininate levels	GCST90199900	21	38155586	T	C	8226	-0.14	0.03	0.00	0.00	21.00
rs11210812	imidazoleacetate levels	GCST90199901	1	43206965	G	T	8171	0.07	0.02	0.00	0.00	19.84
rs9803636	imidazoleacetate levels	GCST90199901	1	94728477	A	G	8171	0.19	0.04	0.00	0.00	22.47
rs67072942	imidazoleacetate levels	GCST90199901	1	203768908	T	C	8171	-0.09	0.02	0.00	0.00	20.64
rs17539562	imidazoleacetate levels	GCST90199901	2	40669236	A	G	8171	0.07	0.02	0.00	0.00	20.63
rs75035300	imidazoleacetate levels	GCST90199901	2	117161189	G	A	8171	-0.27	0.06	0.00	0.00	19.65
rs10181994	imidazoleacetate levels	GCST90199901	2	126725507	T	A	8171	0.07	0.02	0.00	0.00	20.27
rs115219554	imidazoleacetate levels	GCST90199901	3	20573193	G	A	8171	-0.27	0.06	0.00	0.00	19.58
rs9828636	imidazoleacetate levels	GCST90199901	3	190861708	G	C	8171	-0.11	0.02	0.00	0.00	22.17
rs9822544	imidazoleacetate levels	GCST90199901	3	194812741	A	C	8171	-0.07	0.02	0.00	0.00	20.10
rs7663168	imidazoleacetate levels	GCST90199901	4	66471896	G	T	8171	-0.10	0.02	0.00	0.00	25.56
rs6857011	imidazoleacetate levels	GCST90199901	4	148134286	T	C	8171	0.09	0.02	0.00	0.00	24.55
rs314092	imidazoleacetate levels	GCST90199901	4	188524764	C	T	8171	-0.07	0.02	0.00	0.00	19.97
rs149235632	imidazoleacetate levels	GCST90199901	5	145341875	C	G	8171	-0.47	0.10	0.00	0.00	21.14
rs13175076	imidazoleacetate levels	GCST90199901	5	160799961	T	G	8171	0.07	0.02	0.00	0.00	20.07
rs149200430	imidazoleacetate levels	GCST90199901	7	101066728	T	G	8171	-0.29	0.06	0.00	0.00	20.81
rs7863571	imidazoleacetate levels	GCST90199901	9	2444983	G	A	8171	-0.09	0.02	0.00	0.00	20.67

rs7094385	1-methyl-5- imidazoleaceta te levels	GCST90199901	10	12091253	G	A	8171	0.13	0.02	0.00	0.01	47.97
rs14179508 7	1-methyl-5- imidazoleaceta te levels	GCST90199901	10	107625672	C	T	8171	0.35	0.07	0.00	0.00	24.77
rs2753408	1-methyl-5- imidazoleaceta te levels	GCST90199901	11	33378145	A	G	8171	-0.07	0.02	0.00	0.00	20.70
rs11726591 9	1-methyl-5- imidazoleaceta te levels	GCST90199901	11	96435856	T	C	8171	0.21	0.05	0.00	0.00	20.59
rs215335	1-methyl-5- imidazoleaceta te levels	GCST90199901	12	47335812	C	T	8171	0.07	0.02	0.00	0.00	21.33
rs9545198	1-methyl-5- imidazoleaceta te levels	GCST90199901	13	79807497	G	C	8171	-0.11	0.02	0.00	0.00	21.77
rs338409	1-methyl-5- imidazoleaceta te levels	GCST90199901	15	60244274	T	C	8171	-0.26	0.06	0.00	0.00	22.74
rs12443780	1-methyl-5- imidazoleaceta te levels	GCST90199901	16	827309	T	C	8171	-0.07	0.02	0.00	0.00	21.25
rs16945888	1-methyl-5- imidazoleaceta te levels	GCST90199901	18	4019716	G	A	8171	0.08	0.02	0.00	0.00	22.23
rs536593	1-methyl-5- imidazoleaceta te levels	GCST90199901	19	21348035	G	C	8171	0.10	0.02	0.00	0.00	19.59
rs14980747 7	1-methyl-5- imidazoleaceta te levels	GCST90199901	19	32596526	T	C	8171	-0.26	0.06	0.00	0.00	19.74
rs11777146 0	1-methyl-5- imidazoleaceta te levels	GCST90199901	19	39659519	A	G	8171	0.26	0.06	0.00	0.00	19.51
rs74554556	1-methyl-5- imidazoleaceta te levels	GCST90199901	22	26222153	T	C	8171	-0.20	0.04	0.00	0.00	22.57
rs12131886	Hydantoin-5- propionate levels	GCST90199902	1	116882955	G	A	8164	0.13	0.03	0.00	0.00	20.40
rs14210100 0	Hydantoin-5- propionate levels	GCST90199902	2	178165263	A	G	8164	0.12	0.03	0.00	0.00	20.33
rs58909877	Hydantoin-5- propionate levels	GCST90199902	2	200531320	C	G	8164	0.13	0.02	0.00	0.01	45.19
rs34892292	Hydantoin-5- propionate levels	GCST90199902	2	200666113	G	C	8164	-0.09	0.02	0.00	0.00	23.35
rs4677186	Hydantoin-5- propionate levels	GCST90199902	3	72563516	C	T	8164	0.12	0.02	0.00	0.00	23.79
rs73215975	Hydantoin-5- propionate levels	GCST90199902	3	132387679	G	T	8164	-0.22	0.05	0.00	0.00	20.56
rs9986775	Hydantoin-5- propionate levels	GCST90199902	7	25411185	G	A	8164	-0.09	0.02	0.00	0.00	22.35
rs7841961	Hydantoin-5- propionate levels	GCST90199902	8	135023684	C	T	8164	0.08	0.02	0.00	0.00	22.86
rs10123452	Hydantoin-5- propionate levels	GCST90199902	9	129800561	A	G	8164	0.08	0.02	0.00	0.00	20.78
rs1937886	Hydantoin-5- propionate levels	GCST90199902	10	5018588	C	G	8164	0.07	0.02	0.00	0.00	22.51
rs1876302	Hydantoin-5- propionate levels	GCST90199902	11	6651109	T	C	8164	0.36	0.08	0.00	0.00	20.19

rs75072238	Hydantoin-5-propionate levels	GCST90199902	11	119407464	T	C	8164	0.27	0.06	0.00	0.00	19.92
rs7955759	Hydantoin-5-propionate levels	GCST90199902	12	95943386	A	G	8164	0.12	0.02	0.00	0.01	49.42
rs182157428	Hydantoin-5-propionate levels	GCST90199902	13	29305481	C	A	8164	-0.38	0.08	0.00	0.00	20.94
rs372677215	Hydantoin-5-propionate levels	GCST90199902	16	70912836	C	A	8164	-0.15	0.03	0.00	0.00	19.88
rs11651083	Hydantoin-5-propionate levels	GCST90199902	17	1198288	A	G	8164	0.07	0.02	0.00	0.00	20.62
rs59038625	Hydantoin-5-propionate levels	GCST90199902	18	36209431	C	T	8164	-0.20	0.04	0.00	0.00	30.15
rs8106803	Hydantoin-5-propionate levels	GCST90199902	19	12538550	G	A	8164	0.08	0.02	0.00	0.00	19.61
rs191305623	Hydantoin-5-propionate levels	GCST90199902	19	47835358	C	T	8164	0.36	0.08	0.00	0.00	20.60
rs117966208	Hydantoin-5-propionate levels	GCST90199902	21	26985667	T	C	8164	0.45	0.10	0.00	0.00	20.73
rs77375425	2-oxoarginine levels	GCST90199903	1	7453185	A	G	8223	0.17	0.04	0.00	0.00	21.92
rs2506978	2-oxoarginine levels	GCST90199903	1	47556692	G	C	8223	0.08	0.02	0.00	0.00	21.41
rs114730484	2-oxoarginine levels	GCST90199903	2	64315781	T	C	8223	0.34	0.08	0.00	0.00	20.12
rs13107325	2-oxoarginine levels	GCST90199903	4	102267552	T	C	8223	0.16	0.03	0.00	0.00	30.11
rs6825162	2-oxoarginine levels	GCST90199903	4	187926273	C	T	8223	-0.11	0.02	0.00	0.00	19.81
rs115315385	2-oxoarginine levels	GCST90199903	5	20441773	A	G	8223	-0.21	0.05	0.00	0.00	20.42
rs4700446	2-oxoarginine levels	GCST90199903	5	61838763	T	C	8223	-0.08	0.02	0.00	0.00	20.40
rs2781659	2-oxoarginine levels	GCST90199903	6	131570680	G	A	8223	0.08	0.02	0.00	0.00	21.45
rs80254170	2-oxoarginine levels	GCST90199903	6	160093251	G	A	8223	-0.15	0.03	0.00	0.00	26.43
rs662138	2-oxoarginine levels	GCST90199903	6	160143444	G	C	8223	-0.15	0.02	0.00	0.01	56.05
rs2015663	2-oxoarginine levels	GCST90199903	7	8852227	G	T	8223	-0.08	0.02	0.00	0.00	21.98
rs4871916	2-oxoarginine levels	GCST90199903	8	24446672	G	C	8223	-0.10	0.02	0.00	0.00	19.84
rs74382821	2-oxoarginine levels	GCST90199903	9	103115981	A	C	8223	-0.12	0.03	0.00	0.00	21.63
rs61865625	2-oxoarginine levels	GCST90199903	10	132461024	T	C	8223	0.14	0.03	0.00	0.00	20.27
rs182604304	2-oxoarginine levels	GCST90199903	11	60311939	A	T	8223	0.22	0.04	0.00	0.00	24.53
rs523917	2-oxoarginine levels	GCST90199903	11	121517272	T	A	8223	-0.07	0.02	0.00	0.00	21.35
rs11070148	2-oxoarginine levels	GCST90199903	13	95652412	T	C	8223	0.11	0.03	0.00	0.00	20.49
rs35311230	2-oxoarginine levels	GCST90199903	15	43341299	C	G	8223	0.08	0.02	0.00	0.00	19.70
rs28609442	2-oxoarginine levels	GCST90199903	15	80372458	C	T	8223	0.07	0.02	0.00	0.00	20.79
rs74581116	2-oxoarginine levels	GCST90199903	20	12536405	T	G	8223	-0.16	0.03	0.00	0.00	23.12
rs28437498	2-oxoarginine levels	GCST90199903	20	18111939	C	T	8223	0.07	0.02	0.00	0.00	19.80
rs55747431	2-oxoarginine levels	GCST90199903	20	51944732	C	T	8223	-0.11	0.02	0.00	0.00	26.64
rs77037571	2-oxoarginine levels	GCST90199903	22	47550046	T	C	8223	0.10	0.02	0.00	0.00	19.71
rs3128315	Pantoate levels	GCST90199904	1	2047625	T	C	7662	-0.08	0.02	0.00	0.00	20.36

rs72674186	Pantoate levels	GCST90199904	1	58594874	C	T	7662	0.14	0.03	0.00	0.00	22.69
rs5021965	Pantoate levels	GCST90199904	1	112302159	G	T	7662	0.08	0.02	0.00	0.00	21.00
rs34758764	Pantoate levels	GCST90199904	1	204125859	T	C	7662	-0.32	0.07	0.00	0.00	20.39
rs77268173	Pantoate levels	GCST90199904	1	220219180	C	T	7662	0.46	0.09	0.00	0.00	28.44
rs139247993	Pantoate levels	GCST90199904	2	95761558	T	C	7662	0.38	0.08	0.00	0.00	22.11
rs112411073	Pantoate levels	GCST90199904	2	214138583	C	A	7662	0.30	0.06	0.00	0.00	22.52
rs9863674	Pantoate levels	GCST90199904	3	23933890	T	C	7662	-0.08	0.02	0.00	0.00	20.00
rs13092046	Pantoate levels	GCST90199904	3	74485801	T	C	7662	-0.07	0.02	0.00	0.00	19.98
rs13117011	Pantoate levels	GCST90199904	4	17169611	A	C	7662	0.08	0.02	0.00	0.00	23.62
rs76709502	Pantoate levels	GCST90199904	4	136429775	A	G	7662	0.20	0.04	0.00	0.00	22.69
rs7703426	Pantoate levels	GCST90199904	5	4089386	G	A	7662	0.10	0.02	0.00	0.00	25.91
rs7718223	Pantoate levels	GCST90199904	5	117468559	T	C	7662	0.14	0.03	0.00	0.00	19.89
rs99507	Pantoate levels	GCST90199904	5	139739663	A	T	7662	0.10	0.02	0.00	0.00	19.64
rs76237747	Pantoate levels	GCST90199904	7	10505420	C	T	7662	-0.08	0.02	0.00	0.00	21.38
rs142359395	Pantoate levels	GCST90199904	7	62642587	A	T	7662	1.10	0.24	0.00	0.00	20.64
rs12379111	Pantoate levels	GCST90199904	9	22128181	G	C	7662	0.12	0.03	0.00	0.00	19.72
rs150381978	Pantoate levels	GCST90199904	10	23729989	T	C	7662	-0.33	0.07	0.00	0.00	19.90
rs10510024	Pantoate levels	GCST90199904	10	116620441	C	G	7662	-0.07	0.02	0.00	0.00	19.54
rs3886820	Pantoate levels	GCST90199904	11	100498063	T	A	7662	0.11	0.02	0.00	0.00	20.51
rs78959966	Pantoate levels	GCST90199904	12	20708591	T	C	7662	0.20	0.04	0.00	0.00	21.33
rs142343475	Pantoate levels	GCST90199904	12	27180699	G	C	7662	0.29	0.06	0.00	0.00	20.28
rs12428162	Pantoate levels	GCST90199904	13	108219567	C	G	7662	-0.09	0.02	0.00	0.00	24.58
rs1024200	Pantoate levels	GCST90199904	14	95370054	A	G	7662	0.07	0.02	0.00	0.00	19.54
rs76106888	Pantoate levels	GCST90199904	15	100318721	A	G	7662	0.62	0.14	0.00	0.00	20.29
rs150280300	Pantoate levels	GCST90199904	16	74514646	T	A	7662	-0.10	0.02	0.00	0.00	19.78
rs9710242	Pantoate levels	GCST90199904	19	6699301	T	C	7662	-0.09	0.02	0.00	0.00	21.03
rs55954909	Pantoate levels	GCST90199904	21	37111054	A	G	7662	0.10	0.02	0.00	0.00	21.62
rs79976614	Formiminoglu tamate levels	GCST90199905	2	4719897	G	A	8175	0.15	0.03	0.00	0.00	19.66
rs12622835	Formiminoglu tamate levels	GCST90199905	2	145354711	T	G	8175	-0.10	0.02	0.00	0.00	27.27
rs3791977	Formiminoglu tamate levels	GCST90199905	2	217850122	A	G	8175	0.08	0.02	0.00	0.00	26.83
rs77960952	Formiminoglu tamate levels	GCST90199905	3	15279227	A	C	8175	0.10	0.02	0.00	0.00	20.46
rs138348359	Formiminoglu tamate levels	GCST90199905	3	23066266	C	A	8175	0.23	0.05	0.00	0.00	19.95
rs79307160	Formiminoglu tamate levels	GCST90199905	3	196405580	G	A	8175	-0.33	0.07	0.00	0.00	24.42
rs78408800	Formiminoglu tamate levels	GCST90199905	4	69101657	T	C	8175	-0.09	0.02	0.00	0.00	24.12
rs55680923	Formiminoglu tamate levels	GCST90199905	4	131514556	G	A	8175	-0.07	0.02	0.00	0.00	22.27
rs114669007	Formiminoglu tamate levels	GCST90199905	5	11568348	T	C	8175	-0.34	0.07	0.00	0.00	24.16
rs663845	Formiminoglu tamate levels	GCST90199905	5	38885938	G	T	8175	0.07	0.02	0.00	0.00	20.80
rs2841648	Formiminoglu tamate levels	GCST90199905	6	43301441	A	C	8175	0.08	0.01	0.00	0.00	27.87
rs34607912	Formiminoglu tamate levels	GCST90199905	7	67547095	A	G	8175	-0.20	0.04	0.00	0.00	20.93
rs4978863	Formiminoglu tamate levels	GCST90199905	9	109970735	A	G	8175	-0.07	0.01	0.00	0.00	19.74
rs3019619	Formiminoglu tamate levels	GCST90199905	11	62039499	A	T	8175	-0.61	0.14	0.00	0.00	20.31
rs9532722	Formiminoglu tamate levels	GCST90199905	13	41102268	C	T	8175	-0.08	0.02	0.00	0.00	19.94
rs138312948	Formiminoglu tamate levels	GCST90199905	13	103861561	C	T	8175	0.29	0.06	0.00	0.00	25.85
rs79859863	Formiminoglu tamate levels	GCST90199905	14	31962379	T	C	8175	-0.10	0.02	0.00	0.00	20.40
rs7158292	Formiminoglu tamate levels	GCST90199905	14	79724213	A	C	8175	-0.10	0.02	0.00	0.00	23.55
rs28929474	Formiminoglu tamate levels	GCST90199905	14	94378610	T	C	8175	0.26	0.06	0.00	0.00	22.02
rs17275876	Formiminoglu tamate levels	GCST90199905	16	17180122	G	A	8175	-0.09	0.02	0.00	0.00	19.86

rs75773230	Formiminoglu tamate levels	GCST90199905	18	440746	C	T	8175	0.30	0.07	0.00	0.00	20.14
rs6080971	Formiminoglu tamate levels	GCST90199905	20	18093988	T	C	8175	0.08	0.02	0.00	0.00	19.78
rs6064791	Formiminoglu tamate levels	GCST90199905	20	38627993	G	A	8175	-0.07	0.02	0.00	0.00	19.90
rs4561743	Formiminoglu tamate levels	GCST90199905	21	41816456	C	G	8175	0.31	0.06	0.00	0.00	25.59
rs77692382	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	1	39941043	T	C	8227	0.10	0.02	0.00	0.00	29.86
rs76885665	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	1	46449028	A	C	8227	-0.36	0.08	0.00	0.00	19.74
rs77832879	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	2	41823048	G	T	8227	-0.29	0.06	0.00	0.00	22.21
rs7693006	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	4	44882653	G	T	8227	0.15	0.03	0.00	0.00	19.76
rs11129686 2	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	5	20037130	A	G	8227	-0.30	0.06	0.00	0.00	28.17
rs79871490	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	5	38386076	A	G	8227	0.10	0.02	0.00	0.00	22.88
rs12525532	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	6	35037042	T	C	8227	-0.07	0.02	0.00	0.00	19.82
rs4715365	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	6	52926962	T	C	8227	0.16	0.04	0.00	0.00	20.25
rs11809702 9	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	6	116329030	C	T	8227	-0.26	0.06	0.00	0.00	20.52
rs11688124 5	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	7	114098302	A	G	8227	-0.34	0.08	0.00	0.00	19.72
rs11204144	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	8	20972449	T	C	8227	0.19	0.04	0.00	0.00	19.70
rs75346547	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	8	73423781	T	C	8227	0.28	0.06	0.00	0.00	22.51
rs11716706 3	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	9	21527964	A	G	8227	-0.24	0.05	0.00	0.00	20.68
rs72745785	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	9	87484558	A	C	8227	-0.20	0.05	0.00	0.00	19.79
rs72745420	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	9	93518650	T	C	8227	-0.18	0.04	0.00	0.00	20.49
rs11731836 3	1-(1-enyl- palmitoyl)- GPE (p-16:0) levels	GCST90199906	11	44399440	A	G	8227	-0.20	0.04	0.00	0.00	20.89

rs140871278	1-(1-enyl-palmitoyl)-GPE (p-16:0) levels	GCST90199906	13	30161614	T	C	8227	-0.22	0.05	0.00	0.00	21.82
rs139549603	1-(1-enyl-palmitoyl)-GPE (p-16:0) levels	GCST90199906	15	74031250	A	T	8227	0.34	0.07	0.00	0.00	23.77
rs2996024	1-(1-enyl-palmitoyl)-GPE (p-16:0) levels	GCST90199906	17	13441912	C	T	8227	-0.10	0.02	0.00	0.00	31.50
rs4796066	1-(1-enyl-palmitoyl)-GPE (p-16:0) levels	GCST90199906	17	35253261	T	G	8227	-0.08	0.02	0.00	0.00	21.09
rs55789569	1-(1-enyl-palmitoyl)-GPE (p-16:0) levels	GCST90199906	17	72406490	A	G	8227	0.08	0.02	0.00	0.00	22.99
rs4797964	1-(1-enyl-palmitoyl)-GPE (p-16:0) levels	GCST90199906	18	2071582	C	G	8227	-0.07	0.02	0.00	0.00	20.41
rs3826884	1-(1-enyl-palmitoyl)-GPE (p-16:0) levels	GCST90199906	19	55226813	A	G	8227	-0.11	0.02	0.00	0.00	30.26
rs80319729	1-(1-enyl-palmitoyl)-GPE (p-16:0) levels	GCST90199906	21	22322958	T	C	8227	-0.14	0.03	0.00	0.00	22.10
rs80315105	S-methylcysteine sulfoxide levels	GCST90199907	1	84665650	C	T	8255	0.24	0.05	0.00	0.00	19.98
rs11588066	S-methylcysteine sulfoxide levels	GCST90199907	1	165375280	A	G	8255	0.11	0.02	0.00	0.00	20.56
rs4950816	S-methylcysteine sulfoxide levels	GCST90199907	1	202030542	T	C	8255	0.07	0.02	0.00	0.00	20.23
rs10172635	S-methylcysteine sulfoxide levels	GCST90199907	2	47356825	A	G	8255	-0.09	0.02	0.00	0.00	22.41
rs115974689	S-methylcysteine sulfoxide levels	GCST90199907	2	146652442	G	A	8255	-0.34	0.08	0.00	0.00	20.05
rs11675668	S-methylcysteine sulfoxide levels	GCST90199907	2	240855364	A	G	8255	0.09	0.02	0.00	0.00	19.66
rs6781890	S-methylcysteine sulfoxide levels	GCST90199907	3	23706692	A	G	8255	0.23	0.05	0.00	0.00	19.62
rs80293484	S-methylcysteine sulfoxide levels	GCST90199907	3	193706282	T	C	8255	-0.14	0.03	0.00	0.00	22.72
rs115293060	S-methylcysteine sulfoxide levels	GCST90199907	5	111782611	C	T	8255	-0.37	0.08	0.00	0.00	22.64
rs13165157	S-methylcysteine sulfoxide levels	GCST90199907	5	176698490	C	G	8255	-0.11	0.02	0.00	0.00	19.96
rs35991001	S-methylcysteine sulfoxide levels	GCST90199907	6	106046776	T	C	8255	0.42	0.08	0.00	0.00	29.09
rs283055	S-methylcysteine sulfoxide levels	GCST90199907	6	118324756	A	G	8255	0.07	0.02	0.00	0.00	19.66
rs62443125	S-methylcysteine sulfoxide levels	GCST90199907	6	121026309	C	T	8255	0.22	0.05	0.00	0.00	20.91
rs9355993	S-methylcysteine sulfoxide levels	GCST90199907	6	162243975	G	A	8255	-0.27	0.05	0.00	0.00	24.52

rs10794129	S-methylcysteine sulfoxide levels	GCST90199907	10	124493337	T	C	8255	-0.08	0.02	0.00	0.00	20.91
rs74580354	S-methylcysteine sulfoxide levels	GCST90199907	11	23793447	C	T	8255	0.24	0.05	0.00	0.00	20.01
rs1901074	S-methylcysteine sulfoxide levels	GCST90199907	11	26757206	G	T	8255	0.17	0.04	0.00	0.00	21.99
rs55836930	S-methylcysteine sulfoxide levels	GCST90199907	12	118980699	G	T	8255	0.22	0.05	0.00	0.00	20.26
rs117859338	S-methylcysteine sulfoxide levels	GCST90199907	15	53293970	G	T	8255	-0.12	0.03	0.00	0.00	19.82
rs8098741	S-methylcysteine sulfoxide levels	GCST90199907	18	40928208	G	C	8255	-0.13	0.03	0.00	0.00	21.82
rs2837269	S-methylcysteine sulfoxide levels	GCST90199907	21	39888016	G	A	8255	0.07	0.02	0.00	0.00	20.09
rs181833059	2-o-methylascorbic acid levels	GCST90199908	1	185949368	A	G	8219	-0.35	0.07	0.00	0.00	22.35
rs17684132	2-o-methylascorbic acid levels	GCST90199908	1	216904465	A	C	8219	-0.15	0.03	0.00	0.00	22.52
rs151009964	2-o-methylascorbic acid levels	GCST90199908	2	29750915	T	C	8219	-0.21	0.05	0.00	0.00	21.08
rs139940856	2-o-methylascorbic acid levels	GCST90199908	2	57212734	C	G	8219	-0.22	0.05	0.00	0.00	20.03
rs62241898	2-o-methylascorbic acid levels	GCST90199908	3	37355300	A	T	8219	0.12	0.02	0.00	0.00	21.94
rs73855271	2-o-methylascorbic acid levels	GCST90199908	3	120764420	G	A	8219	-0.24	0.05	0.00	0.00	22.79
rs710989	2-o-methylascorbic acid levels	GCST90199908	5	3523017	T	C	8219	-0.06	0.01	0.00	0.00	20.03
rs62383014	2-o-methylascorbic acid levels	GCST90199908	5	139215809	C	A	8219	-0.21	0.04	0.00	0.00	28.05
rs111368659	2-o-methylascorbic acid levels	GCST90199908	6	121191983	T	C	8219	-0.17	0.04	0.00	0.00	19.96
rs9497988	2-o-methylascorbic acid levels	GCST90199908	6	148278063	T	C	8219	-0.14	0.03	0.00	0.00	21.96
rs1012976	2-o-methylascorbic acid levels	GCST90199908	7	38769390	A	G	8219	-0.12	0.02	0.00	0.00	23.80
rs916688	2-o-methylascorbic acid levels	GCST90199908	7	113702070	A	G	8219	-0.27	0.06	0.00	0.00	22.51
rs59761505	2-o-methylascorbic acid levels	GCST90199908	8	3238284	A	C	8219	0.09	0.02	0.00	0.00	22.29
rs145582815	2-o-methylascorbic acid levels	GCST90199908	8	59711247	A	C	8219	-0.24	0.05	0.00	0.00	20.52
rs34841713	2-o-methylascorbic acid levels	GCST90199908	8	87975952	T	C	8219	-0.14	0.03	0.00	0.00	23.00
rs66721987	2-o-methylascorbic acid levels	GCST90199908	9	2519580	A	G	8219	0.11	0.02	0.00	0.00	19.75
rs56301706	2-o-methylascorbic acid levels	GCST90199908	10	105726992	T	C	8219	0.44	0.10	0.00	0.00	19.52

rs19181531	2-o-methylascorbic acid levels	GCST90199908	11	81462848	A	G	8219	0.23	0.05	0.00	0.00	22.42
rs145885369	2-o-methylascorbic acid levels	GCST90199908	11	84862735	T	C	8219	-0.28	0.06	0.00	0.00	20.00
rs76637894	2-o-methylascorbic acid levels	GCST90199908	11	116025015	A	G	8219	-0.21	0.04	0.00	0.00	21.45
rs11046651	2-o-methylascorbic acid levels	GCST90199908	12	22849848	C	A	8219	0.16	0.04	0.00	0.00	19.52
rs8239	2-o-methylascorbic acid levels	GCST90199908	12	118064662	G	A	8219	-0.09	0.02	0.00	0.00	20.32
rs17123825	2-o-methylascorbic acid levels	GCST90199908	14	51357163	G	C	8219	0.12	0.03	0.00	0.00	20.13
rs3136220	2-o-methylascorbic acid levels	GCST90199908	16	13947053	T	C	8219	-0.17	0.04	0.00	0.00	19.74
rs475225	2-o-methylascorbic acid levels	GCST90199908	17	901308	C	T	8219	-0.07	0.02	0.00	0.00	22.35
rs12481701	2-o-methylascorbic acid levels	GCST90199908	20	62670503	A	G	8219	-0.15	0.03	0.00	0.00	25.29
rs933271	2-o-methylascorbic acid levels	GCST90199908	22	19943884	C	T	8219	0.12	0.02	0.00	0.01	54.94
rs4680	2-o-methylascorbic acid levels	GCST90199908	22	19963748	A	G	8219	-0.44	0.01	0.00	0.11	#####
rs138991067	2-o-methylascorbic acid levels	GCST90199908	22	32122048	T	C	8219	-0.23	0.05	0.00	0.00	19.58
rs7549830	Eicosanedioate (C20-DC) levels	GCST90199909	1	161718641	C	T	8258	0.10	0.02	0.00	0.00	20.71
rs1898585	Eicosanedioate (C20-DC) levels	GCST90199909	2	177795722	T	C	8258	0.09	0.02	0.00	0.00	20.26
rs143214193	Eicosanedioate (C20-DC) levels	GCST90199909	3	194964435	A	G	8258	0.25	0.06	0.00	0.00	19.52
rs2720373	Eicosanedioate (C20-DC) levels	GCST90199909	4	10602542	A	T	8258	0.07	0.02	0.00	0.00	19.75
rs60953408	Eicosanedioate (C20-DC) levels	GCST90199909	6	24308575	T	C	8258	-0.15	0.03	0.00	0.00	30.18
rs2104361	Eicosanedioate (C20-DC) levels	GCST90199909	6	119261088	C	T	8258	-0.14	0.03	0.00	0.00	22.15
rs148344129	Eicosanedioate (C20-DC) levels	GCST90199909	6	154844807	G	A	8258	-0.33	0.07	0.00	0.00	20.76
rs2209785	Eicosanedioate (C20-DC) levels	GCST90199909	9	110374270	C	A	8258	-0.08	0.02	0.00	0.00	20.44
rs58310495	Eicosanedioate (C20-DC) levels	GCST90199909	12	21204777	T	C	8258	0.17	0.02	0.00	0.01	63.80
rs148818093	Eicosanedioate (C20-DC) levels	GCST90199909	13	25902364	G	A	8258	0.56	0.12	0.00	0.00	23.08
rs12589095	Eicosanedioate (C20-DC) levels	GCST90199909	14	59113150	A	C	8258	0.09	0.02	0.00	0.00	23.06
rs117458474	Eicosanedioate (C20-DC) levels	GCST90199909	14	96129611	T	G	8258	-0.23	0.05	0.00	0.00	23.08

rs8043431	Eicosanedioate (C20-DC) levels	GCST90199909	15	50225949	G	A	8258	-0.10	0.02	0.00	0.00	23.29
rs34980332	Eicosanedioate (C20-DC) levels	GCST90199909	17	71512470	C	T	8258	0.18	0.04	0.00	0.00	23.28
rs17248364	Eicosanedioate (C20-DC) levels	GCST90199909	17	73087973	G	C	8258	0.12	0.03	0.00	0.00	19.67
rs77692382	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	1	39941043	T	C	8249	0.13	0.02	0.00	0.01	52.16
rs2490407	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	1	187437400	T	C	8249	-0.10	0.02	0.00	0.00	26.25
rs6846205	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	4	47542379	G	A	8249	0.08	0.02	0.00	0.00	21.17
rs11129686 2	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	5	20037130	A	G	8249	-0.26	0.06	0.00	0.00	20.59
rs2196639	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	5	106652633	C	G	8249	0.12	0.03	0.00	0.00	20.78
rs1468295	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	5	137053906	A	T	8249	-0.09	0.02	0.00	0.00	20.64
rs2540682	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	7	36237361	A	T	8249	0.10	0.02	0.00	0.00	22.84
rs28601761	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	8	125487789	G	C	8249	-0.07	0.02	0.00	0.00	20.05
rs14620621 1	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	8	143769445	C	T	8249	-0.11	0.02	0.00	0.00	22.54
rs10809965	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	9	13530095	T	C	8249	0.16	0.04	0.00	0.00	20.04
rs13301187	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	9	75453136	A	C	8249	0.09	0.02	0.00	0.00	19.75
rs11780315 5	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	9	133649021	A	G	8249	0.31	0.07	0.00	0.00	20.50
rs11251446	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	10	2713043	G	A	8249	-0.17	0.04	0.00	0.00	19.97
rs18190862 0	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	11	44401121	A	G	8249	-0.20	0.04	0.00	0.00	21.28
rs174560	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	11	61814292	C	T	8249	-0.12	0.02	0.00	0.01	55.75
rs9554177	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	13	27856844	A	G	8249	0.07	0.02	0.00	0.00	20.82
rs56274401	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	13	70540301	C	A	8249	0.24	0.05	0.00	0.00	20.51
rs573615	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	15	43322083	T	C	8249	0.08	0.02	0.00	0.00	21.28
rs55943228	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	15	91756057	C	A	8249	0.23	0.05	0.00	0.00	21.57
rs18954543 7	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	16	69151063	G	A	8249	-0.84	0.19	0.00	0.00	20.22
rs17886492	1-(1-enyl- stearoyl)-GPE (p-18:0) levels	GCST90199910	17	31315071	A	G	8249	0.14	0.03	0.00	0.00	19.71

rs12954877	1-(1-enyl-stearoyl)-GPE (p-18:0) levels	GCST90199910	18	50295874	T	C	8249	-0.12	0.02	0.00	0.00	26.80
rs7412	1-(1-enyl-stearoyl)-GPE (p-18:0) levels	GCST90199910	19	44908822	T	C	8249	0.13	0.03	0.00	0.00	21.45
rs76668835	1-(1-enyl-stearoyl)-GPE (p-18:0) levels	GCST90199910	20	59196746	T	C	8249	0.17	0.04	0.00	0.00	19.70
rs80319729	1-(1-enyl-stearoyl)-GPE (p-18:0) levels	GCST90199910	21	22322958	T	C	8249	-0.14	0.03	0.00	0.00	22.15
rs75671791	Beta-citrylglutamate levels	GCST90199911	1	5854345	C	T	8226	0.41	0.09	0.00	0.00	19.67
rs204082	Beta-citrylglutamate levels	GCST90199911	1	28857742	T	C	8226	-0.15	0.03	0.00	0.00	24.78
rs9428235	Beta-citrylglutamate levels	GCST90199911	1	115790960	G	T	8226	-0.11	0.02	0.00	0.00	19.90
rs12735920	Beta-citrylglutamate levels	GCST90199911	1	150527416	A	G	8226	0.13	0.03	0.00	0.00	20.21
rs11715829	Beta-citrylglutamate levels	GCST90199911	3	147239379	C	T	8226	-0.14	0.03	0.00	0.00	20.72
rs869417	Beta-citrylglutamate levels	GCST90199911	3	183971350	C	T	8226	0.14	0.02	0.00	0.01	84.44
rs79399676	Beta-citrylglutamate levels	GCST90199911	3	187075105	A	C	8226	0.15	0.03	0.00	0.00	19.61
rs1344404	Beta-citrylglutamate levels	GCST90199911	3	193836702	C	T	8226	0.15	0.03	0.00	0.00	22.57
rs62325356	Beta-citrylglutamate levels	GCST90199911	4	110100784	A	G	8226	0.11	0.02	0.00	0.00	25.23
rs35188503	Beta-citrylglutamate levels	GCST90199911	5	3679666	A	G	8226	-0.29	0.07	0.00	0.00	19.56
rs74654439	Beta-citrylglutamate levels	GCST90199911	5	113792585	T	A	8226	0.30	0.06	0.00	0.00	22.16
rs75976622	Beta-citrylglutamate levels	GCST90199911	5	157415026	A	T	8226	0.19	0.04	0.00	0.00	21.13
rs819010	Beta-citrylglutamate levels	GCST90199911	7	16797780	T	C	8226	0.07	0.02	0.00	0.00	19.78
rs11770721	Beta-citrylglutamate levels	GCST90199911	7	130373116	G	A	8226	-0.07	0.02	0.00	0.00	21.51
rs147440499	Beta-citrylglutamate levels	GCST90199911	8	64189002	G	A	8226	-0.31	0.07	0.00	0.00	19.77
rs1265921	Beta-citrylglutamate levels	GCST90199911	9	115077297	C	T	8226	-0.08	0.02	0.00	0.00	19.95
rs7080386	Beta-citrylglutamate levels	GCST90199911	10	63288546	A	C	8226	0.07	0.02	0.00	0.00	19.51
rs2814315	Beta-citrylglutamate levels	GCST90199911	10	86199292	C	T	8226	0.08	0.02	0.00	0.00	20.15
rs35090089	Beta-citrylglutamate levels	GCST90199911	10	110848869	A	G	8226	0.12	0.03	0.00	0.00	21.20
rs77228234	Beta-citrylglutamate levels	GCST90199911	11	89325887	G	A	8226	-1.41	0.12	0.00	0.02	129.10

rs116676205	Beta-citrylglutamate levels	GCST90199911	11	89369430	T	C	8226	0.30	0.04	0.00	0.01	71.29
rs489009	Beta-citrylglutamate levels	GCST90199911	11	90163289	T	C	8226	-0.41	0.01	0.00	0.08	758.49
rs112873424	Beta-citrylglutamate levels	GCST90199911	12	120270477	C	T	8226	0.20	0.04	0.00	0.00	19.54
rs9518755	Beta-citrylglutamate levels	GCST90199911	13	102504193	C	T	8226	-0.14	0.03	0.00	0.00	19.82
rs140612660	Beta-citrylglutamate levels	GCST90199911	13	113028579	C	G	8226	0.20	0.04	0.00	0.00	20.68
rs4444401	Beta-citrylglutamate levels	GCST90199911	17	78328670	G	A	8226	0.07	0.02	0.00	0.00	19.56
rs62108988	Beta-citrylglutamate levels	GCST90199911	19	40789482	A	G	8226	0.29	0.06	0.00	0.00	20.56
rs324420	N-oleoyltaurine	GCST90199912	1	46405089	A	C	7375	0.24	0.02	0.00	0.02	154.76
rs13024246	N-oleoyltaurine	GCST90199912	2	48526555	C	G	7375	0.08	0.02	0.00	0.00	21.01
rs13075176	N-oleoyltaurine	GCST90199912	3	116886509	G	A	7375	0.31	0.07	0.00	0.00	21.54
rs79483157	N-oleoyltaurine	GCST90199912	3	156995455	A	C	7375	0.32	0.07	0.00	0.00	21.82
rs11723204	N-oleoyltaurine	GCST90199912	4	81132972	G	T	7375	0.24	0.05	0.00	0.00	21.11
rs114012095	N-oleoyltaurine	GCST90199912	5	167539083	T	A	7375	-0.26	0.06	0.00	0.00	21.33
rs76836241	N-oleoyltaurine	GCST90199912	6	22625466	G	A	7375	-0.16	0.03	0.00	0.00	25.46
rs62443966	N-oleoyltaurine	GCST90199912	7	39223872	A	C	7375	0.12	0.02	0.00	0.00	23.84
rs17784899	N-oleoyltaurine	GCST90199912	9	76775287	T	A	7375	-0.12	0.02	0.00	0.00	26.50
rs75069001	N-oleoyltaurine	GCST90199912	9	101417972	C	T	7375	-0.21	0.05	0.00	0.00	20.19
rs10795313	N-oleoyltaurine	GCST90199912	10	15633602	C	T	7375	-0.09	0.02	0.00	0.00	20.83
rs113792108	N-oleoyltaurine	GCST90199912	11	11671812	T	C	7375	0.31	0.06	0.00	0.00	30.35
rs76376676	N-oleoyltaurine	GCST90199912	11	120526310	T	C	7375	0.23	0.05	0.00	0.00	25.36
rs57743625	N-oleoyltaurine	GCST90199912	12	21214699	A	G	7375	0.15	0.02	0.00	0.01	51.10
rs1493327	N-oleoyltaurine	GCST90199912	12	60064650	G	T	7375	0.08	0.02	0.00	0.00	20.01
rs141436484	N-oleoyltaurine	GCST90199912	13	78081794	G	A	7375	0.12	0.02	0.00	0.00	22.07
rs116864900	N-oleoyltaurine	GCST90199912	16	57940775	G	A	7375	-0.14	0.03	0.00	0.00	22.35
rs4808395	N-oleoyltaurine	GCST90199912	19	15866146	A	G	7375	0.08	0.02	0.00	0.00	26.61
rs11671525	N-oleoyltaurine	GCST90199912	19	51401819	C	T	7375	-0.10	0.02	0.00	0.00	21.31
rs45571735	N-oleoyltaurine	GCST90199912	20	2333872	G	C	7375	-0.18	0.04	0.00	0.00	20.05
rs114202229	N-oleoyltaurine	GCST90199912	20	49933986	T	C	7375	0.32	0.07	0.00	0.00	21.28
rs112450191	Docosadioate (C22-DC) levels	GCST90199913	1	37733146	A	G	8225	-0.11	0.02	0.00	0.00	20.32
rs35220805	Docosadioate (C22-DC) levels	GCST90199913	1	82886962	T	C	8225	-0.11	0.03	0.00	0.00	20.00
rs10494656	Docosadioate (C22-DC) levels	GCST90199913	1	191666689	C	T	8225	0.27	0.06	0.00	0.00	19.53

rs143501816	Docosadioate (C22-DC) levels	GCST90199913	2	7815939	T	C	8225	-0.32	0.07	0.00	0.00	23.15
rs77482050	Docosadioate (C22-DC) levels	GCST90199913	2	241200185	A	G	8225	-0.43	0.10	0.00	0.00	20.21
rs146159281	Docosadioate (C22-DC) levels	GCST90199913	3	66236632	A	G	8225	-0.08	0.02	0.00	0.00	19.82
rs2718810	Docosadioate (C22-DC) levels	GCST90199913	3	133681397	C	T	8225	-0.30	0.07	0.00	0.00	21.68
rs115194121	Docosadioate (C22-DC) levels	GCST90199913	4	6987936	T	A	8225	0.34	0.08	0.00	0.00	20.59
rs807691	Docosadioate (C22-DC) levels	GCST90199913	6	24308598	G	A	8225	0.10	0.02	0.00	0.00	20.14
rs116868321	Docosadioate (C22-DC) levels	GCST90199913	7	21065713	C	A	8225	0.30	0.07	0.00	0.00	19.82
rs28580760	Docosadioate (C22-DC) levels	GCST90199913	7	35287315	T	C	8225	-0.16	0.03	0.00	0.00	25.20
rs148935347	Docosadioate (C22-DC) levels	GCST90199913	7	108845705	T	C	8225	0.22	0.05	0.00	0.00	20.81
rs113362767	Docosadioate (C22-DC) levels	GCST90199913	7	157777711	A	G	8225	0.13	0.03	0.00	0.00	19.75
rs2656266	Docosadioate (C22-DC) levels	GCST90199913	8	54268184	C	G	8225	0.07	0.02	0.00	0.00	19.68
rs34364916	Docosadioate (C22-DC) levels	GCST90199913	8	142542098	T	G	8225	-0.11	0.02	0.00	0.00	22.14
rs115060581	Docosadioate (C22-DC) levels	GCST90199913	10	95993794	G	T	8225	0.29	0.07	0.00	0.00	20.24
rs61903593	Docosadioate (C22-DC) levels	GCST90199913	11	59864800	G	A	8225	0.28	0.06	0.00	0.00	23.80
rs11045856	Docosadioate (C22-DC) levels	GCST90199913	12	21197755	G	T	8225	-0.08	0.02	0.00	0.00	22.07
rs57598683	Docosadioate (C22-DC) levels	GCST90199913	12	51256657	C	T	8225	0.37	0.07	0.00	0.00	26.53
rs144956048	Docosadioate (C22-DC) levels	GCST90199913	12	98481543	G	C	8225	0.12	0.03	0.00	0.00	19.79
rs61946796	Docosadioate (C22-DC) levels	GCST90199913	13	26189260	A	G	8225	0.15	0.03	0.00	0.00	19.62
rs941604	Docosadioate (C22-DC) levels	GCST90199913	14	50056356	G	A	8225	-0.08	0.02	0.00	0.00	21.69
rs79146877	Docosadioate (C22-DC) levels	GCST90199913	16	54481453	A	G	8225	0.25	0.05	0.00	0.00	21.41
rs146081133	Docosadioate (C22-DC) levels	GCST90199913	16	63315705	T	C	8225	-0.32	0.07	0.00	0.00	20.02
rs897457	Docosadioate (C22-DC) levels	GCST90199913	17	17669673	T	A	8225	-0.07	0.02	0.00	0.00	21.20
rs73197368	Docosadioate (C22-DC) levels	GCST90199913	21	35426064	T	C	8225	0.22	0.05	0.00	0.00	19.89
rs35871519	Docosadioate (C22-DC) levels	GCST90199913	22	49966815	A	T	8225	0.09	0.02	0.00	0.00	22.38

rs7555577	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	1	62568692	C	A	8069	0.11	0.02	0.00	0.01	46.52
rs4665710	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	2	20998163	C	A	8069	0.10	0.02	0.00	0.00	29.90
rs4665972	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	2	27375230	C	T	8069	-0.09	0.02	0.00	0.00	35.32
rs143580427	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	2	47105960	T	C	8069	0.32	0.07	0.00	0.00	22.20
rs6773745	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	3	29472715	T	C	8069	-0.09	0.02	0.00	0.00	20.36
rs74426325	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	3	86591100	A	G	8069	-0.18	0.04	0.00	0.00	19.74
rs74546513	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	3	113744603	C	T	8069	-0.21	0.05	0.00	0.00	19.64
rs143113227	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	5	104053824	T	C	8069	-0.21	0.05	0.00	0.00	20.57
rs9468925	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	6	31291060	A	G	8069	0.08	0.02	0.00	0.00	26.18
rs9322536	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	6	155809589	G	A	8069	-0.08	0.02	0.00	0.00	20.55
rs62466318	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	7	73627755	T	C	8069	-0.11	0.02	0.00	0.00	28.37
rs4727384	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	7	98018119	C	T	8069	-0.20	0.04	0.00	0.00	19.97
rs13702	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	8	19966981	C	T	8069	-0.10	0.02	0.00	0.00	31.47
rs76106245	Oleoyle-linoleoyl-glycerol (18:1/18:2) [2] levels	GCST90199914	8	37550038	G	A	8069	0.23	0.05	0.00	0.00	19.87

rs79721685	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	9	16651288	T	A	8069	0.28	0.06	0.00	0.00	22.95
rs76891180	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	10	75011129	G	T	8069	0.20	0.04	0.00	0.00	21.52
rs41291902	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	10	110279090	G	A	8069	0.14	0.03	0.00	0.00	25.50
rs174541	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	11	61798436	C	T	8069	0.07	0.02	0.00	0.00	20.25
rs964184	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	11	116778201	C	G	8069	-0.27	0.02	0.00	0.02	135.49
rs59061211	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	12	21896654	G	A	8069	0.07	0.02	0.00	0.00	21.07
rs2669559	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	12	26093775	C	T	8069	-0.07	0.02	0.00	0.00	21.68
rs7309088	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	12	103700355	T	C	8069	-0.08	0.02	0.00	0.00	24.00
rs17093174	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	14	55531629	G	A	8069	-0.22	0.05	0.00	0.00	21.13
rs75715461	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	15	60308383	C	G	8069	0.21	0.04	0.00	0.00	21.94
rs16955393	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	17	6042655	A	G	8069	-0.09	0.02	0.00	0.00	21.57
rs11684306 4	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	19	8364439	A	G	8069	-0.33	0.05	0.00	0.00	38.60
rs14372901 5	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	19	19019941	A	G	8069	-0.18	0.04	0.00	0.00	23.29
rs14359439 9	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels	GCST90199914	19	29412111	T	C	8069	-0.32	0.07	0.00	0.00	22.73

rs483082	Oleoyl- linoleoyl- glycerol (18:1/18:2) [2] levels Imidazole	GCST90199914	19	44912921	T	G	8069	0.14	0.02	0.00	0.01	53.39
rs35357722	propionate levels Imidazole	GCST90199915	1	4932979	A	G	7776	-0.09	0.02	0.00	0.00	20.60
rs14226729 2	propionate levels Imidazole	GCST90199915	1	85455316	G	A	7776	0.35	0.07	0.00	0.00	23.93
rs72703866	propionate levels Imidazole	GCST90199915	1	162423523	C	A	7776	0.32	0.07	0.00	0.00	19.65
rs79264717	propionate levels Imidazole	GCST90199915	1	224763020	A	C	7776	0.19	0.04	0.00	0.00	20.11
rs76397969	propionate levels Imidazole	GCST90199915	1	243792264	G	A	7776	0.19	0.04	0.00	0.00	22.75
rs67864795	propionate levels Imidazole	GCST90199915	2	26738298	G	A	7776	-0.07	0.02	0.00	0.00	22.35
rs18149801 2	propionate levels Imidazole	GCST90199915	4	2816069	G	T	7776	0.27	0.06	0.00	0.00	21.07
rs230842	propionate levels Imidazole	GCST90199915	5	57597896	T	G	7776	-0.10	0.02	0.00	0.00	22.70
rs74512247	propionate levels Imidazole	GCST90199915	6	6707084	G	A	7776	-0.33	0.07	0.00	0.00	20.73
rs9385262	propionate levels Imidazole	GCST90199915	6	122620209	T	C	7776	-0.11	0.02	0.00	0.00	24.50
rs14328631 6	propionate levels Imidazole	GCST90199915	7	71777205	T	C	7776	0.39	0.08	0.00	0.00	20.72
rs14877667 9	propionate levels Imidazole	GCST90199915	9	5597385	A	G	7776	0.37	0.08	0.00	0.00	20.08
rs12358655	propionate levels Imidazole	GCST90199915	10	8025605	T	C	7776	0.12	0.02	0.00	0.00	22.51
rs11226778	propionate levels Imidazole	GCST90199915	11	105571518	C	T	7776	-0.13	0.03	0.00	0.00	25.11
rs11613331	propionate levels Imidazole	GCST90199915	12	242301	A	G	7776	0.13	0.02	0.00	0.01	68.97
rs13858340 8	propionate levels Imidazole	GCST90199915	12	32173317	T	C	7776	0.19	0.04	0.00	0.00	21.25
rs77357348	propionate levels Imidazole	GCST90199915	12	116524768	A	G	7776	0.41	0.08	0.00	0.00	23.96
rs2274051	propionate levels Imidazole	GCST90199915	13	98439380	T	C	7776	0.07	0.02	0.00	0.00	20.22
rs15082521 2	propionate levels Imidazole	GCST90199915	15	77397958	A	G	7776	0.16	0.04	0.00	0.00	20.79
rs1551174	propionate levels Imidazole	GCST90199915	16	8253579	C	T	7776	-0.08	0.02	0.00	0.00	21.79
rs11777727 7	propionate levels Imidazole	GCST90199915	18	77830512	T	C	7776	-0.17	0.03	0.00	0.00	26.11
rs12977952	propionate levels Imidazole	GCST90199915	19	53527763	G	C	7776	-0.08	0.02	0.00	0.00	21.44
rs11765027 1	propionate levels	GCST90199915	20	45861727	T	C	7776	-0.25	0.05	0.00	0.00	21.53

rs6122249	Imidazole propionate levels	GCST90199915	20	64124942	A	G	7776	0.09	0.02	0.00	0.00	23.26
rs17672321	Imidazole propionate levels	GCST90199915	21	28064219	T	C	7776	0.16	0.04	0.00	0.00	19.60
rs58966590	Carnitine C18:2 levels	GCST90199916	1	54077129	G	A	8268	-0.11	0.02	0.00	0.00	22.65
rs914836	Carnitine C18:2 levels	GCST90199916	1	56437763	A	C	8268	-0.11	0.03	0.00	0.00	19.61
rs13872714 7	Carnitine C18:2 levels	GCST90199916	1	181568885	T	C	8268	0.48	0.10	0.00	0.00	21.58
rs7569782	Carnitine C18:2 levels	GCST90199916	2	5838607	T	A	8268	0.09	0.02	0.00	0.00	21.02
rs6749194	Carnitine C18:2 levels	GCST90199916	2	46892330	G	A	8268	0.07	0.02	0.00	0.00	20.31
rs12470864	Carnitine C18:2 levels	GCST90199916	2	102309902	A	G	8268	-0.08	0.02	0.00	0.00	28.53
rs11709130	Carnitine C18:2 levels	GCST90199916	3	8689031	A	G	8268	0.25	0.06	0.00	0.00	19.86
rs7638009	Carnitine C18:2 levels	GCST90199916	3	98965735	C	T	8268	-0.08	0.02	0.00	0.00	23.86
rs55581438 5	Carnitine C18:2 levels	GCST90199916	3	196243633	C	G	8268	-0.40	0.08	0.00	0.00	27.46
rs14642690 7	Carnitine C18:2 levels	GCST90199916	4	28354353	A	G	8268	-0.29	0.06	0.00	0.00	20.71
rs2388875	Carnitine C18:2 levels	GCST90199916	5	7593779	A	G	8268	0.09	0.02	0.00	0.00	19.72
rs62380891	Carnitine C18:2 levels	GCST90199916	5	121593786	T	A	8268	0.15	0.03	0.00	0.00	25.65
rs200838	Carnitine C18:2 levels	GCST90199916	5	132374707	C	A	8268	0.12	0.02	0.00	0.01	68.58
rs14923599 6	Carnitine C18:2 levels	GCST90199916	5	151340348	G	A	8268	-0.32	0.07	0.00	0.00	22.00
rs13209735	Carnitine C18:2 levels	GCST90199916	6	9553087	T	G	8268	0.92	0.21	0.00	0.00	19.58
rs80313677	Carnitine C18:2 levels	GCST90199916	6	22520589	G	A	8268	0.42	0.09	0.00	0.00	20.98
rs12210538	Carnitine C18:2 levels	GCST90199916	6	110438805	G	A	8268	-0.30	0.02	0.00	0.04	301.01
rs11758607 9	Carnitine C18:2 levels	GCST90199916	6	154739627	A	G	8268	0.17	0.04	0.00	0.00	21.57
rs17146352	Carnitine C18:2 levels	GCST90199916	7	22173578	G	A	8268	-0.22	0.05	0.00	0.00	19.51
rs62449441	Carnitine C18:2 levels	GCST90199916	7	54605176	A	T	8268	-0.15	0.03	0.00	0.00	19.58
rs14118159 7	Carnitine C18:2 levels	GCST90199916	8	615474	G	A	8268	0.47	0.10	0.00	0.00	20.48
rs16924104	Carnitine C18:2 levels	GCST90199916	8	58859559	G	C	8268	-0.08	0.02	0.00	0.00	20.25
rs964686	Carnitine C18:2 levels	GCST90199916	10	45508364	T	C	8268	0.09	0.02	0.00	0.00	33.68
rs1171618	Carnitine C18:2 levels	GCST90199916	10	59706183	C	T	8268	0.10	0.02	0.00	0.00	38.23
rs58310495	Carnitine C18:2 levels	GCST90199916	12	21204777	T	C	8268	0.13	0.02	0.00	0.00	36.45
rs635071	Carnitine C18:2 levels	GCST90199916	13	85738495	G	A	8268	0.08	0.02	0.00	0.00	22.79
rs14569990 6	Carnitine C18:2 levels	GCST90199916	14	59512447	A	G	8268	-0.33	0.07	0.00	0.00	20.86
rs11372846 3	Carnitine C18:2 levels	GCST90199916	17	76998117	T	C	8268	-0.26	0.06	0.00	0.00	19.82
rs4808987	Carnitine C18:2 levels	GCST90199916	19	19792453	G	A	8268	0.24	0.05	0.00	0.00	19.98
rs15118899 7	Carnitine C18:2 levels	GCST90199916	21	29808774	A	C	8268	0.30	0.07	0.00	0.00	19.91
rs1318411	Pregnanediol- 3-glucuronide levels	GCST90199917	1	33558179	G	A	7905	0.09	0.02	0.00	0.00	28.63
rs2265759	Pregnanediol- 3-glucuronide levels	GCST90199917	1	67809235	C	A	7905	0.08	0.02	0.00	0.00	20.47

rs72756864	Pregnanediol- 3-glucuronide levels	GCST90199917	1	240954769	C	A	7905	-0.15	0.03	0.00	0.00	20.65
rs77876998	Pregnanediol- 3-glucuronide levels	GCST90199917	2	53830984	G	T	7905	-0.16	0.03	0.00	0.00	24.09
rs77392176	Pregnanediol- 3-glucuronide levels	GCST90199917	2	71859492	T	C	7905	-0.20	0.05	0.00	0.00	19.58
rs2594950	Pregnanediol- 3-glucuronide levels	GCST90199917	2	176643894	C	G	7905	0.10	0.02	0.00	0.00	34.30
rs37354465 5	Pregnanediol- 3-glucuronide levels	GCST90199917	2	200334564	A	G	7905	0.10	0.02	0.00	0.00	19.54
rs73031169	Pregnanediol- 3-glucuronide levels	GCST90199917	3	14262007	T	A	7905	-0.16	0.03	0.00	0.00	23.86
rs80266383	Pregnanediol- 3-glucuronide levels	GCST90199917	3	88821623	T	C	7905	0.34	0.07	0.00	0.00	21.72
rs1398346	Pregnanediol- 3-glucuronide levels	GCST90199917	3	110553096	T	C	7905	-0.11	0.02	0.00	0.00	22.43
rs14316984 1	Pregnanediol- 3-glucuronide levels	GCST90199917	4	29642837	G	T	7905	-0.21	0.05	0.00	0.00	19.61
rs27739	Pregnanediol- 3-glucuronide levels	GCST90199917	5	33526336	T	A	7905	-0.08	0.02	0.00	0.00	26.32
rs10491431	Pregnanediol- 3-glucuronide levels	GCST90199917	5	35967898	A	C	7905	0.16	0.02	0.00	0.01	51.92
rs17155647	Pregnanediol- 3-glucuronide levels	GCST90199917	5	103655263	G	A	7905	0.14	0.03	0.00	0.00	20.81
rs808635	Pregnanediol- 3-glucuronide levels	GCST90199917	6	4876489	G	A	7905	-0.12	0.02	0.00	0.00	22.05
rs4270764	Pregnanediol- 3-glucuronide levels	GCST90199917	6	63073727	T	A	7905	0.07	0.02	0.00	0.00	19.57
rs2757768	Pregnanediol- 3-glucuronide levels	GCST90199917	6	69515708	C	A	7905	-0.08	0.02	0.00	0.00	19.51
rs17807104	Pregnanediol- 3-glucuronide levels	GCST90199917	6	94308194	G	A	7905	-0.15	0.03	0.00	0.00	20.07
rs62418519	Pregnanediol- 3-glucuronide levels	GCST90199917	6	94456958	C	T	7905	0.28	0.06	0.00	0.00	19.56
rs73014590	Pregnanediol- 3-glucuronide levels	GCST90199917	6	161833923	G	A	7905	-0.12	0.03	0.00	0.00	20.04
rs74870453	Pregnanediol- 3-glucuronide levels	GCST90199917	8	26021874	G	A	7905	0.23	0.05	0.00	0.00	19.93
rs11732560 8	Pregnanediol- 3-glucuronide levels	GCST90199917	8	70219496	A	G	7905	-0.21	0.05	0.00	0.00	20.79
rs75540483	Pregnanediol- 3-glucuronide levels	GCST90199917	8	138601295	A	G	7905	0.36	0.08	0.00	0.00	22.87
rs3124236	Pregnanediol- 3-glucuronide levels	GCST90199917	9	87596575	A	C	7905	0.11	0.02	0.00	0.00	21.47
rs10984496	Pregnanediol- 3-glucuronide levels	GCST90199917	9	119345083	T	C	7905	-0.13	0.03	0.00	0.00	21.25
rs75171534	Pregnanediol- 3-glucuronide levels	GCST90199917	11	42987099	G	C	7905	0.27	0.06	0.00	0.00	20.30

rs80237154	Pregnanediol-3-glucuronide levels	GCST90199917	11	63146300	G	C	7905	0.41	0.03	0.00	0.02	152.44
rs11045806	Pregnanediol-3-glucuronide levels	GCST90199917	12	21161802	A	G	7905	-0.13	0.02	0.00	0.00	38.79
rs4149056	Pregnanediol-3-glucuronide levels	GCST90199917	12	21178615	C	T	7905	0.25	0.02	0.00	0.02	140.21
rs1886858	Pregnanediol-3-glucuronide levels	GCST90199917	13	21742417	C	T	7905	0.09	0.02	0.00	0.00	25.06
rs142032916	Pregnanediol-3-glucuronide levels	GCST90199917	14	106809126	G	A	7905	0.10	0.02	0.00	0.00	19.73
rs75043972	Pregnanediol-3-glucuronide levels	GCST90199917	16	59435150	A	T	7905	0.38	0.08	0.00	0.00	20.42
rs1423891	Pregnanediol-3-glucuronide levels	GCST90199917	16	60713911	C	T	7905	-0.08	0.02	0.00	0.00	20.55
rs11641219	Pregnanediol-3-glucuronide levels	GCST90199917	16	75277914	C	T	7905	-0.07	0.02	0.00	0.00	19.61
rs58848254	Pregnanediol-3-glucuronide levels	GCST90199917	16	86369041	G	C	7905	0.15	0.03	0.00	0.00	19.73
rs4148415	Pregnanediol-3-glucuronide levels	GCST90199917	17	50675239	T	C	7905	-0.10	0.02	0.00	0.00	38.86
rs296379	Pregnanediol-3-glucuronide levels	GCST90199917	19	47868101	G	A	7905	-0.11	0.02	0.00	0.00	27.75
rs1213850	Carboxyethyl-gaba levels	GCST90199918	1	118659646	C	T	8090	-0.08	0.02	0.00	0.00	26.60
rs2404849	Carboxyethyl-gaba levels	GCST90199918	1	224085090	G	T	8090	-0.10	0.02	0.00	0.00	19.55
rs75128317	Carboxyethyl-gaba levels	GCST90199918	3	18059340	A	T	8090	0.29	0.06	0.00	0.00	22.43
rs10007799	Carboxyethyl-gaba levels	GCST90199918	4	32445102	A	G	8090	-0.16	0.04	0.00	0.00	20.61
rs13435198	Carboxyethyl-gaba levels	GCST90199918	4	154881454	G	A	8090	-0.07	0.02	0.00	0.00	19.61
rs7707197	Carboxyethyl-gaba levels	GCST90199918	5	151114569	T	G	8090	-0.14	0.03	0.00	0.00	20.86
rs1165152	Carboxyethyl-gaba levels	GCST90199918	6	25818538	G	A	8090	-0.14	0.02	0.00	0.01	79.50
rs10226985	Carboxyethyl-gaba levels	GCST90199918	7	30502225	C	T	8090	0.18	0.04	0.00	0.00	23.67
rs13438347	Carboxyethyl-gaba levels	GCST90199918	7	52717091	A	C	8090	0.12	0.03	0.00	0.00	20.88
rs118073108	Carboxyethyl-gaba levels	GCST90199918	7	74618256	C	G	8090	-0.44	0.09	0.00	0.00	22.53
rs76212379	Carboxyethyl-gaba levels	GCST90199918	7	138815153	T	C	8090	0.23	0.05	0.00	0.00	19.73
rs62492368	Carboxyethyl-gaba levels	GCST90199918	7	150840547	A	G	8090	0.15	0.02	0.00	0.01	76.22
rs4725969	Carboxyethyl-gaba levels	GCST90199918	7	150861427	T	C	8090	-0.12	0.02	0.00	0.01	49.51
rs78022645	Carboxyethyl-gaba levels	GCST90199918	11	95041642	T	C	8090	-0.18	0.04	0.00	0.00	23.43
rs17721101	Carboxyethyl-gaba levels	GCST90199918	12	47835038	C	A	8090	-0.13	0.03	0.00	0.00	21.29
rs35192662	Carboxyethyl-gaba levels	GCST90199918	12	89361339	C	G	8090	-0.12	0.03	0.00	0.00	20.48
rs73177136	Carboxyethyl-gaba levels	GCST90199918	13	39640997	G	A	8090	-0.26	0.06	0.00	0.00	21.57
rs151029871	Carboxyethyl-gaba levels	GCST90199918	14	63722392	A	G	8090	-0.26	0.05	0.00	0.00	22.81
rs112733535	Carboxyethyl-gaba levels	GCST90199918	16	58150586	T	C	8090	0.38	0.08	0.00	0.00	20.72
rs6416742	Carboxyethyl-gaba levels	GCST90199918	16	72115162	T	C	8090	-0.07	0.02	0.00	0.00	20.21

rs3744683	Carboxyethyl-gaba levels	GCST90199918	17	3610168	C	T	8090	0.32	0.07	0.00	0.00	19.66
rs75761281	Carboxyethyl-gaba levels	GCST90199918	17	71703101	G	A	8090	-1.09	0.24	0.00	0.00	19.90
rs77897163	Carboxyethyl-gaba levels	GCST90199918	18	13450742	C	A	8090	-0.23	0.05	0.00	0.00	19.97
rs72754366	Alliin levels	GCST90199919	1	212467336	G	A	6517	-0.11	0.03	0.00	0.00	19.51
rs17338533	Alliin levels	GCST90199919	2	2117465	A	G	6517	-0.20	0.04	0.00	0.00	21.44
rs10206899	Alliin levels	GCST90199919	2	73673773	C	T	6517	-0.43	0.02	0.00	0.06	437.14
rs11690888	Alliin levels	GCST90199919	2	85823734	G	A	6517	-0.17	0.03	0.00	0.00	22.63
rs72721863	Alliin levels	GCST90199919	4	149260010	C	T	6517	0.14	0.03	0.00	0.00	19.51
rs181044913	Alliin levels	GCST90199919	5	61693136	A	G	6517	0.39	0.08	0.00	0.00	20.98
rs2431256	Alliin levels	GCST90199919	5	179204285	T	C	6517	-0.09	0.02	0.00	0.00	19.62
rs1228633	Alliin levels	GCST90199919	6	7868836	T	C	6517	0.09	0.02	0.00	0.00	22.15
rs55780138	Alliin levels	GCST90199919	7	16136891	T	C	6517	-0.08	0.02	0.00	0.00	19.79
rs2978334	Alliin levels	GCST90199919	8	2828385	A	G	6517	0.08	0.02	0.00	0.00	19.65
rs17313541	Alliin levels	GCST90199919	9	28805151	G	A	6517	0.20	0.04	0.00	0.00	21.30
rs72742143	Alliin levels	GCST90199919	9	75670207	A	G	6517	0.12	0.02	0.00	0.00	21.80
rs10786117	Alliin levels	GCST90199919	10	93609654	T	C	6517	0.15	0.03	0.00	0.00	19.78
rs140618221	Alliin levels	GCST90199919	11	72426708	C	T	6517	0.60	0.13	0.00	0.00	20.92
rs146756132	Alliin levels	GCST90199919	12	26622933	C	T	6517	-0.27	0.06	0.00	0.00	19.56
rs528561928	Alliin levels	GCST90199919	12	70769927	T	A	6517	-0.23	0.05	0.00	0.00	20.54
rs113968525	Alliin levels	GCST90199919	16	1934783	G	T	6517	-0.27	0.06	0.00	0.00	21.78
rs11646830	Alliin levels	GCST90199919	16	60636166	A	G	6517	0.08	0.02	0.00	0.00	22.19
rs8057774	Alliin levels	GCST90199919	16	87970597	G	T	6517	-0.10	0.02	0.00	0.00	21.06
rs11652565	Alliin levels	GCST90199919	17	41089090	C	T	6517	-0.13	0.03	0.00	0.00	21.25
rs10779300	Trimethylamine n-oxide	GCST90199920	1	217596342	G	T	8218	-0.08	0.02	0.00	0.00	20.51
rs147801036	Trimethylamine n-oxide	GCST90199920	2	104101341	G	A	8218	-0.45	0.10	0.00	0.00	19.69
rs76647235	Trimethylamine n-oxide	GCST90199920	2	215621311	T	C	8218	0.21	0.04	0.00	0.00	22.39
rs72683541	Trimethylamine n-oxide	GCST90199920	4	155995909	C	T	8218	0.13	0.03	0.00	0.00	21.62
rs1834922	Trimethylamine n-oxide	GCST90199920	5	5144987	A	G	8218	0.07	0.02	0.00	0.00	19.53
rs11762714	Trimethylamine n-oxide	GCST90199920	7	71272373	T	C	8218	0.08	0.02	0.00	0.00	19.85
rs76904847	Trimethylamine n-oxide	GCST90199920	7	138283265	G	A	8218	-0.09	0.02	0.00	0.00	20.81
rs17712087	Trimethylamine n-oxide	GCST90199920	8	71332540	A	G	8218	0.08	0.02	0.00	0.00	20.74
rs10109687	Trimethylamine n-oxide	GCST90199920	8	128376977	T	C	8218	-0.29	0.06	0.00	0.00	21.04
rs72712449	Trimethylamine n-oxide	GCST90199920	8	130805295	T	C	8218	-0.08	0.02	0.00	0.00	21.23
rs16921265	Trimethylamine n-oxide	GCST90199920	11	95025674	T	C	8218	0.17	0.04	0.00	0.00	21.24
rs10847526	Trimethylamine n-oxide	GCST90199920	12	128086659	T	G	8218	-0.08	0.02	0.00	0.00	27.23
rs17470203	Trimethylamine n-oxide	GCST90199920	18	28276617	A	C	8218	0.13	0.03	0.00	0.00	20.16
rs4816585	Trimethylamine n-oxide	GCST90199920	21	37856948	G	A	8218	0.07	0.02	0.00	0.00	20.01
rs5758859	Trimethylamine n-oxide	GCST90199920	22	42674799	G	T	8218	-0.07	0.01	0.00	0.00	20.77
rs140852147	Dihydroferulate levels	GCST90199921	2	39224846	C	T	6398	0.43	0.10	0.00	0.00	20.10
rs142058487	Dihydroferulate levels	GCST90199921	3	164203585	T	C	6398	-0.27	0.06	0.00	0.00	21.27
rs139037625	Dihydroferulate levels	GCST90199921	4	64621329	T	C	6398	-0.29	0.06	0.00	0.00	20.39
rs146414415	Dihydroferulate levels	GCST90199921	4	114278000	G	T	6398	-0.54	0.11	0.00	0.00	23.85
rs76023307	Dihydroferulate levels	GCST90199921	5	56579845	C	T	6398	0.58	0.12	0.00	0.00	23.56
rs141113806	Dihydroferulate levels	GCST90199921	6	76199400	T	C	6398	0.31	0.07	0.00	0.00	19.70

rs5745664	Dihydroferulate levels	GCST90199921	7	81745501	A	G	6398	-0.27	0.06	0.00	0.00	20.30
rs147554512	Dihydroferulate levels	GCST90199921	7	129339224	A	G	6398	0.40	0.09	0.00	0.00	21.57
rs144300868	Dihydroferulate levels	GCST90199921	9	32356596	G	A	6398	-0.32	0.07	0.00	0.00	20.39
rs1853309	Dihydroferulate levels	GCST90199921	13	101969250	C	G	6398	0.08	0.02	0.00	0.00	20.51
rs140134044	Dihydroferulate levels	GCST90199921	15	76071541	T	G	6398	-0.27	0.06	0.00	0.00	20.13
rs7170557	Dihydroferulate levels	GCST90199921	15	92349458	A	T	6398	0.09	0.02	0.00	0.00	21.33
rs6052327	Dihydroferulate levels	GCST90199921	20	4093663	T	C	6398	-0.09	0.02	0.00	0.00	20.35
rs72663011	Prolylglycine levels	GCST90199922	1	20176333	A	G	7907	0.48	0.09	0.00	0.00	27.10
rs114227372	Prolylglycine levels	GCST90199922	1	64260366	G	A	7907	0.21	0.05	0.00	0.00	20.14
rs11810017	Prolylglycine levels	GCST90199922	1	201981821	C	T	7907	-0.09	0.02	0.00	0.00	28.79
rs12478448	Prolylglycine levels	GCST90199922	2	20484559	T	C	7907	0.14	0.03	0.00	0.00	19.85
rs2194715	Prolylglycine levels	GCST90199922	2	172844388	A	G	7907	0.27	0.06	0.00	0.00	19.56
rs12470153	Prolylglycine levels	GCST90199922	2	222291192	C	G	7907	-0.08	0.02	0.00	0.00	21.51
rs114600258	Prolylglycine levels	GCST90199922	2	240140390	A	G	7907	0.30	0.06	0.00	0.00	22.50
rs190967890	Prolylglycine levels	GCST90199922	3	29376644	G	A	7907	0.24	0.05	0.00	0.00	21.95
rs144865870	Prolylglycine levels	GCST90199922	3	64486631	C	G	7907	0.48	0.11	0.00	0.00	20.54
rs116293681	Prolylglycine levels	GCST90199922	3	170068645	G	A	7907	-0.20	0.04	0.00	0.00	20.04
rs78462319	Prolylglycine levels	GCST90199922	4	187928131	C	T	7907	-0.22	0.05	0.00	0.00	19.62
rs10067018	Prolylglycine levels	GCST90199922	5	78306580	G	A	7907	-0.07	0.02	0.00	0.00	19.62
rs9469640	Prolylglycine levels	GCST90199922	6	33940622	G	A	7907	0.31	0.07	0.00	0.00	21.31
rs185222935	Prolylglycine levels	GCST90199922	7	9723285	T	A	7907	0.25	0.06	0.00	0.00	20.31
rs56280427	Prolylglycine levels	GCST90199922	7	53592308	G	C	7907	0.12	0.03	0.00	0.00	21.00
rs10277859	Prolylglycine levels	GCST90199922	7	151690111	C	T	7907	0.10	0.02	0.00	0.00	22.53
rs2299564	Prolylglycine levels	GCST90199922	8	17539298	T	G	7907	0.25	0.05	0.00	0.00	20.52
rs2937885	Prolylglycine levels	GCST90199922	8	17741627	G	A	7907	0.09	0.02	0.00	0.00	19.58
rs6990299	Prolylglycine levels	GCST90199922	8	39055287	T	G	7907	0.08	0.02	0.00	0.00	19.93
rs10107909	Prolylglycine levels	GCST90199922	8	58385539	A	G	7907	0.09	0.02	0.00	0.00	27.22
rs12554315	Prolylglycine levels	GCST90199922	9	26390175	A	T	7907	0.16	0.03	0.00	0.00	20.43
rs7868733	Prolylglycine levels	GCST90199922	9	128666232	T	C	7907	0.10	0.02	0.00	0.00	19.63
rs79523684	Prolylglycine levels	GCST90199922	14	24331464	A	G	7907	0.24	0.05	0.00	0.00	23.88
rs72799826	Prolylglycine levels	GCST90199922	16	71618380	T	C	7907	-0.09	0.02	0.00	0.00	20.11
rs164749	Prolylglycine levels	GCST90199922	16	89641816	G	T	7907	-0.10	0.02	0.00	0.01	43.48
rs740786	Prolylglycine levels	GCST90199922	17	50685417	T	A	7907	-0.07	0.02	0.00	0.00	20.31
rs79434713	Prolylglycine levels	GCST90199922	19	6700971	A	C	7907	-0.16	0.04	0.00	0.00	19.63
rs16975660	Prolylglycine levels	GCST90199922	19	42052137	G	A	7907	0.32	0.07	0.00	0.00	19.77
rs34202970	Prolylglycine levels	GCST90199922	19	42944004	A	G	7907	-0.08	0.02	0.00	0.00	21.90
rs115099495	Prolylglycine levels	GCST90199922	19	56273852	C	T	7907	0.29	0.07	0.00	0.00	19.54

rs5764188	Prolylglycine levels	GCST90199922	22	43656309	G	A	7907	-0.07	0.02	0.00	0.00	19.64
rs324420	N- palmitoylglyci ne levels	GCST90199923	1	46405089	A	C	8236	0.34	0.02	0.00	0.04	343.23
rs6660577	N- palmitoylglyci ne levels	GCST90199923	1	165438160	T	C	8236	0.10	0.02	0.00	0.00	23.75
rs10913299	N- palmitoylglyci ne levels	GCST90199923	1	177220762	T	G	8236	-0.07	0.02	0.00	0.00	19.95
rs14415112 1	N- palmitoylglyci ne levels	GCST90199923	1	187858834	A	G	8236	-0.17	0.04	0.00	0.00	22.58
rs45599238	N- palmitoylglyci ne levels	GCST90199923	2	31372009	A	G	8236	-0.30	0.07	0.00	0.00	19.95
rs79839031	N- palmitoylglyci ne levels	GCST90199923	2	65877416	A	G	8236	0.16	0.03	0.00	0.00	23.00
rs1047891	N- palmitoylglyci ne levels	GCST90199923	2	210675783	A	C	8236	0.25	0.02	0.00	0.03	235.03
rs7577013	N- palmitoylglyci ne levels	GCST90199923	2	240051187	A	G	8236	0.12	0.03	0.00	0.00	19.57
rs952039	N- palmitoylglyci ne levels	GCST90199923	3	62713343	C	T	8236	-0.07	0.02	0.00	0.00	21.68
rs557343	N- palmitoylglyci ne levels	GCST90199923	3	146513231	G	C	8236	0.08	0.02	0.00	0.00	21.21
rs14725682 9	N- palmitoylglyci ne levels	GCST90199923	3	176673363	C	T	8236	0.22	0.05	0.00	0.00	22.21
rs10938827	N- palmitoylglyci ne levels	GCST90199923	4	21040352	T	C	8236	0.09	0.02	0.00	0.00	21.61
rs28662031	N- palmitoylglyci ne levels	GCST90199923	4	65070794	C	T	8236	0.08	0.02	0.00	0.00	20.33
rs15112884 1	N- palmitoylglyci ne levels	GCST90199923	7	55394795	G	T	8236	-0.30	0.07	0.00	0.00	21.32
rs820503	N- palmitoylglyci ne levels	GCST90199923	9	6667928	A	C	8236	-0.11	0.02	0.00	0.00	23.73
rs11190368	N- palmitoylglyci ne levels	GCST90199923	10	100018265	T	A	8236	-0.07	0.02	0.00	0.00	20.32
rs67981690	N- palmitoylglyci ne levels	GCST90199923	12	21190952	G	A	8236	0.13	0.02	0.00	0.00	36.25
rs11806337 8	N- palmitoylglyci ne levels	GCST90199923	13	30538841	A	G	8236	0.24	0.05	0.00	0.00	20.75
rs9530666	N- palmitoylglyci ne levels	GCST90199923	13	77482029	C	A	8236	-0.07	0.02	0.00	0.00	19.73
rs11811625 0	N- palmitoylglyci ne levels	GCST90199923	15	100817385	A	G	8236	-0.40	0.09	0.00	0.00	21.17
rs11644940	N- palmitoylglyci ne levels	GCST90199923	16	59849210	T	C	8236	-0.09	0.02	0.00	0.00	20.04
rs11710190 8	N- palmitoylglyci ne levels	GCST90199923	21	34793787	T	A	8236	0.17	0.04	0.00	0.00	22.23
rs6662518	N- methyltaurine levels	GCST90199924	1	175316151	T	C	5440	0.12	0.03	0.00	0.00	20.72
rs6671682	N- methyltaurine levels	GCST90199924	1	227692574	T	C	5440	-0.16	0.03	0.00	0.00	19.65

rs10179520	N-methyltaurine levels	GCST90199924	2	45863921	A	G	5440	0.09	0.02	0.00	0.00	19.78
rs12474137	N-methyltaurine levels	GCST90199924	2	66080593	G	A	5440	-0.10	0.02	0.00	0.00	25.47
rs1898707	N-methyltaurine levels	GCST90199924	2	118809860	A	G	5440	-0.13	0.03	0.00	0.00	24.80
rs60185985	N-methyltaurine levels	GCST90199924	2	240750991	A	G	5440	-0.16	0.03	0.00	0.00	20.13
rs11719691	N-methyltaurine levels	GCST90199924	3	166593340	G	T	5440	-0.16	0.04	0.00	0.00	20.20
rs286018	N-methyltaurine levels	GCST90199924	5	56419740	G	C	5440	0.10	0.02	0.00	0.00	21.99
rs879815	N-methyltaurine levels	GCST90199924	5	174750559	A	G	5440	0.12	0.02	0.00	0.00	24.62
rs10279978	N-methyltaurine levels	GCST90199924	7	5279756	A	G	5440	-0.09	0.02	0.00	0.00	20.85
rs14819777 1	N-methyltaurine levels	GCST90199924	7	47820504	A	C	5440	0.51	0.11	0.00	0.00	19.70
rs19163097 7	N-methyltaurine levels	GCST90199924	7	75894132	A	G	5440	0.31	0.07	0.00	0.00	20.74
rs1375791	N-methyltaurine levels	GCST90199924	8	83020759	G	A	5440	-0.11	0.02	0.00	0.00	22.75
rs11328191 2	N-methyltaurine levels	GCST90199924	9	70583398	A	T	5440	-0.28	0.06	0.00	0.00	22.42
rs7022505	N-methyltaurine levels	GCST90199924	9	118450871	T	C	5440	0.15	0.03	0.00	0.00	21.90
rs14346207 2	N-methyltaurine levels	GCST90199924	10	121074081	A	G	5440	0.49	0.10	0.00	0.00	24.66
rs1946084	N-methyltaurine levels	GCST90199924	11	126756308	G	A	5440	-0.09	0.02	0.00	0.00	21.29
rs13955433 3	N-methyltaurine levels	GCST90199924	12	17187711	G	A	5440	0.20	0.04	0.00	0.00	20.24
rs13822080 0	N-methyltaurine levels	GCST90199924	13	68441638	A	G	5440	0.42	0.10	0.00	0.00	19.62
rs11783679 2	N-methyltaurine levels	GCST90199924	14	70714740	G	C	5440	-0.28	0.06	0.00	0.00	20.73
rs13808264 1	N-methyltaurine levels	GCST90199924	14	89800457	A	G	5440	-0.66	0.14	0.00	0.00	21.08
rs11070219	N-methyltaurine levels	GCST90199924	15	39533395	T	C	5440	0.09	0.02	0.00	0.00	20.87
rs8043403	N-methyltaurine levels	GCST90199924	15	62130745	G	C	5440	0.13	0.03	0.00	0.00	22.56
rs11290968 5	N-methyltaurine levels	GCST90199924	16	67688941	A	G	5440	-0.35	0.08	0.00	0.00	20.71
rs11656324	N-methyltaurine levels	GCST90199924	17	33970264	C	G	5440	0.11	0.02	0.00	0.00	22.20
rs13913272 6	N-methyltaurine levels	GCST90199924	17	57566488	T	C	5440	-0.54	0.11	0.00	0.00	23.45

rs1284407	N-methyltaurine levels	GCST90199924	18	13547423	A	G	5440	0.09	0.02	0.00	0.00	20.29
rs73016721	N-methyltaurine levels	GCST90199924	19	16305846	T	A	5440	-0.11	0.02	0.00	0.00	24.87
rs115343247	N-methyltaurine levels	GCST90199924	20	39620206	C	T	5440	0.34	0.07	0.00	0.00	26.31
rs2284011	N-methyltaurine levels	GCST90199924	22	36685763	T	C	5440	-0.14	0.03	0.00	0.00	23.46
rs12125124	Succinimide levels	GCST90199925	1	215109221	T	C	5865	0.19	0.04	0.00	0.00	20.10
rs142777799	Succinimide levels	GCST90199925	1	244894582	C	T	5865	0.18	0.04	0.00	0.00	21.45
rs139289471	Succinimide levels	GCST90199925	2	67762406	C	G	5865	0.54	0.12	0.00	0.00	20.49
rs74588150	Succinimide levels	GCST90199925	2	104871383	C	G	5865	0.47	0.11	0.00	0.00	19.54
rs188481956	Succinimide levels	GCST90199925	2	166392889	T	C	5865	0.30	0.06	0.00	0.00	21.97
rs7640191	Succinimide levels	GCST90199925	3	64689850	T	C	5865	0.27	0.05	0.00	0.00	23.60
rs11920360	Succinimide levels	GCST90199925	3	117135897	C	T	5865	0.36	0.08	0.00	0.00	22.62
rs112406293	Succinimide levels	GCST90199925	5	175333668	A	G	5865	0.19	0.04	0.00	0.00	22.28
rs9368908	Succinimide levels	GCST90199925	6	36179895	G	C	5865	-0.16	0.04	0.00	0.00	19.86
rs10952288	Succinimide levels	GCST90199925	7	150825973	G	A	5865	0.09	0.02	0.00	0.00	23.39
rs183382921	Succinimide levels	GCST90199925	8	6537799	G	A	5865	0.75	0.17	0.00	0.00	20.06
rs16871364	Succinimide levels	GCST90199925	8	104382195	T	G	5865	0.15	0.02	0.00	0.01	44.88
rs181190716	Succinimide levels	GCST90199925	10	57938061	T	C	5865	0.70	0.15	0.00	0.00	21.41
rs12439661	Succinimide levels	GCST90199925	15	66097564	C	A	5865	-0.08	0.02	0.00	0.00	19.74
rs8056710	Succinimide levels	GCST90199925	16	7397629	A	G	5865	0.47	0.10	0.00	0.00	20.58
rs4462695	Succinimide levels	GCST90199925	18	75939081	A	C	5865	-0.09	0.02	0.00	0.00	19.90
rs2163864	Succinimide levels	GCST90199925	19	15799498	C	T	5865	-0.10	0.02	0.00	0.00	19.68
rs6134892	Succinimide levels	GCST90199925	20	13501007	G	A	5865	0.10	0.02	0.00	0.00	20.12
rs148866069	Succinimide levels	GCST90199925	21	20353682	G	A	5865	0.43	0.10	0.00	0.00	20.54
rs75774670	Succinimide levels	GCST90199925	21	34758328	C	G	5865	0.72	0.16	0.00	0.00	20.81
rs5768637	Succinimide levels	GCST90199925	22	48454969	A	G	5865	0.12	0.03	0.00	0.00	21.32
rs116041355	N-acetylcarnosine levels	GCST90199926	2	11484217	T	C	8233	-0.28	0.06	0.00	0.00	21.62
rs6718443	N-acetylcarnosine levels	GCST90199926	2	77846798	C	T	8233	0.07	0.02	0.00	0.00	19.80
rs72817883	N-acetylcarnosine levels	GCST90199926	2	102071740	T	G	8233	0.16	0.03	0.00	0.00	22.84
rs142777664	N-acetylcarnosine levels	GCST90199926	2	238357977	A	G	8233	0.29	0.06	0.00	0.00	23.48
rs6800284	N-acetylcarnosine levels	GCST90199926	3	30717464	T	C	8233	-0.17	0.01	0.00	0.02	195.87
rs4552340	N-acetylcarnosine levels	GCST90199926	3	50881737	A	C	8233	-0.07	0.02	0.00	0.00	19.62

rs7772804	N- acetylcarnosin e levels	GCST90199926	6	12448971	A	G	8233	0.20	0.05	0.00	0.00	19.84
rs7775554	N- acetylcarnosin e levels	GCST90199926	6	89169449	C	A	8233	-0.15	0.01	0.00	0.02	157.72
rs62415380	N- acetylcarnosin e levels	GCST90199926	6	89357497	C	G	8233	0.11	0.02	0.00	0.00	35.28
rs77753207	N- acetylcarnosin e levels	GCST90199926	7	26631802	T	C	8233	-0.16	0.03	0.00	0.00	24.78
rs568897480	N- acetylcarnosin e levels	GCST90199926	7	142149743	A	G	8233	-0.28	0.06	0.00	0.00	22.36
rs79570022	N- acetylcarnosin e levels	GCST90199926	9	130641290	A	G	8233	-0.37	0.08	0.00	0.00	20.06
rs113221897	N- acetylcarnosin e levels	GCST90199926	11	29065619	A	G	8233	0.10	0.02	0.00	0.00	22.85
rs143864773	N- acetylcarnosin e levels	GCST90199926	11	32744320	C	T	8233	-0.12	0.02	0.00	0.00	26.89
rs10838830	N- acetylcarnosin e levels	GCST90199926	11	48212380	G	A	8233	0.06	0.01	0.00	0.00	19.85
rs1558256	N- acetylcarnosin e levels	GCST90199926	11	67412217	G	A	8233	0.13	0.02	0.00	0.00	26.54
rs4944235	N- acetylcarnosin e levels	GCST90199926	11	79611047	A	G	8233	0.08	0.02	0.00	0.00	20.71
rs543491608	N- acetylcarnosin e levels	GCST90199926	11	119203712	G	C	8233	0.38	0.08	0.00	0.00	21.17
rs10783716	N- acetylcarnosin e levels	GCST90199926	12	39233718	A	G	8233	-0.06	0.01	0.00	0.00	21.76
rs11180558	N- acetylcarnosin e levels	GCST90199926	12	75526504	T	C	8233	-1.02	0.22	0.00	0.00	20.69
rs9524869	N- acetylcarnosin e levels	GCST90199926	13	95261421	G	C	8233	0.24	0.01	0.00	0.03	268.94
rs2992883	N- acetylcarnosin e levels	GCST90199926	13	95344101	T	A	8233	0.10	0.01	0.00	0.01	42.65
rs9549539	N- acetylcarnosin e levels	GCST90199926	13	112544182	G	A	8233	0.07	0.02	0.00	0.00	19.60
rs11071547	N- acetylcarnosin e levels	GCST90199926	15	60640638	T	C	8233	0.06	0.01	0.00	0.00	20.46
rs148182876	N- acetylcarnosin e levels	GCST90199926	16	48722401	G	C	8233	0.11	0.02	0.00	0.00	21.04
rs5417	N- acetylcarnosin e levels	GCST90199926	17	7281743	A	C	8233	-0.06	0.01	0.00	0.00	26.18
rs12602860	N- acetylcarnosin e levels	GCST90199926	17	44532763	T	C	8233	0.06	0.01	0.00	0.00	19.98
rs16951671	N- acetylcarnosin e levels	GCST90199926	18	7389335	C	T	8233	-0.13	0.03	0.00	0.00	24.34
rs725476	N- acetylcarnosin e levels	GCST90199926	19	28506423	T	C	8233	0.06	0.01	0.00	0.00	19.91
rs79305797	Histidine betaine (hercynine) levels	GCST90199927	1	219656905	A	G	7518	0.28	0.06	0.00	0.00	21.21

rs12138275	Histidine betaine (hercynine) levels	GCST90199927	1	242379477	A	G	7518	-0.11	0.02	0.00	0.00	22.13
rs11689313	Histidine betaine (hercynine) levels	GCST90199927	2	45207257	C	G	7518	-0.08	0.02	0.00	0.00	21.97
rs73957577	Histidine betaine (hercynine) levels	GCST90199927	2	128685034	T	C	7518	-0.19	0.04	0.00	0.00	23.29
rs77887994	Histidine betaine (hercynine) levels	GCST90199927	2	180377147	G	A	7518	0.28	0.06	0.00	0.00	22.07
rs4148325	Histidine betaine (hercynine) levels	GCST90199927	2	233764663	T	C	7518	0.11	0.02	0.00	0.01	43.62
rs11509792 4	Histidine betaine (hercynine) levels	GCST90199927	4	48718716	G	A	7518	-0.20	0.04	0.00	0.00	20.18
rs4547965	Histidine betaine (hercynine) levels	GCST90199927	5	109541044	A	G	7518	-0.23	0.05	0.00	0.00	19.99
rs13892818 4	Histidine betaine (hercynine) levels	GCST90199927	5	116050861	T	G	7518	0.28	0.06	0.00	0.00	22.38
rs35260072	Histidine betaine (hercynine) levels	GCST90199927	5	132295159	C	A	7518	0.11	0.02	0.00	0.01	44.11
rs12210538	Histidine betaine (hercynine) levels	GCST90199927	6	110438805	G	A	7518	0.11	0.02	0.00	0.00	35.70
rs7460378	Histidine betaine (hercynine) levels	GCST90199927	8	43510803	G	A	7518	-0.08	0.02	0.00	0.00	21.89
rs14210301 4	Histidine betaine (hercynine) levels	GCST90199927	8	92562006	A	G	7518	0.28	0.06	0.00	0.00	19.66
rs10980156	Histidine betaine (hercynine) levels	GCST90199927	9	110040690	T	A	7518	-0.27	0.06	0.00	0.00	23.59
rs75695195	Histidine betaine (hercynine) levels	GCST90199927	10	20230304	G	A	7518	-0.19	0.04	0.00	0.00	23.48
rs75906023	Histidine betaine (hercynine) levels	GCST90199927	14	57795097	T	G	7518	-0.36	0.07	0.00	0.00	25.05
rs6100964	Histidine betaine (hercynine) levels	GCST90199927	20	60553252	C	T	7518	0.09	0.02	0.00	0.00	20.81
rs61781291	2-stearoyl- GPE (18:0) levels	GCST90199928	1	39936166	A	T	8073	0.12	0.02	0.00	0.01	45.21
rs75142278	2-stearoyl- GPE (18:0) levels	GCST90199928	1	113711296	T	C	8073	0.16	0.03	0.00	0.00	20.38
rs3952240	2-stearoyl- GPE (18:0) levels	GCST90199928	1	202623573	C	G	8073	0.18	0.04	0.00	0.00	23.22

rs3892308	2-stearoyl- GPE (18:0) levels	GCST90199928	1	204977879	T	C	8073	-0.09	0.02	0.00	0.00	21.25
rs1985915	2-stearoyl- GPE (18:0) levels	GCST90199928	2	4907762	A	T	8073	0.09	0.02	0.00	0.00	21.33
rs780093	2-stearoyl- GPE (18:0) levels	GCST90199928	2	27519736	C	T	8073	-0.07	0.02	0.00	0.00	21.86
rs17053338	2-stearoyl- GPE (18:0) levels	GCST90199928	3	53680508	C	T	8073	0.13	0.03	0.00	0.00	19.61
rs62322762	2-stearoyl- GPE (18:0) levels	GCST90199928	3	106915313	T	C	8073	-0.11	0.03	0.00	0.00	19.66
rs1849458	2-stearoyl- GPE (18:0) levels	GCST90199928	4	165109607	T	C	8073	0.08	0.02	0.00	0.00	22.30
rs3816974	2-stearoyl- GPE (18:0) levels	GCST90199928	5	53962868	A	T	8073	0.09	0.02	0.00	0.00	21.01
rs4960114	2-stearoyl- GPE (18:0) levels	GCST90199928	6	5624323	G	T	8073	0.08	0.02	0.00	0.00	20.35
rs17220241	2-stearoyl- GPE (18:0) levels	GCST90199928	6	32854467	T	G	8073	0.25	0.05	0.00	0.00	20.95
rs11526119 1	2-stearoyl- GPE (18:0) levels	GCST90199928	6	53134554	C	T	8073	-0.23	0.05	0.00	0.00	20.58
rs9377263	2-stearoyl- GPE (18:0) levels	GCST90199928	6	101146919	A	C	8073	0.10	0.02	0.00	0.00	19.83
rs11718606 2	2-stearoyl- GPE (18:0) levels	GCST90199928	8	68166209	A	C	8073	-0.22	0.05	0.00	0.00	24.16
rs11778956 5	2-stearoyl- GPE (18:0) levels	GCST90199928	8	140706846	T	C	8073	0.32	0.07	0.00	0.00	21.24
rs4879618	2-stearoyl- GPE (18:0) levels	GCST90199928	9	32862429	A	C	8073	0.07	0.02	0.00	0.00	20.59
rs10735636	2-stearoyl- GPE (18:0) levels	GCST90199928	9	74877161	G	C	8073	0.27	0.06	0.00	0.00	20.31
rs4752602	2-stearoyl- GPE (18:0) levels	GCST90199928	10	121804555	A	G	8073	-0.08	0.02	0.00	0.00	22.22
rs7108734	2-stearoyl- GPE (18:0) levels	GCST90199928	11	11434480	A	C	8073	-0.09	0.02	0.00	0.00	20.13
rs4938440	2-stearoyl- GPE (18:0) levels	GCST90199928	11	117823256	A	G	8073	0.18	0.04	0.00	0.00	24.27
rs73039941	2-stearoyl- GPE (18:0) levels	GCST90199928	12	5422159	T	C	8073	0.11	0.02	0.00	0.00	20.05
rs18235182 7	2-stearoyl- GPE (18:0) levels	GCST90199928	13	79092518	T	C	8073	0.29	0.06	0.00	0.00	25.31
rs14944942 3	2-stearoyl- GPE (18:0) levels	GCST90199928	14	103549535	G	C	8073	0.30	0.07	0.00	0.00	20.08
rs174418	2-stearoyl- GPE (18:0) levels	GCST90199928	15	58395404	C	T	8073	-0.12	0.02	0.00	0.01	52.63
rs1077835	2-stearoyl- GPE (18:0) levels	GCST90199928	15	58431227	G	A	8073	0.13	0.02	0.00	0.01	45.78
rs75954070	2-stearoyl- GPE (18:0) levels	GCST90199928	15	62140208	A	G	8073	-0.10	0.02	0.00	0.00	23.37

rs11785481 7	2-stearoyl- GPE (18:0) levels	GCST90199928	17	9769837	A	G	8073	0.28	0.06	0.00	0.00	20.72
rs17647285	2-stearoyl- GPE (18:0) levels	GCST90199928	17	40993027	G	A	8073	0.14	0.03	0.00	0.00	23.22
rs13838368 4	2-stearoyl- GPE (18:0) levels	GCST90199928	17	70086935	A	G	8073	-0.32	0.07	0.00	0.00	22.26
rs78081588	2-stearoyl- GPE (18:0) levels	GCST90199928	19	17082825	G	C	8073	0.27	0.06	0.00	0.00	19.83
rs78928962	2-stearoyl- GPE (18:0) levels	GCST90199928	20	60825915	G	A	8073	-0.22	0.04	0.00	0.00	26.01
rs14205707 3	Margaroylcar nitine (C17) levels	GCST90199929	1	17091844	A	G	8112	0.36	0.08	0.00	0.00	19.59
rs3767088	Margaroylcar nitine (C17) levels	GCST90199929	1	36951560	T	C	8112	0.09	0.02	0.00	0.00	23.67
rs18755345 3	Margaroylcar nitine (C17) levels	GCST90199929	3	5215345	T	G	8112	-0.25	0.05	0.00	0.00	22.59
rs34904621	Margaroylcar nitine (C17) levels	GCST90199929	3	33217571	T	C	8112	-0.08	0.02	0.00	0.00	19.85
rs1526061	Margaroylcar nitine (C17) levels	GCST90199929	4	82660597	A	G	8112	0.09	0.02	0.00	0.00	20.54
rs35984788	Margaroylcar nitine (C17) levels	GCST90199929	4	104189973	T	C	8112	0.13	0.03	0.00	0.00	19.96
rs13926516 4	Margaroylcar nitine (C17) levels	GCST90199929	4	138874562	A	G	8112	0.38	0.08	0.00	0.00	20.16
rs78799167	Margaroylcar nitine (C17) levels	GCST90199929	4	153203337	A	G	8112	-0.51	0.11	0.00	0.00	19.74
rs62352338	Margaroylcar nitine (C17) levels	GCST90199929	4	164677630	C	A	8112	-0.10	0.02	0.00	0.00	19.67
rs75634271	Margaroylcar nitine (C17) levels	GCST90199929	5	1514522	A	G	8112	-0.09	0.02	0.00	0.00	21.09
rs12657086	Margaroylcar nitine (C17) levels	GCST90199929	5	34551428	G	A	8112	-0.08	0.02	0.00	0.00	20.29
rs200838	Margaroylcar nitine (C17) levels	GCST90199929	5	132374707	C	A	8112	0.10	0.02	0.00	0.01	43.43
rs55916578 2	Margaroylcar nitine (C17) levels	GCST90199929	5	158026335	G	A	8112	-0.29	0.06	0.00	0.00	20.92
rs2252470	Margaroylcar nitine (C17) levels	GCST90199929	6	15641190	C	T	8112	0.09	0.02	0.00	0.00	21.47
rs12210538	Margaroylcar nitine (C17) levels	GCST90199929	6	110438805	G	A	8112	-0.12	0.02	0.00	0.01	45.05
rs2738100	Margaroylcar nitine (C17) levels	GCST90199929	8	6936059	G	A	8112	-0.07	0.02	0.00	0.00	19.60
rs56327490	Margaroylcar nitine (C17) levels	GCST90199929	8	12941020	C	T	8112	-0.07	0.02	0.00	0.00	19.99
rs838503	Margaroylcar nitine (C17) levels	GCST90199929	12	124676090	A	C	8112	0.09	0.02	0.00	0.00	23.05
rs7143692	Margaroylcar nitine (C17) levels	GCST90199929	14	77232936	G	A	8112	0.09	0.02	0.00	0.00	21.77

rs72546368	Margaroylcar nitine (C17) levels	GCST90199929	15	25250881	G	A	8112	-0.32	0.07	0.00	0.00	20.70
rs547641209	Margaroylcar nitine (C17) levels	GCST90199929	15	98592634	T	C	8112	-0.43	0.10	0.00	0.00	20.04
rs114391979	Margaroylcar nitine (C17) levels	GCST90199929	16	1442376	A	G	8112	0.26	0.06	0.00	0.00	21.38
rs6422428	Margaroylcar nitine (C17) levels	GCST90199929	19	8161145	C	T	8112	0.18	0.04	0.00	0.00	20.71
rs6512135	Margaroylcar nitine (C17) levels	GCST90199929	19	16789368	T	C	8112	-0.12	0.03	0.00	0.00	21.18
rs7251215	Margaroylcar nitine (C17) levels	GCST90199929	19	33916842	G	A	8112	-0.08	0.02	0.00	0.00	21.15
rs4802723	Margaroylcar nitine (C17) levels	GCST90199929	19	50669529	G	A	8112	-0.08	0.02	0.00	0.00	19.53
rs6672063	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	1	212652337	G	A	7787	0.32	0.07	0.00	0.00	19.62
rs10172303	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	2	72093193	G	C	7787	0.08	0.02	0.00	0.00	19.75
rs73016144	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	3	1997061	A	G	7787	-0.13	0.03	0.00	0.00	20.67
rs112845131	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	3	144385482	T	A	7787	0.35	0.07	0.00	0.00	25.52
rs151090853	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	4	186986813	A	G	7787	0.40	0.09	0.00	0.00	20.15
rs7727038	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	5	132254564	T	C	7787	-0.09	0.02	0.00	0.00	29.93
rs72853756	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	6	38948996	T	C	7787	-0.19	0.04	0.00	0.00	21.90
rs3735386	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	7	36616429	C	G	7787	0.12	0.02	0.00	0.00	23.32
rs62493411	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	7	157302698	G	A	7787	-0.08	0.02	0.00	0.00	21.29
rs7465605	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	8	1323453	G	A	7787	0.38	0.08	0.00	0.00	20.68
rs11145055	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	9	76778170	A	G	7787	-0.29	0.06	0.00	0.00	24.03
rs1171617	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	10	59707424	T	G	7787	0.12	0.02	0.00	0.00	38.45
rs187869166	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	11	10594929	T	A	7787	-0.13	0.03	0.00	0.00	19.87
rs7985978	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	13	19944274	C	A	7787	-0.14	0.03	0.00	0.00	21.09
rs79911460	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	14	37280945	G	A	7787	-0.17	0.04	0.00	0.00	19.83
rs79461798	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	14	98435156	G	A	7787	0.18	0.04	0.00	0.00	19.67
rs111665457	(R)-3- hydroxybutyr ylcarnitine	GCST90199930	15	38119744	G	T	7787	-0.22	0.05	0.00	0.00	19.64

rs3744351	(R)-3-hydroxybutyrylcarnitine	GCST90199930	17	39105728	C	T	7787	0.07	0.02	0.00	0.00	19.95
rs12606329	(R)-3-hydroxybutyrylcarnitine	GCST90199930	18	59028825	C	T	7787	0.07	0.02	0.00	0.00	20.11
rs68168074	(R)-3-hydroxybutyrylcarnitine	GCST90199930	19	21937531	T	C	7787	-0.12	0.02	0.00	0.00	23.99
rs34555756	(R)-3-hydroxybutyrylcarnitine	GCST90199930	20	62675279	A	G	7787	-0.12	0.02	0.00	0.00	25.06
rs56407592	(R)-3-hydroxybutyrylcarnitine	GCST90199930	21	33951034	A	G	7787	-0.11	0.03	0.00	0.00	19.54
rs17658859	(R)-3-hydroxybutyrylcarnitine	GCST90199930	21	34075806	G	A	7787	0.24	0.05	0.00	0.00	19.64
rs136107	(R)-3-hydroxybutyrylcarnitine	GCST90199930	22	46971572	C	G	7787	0.25	0.05	0.00	0.00	20.81
rs333147	Lanthionine levels	GCST90199931	1	61215199	A	G	7760	-0.13	0.03	0.00	0.00	20.88
rs112915331	Lanthionine levels	GCST90199931	1	106890592	T	A	7760	0.23	0.05	0.00	0.00	19.75
rs772713	Lanthionine levels	GCST90199931	1	215939945	C	A	7760	0.09	0.02	0.00	0.00	20.29
rs116290990	Lanthionine levels	GCST90199931	1	245853141	A	T	7760	-0.38	0.08	0.00	0.00	20.33
rs17552614	Lanthionine levels	GCST90199931	2	4304578	C	A	7760	0.12	0.02	0.00	0.00	21.60
rs1599769	Lanthionine levels	GCST90199931	3	116557468	G	A	7760	-0.11	0.02	0.00	0.00	23.87
rs189891669	Lanthionine levels	GCST90199931	3	164640109	C	A	7760	0.23	0.05	0.00	0.00	23.10
rs4698484	Lanthionine levels	GCST90199931	4	16410399	G	T	7760	-0.08	0.02	0.00	0.00	24.81
rs4958575	Lanthionine levels	GCST90199931	5	152716232	G	C	7760	-0.08	0.02	0.00	0.00	19.83
rs117954000	Lanthionine levels	GCST90199931	6	76031641	A	G	7760	0.29	0.06	0.00	0.00	20.26
rs138331459	Lanthionine levels	GCST90199931	6	146603228	G	A	7760	0.24	0.05	0.00	0.00	20.24
rs6899775	Lanthionine levels	GCST90199931	6	165917972	C	T	7760	0.08	0.02	0.00	0.00	19.65
rs112504830	Lanthionine levels	GCST90199931	7	77696202	A	G	7760	0.33	0.07	0.00	0.00	20.08
rs80165526	Lanthionine levels	GCST90199931	7	112037859	G	A	7760	-0.35	0.08	0.00	0.00	21.04
rs7805747	Lanthionine levels	GCST90199931	7	151710715	A	G	7760	0.08	0.02	0.00	0.00	22.45
rs147338254	Lanthionine levels	GCST90199931	9	135717442	A	G	7760	0.22	0.05	0.00	0.00	21.50
rs72831445	Lanthionine levels	GCST90199931	10	129263544	T	C	7760	-0.26	0.06	0.00	0.00	20.14
rs149485174	Lanthionine levels	GCST90199931	11	21812259	A	G	7760	0.30	0.06	0.00	0.00	20.93
rs2276436	Lanthionine levels	GCST90199931	11	131087549	T	C	7760	-0.09	0.02	0.00	0.00	21.90
rs73041638	Lanthionine levels	GCST90199931	12	5361036	A	G	7760	0.13	0.03	0.00	0.00	19.60
rs117515216	Lanthionine levels	GCST90199931	12	64387848	C	T	7760	0.28	0.06	0.00	0.00	19.94
rs9507503	Lanthionine levels	GCST90199931	13	25349819	G	A	7760	0.12	0.02	0.00	0.00	26.32
rs9511784	Lanthionine levels	GCST90199931	13	25394838	A	G	7760	0.10	0.02	0.00	0.00	23.21
rs11630559	Lanthionine levels	GCST90199931	15	52571210	C	T	7760	0.12	0.03	0.00	0.00	21.41
rs59441435	Lanthionine levels	GCST90199931	16	64160234	A	G	7760	0.13	0.03	0.00	0.00	21.35
rs366089	Lanthionine levels	GCST90199931	17	76334582	C	T	7760	0.09	0.02	0.00	0.00	19.68

rs4614842	Lanthionine levels	GCST90199931	19	52767207	A	G	7760	0.13	0.03	0.00	0.00	20.91
rs118122994	Lanthionine levels	GCST90199931	20	10532165	T	C	7760	-0.35	0.07	0.00	0.00	22.52
rs11577971	Mannonate levels	GCST90199932	1	6542940	T	C	8166	-0.16	0.03	0.00	0.00	20.76
rs80178342	Mannonate levels	GCST90199932	1	55179298	C	T	8166	-0.17	0.04	0.00	0.00	22.07
rs12141660	Mannonate levels	GCST90199932	1	72729877	T	C	8166	-0.08	0.02	0.00	0.00	27.39
rs1260326	Mannonate levels	GCST90199932	2	27508073	C	T	8166	0.21	0.01	0.00	0.02	200.24
rs1921903	Mannonate levels	GCST90199932	2	190787888	T	C	8166	-0.07	0.01	0.00	0.00	19.72
rs4686471	Mannonate levels	GCST90199932	3	188023111	C	T	8166	0.08	0.02	0.00	0.00	27.11
rs113950720	Mannonate levels	GCST90199932	5	9132346	G	A	8166	0.19	0.04	0.00	0.00	20.31
rs12658815	Mannonate levels	GCST90199932	5	130944067	T	G	8166	1.80	0.33	0.00	0.00	29.68
rs74959984	Mannonate levels	GCST90199932	6	98859557	C	T	8166	-0.18	0.04	0.00	0.00	20.09
rs148622151	Mannonate levels	GCST90199932	8	49766782	C	G	8166	-0.23	0.05	0.00	0.00	20.75
rs76645474	Mannonate levels	GCST90199932	8	122642090	C	G	8166	-0.29	0.06	0.00	0.00	21.58
rs3808945	Mannonate levels	GCST90199932	10	71963612	T	C	8166	-0.07	0.02	0.00	0.00	22.24
rs10870254	Mannonate levels	GCST90199932	10	132106887	G	T	8166	-0.28	0.06	0.00	0.00	19.78
rs35646619	Mannonate levels	GCST90199932	11	111425044	G	A	8166	-0.07	0.02	0.00	0.00	22.03
rs544271348	Mannonate levels	GCST90199932	12	119882989	G	T	8166	0.17	0.04	0.00	0.00	20.80
rs77587732	Mannonate levels	GCST90199932	13	111575744	T	C	8166	0.17	0.04	0.00	0.00	23.21
rs118178329	Mannonate levels	GCST90199932	14	97543542	A	G	8166	0.31	0.07	0.00	0.00	19.98
rs34117505	Mannonate levels	GCST90199932	15	42633627	T	C	8166	0.07	0.01	0.00	0.00	20.92
rs34945403	Mannonate levels	GCST90199932	15	58138564	G	A	8166	-0.15	0.03	0.00	0.00	22.71
rs212447	Mannonate levels	GCST90199932	17	34446027	T	C	8166	0.16	0.03	0.00	0.00	20.50
rs73072354	Mannonate levels	GCST90199932	20	6034263	G	A	8166	0.30	0.07	0.00	0.00	19.82
rs138718435	Mannonate levels	GCST90199932	20	47126335	A	C	8166	0.32	0.07	0.00	0.00	20.08
rs78802404	Mannonate levels	GCST90199932	21	41817942	A	T	8166	0.29	0.07	0.00	0.00	19.77
rs141057220	3b-hydroxy-5-cholenoic acid levels	GCST90199933	1	94392007	C	G	6846	-0.29	0.06	0.00	0.00	20.19
rs139269864	3b-hydroxy-5-cholenoic acid levels	GCST90199933	1	102937219	C	T	6846	0.29	0.06	0.00	0.00	21.70
rs140169462	3b-hydroxy-5-cholenoic acid levels	GCST90199933	1	224839249	A	G	6846	-0.33	0.07	0.00	0.00	20.82
rs146386881	3b-hydroxy-5-cholenoic acid levels	GCST90199933	2	44856107	G	A	6846	0.33	0.07	0.00	0.00	20.45
rs71418774	3b-hydroxy-5-cholenoic acid levels	GCST90199933	2	75415992	G	A	6846	-0.23	0.05	0.00	0.00	20.33
rs1047891	3b-hydroxy-5-cholenoic acid levels	GCST90199933	2	210675783	A	C	6846	-0.10	0.02	0.00	0.00	27.63
rs9867730	3b-hydroxy-5-cholenoic acid levels	GCST90199933	3	46699809	G	A	6846	-0.09	0.02	0.00	0.00	20.72
rs59391743	3b-hydroxy-5-cholenoic acid levels	GCST90199933	3	71233089	A	G	6846	0.14	0.03	0.00	0.00	20.00

rs415424	3b-hydroxy-5- cholenoic acid levels	GCST90199933	3	191382125	T	C	6846	0.32	0.06	0.00	0.00	25.36
rs75183143	3b-hydroxy-5- cholenoic acid levels	GCST90199933	5	28848097	G	A	6846	0.14	0.03	0.00	0.00	25.70
rs11218593 6	3b-hydroxy-5- cholenoic acid levels	GCST90199933	5	116704500	T	C	6846	0.32	0.07	0.00	0.00	22.14
rs6596847	3b-hydroxy-5- cholenoic acid levels	GCST90199933	6	1733739	C	G	6846	-0.26	0.06	0.00	0.00	19.63
rs58309968	3b-hydroxy-5- cholenoic acid levels	GCST90199933	6	91684725	G	A	6846	0.19	0.04	0.00	0.00	20.04
rs13903784 0	3b-hydroxy-5- cholenoic acid levels	GCST90199933	6	152953947	A	G	6846	-0.37	0.08	0.00	0.00	21.55
rs66703493	3b-hydroxy-5- cholenoic acid levels	GCST90199933	7	101349782	T	C	6846	-0.08	0.02	0.00	0.00	19.59
rs10269381	3b-hydroxy-5- cholenoic acid levels	GCST90199933	7	117140329	C	T	6846	0.18	0.04	0.00	0.00	20.77
rs71517736	3b-hydroxy-5- cholenoic acid levels	GCST90199933	8	38815666	A	G	6846	-0.18	0.04	0.00	0.00	19.70
rs11996829	3b-hydroxy-5- cholenoic acid levels	GCST90199933	8	58418723	G	T	6846	0.10	0.02	0.00	0.00	29.26
rs56251106	3b-hydroxy-5- cholenoic acid levels	GCST90199933	8	141364204	G	C	6846	-0.11	0.02	0.00	0.00	20.20
rs53371400 4	3b-hydroxy-5- cholenoic acid levels	GCST90199933	10	55070179	T	C	6846	0.52	0.11	0.00	0.00	23.55
rs72854528	3b-hydroxy-5- cholenoic acid levels	GCST90199933	10	128399162	A	G	6846	0.21	0.05	0.00	0.00	20.22
rs1443120	3b-hydroxy-5- cholenoic acid levels	GCST90199933	11	110373504	G	C	6846	-0.14	0.03	0.00	0.00	27.63
rs10880350	3b-hydroxy-5- cholenoic acid levels	GCST90199933	12	42707560	A	C	6846	0.08	0.02	0.00	0.00	20.71
rs11285019 0	3b-hydroxy-5- cholenoic acid levels	GCST90199933	14	51305557	G	C	6846	0.08	0.02	0.00	0.00	20.93
rs10150720	3b-hydroxy-5- cholenoic acid levels	GCST90199933	14	82845599	C	T	6846	-0.09	0.02	0.00	0.00	24.01
rs17725497	3b-hydroxy-5- cholenoic acid levels	GCST90199933	14	91383597	T	A	6846	-0.21	0.04	0.00	0.00	21.97
rs6496346	3b-hydroxy-5- cholenoic acid levels	GCST90199933	15	86595992	A	G	6846	0.08	0.02	0.00	0.00	19.54
rs74964075	3b-hydroxy-5- cholenoic acid levels	GCST90199933	17	41801052	G	A	6846	-0.14	0.03	0.00	0.00	19.62
rs10426201	3b-hydroxy-5- cholenoic acid levels	GCST90199933	19	47881492	A	G	6846	-0.16	0.02	0.00	0.01	50.94
rs4812787	3b-hydroxy-5- cholenoic acid levels	GCST90199933	20	44117096	C	T	6846	0.08	0.02	0.00	0.00	21.18
rs11586867	2- hydroxydecan oate levels	GCST90199934	1	6912333	T	C	8267	0.07	0.02	0.00	0.00	22.16
rs518749	2- hydroxydecan oate levels	GCST90199934	1	33677227	T	C	8267	-0.08	0.02	0.00	0.00	21.76

rs12120031	2-hydroxydecanoate levels	GCST90199934	1	212590012	C	T	8267	0.10	0.02	0.00	0.00	20.69
rs57860335	2-hydroxydecanoate levels	GCST90199934	2	201971560	C	T	8267	0.07	0.02	0.00	0.00	21.79
rs116702646	2-hydroxydecanoate levels	GCST90199934	2	241815120	A	G	8267	-0.36	0.08	0.00	0.00	20.65
rs1466245	2-hydroxydecanoate levels	GCST90199934	3	15921104	C	T	8267	-0.26	0.03	0.00	0.01	58.95
rs9790018	2-hydroxydecanoate levels	GCST90199934	3	153531129	G	A	8267	0.07	0.02	0.00	0.00	20.42
rs245802	2-hydroxydecanoate levels	GCST90199934	5	56438834	G	C	8267	-0.07	0.02	0.00	0.00	19.60
rs17515793	2-hydroxydecanoate levels	GCST90199934	5	153507700	T	C	8267	0.07	0.02	0.00	0.00	20.17
rs6889988	2-hydroxydecanoate levels	GCST90199934	5	157486703	C	T	8267	-0.13	0.03	0.00	0.00	23.51
rs140592966	2-hydroxydecanoate levels	GCST90199934	6	46220612	A	G	8267	0.46	0.09	0.00	0.00	24.32
rs6912625	2-hydroxydecanoate levels	GCST90199934	6	111073399	C	T	8267	-0.10	0.02	0.00	0.00	32.31
rs73071170	2-hydroxydecanoate levels	GCST90199934	7	17512465	G	T	8267	0.13	0.03	0.00	0.00	21.14
rs4727118	2-hydroxydecanoate levels	GCST90199934	7	86264226	T	C	8267	-0.07	0.02	0.00	0.00	21.99
rs75451527	2-hydroxydecanoate levels	GCST90199934	7	124468859	A	G	8267	-0.22	0.05	0.00	0.00	20.18
rs77035933	2-hydroxydecanoate levels	GCST90199934	8	64252197	A	G	8267	0.30	0.06	0.00	0.00	23.50
rs2779500	2-hydroxydecanoate levels	GCST90199934	9	14846038	G	C	8267	-0.07	0.02	0.00	0.00	19.97
rs9534967	2-hydroxydecanoate levels	GCST90199934	13	48151016	A	G	8267	-0.08	0.02	0.00	0.00	24.18
rs149328022	2-hydroxydecanoate levels	GCST90199934	17	9866811	C	T	8267	0.22	0.05	0.00	0.00	19.88
rs147852900	2-hydroxydecanoate levels	GCST90199934	20	1074006	T	C	8267	0.18	0.04	0.00	0.00	21.96
rs2250582	Glycohyocholate levels	GCST90199935	1	6017926	C	T	7095	0.07	0.02	0.00	0.00	20.67
rs11590130	Glycohyocholate levels	GCST90199935	1	105138954	T	A	7095	0.08	0.02	0.00	0.00	20.21
rs80129176	Glycohyocholate levels	GCST90199935	5	128198913	A	C	7095	0.30	0.06	0.00	0.00	22.44
rs6913415	Glycohyocholate levels	GCST90199935	6	99023526	T	C	7095	0.08	0.02	0.00	0.00	20.66
rs62471957	Glycohyocholate levels	GCST90199935	7	99842482	G	A	7095	-0.20	0.04	0.00	0.00	26.20
rs62510166	Glycohyocholate levels	GCST90199935	8	60311234	T	C	7095	0.32	0.07	0.00	0.00	20.36
rs74377562	Glycohyocholate levels	GCST90199935	9	32362116	G	A	7095	0.36	0.07	0.00	0.00	25.88
rs3802548	Glycohyocholate levels	GCST90199935	10	45457297	A	T	7095	-0.11	0.02	0.00	0.00	31.90
rs79430699	Glycohyocholate levels	GCST90199935	11	92532803	A	G	7095	0.20	0.04	0.00	0.00	20.32
rs495360	Glycohyocholate levels	GCST90199935	12	218255	A	C	7095	-0.09	0.02	0.00	0.00	27.15

rs1034711	Glycohyocholate levels	GCST90199935	12	120280990	T	G	7095	0.08	0.02	0.00	0.00	21.97
rs55971546	Glycohyocholate levels	GCST90199935	13	103065958	T	C	7095	0.23	0.04	0.00	0.01	37.18
rs144846334	Glycohyocholate levels	GCST90199935	13	103085397	A	G	7095	-0.41	0.08	0.00	0.00	27.62
rs144012054	Glycohyocholate levels	GCST90199935	15	31728342	A	G	7095	0.43	0.09	0.00	0.00	22.42
rs3110095	Glycohyocholate levels	GCST90199935	17	30331992	T	C	7095	0.11	0.02	0.00	0.01	43.52
rs12455551	Glycohyocholate levels	GCST90199935	18	30709669	T	C	7095	0.08	0.02	0.00	0.00	19.98
rs281377	Glycohyocholate levels	GCST90199935	19	48703346	T	C	7095	0.08	0.02	0.00	0.00	24.40
rs6135632	Glycohyocholate levels	GCST90199935	20	16004385	T	C	7095	0.21	0.05	0.00	0.00	20.61
rs11240329	catechol sulfate (2) levels	GCST90199936	1	204990147	T	C	6320	0.17	0.04	0.00	0.00	19.52
rs13406778	catechol sulfate (2) levels	GCST90199936	2	156214143	C	T	6320	-0.20	0.04	0.00	0.00	21.16
rs111282759	catechol sulfate (2) levels	GCST90199936	2	239077306	A	G	6320	-0.30	0.07	0.00	0.00	20.83
rs149897508	catechol sulfate (2) levels	GCST90199936	3	3113013	T	C	6320	-0.26	0.06	0.00	0.00	19.52
rs4698031	catechol sulfate (2) levels	GCST90199936	4	10314297	G	A	6320	-0.09	0.02	0.00	0.00	19.56
rs75166338	catechol sulfate (2) levels	GCST90199936	4	125085932	G	A	6320	-0.40	0.09	0.00	0.00	21.65
rs3935026	catechol sulfate (2) levels	GCST90199936	4	183432920	A	G	6320	-0.37	0.08	0.00	0.00	19.68
rs144745734	catechol sulfate (2) levels	GCST90199936	5	148559962	G	C	6320	0.38	0.08	0.00	0.00	24.72
rs117503393	catechol sulfate (2) levels	GCST90199936	6	82696524	A	G	6320	-0.17	0.04	0.00	0.00	19.63
rs9363215	catechol sulfate (2) levels	GCST90199936	6	94506777	T	C	6320	0.11	0.02	0.00	0.00	21.15
rs186372130	catechol sulfate (2) levels	GCST90199936	6	132769262	G	A	6320	0.39	0.08	0.00	0.00	21.78
rs1317171	catechol sulfate (2) levels	GCST90199936	6	149042290	A	C	6320	0.08	0.02	0.00	0.00	21.26
rs143561190	catechol sulfate (2) levels	GCST90199936	7	95712838	T	C	6320	0.30	0.06	0.00	0.00	22.14
rs76451791	catechol sulfate (2) levels	GCST90199936	8	137564841	C	T	6320	-0.27	0.06	0.00	0.00	19.68

rs62549016	3-methyl catechol sulfate (2) levels	GCST90199936	9	11854878	C	A	6320	0.12	0.02	0.00	0.00	22.76
rs2492651	3-methyl catechol sulfate (2) levels	GCST90199936	10	132304496	T	C	6320	-0.10	0.02	0.00	0.00	21.80
rs183486150	3-methyl catechol sulfate (2) levels	GCST90199936	11	49617851	T	C	6320	-0.33	0.07	0.00	0.00	20.14
rs138694315	3-methyl catechol sulfate (2) levels	GCST90199936	11	68224292	G	A	6320	-0.27	0.06	0.00	0.00	21.29
rs592458	3-methyl catechol sulfate (2) levels	GCST90199936	11	122562359	T	C	6320	-0.17	0.04	0.00	0.00	19.67
rs77763039	3-methyl catechol sulfate (2) levels	GCST90199936	12	114014141	G	A	6320	-0.23	0.05	0.00	0.00	24.01
rs74457160	3-methyl catechol sulfate (2) levels	GCST90199936	14	74226321	T	G	6320	0.17	0.04	0.00	0.00	19.67
rs35107470	3-methyl catechol sulfate (2) levels	GCST90199936	15	74525348	G	A	6320	0.09	0.02	0.00	0.00	23.79
rs4321166	3-methyl catechol sulfate (2) levels	GCST90199936	15	83875862	T	A	6320	0.08	0.02	0.00	0.00	20.77
rs35855834	3-methyl catechol sulfate (2) levels	GCST90199936	15	100155879	T	C	6320	-0.19	0.04	0.00	0.00	19.82
rs12940181	3-methyl catechol sulfate (2) levels	GCST90199936	17	35429981	A	T	6320	0.12	0.03	0.00	0.00	23.92
rs623264	3-methyl catechol sulfate (2) levels	GCST90199936	19	5473109	G	A	6320	-0.09	0.02	0.00	0.00	19.61
rs9607073	3-methyl catechol sulfate (2) levels	GCST90199936	22	33698672	T	G	6320	-0.64	0.14	0.00	0.00	21.67
rs12135503	2- aminooctanoat e levels	GCST90199937	1	52700285	G	A	8178	-0.18	0.04	0.00	0.00	19.52
rs72788921	2- aminooctanoat e levels	GCST90199937	2	20384035	G	A	8178	0.21	0.05	0.00	0.00	20.24
rs1543136	2- aminooctanoat e levels	GCST90199937	2	51806897	A	C	8178	-0.10	0.02	0.00	0.00	19.61
rs7609407	2- aminooctanoat e levels	GCST90199937	2	73273000	G	A	8178	0.12	0.02	0.00	0.00	29.36
rs10201159	2- aminooctanoat e levels	GCST90199937	2	73631838	C	T	8178	-0.54	0.02	0.00	0.10	944.13
rs72844424	2- aminooctanoat e levels	GCST90199937	2	85504829	A	C	8178	-0.14	0.03	0.00	0.00	23.96
rs2952620	2- aminooctanoat e levels	GCST90199937	2	129207578	C	T	8178	0.23	0.05	0.00	0.00	21.47

rs191949663	2-aminooctanoate levels	GCST90199937	2	233799747	C	A	8178	-0.39	0.09	0.00	0.00	19.72
rs2470528	2-aminooctanoate levels	GCST90199937	3	15643959	G	T	8178	0.20	0.03	0.00	0.00	32.34
rs111393264	2-aminooctanoate levels	GCST90199937	3	57307396	G	A	8178	0.15	0.03	0.00	0.00	19.73
rs1813006	2-aminooctanoate levels	GCST90199937	4	102080492	T	G	8178	-0.15	0.03	0.00	0.00	21.20
rs16903790	2-aminooctanoate levels	GCST90199937	5	37919699	C	G	8178	0.10	0.02	0.00	0.00	23.66
rs1185568	2-aminooctanoate levels	GCST90199937	6	25834200	A	T	8178	-0.11	0.02	0.00	0.01	51.95
rs62483042	2-aminooctanoate levels	GCST90199937	7	101289232	G	A	8178	-0.22	0.05	0.00	0.00	20.52
rs7807703	2-aminooctanoate levels	GCST90199937	7	158434833	T	A	8178	-0.21	0.05	0.00	0.00	19.55
rs17124098	2-aminooctanoate levels	GCST90199937	8	17104199	C	T	8178	-0.10	0.02	0.00	0.00	20.87
rs78712512	2-aminooctanoate levels	GCST90199937	9	135036666	C	T	8178	-0.48	0.11	0.00	0.00	19.77
rs7907840	2-aminooctanoate levels	GCST90199937	10	57690357	C	A	8178	0.11	0.02	0.00	0.00	22.74
rs118133637	2-aminooctanoate levels	GCST90199937	10	81982337	G	A	8178	0.31	0.07	0.00	0.00	19.63
rs7953451	2-aminooctanoate levels	GCST90199937	12	21624555	G	C	8178	1.08	0.24	0.00	0.00	20.25
rs4337087	2-aminooctanoate levels	GCST90199937	12	21649831	T	C	8178	1.04	0.23	0.00	0.00	19.96
rs117802731	2-aminooctanoate levels	GCST90199937	13	29352859	A	C	8178	-0.21	0.05	0.00	0.00	21.49
rs390132	2-aminooctanoate levels	GCST90199937	14	60143046	C	T	8178	0.12	0.02	0.00	0.00	30.58
rs76443138	2-aminooctanoate levels	GCST90199937	14	63997507	G	A	8178	-0.24	0.05	0.00	0.00	20.98
rs71425370	2-aminooctanoate levels	GCST90199937	14	68613701	A	G	8178	-0.09	0.02	0.00	0.00	22.09
rs34672471	2-aminooctanoate levels	GCST90199937	15	33879117	T	G	8178	0.30	0.07	0.00	0.00	20.57
rs78185702	2-aminooctanoate levels	GCST90199937	15	76317894	T	C	8178	-0.13	0.03	0.00	0.00	22.00
rs145105816	2-aminooctanoate levels	GCST90199937	16	74978156	A	C	8178	-0.35	0.07	0.00	0.00	24.09
rs58899615	2-aminooctanoate levels	GCST90199937	17	16981399	G	A	8178	-0.46	0.10	0.00	0.00	20.42
rs12449852	2-aminooctanoate levels	GCST90199937	17	39475835	G	A	8178	-0.10	0.02	0.00	0.00	23.95
rs2885689	3-methylcatechol sulfate (1) levels	GCST90199938	1	60688397	G	C	8233	-0.12	0.03	0.00	0.00	20.08

rs12071581	3-methyl catechol sulfate (1) levels	GCST90199938	1	67767951	A	G	8233	0.14	0.03	0.00	0.00	19.99
rs147624308	3-methyl catechol sulfate (1) levels	GCST90199938	1	214775193	T	C	8233	-0.37	0.08	0.00	0.00	19.74
rs116434918	3-methyl catechol sulfate (1) levels	GCST90199938	1	243168382	C	T	8233	-0.18	0.04	0.00	0.00	21.29
rs145990878	3-methyl catechol sulfate (1) levels	GCST90199938	2	49416739	A	C	8233	-0.60	0.13	0.00	0.00	21.60
rs17008088	3-methyl catechol sulfate (1) levels	GCST90199938	3	70966628	T	C	8233	0.22	0.05	0.00	0.00	19.76
rs10031457	3-methyl catechol sulfate (1) levels	GCST90199938	4	40552397	G	C	8233	-0.17	0.04	0.00	0.00	19.62
rs140766381	3-methyl catechol sulfate (1) levels	GCST90199938	4	115334586	G	A	8233	-0.40	0.08	0.00	0.00	24.27
rs149666719	3-methyl catechol sulfate (1) levels	GCST90199938	5	116023091	C	A	8233	-0.87	0.19	0.00	0.00	20.92
rs17209421	3-methyl catechol sulfate (1) levels	GCST90199938	6	43493460	T	C	8233	-0.16	0.04	0.00	0.00	19.92
rs73073176	3-methyl catechol sulfate (1) levels	GCST90199938	7	17523328	T	C	8233	-0.10	0.02	0.00	0.00	19.63
rs4148714	3-methyl catechol sulfate (1) levels	GCST90199938	7	117598399	C	A	8233	-0.12	0.03	0.00	0.00	20.75
rs112523280	3-methyl catechol sulfate (1) levels	GCST90199938	8	3646673	G	A	8233	-0.22	0.05	0.00	0.00	20.26
rs7824658	3-methyl catechol sulfate (1) levels	GCST90199938	8	58297617	G	C	8233	-0.07	0.02	0.00	0.00	19.70
rs35256800	3-methyl catechol sulfate (1) levels	GCST90199938	9	7089092	G	A	8233	0.09	0.02	0.00	0.00	19.52
rs146378793	3-methyl catechol sulfate (1) levels	GCST90199938	9	23254016	T	C	8233	-0.32	0.07	0.00	0.00	20.58
rs4878104	3-methyl catechol sulfate (1) levels	GCST90199938	9	87578076	T	C	8233	0.08	0.02	0.00	0.00	20.77
rs9409510	3-methyl catechol sulfate (1) levels	GCST90199938	9	94298852	A	G	8233	0.08	0.02	0.00	0.00	24.51
rs61879026	3-methyl catechol sulfate (1) levels	GCST90199938	11	44478821	G	C	8233	-0.22	0.05	0.00	0.00	19.81

rs11696514 6	3-methyl catechol sulfate (1) levels	GCST90199938	11	118158673	A	T	8233	-0.72	0.16	0.00	0.00	19.90
rs14542724 3	3-methyl catechol sulfate (1) levels	GCST90199938	14	35436799	T	C	8233	-0.30	0.07	0.00	0.00	20.47
rs11552004 4	3-methyl catechol sulfate (1) levels	GCST90199938	14	49488289	A	G	8233	0.28	0.06	0.00	0.00	21.09
rs1381273	3-methyl catechol sulfate (1) levels	GCST90199938	14	98182723	T	C	8233	0.08	0.02	0.00	0.00	26.47
rs2472297	3-methyl catechol sulfate (1) levels	GCST90199938	15	74735539	T	C	8233	0.09	0.02	0.00	0.00	28.50
rs11149513 9	3-methyl catechol sulfate (1) levels	GCST90199938	15	78936890	G	A	8233	0.13	0.03	0.00	0.00	22.29
rs7497971	3-methyl catechol sulfate (1) levels	GCST90199938	15	91685871	A	G	8233	-0.07	0.02	0.00	0.00	19.69
rs11706537 5	3-methyl catechol sulfate (1) levels	GCST90199938	20	55755250	T	A	8233	-0.29	0.06	0.00	0.00	20.01
rs14494359 5	3-methyl catechol sulfate (1) levels	GCST90199938	22	30414967	G	A	8233	-0.20	0.04	0.00	0.00	20.15
rs356349	4- methylcatechol sulfate levels	GCST90199939	1	91005484	G	A	8229	0.08	0.02	0.00	0.00	22.83
rs4652774	4- methylcatechol sulfate levels	GCST90199939	1	183091683	G	A	8229	-0.18	0.04	0.00	0.00	22.81
rs9677974	4- methylcatechol sulfate levels	GCST90199939	2	86296487	G	A	8229	-0.10	0.02	0.00	0.00	20.39
rs77076543	4- methylcatechol sulfate levels	GCST90199939	2	184905019	G	T	8229	0.26	0.06	0.00	0.00	19.82
rs6706384	4- methylcatechol sulfate levels	GCST90199939	2	233398336	T	G	8229	-0.08	0.02	0.00	0.00	25.68
rs7375985	4- methylcatechol sulfate levels	GCST90199939	4	145368623	C	T	8229	0.07	0.02	0.00	0.00	20.29
rs10079318	4- methylcatechol sulfate levels	GCST90199939	5	147434869	A	G	8229	0.07	0.02	0.00	0.00	19.53
rs6939135	4- methylcatechol sulfate levels	GCST90199939	6	14351196	C	T	8229	0.08	0.02	0.00	0.00	28.62
rs60045856	4- methylcatechol sulfate levels	GCST90199939	6	32832068	G	T	8229	0.12	0.02	0.00	0.00	23.31
rs1996912	4- methylcatechol sulfate levels	GCST90199939	6	35011564	T	C	8229	-0.07	0.02	0.00	0.00	20.84
rs72976570	4- methylcatechol sulfate levels	GCST90199939	6	123426334	A	G	8229	0.19	0.04	0.00	0.00	24.74
rs1859800	4- methylcatechol sulfate levels	GCST90199939	7	22101002	T	C	8229	-0.07	0.02	0.00	0.00	20.82

rs140497507	4-methylcatechol sulfate levels	GCST90199939	7	41374443	A	G	8229	-0.36	0.07	0.00	0.00	23.94
rs2362301	4-methylcatechol sulfate levels	GCST90199939	7	48421039	C	T	8229	0.10	0.02	0.00	0.00	19.96
rs147204649	4-methylcatechol sulfate levels	GCST90199939	7	68028807	T	C	8229	-0.37	0.08	0.00	0.00	23.94
rs10235902	4-methylcatechol sulfate levels	GCST90199939	7	124392340	A	G	8229	0.09	0.02	0.00	0.00	22.53
rs117849863	4-methylcatechol sulfate levels	GCST90199939	9	135740509	C	G	8229	0.35	0.07	0.00	0.00	26.87
rs56147715	4-methylcatechol sulfate levels	GCST90199939	13	45921958	G	A	8229	0.26	0.06	0.00	0.00	21.28
rs4800204	4-methylcatechol sulfate levels	GCST90199939	18	25067306	T	C	8229	-0.08	0.02	0.00	0.00	26.71
rs117651224	4-methylcatechol sulfate levels	GCST90199939	18	52059791	C	T	8229	-0.12	0.03	0.00	0.00	20.24
rs1965724	4-methylcatechol sulfate levels	GCST90199939	19	53299089	A	G	8229	-0.09	0.02	0.00	0.00	22.81
rs117843098	4-methylcatechol sulfate levels	GCST90199939	20	51479053	A	G	8229	-0.21	0.05	0.00	0.00	19.90
rs113951858	Guaiacol sulfate levels	GCST90199940	1	9387821	A	G	8262	-0.11	0.02	0.00	0.00	22.67
rs116229131	Guaiacol sulfate levels	GCST90199940	1	244885364	C	T	8262	0.21	0.05	0.00	0.00	21.04
rs144089325	Guaiacol sulfate levels	GCST90199940	2	49712188	T	C	8262	0.22	0.05	0.00	0.00	20.02
rs76957034	Guaiacol sulfate levels	GCST90199940	3	134366177	G	T	8262	0.18	0.04	0.00	0.00	19.64
rs146242440	Guaiacol sulfate levels	GCST90199940	3	159265453	T	A	8262	0.37	0.08	0.00	0.00	20.13
rs11915854	Guaiacol sulfate levels	GCST90199940	3	195081925	T	C	8262	-0.16	0.04	0.00	0.00	19.84
rs9291289	Guaiacol sulfate levels	GCST90199940	4	46683446	G	A	8262	0.07	0.02	0.00	0.00	20.26
rs77561631	Guaiacol sulfate levels	GCST90199940	5	15891872	A	G	8262	-0.17	0.04	0.00	0.00	21.56
rs72745623	Guaiacol sulfate levels	GCST90199940	5	39743852	G	A	8262	-0.08	0.02	0.00	0.00	23.10
rs74689782	Guaiacol sulfate levels	GCST90199940	6	30883824	A	G	8262	-0.23	0.05	0.00	0.00	23.66
rs9471987	Guaiacol sulfate levels	GCST90199940	6	42976402	G	A	8262	0.07	0.02	0.00	0.00	21.62
rs118087581	Guaiacol sulfate levels	GCST90199940	6	147982071	G	A	8262	0.30	0.06	0.00	0.00	24.17
rs4410790	Guaiacol sulfate levels	GCST90199940	7	17244953	C	T	8262	0.08	0.02	0.00	0.00	23.82
rs7795670	Guaiacol sulfate levels	GCST90199940	7	156462105	C	T	8262	-0.09	0.02	0.00	0.00	22.48
rs113787014	Guaiacol sulfate levels	GCST90199940	8	29997641	T	C	8262	-0.24	0.05	0.00	0.00	19.81
rs17660862	Guaiacol sulfate levels	GCST90199940	8	86119186	T	C	8262	-0.14	0.03	0.00	0.00	20.26
rs11790497	Guaiacol sulfate levels	GCST90199940	9	94277467	T	C	8262	-0.08	0.02	0.00	0.00	20.07
rs4746567	Guaiacol sulfate levels	GCST90199940	10	66254821	A	G	8262	0.07	0.02	0.00	0.00	20.29
rs77001736	Guaiacol sulfate levels	GCST90199940	11	76656763	C	G	8262	0.30	0.06	0.00	0.00	20.85
rs11181824	Guaiacol sulfate levels	GCST90199940	12	42974405	C	G	8262	-0.07	0.02	0.00	0.00	20.13
rs147037696	Guaiacol sulfate levels	GCST90199940	12	72233750	A	G	8262	0.33	0.07	0.00	0.00	21.40
rs2472297	Guaiacol sulfate levels	GCST90199940	15	74735539	T	C	8262	0.09	0.02	0.00	0.00	23.75

rs56134773	Guaiacol sulfate levels	GCST90199940	17	762364	T	C	8262	-0.13	0.03	0.00	0.00	24.05
rs143550070	Guaiacol sulfate levels	GCST90199940	21	16457169	G	T	8262	-0.34	0.07	0.00	0.00	26.99
rs2245730	Guaiacol sulfate levels	GCST90199940	21	42705218	C	A	8262	-0.07	0.02	0.00	0.00	20.58
rs77953314	Gamma-CEHC glucuronide levels	GCST90199941	1	18728572	T	C	6305	-0.42	0.09	0.00	0.00	20.03
rs114740154	Gamma-CEHC glucuronide levels	GCST90199941	1	80963757	C	T	6305	0.34	0.08	0.00	0.00	20.04
rs1410138	Gamma-CEHC glucuronide levels	GCST90199941	1	230620751	C	T	6305	0.24	0.05	0.00	0.00	20.33
rs7557149	Gamma-CEHC glucuronide levels	GCST90199941	2	24468743	A	C	6305	-0.09	0.02	0.00	0.00	20.26
rs6743461	Gamma-CEHC glucuronide levels	GCST90199941	2	167463948	G	A	6305	0.20	0.04	0.00	0.00	19.72
rs142129442	Gamma-CEHC glucuronide levels	GCST90199941	3	103476103	G	T	6305	0.64	0.14	0.00	0.00	21.19
rs76034008	Gamma-CEHC glucuronide levels	GCST90199941	3	184239100	A	G	6305	0.19	0.04	0.00	0.00	22.46
rs62310829	Gamma-CEHC glucuronide levels	GCST90199941	4	39431814	A	G	6305	-0.13	0.03	0.00	0.00	19.59
rs114985850	Gamma-CEHC glucuronide levels	GCST90199941	5	34556918	T	C	6305	0.26	0.06	0.00	0.00	21.51
rs111827966	Gamma-CEHC glucuronide levels	GCST90199941	5	52394630	G	A	6305	0.35	0.08	0.00	0.00	20.40
rs11738442	Gamma-CEHC glucuronide levels	GCST90199941	5	81886094	T	C	6305	0.10	0.02	0.00	0.00	20.26
rs56138650	Gamma-CEHC glucuronide levels	GCST90199941	5	92714527	A	G	6305	0.14	0.03	0.00	0.00	22.89
rs10950370	Gamma-CEHC glucuronide levels	GCST90199941	7	11870770	A	G	6305	0.12	0.03	0.00	0.00	21.02
rs111415083	Gamma-CEHC glucuronide levels	GCST90199941	8	57082566	T	C	6305	-0.38	0.08	0.00	0.00	23.27
rs139889345	Gamma-CEHC glucuronide levels	GCST90199941	8	93916601	A	G	6305	-0.22	0.05	0.00	0.00	19.79
rs62521201	Gamma-CEHC glucuronide levels	GCST90199941	8	117535365	T	G	6305	0.33	0.07	0.00	0.00	21.31
rs80034475	Gamma-CEHC glucuronide levels	GCST90199941	9	113303041	C	T	6305	-0.21	0.05	0.00	0.00	20.27

rs2863721	Gamma-CEHC glucuronide levels	GCST90199941	11	46213918	C	T	6305	0.12	0.03	0.00	0.00	22.26
rs10846499	Gamma-CEHC glucuronide levels	GCST90199941	12	123278838	G	A	6305	0.17	0.04	0.00	0.00	20.85
rs149153109	Gamma-CEHC glucuronide levels	GCST90199941	13	57453608	G	A	6305	0.35	0.08	0.00	0.00	19.55
rs9603907	Gamma-CEHC glucuronide levels	GCST90199941	13	112551338	T	A	6305	0.89	0.20	0.00	0.00	19.95
rs4981693	Gamma-CEHC glucuronide levels	GCST90199941	14	29211125	A	G	6305	0.09	0.02	0.00	0.00	20.59
rs7159454	Gamma-CEHC glucuronide levels	GCST90199941	14	51961068	C	G	6305	0.26	0.06	0.00	0.00	20.81
rs72689117	Gamma-CEHC glucuronide levels	GCST90199941	14	85297097	A	G	6305	0.19	0.04	0.00	0.00	24.92
rs72870277	Gamma-CEHC glucuronide levels	GCST90199941	18	6533170	T	C	6305	0.22	0.05	0.00	0.00	21.90
rs8092090	Gamma-CEHC glucuronide levels	GCST90199941	18	22035737	G	A	6305	-0.18	0.04	0.00	0.00	21.18
rs12457824	Gamma-CEHC glucuronide levels	GCST90199941	18	43672448	G	A	6305	0.08	0.02	0.00	0.00	22.31
rs2108622	Gamma-CEHC glucuronide levels	GCST90199941	19	15879621	T	C	6305	-0.21	0.02	0.00	0.02	116.02
rs185063201	Gamma-CEHC glucuronide levels	GCST90199941	19	43499979	T	C	6305	0.35	0.07	0.00	0.00	21.86
rs1010232	Gamma-CEHC glucuronide levels	GCST90199941	19	56823212	C	A	6305	-0.08	0.02	0.00	0.00	20.37
rs1859	Gamma-CEHC glucuronide levels	GCST90199941	22	21701051	T	C	6305	-0.30	0.07	0.00	0.00	20.69
rs79658408	Dimethyl sulfone levels	GCST90199942	2	6477966	A	G	7905	-0.14	0.03	0.00	0.00	21.49
rs62187416	Dimethyl sulfone levels	GCST90199942	2	234898454	A	G	7905	-0.15	0.03	0.00	0.00	23.07
rs545416469	Dimethyl sulfone levels	GCST90199942	3	125713401	T	C	7905	0.22	0.04	0.00	0.00	31.10
rs79468174	Dimethyl sulfone levels	GCST90199942	4	151317100	G	A	7905	0.32	0.07	0.00	0.00	19.66
rs2071248	Dimethyl sulfone levels	GCST90199942	5	178982855	T	C	7905	-0.07	0.02	0.00	0.00	20.04
rs78795734	Dimethyl sulfone levels	GCST90199942	6	434787	T	C	7905	-0.28	0.06	0.00	0.00	20.73
rs35638983	Dimethyl sulfone levels	GCST90199942	6	164015772	T	C	7905	-0.18	0.04	0.00	0.00	20.39
rs2293758	Dimethyl sulfone levels	GCST90199942	7	74216076	A	G	7905	0.16	0.03	0.00	0.00	19.99
rs17116514	Dimethyl sulfone levels	GCST90199942	8	18058466	G	C	7905	-0.45	0.10	0.00	0.00	22.05

rs2802492	Dimethyl sulfone levels	GCST90199942	10	44056794	G	A	7905	0.08	0.02	0.00	0.00	20.91
rs11002577	Dimethyl sulfone levels	GCST90199942	10	78486386	T	C	7905	0.08	0.02	0.00	0.00	23.96
rs7906388	Dimethyl sulfone levels	GCST90199942	10	131990975	T	A	7905	0.09	0.02	0.00	0.00	19.82
rs149020891	Dimethyl sulfone levels	GCST90199942	11	4762919	T	G	7905	-0.31	0.07	0.00	0.00	21.96
rs79603699	Dimethyl sulfone levels	GCST90199942	11	79887756	G	A	7905	0.38	0.06	0.00	0.00	36.11
rs74459597	Dimethyl sulfone levels	GCST90199942	13	73221683	A	G	7905	0.30	0.06	0.00	0.00	21.16
rs79400061	Dimethyl sulfone levels	GCST90199942	14	62612402	C	T	7905	0.21	0.04	0.00	0.00	26.39
rs112604592	Dimethyl sulfone levels	GCST90199942	15	53888479	A	T	7905	0.27	0.05	0.00	0.00	24.75
rs146245810	Dimethyl sulfone levels	GCST90199942	16	61570229	T	C	7905	0.46	0.10	0.00	0.00	19.75
rs150086251	Dimethyl sulfone levels	GCST90199942	16	87351769	A	G	7905	0.28	0.06	0.00	0.00	19.94
rs75945806	Dimethyl sulfone levels	GCST90199942	17	39559547	T	G	7905	0.36	0.08	0.00	0.00	20.28
rs78394096	Dimethyl sulfone levels	GCST90199942	18	22137151	G	A	7905	0.37	0.08	0.00	0.00	19.69
rs113972961	Dimethyl sulfone levels	GCST90199942	18	23070562	A	G	7905	0.23	0.05	0.00	0.00	25.31
rs73906946	Dimethyl sulfone levels	GCST90199942	21	44919225	T	C	7905	0.09	0.02	0.00	0.00	20.94
rs61776381	2-piperidinone levels	GCST90199943	1	55628606	G	A	8225	0.14	0.03	0.00	0.00	26.83
rs140988561	2-piperidinone levels	GCST90199943	1	88819213	A	G	8225	0.28	0.06	0.00	0.00	20.06
rs76862422	2-piperidinone levels	GCST90199943	1	216425029	A	G	8225	-0.17	0.04	0.00	0.00	20.55
rs78025799	2-piperidinone levels	GCST90199943	1	244299577	T	G	8225	0.18	0.04	0.00	0.00	22.56
rs17011360	2-piperidinone levels	GCST90199943	3	22428833	G	A	8225	0.16	0.04	0.00	0.00	19.75
rs2685101	2-piperidinone levels	GCST90199943	3	37769314	A	G	8225	-0.07	0.02	0.00	0.00	19.93
rs80106239	2-piperidinone levels	GCST90199943	3	172799745	G	C	8225	0.55	0.12	0.00	0.00	22.12
rs6853829	2-piperidinone levels	GCST90199943	4	87890326	T	C	8225	0.18	0.04	0.00	0.00	20.04
rs150434407	2-piperidinone levels	GCST90199943	4	133904921	C	T	8225	0.47	0.10	0.00	0.00	22.09
rs62438576	2-piperidinone levels	GCST90199943	6	158433471	C	T	8225	0.16	0.03	0.00	0.00	23.80
rs146762234	2-piperidinone levels	GCST90199943	7	50945130	T	C	8225	0.28	0.06	0.00	0.00	21.85
rs799169	2-piperidinone levels	GCST90199943	7	73636269	G	A	8225	-0.07	0.02	0.00	0.00	21.71
rs189531615	2-piperidinone levels	GCST90199943	8	6387033	A	G	8225	0.15	0.03	0.00	0.00	20.75
rs148787320	2-piperidinone levels	GCST90199943	10	73332702	G	A	8225	-0.41	0.08	0.00	0.00	26.71
rs117387940	2-piperidinone levels	GCST90199943	10	120342861	T	A	8225	-0.33	0.07	0.00	0.00	19.62
rs1536826	2-piperidinone levels	GCST90199943	10	133543735	C	A	8225	-0.09	0.02	0.00	0.00	21.67
rs7900208	2-piperidinone levels	GCST90199943	10	133553286	C	T	8225	-0.25	0.05	0.00	0.00	28.77
rs12867616	2-piperidinone levels	GCST90199943	13	37544607	G	C	8225	-0.13	0.03	0.00	0.00	22.37
rs142128137	2-piperidinone levels	GCST90199943	13	97729053	A	G	8225	0.32	0.07	0.00	0.00	23.62
rs117915708	2-piperidinone levels	GCST90199943	14	21554166	T	C	8225	-0.21	0.04	0.00	0.00	21.31
rs55909141	2-piperidinone levels	GCST90199943	15	64661436	A	G	8225	0.15	0.03	0.00	0.00	21.69
rs9963968	2-piperidinone levels	GCST90199943	18	76582229	G	C	8225	-0.08	0.02	0.00	0.00	19.78
rs6668352	Indolin-2-one levels	GCST90199944	1	11854772	A	G	7027	0.09	0.02	0.00	0.00	20.32

rs114105405	Indolin-2-one levels	GCST90199944	2	18406062	A	G	7027	0.39	0.09	0.00	0.00	19.99
rs289868	Indolin-2-one levels	GCST90199944	2	151207418	T	C	7027	-0.08	0.02	0.00	0.00	20.13
rs71424984	Indolin-2-one levels	GCST90199944	2	237636083	A	G	7027	0.21	0.05	0.00	0.00	20.66
rs11706965	Indolin-2-one levels	GCST90199944	3	1743804	A	G	7027	0.10	0.02	0.00	0.00	28.12
rs113018452	Indolin-2-one levels	GCST90199944	3	16276773	G	A	7027	-0.21	0.04	0.00	0.00	23.27
rs34026617	Indolin-2-one levels	GCST90199944	3	187668785	A	C	7027	-0.37	0.08	0.00	0.00	20.34
rs192463293	Indolin-2-one levels	GCST90199944	4	30171846	A	G	7027	0.61	0.14	0.00	0.00	19.60
rs1154458	Indolin-2-one levels	GCST90199944	4	99419365	G	C	7027	-0.08	0.02	0.00	0.00	20.08
rs139184284	Indolin-2-one levels	GCST90199944	5	89763918	T	C	7027	-0.25	0.05	0.00	0.00	22.78
rs73060404	Indolin-2-one levels	GCST90199944	7	15249378	A	G	7027	0.16	0.04	0.00	0.00	21.17
rs7006709	Indolin-2-one levels	GCST90199944	8	1996185	G	A	7027	0.09	0.02	0.00	0.00	20.79
rs145357463	Indolin-2-one levels	GCST90199944	8	63687280	T	A	7027	-0.54	0.11	0.00	0.00	22.26
rs76988307	Indolin-2-one levels	GCST90199944	8	132566786	G	C	7027	0.18	0.04	0.00	0.00	20.81
rs138564752	Indolin-2-one levels	GCST90199944	9	109719689	A	G	7027	-0.27	0.06	0.00	0.00	22.50
rs75379066	Indolin-2-one levels	GCST90199944	10	80591890	A	G	7027	-0.21	0.05	0.00	0.00	21.99
rs61996614	Indolin-2-one levels	GCST90199944	14	72627501	A	G	7027	0.11	0.02	0.00	0.00	21.51
rs114234421	Indolin-2-one levels	GCST90199944	18	78044273	A	G	7027	-0.23	0.05	0.00	0.00	20.60
rs56113850	Indolin-2-one levels	GCST90199944	19	40847202	C	T	7027	-0.17	0.02	0.00	0.01	104.46
rs838137	Indolin-2-one levels	GCST90199944	19	48751316	A	T	7027	0.08	0.02	0.00	0.00	19.97
rs41385949	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	1	75236444	T	C	8254	-0.15	0.03	0.00	0.00	20.51
rs79168525	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	1	243462113	C	T	8254	-0.24	0.05	0.00	0.00	21.52
rs144183452	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	2	234016540	C	G	8254	0.32	0.07	0.00	0.00	21.21
rs6531915	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	4	86318867	G	A	8254	-0.08	0.02	0.00	0.00	21.94
rs13118779	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	4	124545131	G	A	8254	0.13	0.03	0.00	0.00	22.32
rs149284868	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	5	12759134	G	A	8254	0.29	0.07	0.00	0.00	20.00
rs34096070	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	6	86688014	A	G	8254	0.10	0.02	0.00	0.00	20.24
rs9403358	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	6	141938905	T	C	8254	-0.10	0.02	0.00	0.00	21.91
rs145676078	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	6	159002412	G	A	8254	-0.34	0.07	0.00	0.00	22.37

rs11692692	2	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	6	159958678	T	G	8254	0.19	0.04	0.00	0.00	21.76
rs3923373		Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	7	156336	A	T	8254	0.07	0.02	0.00	0.00	21.49
rs2458285		Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	8	102951650	T	C	8254	0.07	0.01	0.00	0.00	22.67
rs16934446		Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	9	16325342	T	C	8254	0.20	0.04	0.00	0.00	20.51
rs11125635	5	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	9	93191980	A	G	8254	-0.25	0.06	0.00	0.00	20.50
rs53129668	1	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	10	42136214	C	G	8254	-2.10	0.42	0.00	0.00	24.74
rs14373343	5	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	10	106022450	A	G	8254	0.21	0.04	0.00	0.00	23.50
rs11024617		Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	11	1383011	A	G	8254	0.08	0.02	0.00	0.00	24.28
rs7937932		Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	11	123827324	A	G	8254	0.07	0.01	0.00	0.00	20.64
rs11493274	0	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	12	124543565	A	G	8254	-0.17	0.03	0.00	0.00	25.79
rs14726122	8	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	13	43900115	G	C	8254	-0.34	0.07	0.00	0.00	23.26
rs7160525		Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	14	63765502	A	G	8254	0.43	0.02	0.00	0.06	491.06
rs4537986		Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	15	26498413	C	T	8254	0.11	0.03	0.00	0.00	20.00
rs12101931		Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	15	93969743	C	A	8254	-0.09	0.02	0.00	0.00	19.61
rs12930954		Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	16	79461861	C	T	8254	0.15	0.03	0.00	0.00	20.87
rs18698577	7	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	17	47515947	C	A	8254	0.19	0.04	0.00	0.00	19.77
rs72908201		Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	17	77837306	T	C	8254	-0.12	0.03	0.00	0.00	19.87
rs9917033		Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	19	43823363	T	G	8254	-0.10	0.02	0.00	0.00	22.72

rs192809124	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	19	54709931	C	G	8254	-0.40	0.08	0.00	0.00	22.43
rs4814175	Sphingomyelin (d18:1/14:0, d16:1/16:0) levels	GCST90199945	20	12978446	T	A	8254	-0.12	0.02	0.00	0.01	60.49
rs4535400	3-acetylphenol sulfate levels	GCST90199946	4	6224476	C	A	6897	-0.24	0.05	0.00	0.00	21.65
rs17324835	3-acetylphenol sulfate levels	GCST90199946	5	68627631	A	G	6897	0.14	0.03	0.00	0.00	21.90
rs774576	3-acetylphenol sulfate levels	GCST90199946	6	113188680	T	A	6897	0.08	0.02	0.00	0.00	20.14
rs186372130	3-acetylphenol sulfate levels	GCST90199946	6	132769262	G	A	6897	0.36	0.08	0.00	0.00	19.55
rs6601542	3-acetylphenol sulfate levels	GCST90199946	8	10975355	G	A	6897	-0.10	0.02	0.00	0.00	28.73
rs143170468	3-acetylphenol sulfate levels	GCST90199946	11	62247158	T	C	6897	0.33	0.07	0.00	0.00	21.71
rs73010098	3-acetylphenol sulfate levels	GCST90199946	11	110298163	G	A	6897	-0.16	0.03	0.00	0.00	21.43
rs79237038	3-acetylphenol sulfate levels	GCST90199946	12	787759	T	C	6897	-0.19	0.04	0.00	0.00	19.72
rs140230552	3-acetylphenol sulfate levels	GCST90199946	12	100375417	T	C	6897	0.34	0.07	0.00	0.00	21.73
rs117576466	3-acetylphenol sulfate levels	GCST90199946	13	42645153	T	C	6897	0.22	0.05	0.00	0.00	20.55
rs79864588	3-acetylphenol sulfate levels	GCST90199946	14	29706548	T	C	6897	0.20	0.04	0.00	0.00	21.41
rs183064231	3-acetylphenol sulfate levels	GCST90199946	14	35778077	A	G	6897	-0.24	0.06	0.00	0.00	19.78
rs2068199	3-acetylphenol sulfate levels	GCST90199946	15	31297565	A	G	6897	0.11	0.02	0.00	0.00	19.93
rs12913844	3-acetylphenol sulfate levels	GCST90199946	15	99753708	C	G	6897	0.08	0.02	0.00	0.00	21.32
rs145405420	3-acetylphenol sulfate levels	GCST90199946	17	6502447	T	C	6897	-0.44	0.09	0.00	0.00	22.10
rs62061009	3-acetylphenol sulfate levels	GCST90199946	17	12100819	C	T	6897	0.26	0.05	0.00	0.00	22.35
rs12943188	3-acetylphenol sulfate levels	GCST90199946	17	13572492	C	T	6897	-0.08	0.02	0.00	0.00	19.87
rs77348892	3-acetylphenol sulfate levels	GCST90199946	18	45018537	A	G	6897	-0.45	0.10	0.00	0.00	20.41
rs4801089	3-acetylphenol sulfate levels	GCST90199946	18	57220686	C	T	6897	-0.20	0.04	0.00	0.00	21.97
rs6052810	3-acetylphenol sulfate levels	GCST90199946	20	4742318	C	A	6897	-0.08	0.02	0.00	0.00	21.59
rs9612171	3-acetylphenol sulfate levels	GCST90199946	22	20522938	T	C	6897	-0.21	0.05	0.00	0.00	20.65
rs140921844	3-acetylphenol sulfate levels	GCST90199946	22	23112876	T	G	6897	-0.26	0.05	0.00	0.00	22.94
rs115645176	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	2	68970972	A	G	8272	-0.27	0.06	0.00	0.00	23.13
rs189716223	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	2	186509934	C	T	8272	-0.29	0.06	0.00	0.00	22.42
rs769645	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	3	3761166	C	A	8272	-0.07	0.01	0.00	0.00	20.88
rs7651135	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	3	33884832	C	A	8272	-0.06	0.01	0.00	0.00	20.01
rs11711847	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	3	52242641	G	C	8272	0.16	0.03	0.00	0.00	21.80

rs148647630	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	3	67988068	T	G	8272	0.31	0.07	0.00	0.00	19.61
rs58743367	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	5	111052064	G	T	8272	0.07	0.01	0.00	0.00	25.03
rs57082372	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	6	11040435	C	G	8272	-0.08	0.02	0.00	0.00	20.79
rs144774993	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	6	147358320	G	A	8272	-0.20	0.04	0.00	0.00	19.62
rs74617384	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	6	160576086	T	A	8272	0.12	0.03	0.00	0.00	19.91
rs12211973	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	6	169327046	C	T	8272	0.07	0.01	0.00	0.00	21.92
rs16883833	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	8	112571947	T	C	8272	-0.08	0.02	0.00	0.00	22.07
rs187194474	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	10	11187525	C	T	8272	0.32	0.07	0.00	0.00	21.21
rs174634	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	11	61879915	C	G	8272	0.09	0.02	0.00	0.00	30.03
rs117394165	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	11	66688931	T	C	8272	0.17	0.04	0.00	0.00	20.58
rs9532507	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	13	40172279	T	C	8272	-0.08	0.02	0.00	0.00	19.95
rs147201951	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	13	77027755	G	A	8272	0.27	0.06	0.00	0.00	20.51
rs145024765	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	16	5597245	A	C	8272	-0.30	0.06	0.00	0.00	24.06
rs186358861	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	19	44966351	T	C	8272	0.47	0.10	0.00	0.00	21.92
rs10426317	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	19	48645524	T	C	8272	0.09	0.02	0.00	0.00	26.16
rs78028703	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	20	2512061	G	C	8272	0.18	0.04	0.00	0.00	21.78
rs686548	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	20	12992873	T	A	8272	0.07	0.01	0.00	0.00	26.13
rs4820017	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	22	30585521	G	A	8272	0.12	0.02	0.00	0.00	21.77

rs1023470	Sphingomyelin (d18:2/16:0, d18:1/16:1) levels	GCST90199947	22	45839797	G	A	8272	0.08	0.02	0.00	0.00	20.63
rs2236872	S-allylcysteine levels	GCST90199948	1	171115021	A	G	6857	0.13	0.02	0.00	0.01	46.79
rs72758262	S-allylcysteine levels	GCST90199948	1	230075496	T	G	6857	-0.17	0.04	0.00	0.00	19.82
rs12470448	S-allylcysteine levels	GCST90199948	2	18315507	A	G	6857	-0.37	0.08	0.00	0.00	19.61
rs55677366	S-allylcysteine levels	GCST90199948	2	146960092	T	A	6857	-0.14	0.03	0.00	0.00	28.24
rs1165915	S-allylcysteine levels	GCST90199948	3	104040528	T	G	6857	0.08	0.02	0.00	0.00	20.22
rs18821592 7	S-allylcysteine levels	GCST90199948	3	138926596	T	C	6857	0.53	0.12	0.00	0.00	19.61
rs7438901	S-allylcysteine levels	GCST90199948	4	175420015	A	C	6857	-0.19	0.04	0.00	0.00	20.16
rs14448831 3	S-allylcysteine levels	GCST90199948	6	1461281	C	T	6857	0.29	0.06	0.00	0.00	20.93
rs9393518	S-allylcysteine levels	GCST90199948	6	24050702	G	A	6857	-0.13	0.03	0.00	0.00	19.88
rs55780138	S-allylcysteine levels	GCST90199948	7	16136891	T	C	6857	-0.08	0.02	0.00	0.00	20.02
rs75686175	S-allylcysteine levels	GCST90199948	8	137975210	C	T	6857	0.49	0.11	0.00	0.00	19.74
rs1324258	S-allylcysteine levels	GCST90199948	10	96587747	T	A	6857	0.08	0.02	0.00	0.00	21.93
rs61886405	S-allylcysteine levels	GCST90199948	11	70674084	C	T	6857	0.14	0.03	0.00	0.00	19.54
rs17278013	S-allylcysteine levels	GCST90199948	14	25244258	G	T	6857	-0.09	0.02	0.00	0.00	22.18
rs17177776	S-allylcysteine levels	GCST90199948	15	24788230	G	A	6857	-0.24	0.05	0.00	0.00	26.09
rs12708811	S-allylcysteine levels	GCST90199948	16	17047135	T	C	6857	-0.08	0.02	0.00	0.00	22.22
rs1557513	S-allylcysteine levels	GCST90199948	16	19370457	G	A	6857	-0.14	0.03	0.00	0.00	26.45
rs14180596 4	S-allylcysteine levels	GCST90199948	18	72880534	T	C	6857	0.17	0.03	0.00	0.00	23.80
rs8137353	S-allylcysteine levels 6-	GCST90199948	22	46542860	A	G	6857	-0.10	0.02	0.00	0.00	20.88
rs16840267	oxopiperidine- 2-carboxylate levels 6-	GCST90199949	1	5252630	T	C	8032	0.09	0.02	0.00	0.00	23.59
rs4363385	oxopiperidine- 2-carboxylate levels 6-	GCST90199949	1	153016845	C	T	8032	0.07	0.02	0.00	0.00	19.63
rs72737448	oxopiperidine- 2-carboxylate levels 6-	GCST90199949	1	199944169	A	C	8032	-0.15	0.03	0.00	0.00	20.18
rs14459571 1	oxopiperidine- 2-carboxylate levels 6-	GCST90199949	2	25961509	T	C	8032	0.33	0.07	0.00	0.00	20.81
rs56132269	oxopiperidine- 2-carboxylate levels 6-	GCST90199949	2	53379586	T	C	8032	-0.40	0.08	0.00	0.00	23.74
rs41285951	oxopiperidine- 2-carboxylate levels 6-	GCST90199949	2	68380592	T	C	8032	-0.24	0.05	0.00	0.00	19.76
rs344687	oxopiperidine- 2-carboxylate levels 6-	GCST90199949	2	139344295	G	T	8032	-0.08	0.02	0.00	0.00	19.84
rs12052246	oxopiperidine- 2-carboxylate levels	GCST90199949	2	172030703	A	C	8032	-0.07	0.02	0.00	0.00	19.53

rs62281850	6-oxopiperidine-2-carboxylate levels	GCST90199949	3	129998545	T	C	8032	0.15	0.03	0.00	0.00	24.16
rs13120687	6-oxopiperidine-2-carboxylate levels	GCST90199949	4	165045518	G	T	8032	0.14	0.03	0.00	0.00	19.89
rs144272515	6-oxopiperidine-2-carboxylate levels	GCST90199949	5	126595258	T	C	8032	0.43	0.04	0.00	0.01	118.94
rs903851	6-oxopiperidine-2-carboxylate levels	GCST90199949	5	168191984	A	G	8032	-0.08	0.02	0.00	0.00	20.22
rs114053587	6-oxopiperidine-2-carboxylate levels	GCST90199949	6	228404	T	C	8032	0.40	0.08	0.00	0.00	24.91
rs2390751	6-oxopiperidine-2-carboxylate levels	GCST90199949	7	23427858	A	T	8032	0.10	0.02	0.00	0.00	22.12
rs7806920	6-oxopiperidine-2-carboxylate levels	GCST90199949	7	84356891	G	T	8032	0.08	0.02	0.00	0.00	19.70
rs1035864	6-oxopiperidine-2-carboxylate levels	GCST90199949	7	112094830	T	A	8032	-0.11	0.02	0.00	0.00	20.25
rs6960916	6-oxopiperidine-2-carboxylate levels	GCST90199949	7	158134501	A	G	8032	-0.08	0.02	0.00	0.00	24.71
rs7465260	6-oxopiperidine-2-carboxylate levels	GCST90199949	8	144069890	A	T	8032	0.55	0.03	0.00	0.05	417.29
rs11007224	6-oxopiperidine-2-carboxylate levels	GCST90199949	10	28748275	A	C	8032	0.07	0.02	0.00	0.00	20.29
rs11574849	6-oxopiperidine-2-carboxylate levels	GCST90199949	10	102399939	A	G	8032	-0.15	0.03	0.00	0.00	19.77
rs570140	6-oxopiperidine-2-carboxylate levels	GCST90199949	11	80091114	G	A	8032	-0.09	0.02	0.00	0.00	21.00
rs187518779	6-oxopiperidine-2-carboxylate levels	GCST90199949	12	128928810	A	G	8032	-0.36	0.08	0.00	0.00	20.07
rs191145251	6-oxopiperidine-2-carboxylate levels	GCST90199949	13	73924344	C	T	8032	-0.21	0.05	0.00	0.00	21.86
rs77652229	6-oxopiperidine-2-carboxylate levels	GCST90199949	15	71749738	A	G	8032	-0.20	0.04	0.00	0.00	20.99
rs2467270	6-oxopiperidine-2-carboxylate levels	GCST90199949	17	812178	T	C	8032	-0.08	0.02	0.00	0.00	21.27
rs76703115	6-oxopiperidine-2-carboxylate levels	GCST90199949	17	78481972	C	G	8032	0.33	0.07	0.00	0.00	21.16

rs111786381	6-oxopiperidine-2-carboxylate levels	GCST90199949	19	35412349	A	G	8032	-0.10	0.02	0.00	0.00	19.69
rs17507995	2-aminophenol sulfate levels	GCST90199950	1	58709666	A	G	8264	-0.22	0.05	0.00	0.00	23.15
rs77445654	2-aminophenol sulfate levels	GCST90199950	2	193446437	C	T	8264	0.36	0.08	0.00	0.00	19.66
rs35500893	2-aminophenol sulfate levels	GCST90199950	2	226350490	G	A	8264	0.08	0.02	0.00	0.00	20.33
rs28415538	2-aminophenol sulfate levels	GCST90199950	4	137636417	G	A	8264	0.07	0.02	0.00	0.00	19.81
rs4337770	2-aminophenol sulfate levels	GCST90199950	4	184956462	G	A	8264	-0.28	0.06	0.00	0.00	24.43
rs146302493	2-aminophenol sulfate levels	GCST90199950	5	17930309	T	C	8264	-0.23	0.05	0.00	0.00	20.58
rs4443438	2-aminophenol sulfate levels	GCST90199950	5	36466761	A	G	8264	-0.23	0.05	0.00	0.00	19.99
rs16891019	2-aminophenol sulfate levels	GCST90199950	5	62744133	G	A	8264	-0.09	0.02	0.00	0.00	20.83
rs149887583	2-aminophenol sulfate levels	GCST90199950	5	157106375	T	C	8264	0.34	0.08	0.00	0.00	20.65
rs7448252	2-aminophenol sulfate levels	GCST90199950	5	178177134	C	T	8264	-0.07	0.02	0.00	0.00	21.85
rs2789009	2-aminophenol sulfate levels	GCST90199950	6	117824485	T	C	8264	0.09	0.02	0.00	0.00	20.63
rs74371839	2-aminophenol sulfate levels	GCST90199950	7	48771331	T	C	8264	0.20	0.04	0.00	0.00	19.91
rs77861747	2-aminophenol sulfate levels	GCST90199950	8	1373540	T	C	8264	0.19	0.04	0.00	0.00	20.46
rs71513720	2-aminophenol sulfate levels	GCST90199950	8	34213505	G	A	8264	-0.12	0.03	0.00	0.00	20.84
rs62513256	2-aminophenol sulfate levels	GCST90199950	8	82730633	A	G	8264	0.12	0.03	0.00	0.00	20.84
rs16906823	2-aminophenol sulfate levels	GCST90199950	9	23119316	G	C	8264	-0.25	0.06	0.00	0.00	20.58
rs13296856	2-aminophenol sulfate levels	GCST90199950	9	38219329	A	G	8264	0.08	0.02	0.00	0.00	20.21
rs761883	2-aminophenol sulfate levels	GCST90199950	10	33919751	G	A	8264	0.11	0.02	0.00	0.00	22.63
rs181001541	2-aminophenol sulfate levels	GCST90199950	10	85706665	A	G	8264	0.28	0.06	0.00	0.00	23.05
rs7133330	2-aminophenol sulfate levels	GCST90199950	12	4352319	A	G	8264	0.08	0.02	0.00	0.00	20.20
rs138838316	2-aminophenol sulfate levels	GCST90199950	12	75703944	A	T	8264	0.12	0.03	0.00	0.00	22.30
rs117278826	2-aminophenol sulfate levels	GCST90199950	12	105840260	T	C	8264	0.20	0.04	0.00	0.00	21.38
rs144455406	2-aminophenol sulfate levels	GCST90199950	12	131833592	G	C	8264	-0.21	0.04	0.00	0.00	22.60
rs143360828	2-aminophenol sulfate levels	GCST90199950	13	30639721	A	G	8264	-0.42	0.09	0.00	0.00	21.33
rs12918967	2-aminophenol sulfate levels	GCST90199950	16	901692	T	C	8264	-0.28	0.06	0.00	0.00	21.26
rs117959567	2-aminophenol sulfate levels	GCST90199950	16	1190070	T	G	8264	0.44	0.10	0.00	0.00	21.15
rs117336992	2-aminophenol sulfate levels	GCST90199950	16	5520294	G	A	8264	0.29	0.06	0.00	0.00	20.88
rs145094042	2-aminophenol sulfate levels	GCST90199950	16	71970208	A	G	8264	-0.42	0.08	0.00	0.00	26.14
rs117607037	2-aminophenol sulfate levels	GCST90199950	16	79914115	A	G	8264	-0.16	0.03	0.00	0.00	20.64
rs117110181	2-aminophenol sulfate levels	GCST90199950	16	85334246	T	G	8264	0.41	0.08	0.00	0.00	24.83
rs2677900	2-aminophenol sulfate levels	GCST90199950	18	2521078	A	C	8264	-0.09	0.02	0.00	0.00	22.67
rs58619731	2-aminophenol sulfate levels	GCST90199950	19	53039742	T	G	8264	0.11	0.02	0.00	0.00	21.11
rs118165507	2-aminophenol sulfate levels	GCST90199950	20	256722	T	G	8264	0.49	0.11	0.00	0.00	20.07
rs73225427	2-aminophenol sulfate levels	GCST90199950	21	42231546	T	C	8264	0.14	0.03	0.00	0.00	19.81
rs57785365	N-acetylalliin levels	GCST90199951	1	173133363	G	C	5432	0.26	0.06	0.00	0.00	20.78

rs147479514	N-acetylalliin levels	GCST90199951	1	237500704	G	C	5432	-0.44	0.10	0.00	0.00	19.54
rs73168452	N-acetylalliin levels	GCST90199951	2	1606685	G	A	5432	-0.30	0.06	0.00	0.00	24.63
rs929641	N-acetylalliin levels	GCST90199951	2	58565242	G	A	5432	0.09	0.02	0.00	0.00	21.86
rs78450880	N-acetylalliin levels	GCST90199951	2	73594254	G	T	5432	0.23	0.02	0.00	0.02	115.33
rs2222382	N-acetylalliin levels	GCST90199951	2	78924859	A	C	5432	-0.14	0.03	0.00	0.00	26.83
rs76069245	N-acetylalliin levels	GCST90199951	3	112584558	C	T	5432	-0.15	0.03	0.00	0.00	21.66
rs17064578	N-acetylalliin levels	GCST90199951	4	177300044	C	T	5432	-0.14	0.03	0.00	0.00	20.09
rs72834063	N-acetylalliin levels	GCST90199951	5	166716965	A	C	5432	0.29	0.06	0.00	0.00	19.60
rs12520585	N-acetylalliin levels	GCST90199951	5	170147513	C	T	5432	-0.13	0.03	0.00	0.00	23.16
rs147983547	N-acetylalliin levels	GCST90199951	6	25570045	G	A	5432	-0.25	0.06	0.00	0.00	19.65
rs183786244	N-acetylalliin levels	GCST90199951	6	165250257	T	C	5432	-0.32	0.07	0.00	0.00	19.51
rs55780138	N-acetylalliin levels	GCST90199951	7	16136891	T	C	5432	-0.09	0.02	0.00	0.00	19.54
rs138886879	N-acetylalliin levels	GCST90199951	8	6708766	C	G	5432	0.30	0.06	0.00	0.00	24.38
rs1519366	N-acetylalliin levels	GCST90199951	8	138377434	C	G	5432	-0.10	0.02	0.00	0.00	22.33
rs10758663	N-acetylalliin levels	GCST90199951	9	4909293	A	C	5432	-0.11	0.02	0.00	0.00	21.30
rs117067205	N-acetylalliin levels	GCST90199951	9	30032622	A	G	5432	-0.46	0.10	0.00	0.00	20.38
rs6597604	N-acetylalliin levels	GCST90199951	9	133174393	G	A	5432	0.09	0.02	0.00	0.00	20.87
rs11187277	N-acetylalliin levels	GCST90199951	10	93095378	G	T	5432	-0.12	0.02	0.00	0.00	23.99
rs111430634	N-acetylalliin levels	GCST90199951	11	17938672	G	A	5432	-0.17	0.04	0.00	0.00	20.11
rs79157223	N-acetylalliin levels	GCST90199951	11	25309577	A	T	5432	-0.31	0.06	0.00	0.00	23.13
rs72910671	N-acetylalliin levels	GCST90199951	11	45616074	T	C	5432	0.17	0.03	0.00	0.00	23.92
rs7101900	N-acetylalliin levels	GCST90199951	11	70673250	A	C	5432	-0.10	0.02	0.00	0.00	24.83
rs17519439	N-acetylalliin levels	GCST90199951	13	27068998	A	C	5432	-0.16	0.04	0.00	0.00	20.12
rs7984374	N-acetylalliin levels	GCST90199951	13	92578859	T	C	5432	0.11	0.02	0.00	0.00	20.07
rs12437353	N-acetylalliin levels	GCST90199951	14	83635842	C	T	5432	0.09	0.02	0.00	0.00	19.91
rs71386574	N-acetylalliin levels	GCST90199951	16	51740599	A	C	5432	-0.09	0.02	0.00	0.00	19.59
rs56189881	N-acetylalliin levels	GCST90199951	18	13445423	A	G	5432	-0.10	0.02	0.00	0.00	20.83
rs117108262	N-acetylalliin levels	GCST90199951	18	74608029	T	C	5432	0.36	0.07	0.00	0.00	25.33
rs147810441	N-acetylalliin levels	GCST90199951	19	1023470	T	C	5432	-0.36	0.08	0.00	0.00	20.23
rs76963882	2-aminoheptanoate levels	GCST90199952	1	75702239	C	T	8238	0.07	0.02	0.00	0.00	19.95
rs111374216	2-aminoheptanoate levels	GCST90199952	1	193869651	G	A	8238	-0.62	0.14	0.00	0.00	20.81
rs112704952	2-aminoheptanoate levels	GCST90199952	2	97694409	T	C	8238	-0.24	0.05	0.00	0.00	20.25
rs1093377	2-aminoheptanoate levels	GCST90199952	2	150451945	A	G	8238	-0.12	0.03	0.00	0.00	19.79
rs79429539	2-aminoheptanoate levels	GCST90199952	2	164733199	T	C	8238	-0.17	0.04	0.00	0.00	20.39

rs13082854	2- aminoheptano ate levels	GCST90199952	3	25257234	G	C	8238	-0.25	0.06	0.00	0.00	19.85
rs14472971 2	2- aminoheptano ate levels	GCST90199952	3	177444643	G	A	8238	0.27	0.06	0.00	0.00	20.24
rs1545207	2- aminoheptano ate levels	GCST90199952	4	88318340	A	G	8238	0.08	0.02	0.00	0.00	21.54
rs14225927 1	2- aminoheptano ate levels	GCST90199952	4	114491199	C	T	8238	-0.25	0.05	0.00	0.00	22.14
rs6847892	2- aminoheptano ate levels	GCST90199952	4	182457058	A	G	8238	-0.07	0.02	0.00	0.00	19.70
rs18946718 1	2- aminoheptano ate levels	GCST90199952	5	67775638	A	T	8238	-0.24	0.05	0.00	0.00	19.77
rs13182035	2- aminoheptano ate levels	GCST90199952	5	127633582	T	C	8238	-0.09	0.02	0.00	0.00	19.68
rs78562996	2- aminoheptano ate levels	GCST90199952	5	170575192	A	G	8238	-0.21	0.05	0.00	0.00	19.62
rs2093396	2- aminoheptano ate levels	GCST90199952	6	41187262	A	G	8238	0.08	0.02	0.00	0.00	21.94
rs76309180	2- aminoheptano ate levels	GCST90199952	7	26479382	T	C	8238	-0.10	0.02	0.00	0.00	19.93
rs2262987	2- aminoheptano ate levels	GCST90199952	7	81277702	T	C	8238	-0.26	0.06	0.00	0.00	21.53
rs4750884	2- aminoheptano ate levels	GCST90199952	10	127440444	T	G	8238	0.11	0.02	0.00	0.00	27.59
rs11500109 3	2- aminoheptano ate levels	GCST90199952	10	131186308	C	T	8238	0.15	0.03	0.00	0.00	21.10
rs12794069	2- aminoheptano ate levels	GCST90199952	11	15289839	T	C	8238	-0.09	0.02	0.00	0.00	19.69
rs7945555	2- aminoheptano ate levels	GCST90199952	11	103682757	G	C	8238	0.07	0.02	0.00	0.00	22.07
rs14476336 6	2- aminoheptano ate levels	GCST90199952	12	112336259	G	C	8238	0.14	0.03	0.00	0.00	22.33
rs12868554	2- aminoheptano ate levels	GCST90199952	13	21996187	C	T	8238	0.09	0.02	0.00	0.00	20.15
rs16960729	2- aminoheptano ate levels	GCST90199952	13	102911783	G	T	8238	0.12	0.03	0.00	0.00	20.20
rs10133357	2- aminoheptano ate levels	GCST90199952	14	100550230	G	A	8238	-0.08	0.02	0.00	0.00	23.99
rs73551580	2- aminoheptano ate levels	GCST90199952	16	24836460	C	T	8238	-0.12	0.02	0.00	0.00	24.10
rs14190133 3	2- aminoheptano ate levels	GCST90199952	16	54879240	T	A	8238	-0.40	0.09	0.00	0.00	19.64
rs18786096 0	2- aminoheptano ate levels	GCST90199952	20	5939447	T	C	8238	-0.28	0.06	0.00	0.00	21.20
rs4075967	3- aminoheptano ate levels	GCST90199952	21	41815820	A	G	8238	0.08	0.02	0.00	0.00	19.88
rs11666573 9	methoxytyram ine sulfate levels	GCST90199953	1	3450163	T	C	5419	0.40	0.09	0.00	0.00	20.69

rs8048	3-methoxytyramine sulfate levels	GCST90199953	1	30732949	C	T	5419	-0.09	0.02	0.00	0.00	21.43
rs56369827	3-methoxytyramine sulfate levels	GCST90199953	1	213176404	T	C	5419	0.35	0.08	0.00	0.00	20.07
rs72777501	3-methoxytyramine sulfate levels	GCST90199953	2	13918888	G	A	5419	-0.30	0.07	0.00	0.00	19.93
rs62161240	3-methoxytyramine sulfate levels	GCST90199953	2	56830502	G	A	5419	0.23	0.05	0.00	0.00	19.95
rs11710352	3-methoxytyramine sulfate levels	GCST90199953	3	359003	C	A	5419	0.41	0.09	0.00	0.00	20.33
rs1398712	3-methoxytyramine sulfate levels	GCST90199953	3	39249288	T	C	5419	0.09	0.02	0.00	0.00	20.40
rs78717860	3-methoxytyramine sulfate levels	GCST90199953	3	109781907	G	C	5419	0.45	0.10	0.00	0.00	19.53
rs4698386	3-methoxytyramine sulfate levels	GCST90199953	4	15477230	A	T	5419	0.09	0.02	0.00	0.00	20.26
rs7672248	3-methoxytyramine sulfate levels	GCST90199953	4	55361660	A	G	5419	-0.09	0.02	0.00	0.00	20.49
rs34257018	3-methoxytyramine sulfate levels	GCST90199953	5	66785101	T	C	5419	-0.09	0.02	0.00	0.00	21.16
rs7843644	3-methoxytyramine sulfate levels	GCST90199953	8	5783751	A	G	5419	0.10	0.02	0.00	0.00	20.54
rs587639	3-methoxytyramine sulfate levels	GCST90199953	8	131713484	C	T	5419	0.10	0.02	0.00	0.00	23.98
rs10840516	3-methoxytyramine sulfate levels	GCST90199953	11	2188737	A	G	5419	0.13	0.02	0.00	0.01	32.64
rs7125251	3-methoxytyramine sulfate levels	GCST90199953	11	97855925	G	A	5419	0.09	0.02	0.00	0.00	21.62
rs11044072	3-methoxytyramine sulfate levels	GCST90199953	12	18393710	T	C	5419	-0.12	0.03	0.00	0.00	20.06
rs143750335	3-methoxytyramine sulfate levels	GCST90199953	14	54980651	G	A	5419	-0.15	0.03	0.00	0.00	23.74
rs3744166	3-methoxytyramine sulfate levels	GCST90199953	17	78974797	G	A	5419	0.41	0.08	0.00	0.00	23.97
rs57521154	3-methoxytyramine sulfate levels	GCST90199953	19	2723679	G	A	5419	0.20	0.04	0.00	0.00	20.59

rs61751862	3-methoxytyramine sulfate levels	GCST90199953	19	48629610	C	G	5419	0.46	0.10	0.00	0.00	21.54
rs5770581	3-methoxytyramine sulfate levels	GCST90199953	22	48968968	A	G	5419	0.12	0.02	0.00	0.00	23.45
rs150868809	N2,N5-diacetylornithine levels	GCST90199954	1	20503268	C	A	7596	-0.23	0.05	0.00	0.00	21.83
rs115934717	N2,N5-diacetylornithine levels	GCST90199954	1	192761507	A	G	7596	1.10	0.22	0.00	0.00	25.26
rs55787230	N2,N5-diacetylornithine levels	GCST90199954	2	7395234	T	C	7596	0.16	0.04	0.00	0.00	20.50
rs35940501	N2,N5-diacetylornithine levels	GCST90199954	2	17415423	T	C	7596	0.13	0.02	0.00	0.00	32.50
rs2947860	N2,N5-diacetylornithine levels	GCST90199954	2	73628259	G	A	7596	0.43	0.02	0.00	0.07	579.80
rs1516301	N2,N5-diacetylornithine levels	GCST90199954	3	9181562	T	C	7596	-0.23	0.05	0.00	0.00	20.45
rs79843467	N2,N5-diacetylornithine levels	GCST90199954	3	27822852	A	G	7596	0.19	0.04	0.00	0.00	20.92
rs7626493	N2,N5-diacetylornithine levels	GCST90199954	3	35414345	C	T	7596	0.11	0.03	0.00	0.00	19.72
rs147841002	N2,N5-diacetylornithine levels	GCST90199954	4	148378608	T	C	7596	-0.27	0.06	0.00	0.00	20.20
rs79715355	N2,N5-diacetylornithine levels	GCST90199954	5	66863596	G	A	7596	-0.10	0.02	0.00	0.00	23.74
rs529134606	N2,N5-diacetylornithine levels	GCST90199954	5	148942703	A	G	7596	0.21	0.04	0.00	0.00	21.62
rs3799344	N2,N5-diacetylornithine levels	GCST90199954	6	25786765	T	C	7596	-0.09	0.02	0.00	0.00	30.32
rs76672197	N2,N5-diacetylornithine levels	GCST90199954	7	111720623	C	T	7596	-0.15	0.03	0.00	0.00	19.67
rs13250667	N2,N5-diacetylornithine levels	GCST90199954	8	65131461	T	C	7596	0.12	0.03	0.00	0.00	20.25
rs72753998	N2,N5-diacetylornithine levels	GCST90199954	9	108711556	C	G	7596	0.23	0.05	0.00	0.00	21.30
rs55729168	N2,N5-diacetylornithine levels	GCST90199954	10	48268199	C	T	7596	-0.11	0.02	0.00	0.00	19.77
rs11191050	N2,N5-diacetylornithine levels	GCST90199954	10	101571395	T	A	7596	-0.09	0.02	0.00	0.00	22.38
rs116935504	N2,N5-diacetylornithine levels	GCST90199954	11	43978144	A	G	7596	-0.22	0.05	0.00	0.00	21.87
rs146242484	N2,N5-diacetylornithine levels	GCST90199954	11	81952345	A	G	7596	-0.36	0.08	0.00	0.00	21.45
rs78421407	N2,N5-diacetylornithine levels	GCST90199954	11	128310230	G	C	7596	-0.18	0.04	0.00	0.00	21.03
rs2421035	N2,N5-diacetylornithine levels	GCST90199954	13	26978564	T	C	7596	-0.15	0.03	0.00	0.00	20.85
rs1568404	N2,N5-diacetylornithine levels	GCST90199954	14	72270261	T	C	7596	0.08	0.02	0.00	0.00	24.17

rs4238425	N2,N5- diacetylornithi ne levels	GCST90199954	15	64378994	A	C	7596	-0.11	0.02	0.00	0.00	20.43
rs1469699	N2,N5- diacetylornithi ne levels	GCST90199954	19	38502998	G	A	7596	-0.09	0.02	0.00	0.00	26.38
rs18356895 3	N2,N5- diacetylornithi ne levels	GCST90199954	20	17683927	A	G	7596	-0.32	0.07	0.00	0.00	19.67
rs14537450 6	N2,N5- diacetylornithi ne levels	GCST90199954	20	25429232	T	C	7596	-0.21	0.04	0.00	0.00	22.00
rs13047163	N2,N5- diacetylornithi ne levels	GCST90199954	21	41111237	A	T	7596	-0.09	0.02	0.00	0.00	20.40
rs3128372	Ferulic acid 4- sulfate levels	GCST90199955	1	112314964	G	C	7332	0.09	0.02	0.00	0.00	22.91
rs17439363	Ferulic acid 4- sulfate levels	GCST90199955	2	49972559	G	T	7332	0.13	0.03	0.00	0.00	22.30
rs887987	Ferulic acid 4- sulfate levels	GCST90199955	2	102814945	C	T	7332	0.21	0.04	0.00	0.00	21.26
rs76547788	Ferulic acid 4- sulfate levels	GCST90199955	2	143290691	A	G	7332	0.37	0.08	0.00	0.00	20.70
rs11692915	Ferulic acid 4- sulfate levels	GCST90199955	2	172345853	A	T	7332	-0.21	0.05	0.00	0.00	19.57
rs7644398	Ferulic acid 4- sulfate levels	GCST90199955	3	3118558	G	A	7332	-0.11	0.02	0.00	0.00	21.99
rs2454436	Ferulic acid 4- sulfate levels	GCST90199955	3	12588387	G	A	7332	0.09	0.02	0.00	0.00	19.67
rs2371753	Ferulic acid 4- sulfate levels	GCST90199955	3	64800956	C	T	7332	-0.07	0.02	0.00	0.00	19.58
rs13118743	Ferulic acid 4- sulfate levels	GCST90199955	4	113649189	C	A	7332	0.13	0.03	0.00	0.00	20.16
rs11802269 3	Ferulic acid 4- sulfate levels	GCST90199955	4	126295475	A	C	7332	-2.23	0.49	0.00	0.00	20.52
rs13117175	Ferulic acid 4- sulfate levels	GCST90199955	4	180716450	A	G	7332	0.15	0.03	0.00	0.00	20.25
rs72704438	Ferulic acid 4- sulfate levels	GCST90199955	5	1764067	G	A	7332	0.15	0.03	0.00	0.00	21.10
rs17634741	Ferulic acid 4- sulfate levels	GCST90199955	5	73859875	G	C	7332	-0.17	0.04	0.00	0.00	19.80
rs6861275	Ferulic acid 4- sulfate levels	GCST90199955	5	98040741	A	C	7332	-0.08	0.02	0.00	0.00	20.27
rs2762353	Ferulic acid 4- sulfate levels	GCST90199955	6	25794203	G	A	7332	0.30	0.02	0.00	0.05	350.31
rs11206583 5	Ferulic acid 4- sulfate levels	GCST90199955	6	121065371	A	G	7332	-0.33	0.06	0.00	0.00	26.09
rs59843135	Ferulic acid 4- sulfate levels	GCST90199955	7	135812389	T	C	7332	0.10	0.02	0.00	0.00	23.38
rs35422417	Ferulic acid 4- sulfate levels	GCST90199955	8	25779405	G	A	7332	0.08	0.02	0.00	0.00	24.96
rs10957534	Ferulic acid 4- sulfate levels	GCST90199955	8	71096068	G	C	7332	-0.08	0.02	0.00	0.00	21.71
rs79814862	Ferulic acid 4- sulfate levels	GCST90199955	9	9653882	C	T	7332	-0.12	0.03	0.00	0.00	21.68
rs11685512 2	Ferulic acid 4- sulfate levels	GCST90199955	10	69096815	C	A	7332	-0.40	0.08	0.00	0.00	22.78
rs19249335 5	Ferulic acid 4- sulfate levels	GCST90199955	10	84595910	G	A	7332	-0.28	0.06	0.00	0.00	19.93
rs12785355	Ferulic acid 4- sulfate levels	GCST90199955	11	122709814	A	G	7332	-0.15	0.03	0.00	0.00	21.74
rs11742680 5	Ferulic acid 4- sulfate levels	GCST90199955	12	33558116	C	A	7332	-0.39	0.08	0.00	0.00	24.17
rs7133203	Ferulic acid 4- sulfate levels	GCST90199955	12	48489882	T	C	7332	0.19	0.04	0.00	0.00	20.52
rs13852169 5	Ferulic acid 4- sulfate levels	GCST90199955	12	61971075	A	G	7332	-0.39	0.09	0.00	0.00	21.42
rs6310	Ferulic acid 4- sulfate levels	GCST90199955	13	46896217	T	C	7332	-0.15	0.03	0.00	0.00	19.76
rs11245907 1	Ferulic acid 4- sulfate levels	GCST90199955	15	78198119	T	C	7332	-0.19	0.04	0.00	0.00	21.11
rs11694015 0	Ferulic acid 4- sulfate levels	GCST90199955	16	6921077	A	C	7332	-0.28	0.06	0.00	0.00	22.27

rs412018	Ferulic acid 4-sulfate levels	GCST90199955	17	31691813	C	T	7332	0.09	0.02	0.00	0.00	24.04
rs17062940	Ferulic acid 4-sulfate levels	GCST90199955	18	57064644	A	G	7332	-0.25	0.05	0.00	0.00	24.83
rs2273455	Ferulic acid 4-sulfate levels	GCST90199955	20	50029855	T	C	7332	-0.15	0.03	0.00	0.00	21.43
rs62228974	Ferulic acid 4-sulfate levels	GCST90199955	21	33831690	G	A	7332	-0.08	0.02	0.00	0.00	20.59
rs138364477	Ferulic acid 4-sulfate levels	GCST90199955	21	36750031	G	C	7332	-0.46	0.10	0.00	0.00	23.31
rs142455309	1H-indole-7-acetic acid levels	GCST90199956	1	247877971	A	T	5986	-0.32	0.07	0.00	0.00	21.81
rs13415152	1H-indole-7-acetic acid levels	GCST90199956	2	20033584	A	G	5986	0.10	0.02	0.00	0.00	20.53
rs75058657	1H-indole-7-acetic acid levels	GCST90199956	2	172915879	A	G	5986	-0.19	0.04	0.00	0.00	22.69
rs72551330	1H-indole-7-acetic acid levels	GCST90199956	2	233672032	C	T	5986	0.33	0.07	0.00	0.00	20.73
rs147597684	1H-indole-7-acetic acid levels	GCST90199956	4	27203883	A	G	5986	-0.46	0.10	0.00	0.00	20.06
rs4438731	1H-indole-7-acetic acid levels	GCST90199956	4	94170233	G	A	5986	-0.09	0.02	0.00	0.00	22.65
rs4494999	1H-indole-7-acetic acid levels	GCST90199956	4	169949154	C	T	5986	-0.08	0.02	0.00	0.00	19.89
rs77026137	1H-indole-7-acetic acid levels	GCST90199956	5	29627554	G	C	5986	0.25	0.06	0.00	0.00	20.60
rs9465538	1H-indole-7-acetic acid levels	GCST90199956	6	19820171	T	A	5986	-0.51	0.11	0.00	0.00	21.08
rs116362778	1H-indole-7-acetic acid levels	GCST90199956	6	33330931	T	C	5986	-0.22	0.05	0.00	0.00	22.31
rs58192148	1H-indole-7-acetic acid levels	GCST90199956	7	47393406	C	T	5986	-0.09	0.02	0.00	0.00	20.11
rs137922416	1H-indole-7-acetic acid levels	GCST90199956	7	104864478	A	C	5986	0.33	0.07	0.00	0.00	20.00
rs3920708	1H-indole-7-acetic acid levels	GCST90199956	9	28483085	G	C	5986	0.09	0.02	0.00	0.00	22.10
rs7035486	1H-indole-7-acetic acid levels	GCST90199956	9	90122785	T	C	5986	-0.11	0.02	0.00	0.00	20.56
rs142897548	1H-indole-7-acetic acid levels	GCST90199956	9	115154472	A	G	5986	0.41	0.09	0.00	0.00	21.06
rs116927769	1H-indole-7-acetic acid levels	GCST90199956	10	14453701	A	C	5986	-0.26	0.05	0.00	0.00	22.11
rs12413105	1H-indole-7-acetic acid levels	GCST90199956	10	123463915	A	G	5986	0.24	0.05	0.00	0.00	19.76
rs77302004	1H-indole-7-acetic acid levels	GCST90199956	11	92410294	A	G	5986	-0.30	0.07	0.00	0.00	21.39
rs17553664	1H-indole-7-acetic acid levels	GCST90199956	11	116035086	G	A	5986	0.20	0.04	0.00	0.00	20.49
rs74662040	1H-indole-7-acetic acid levels	GCST90199956	12	13964197	G	C	5986	-0.14	0.03	0.00	0.00	21.09
rs117317183	1H-indole-7-acetic acid levels	GCST90199956	12	65514306	A	G	5986	-0.41	0.09	0.00	0.00	22.03

rs11106969	1H-indole-7-acetic acid levels	GCST90199956	12	117431626	C	G	5986	-0.14	0.03	0.00	0.00	20.55
rs17189540	1H-indole-7-acetic acid levels	GCST90199956	13	95256253	G	A	5986	-0.15	0.03	0.00	0.00	19.77
rs7159938	1H-indole-7-acetic acid levels	GCST90199956	14	89019029	A	G	5986	0.13	0.03	0.00	0.00	20.53
rs11621305	1H-indole-7-acetic acid levels	GCST90199956	14	98295182	C	A	5986	0.11	0.02	0.00	0.00	19.76
rs2573693	1H-indole-7-acetic acid levels	GCST90199956	15	26176026	T	C	5986	0.09	0.02	0.00	0.00	21.94
rs117119548	1H-indole-7-acetic acid levels	GCST90199956	17	10040016	T	C	5986	-0.39	0.09	0.00	0.00	20.64
rs150455970	1H-indole-7-acetic acid levels	GCST90199956	18	1107420	T	C	5986	-0.36	0.08	0.00	0.00	20.21
rs12964444	1H-indole-7-acetic acid levels	GCST90199956	18	40206988	A	G	5986	0.21	0.04	0.00	0.00	26.19
rs113394501	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	1	104346656	T	C	5773	-0.34	0.07	0.00	0.00	20.80
rs3820126	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	1	147665867	T	C	5773	0.14	0.03	0.00	0.00	20.61
rs77676315	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	1	221490994	A	G	5773	-0.15	0.03	0.00	0.00	21.89
rs17046412	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	2	54842814	A	C	5773	-0.19	0.04	0.00	0.00	20.87
rs59968724	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	3	53514004	G	C	5773	-0.22	0.05	0.00	0.00	21.20
rs17525490	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	4	36669215	C	A	5773	0.20	0.05	0.00	0.00	20.29
rs74796258	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	6	54036653	A	C	5773	-0.23	0.05	0.00	0.00	20.90
rs2700987	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	7	37346633	A	C	5773	-0.09	0.02	0.00	0.00	23.50
rs59641559	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	8	14879374	A	C	5773	0.25	0.06	0.00	0.00	20.06
rs10970972	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	9	32424212	T	C	5773	0.09	0.02	0.00	0.00	20.07
rs117252366	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	10	14658073	G	A	5773	0.22	0.05	0.00	0.00	20.89
rs111441913	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	10	28742139	C	G	5773	0.29	0.06	0.00	0.00	20.67

rs144640976	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	12	2770341	A	G	5773	-0.39	0.09	0.00	0.00	20.75
rs139182841	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	14	56661436	A	G	5773	0.34	0.07	0.00	0.00	26.68
rs189978904	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	16	28823100	T	C	5773	0.21	0.05	0.00	0.00	20.13
rs117447452	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	16	28826014	T	A	5773	-0.35	0.08	0.00	0.00	21.34
rs72849088	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	17	79331576	A	G	5773	0.13	0.03	0.00	0.00	21.04
rs2665160	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	18	35535224	G	A	5773	-0.39	0.09	0.00	0.00	20.59
rs117309233	3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	18	79470567	A	G	5773	0.43	0.09	0.00	0.00	21.62
rs139392252	1-linolenoyl-3-(3-hydroxyphenyl)propionate sulfate levels	GCST90199957	19	43431486	T	C	5773	0.23	0.05	0.00	0.00	20.88
rs6689014	1-linolenoyl-GPC (18:3) levels	GCST90199958	1	25863026	T	C	8261	0.48	0.08	0.00	0.00	35.27
rs7515857	1-linolenoyl-GPC (18:3) levels	GCST90199958	1	39952958	T	G	8261	0.10	0.02	0.00	0.00	34.64
rs10864726	1-linolenoyl-GPC (18:3) levels	GCST90199958	1	230160406	T	C	8261	0.07	0.02	0.00	0.00	21.44
rs1260326	1-linolenoyl-GPC (18:3) levels	GCST90199958	2	27508073	C	T	8261	-0.08	0.02	0.00	0.00	29.23
rs4522657	1-linolenoyl-GPC (18:3) levels	GCST90199958	2	133030059	A	G	8261	0.09	0.02	0.00	0.00	20.23
rs61628485	1-linolenoyl-GPC (18:3) levels	GCST90199958	2	166610537	C	T	8261	0.14	0.03	0.00	0.00	23.32
rs56319357	1-linolenoyl-GPC (18:3) levels	GCST90199958	2	168679397	G	A	8261	0.08	0.02	0.00	0.00	20.88
rs7585866	1-linolenoyl-GPC (18:3) levels	GCST90199958	2	191831529	G	A	8261	0.07	0.02	0.00	0.00	21.02
rs57035998	1-linolenoyl-GPC (18:3) levels	GCST90199958	2	219830089	T	C	8261	-0.28	0.06	0.00	0.00	19.90
rs1385548	1-linolenoyl-GPC (18:3) levels	GCST90199958	3	23052927	G	C	8261	-0.08	0.02	0.00	0.00	20.67
rs57965307	1-linolenoyl-GPC (18:3) levels	GCST90199958	4	20901270	G	T	8261	0.10	0.02	0.00	0.00	22.97
rs141464519	1-linolenoyl-GPC (18:3) levels	GCST90199958	4	189394688	G	A	8261	0.33	0.07	0.00	0.00	20.77
rs116697863	1-linolenoyl-GPC (18:3) levels	GCST90199958	5	32642850	C	T	8261	-0.44	0.09	0.00	0.00	23.25
rs112797911	1-linolenoyl-GPC (18:3) levels	GCST90199958	5	112394246	G	C	8261	0.15	0.03	0.00	0.00	22.03

rs707967	1-linolenoyl- GPC (18:3) levels	GCST90199958	6	35080657	C	T	8261	0.07	0.02	0.00	0.00	21.40
rs117391210	1-linolenoyl- GPC (18:3) levels	GCST90199958	7	10525320	A	G	8261	-0.20	0.04	0.00	0.00	20.70
rs2272720	1-linolenoyl- GPC (18:3) levels	GCST90199958	8	2073341	T	G	8261	-0.09	0.02	0.00	0.00	31.60
rs149489596	1-linolenoyl- GPC (18:3) levels	GCST90199958	8	88744893	T	C	8261	0.31	0.07	0.00	0.00	20.30
rs139121249	1-linolenoyl- GPC (18:3) levels	GCST90199958	9	22961446	A	T	8261	0.26	0.06	0.00	0.00	19.69
rs34235875	1-linolenoyl- GPC (18:3) levels	GCST90199958	9	136587400	C	T	8261	-0.08	0.02	0.00	0.00	19.76
rs140549299	1-linolenoyl- GPC (18:3) levels	GCST90199958	10	9196130	A	G	8261	0.34	0.07	0.00	0.00	21.87
rs7116885	1-linolenoyl- GPC (18:3) levels	GCST90199958	11	79020890	T	A	8261	0.08	0.02	0.00	0.00	21.94
rs477728	1-linolenoyl- GPC (18:3) levels	GCST90199958	11	128249496	A	G	8261	0.13	0.03	0.00	0.00	21.71
rs73069021	1-linolenoyl- GPC (18:3) levels	GCST90199958	12	21247021	A	G	8261	0.09	0.02	0.00	0.00	21.27
rs145291281	1-linolenoyl- GPC (18:3) levels	GCST90199958	15	73750441	T	C	8261	-0.38	0.08	0.00	0.00	23.53
rs150069563	1-linolenoyl- GPC (18:3) levels	GCST90199958	16	61071624	T	C	8261	0.26	0.06	0.00	0.00	19.61
rs62036205	1-linolenoyl- GPC (18:3) levels	GCST90199958	16	78841158	C	A	8261	-0.13	0.03	0.00	0.00	23.99
rs4790705	1-linolenoyl- GPC (18:3) levels	GCST90199958	17	4774180	A	C	8261	0.12	0.02	0.00	0.00	26.89
rs75883746	1-linolenoyl- GPC (18:3) levels	GCST90199958	17	20977178	G	A	8261	-0.28	0.06	0.00	0.00	24.19
rs33966966	1-linolenoyl- GPC (18:3) levels	GCST90199958	17	76926624	T	C	8261	-0.09	0.02	0.00	0.00	21.39
rs73194667	1-linolenoyl- GPC (18:3) levels	GCST90199958	21	18347104	A	C	8261	-0.11	0.02	0.00	0.00	19.58
rs186293616	O-sulfo-l- tyrosine levels	GCST90199959	2	179005259	A	C	8229	-0.24	0.05	0.00	0.00	22.13
rs11899677	O-sulfo-l- tyrosine levels	GCST90199959	2	236124193	A	G	8229	-0.08	0.02	0.00	0.00	22.28
rs138885390	O-sulfo-l- tyrosine levels	GCST90199959	4	5570279	C	A	8229	0.27	0.06	0.00	0.00	19.56
rs7654754	O-sulfo-l- tyrosine levels	GCST90199959	4	76488642	A	G	8229	0.08	0.01	0.00	0.00	25.99
rs61044623	O-sulfo-l- tyrosine levels	GCST90199959	4	175681135	A	G	8229	-0.29	0.06	0.00	0.00	24.07
rs150384476	O-sulfo-l- tyrosine levels	GCST90199959	5	42771725	A	G	8229	-0.51	0.11	0.00	0.00	22.28
rs6883732	O-sulfo-l- tyrosine levels	GCST90199959	5	96619600	G	T	8229	-0.17	0.04	0.00	0.00	20.07
rs59527895	O-sulfo-l- tyrosine levels	GCST90199959	6	13348024	T	C	8229	0.14	0.03	0.00	0.00	21.69
rs9476609	O-sulfo-l- tyrosine levels	GCST90199959	6	14592829	A	C	8229	-0.09	0.02	0.00	0.00	20.44
rs150259525	O-sulfo-l- tyrosine levels	GCST90199959	6	44611762	A	G	8229	-0.20	0.04	0.00	0.00	26.04
rs9345007	O-sulfo-l- tyrosine levels	GCST90199959	6	90369412	A	G	8229	-0.07	0.02	0.00	0.00	19.68

rs55839409	O-sulfo-l-tyrosine levels	GCST90199959	8	18914353	G	A	8229	0.08	0.02	0.00	0.00	21.64
rs41434450	O-sulfo-l-tyrosine levels	GCST90199959	8	100634162	A	G	8229	0.12	0.03	0.00	0.00	22.99
rs600038	O-sulfo-l-tyrosine levels	GCST90199959	9	133276354	T	C	8229	0.11	0.02	0.00	0.00	36.38
rs1506925	O-sulfo-l-tyrosine levels	GCST90199959	12	61191667	C	G	8229	0.11	0.02	0.00	0.00	20.87
rs11115598	O-sulfo-l-tyrosine levels	GCST90199959	12	83116296	A	G	8229	0.08	0.02	0.00	0.00	22.38
rs11067612	O-sulfo-l-tyrosine levels	GCST90199959	12	115477978	T	A	8229	-0.09	0.02	0.00	0.00	27.54
rs4769933	O-sulfo-l-tyrosine levels	GCST90199959	13	20001994	T	A	8229	-0.10	0.02	0.00	0.00	21.04
rs77924615	O-sulfo-l-tyrosine levels	GCST90199959	16	20381010	A	G	8229	-0.10	0.02	0.00	0.00	27.71
rs73287372	O-sulfo-l-tyrosine levels	GCST90199959	17	1303043	T	C	8229	-0.26	0.06	0.00	0.00	20.52
rs61762763	O-sulfo-l-tyrosine levels	GCST90199959	17	66774499	C	T	8229	-0.18	0.04	0.00	0.00	21.87
rs147754695	O-sulfo-l-tyrosine levels	GCST90199959	17	79046845	A	G	8229	-0.29	0.06	0.00	0.00	19.74
rs74003912	O-sulfo-l-tyrosine levels	GCST90199959	17	80475411	A	G	8229	-0.08	0.02	0.00	0.00	20.14
rs111976569	O-sulfo-l-tyrosine levels	GCST90199959	18	79100197	C	T	8229	-0.27	0.06	0.00	0.00	19.55
rs113540052	O-sulfo-l-tyrosine levels	GCST90199959	20	48759870	T	C	8229	0.28	0.06	0.00	0.00	21.15
rs6151429	O-sulfo-l-tyrosine levels	GCST90199959	22	50625049	C	T	8229	0.29	0.03	0.00	0.01	102.01
rs1228858	formylanthranilic acid levels	GCST90199960	1	58397381	T	C	7534	0.14	0.03	0.00	0.00	23.76
rs28751997	formylanthranilic acid levels	GCST90199960	1	109787834	A	G	7534	0.24	0.05	0.00	0.00	20.89
rs61815638	formylanthranilic acid levels	GCST90199960	1	195176813	T	C	7534	-0.31	0.07	0.00	0.00	20.41
rs74466119	formylanthranilic acid levels	GCST90199960	1	243581607	G	A	7534	0.29	0.06	0.00	0.00	22.26
rs3845642	formylanthranilic acid levels	GCST90199960	2	143041434	A	G	7534	-0.15	0.02	0.00	0.01	70.11
rs11918653	formylanthranilic acid levels	GCST90199960	3	8687020	C	T	7534	0.08	0.02	0.00	0.00	19.91
rs13100640	formylanthranilic acid levels	GCST90199960	3	45799265	G	A	7534	0.08	0.02	0.00	0.00	21.44
rs56213430	formylanthranilic acid levels	GCST90199960	3	151799215	A	C	7534	0.11	0.02	0.00	0.00	24.40
rs11941860	formylanthranilic acid levels	GCST90199960	4	46080161	T	C	7534	0.11	0.02	0.00	0.00	19.91
rs28733303	formylanthranilic acid levels	GCST90199960	4	135260473	A	G	7534	-0.17	0.04	0.00	0.00	19.97
rs141225058	formylanthranilic acid levels	GCST90199960	4	143310026	G	A	7534	0.26	0.06	0.00	0.00	20.84
rs11242196	formylanthranilic acid levels	GCST90199960	5	133887394	G	A	7534	0.12	0.02	0.00	0.00	21.74
rs369791636	formylanthranilic acid levels	GCST90199960	5	151130726	A	G	7534	-0.22	0.05	0.00	0.00	19.86
rs75317579	formylanthranilic acid levels	GCST90199960	6	111481539	C	T	7534	0.26	0.05	0.00	0.00	25.85

rs12699933	N-formylanthranilic acid levels	GCST90199960	7	17974805	A	T	7534	0.13	0.03	0.00	0.00	24.16
rs18990882	N-formylanthranilic acid levels	GCST90199960	7	134685604	A	T	7534	0.35	0.08	0.00	0.00	19.79
rs117356396	N-formylanthranilic acid levels	GCST90199960	11	1400430	T	C	7534	0.21	0.05	0.00	0.00	21.42
rs12894344	N-formylanthranilic acid levels	GCST90199960	14	22118209	T	C	7534	0.08	0.02	0.00	0.00	20.64
rs8014071	N-formylanthranilic acid levels	GCST90199960	14	53964782	G	A	7534	-0.08	0.02	0.00	0.00	24.98
rs12915406	N-formylanthranilic acid levels	GCST90199960	15	36275667	A	G	7534	0.17	0.03	0.00	0.00	24.61
rs114244769	N-formylanthranilic acid levels	GCST90199960	17	31598750	A	G	7534	0.30	0.07	0.00	0.00	21.31
rs149897791	N-formylanthranilic acid levels	GCST90199960	17	78122462	T	C	7534	0.28	0.06	0.00	0.00	22.04
rs1811086	N-formylanthranilic acid levels	GCST90199960	17	78176941	A	G	7534	-0.21	0.05	0.00	0.00	20.27
rs72897835	N-formylanthranilic acid levels	GCST90199960	17	78202449	G	T	7534	0.82	0.02	0.00	0.13	#####
rs74509183	N-formylanthranilic acid levels	GCST90199960	20	7441165	G	A	7534	0.23	0.05	0.00	0.00	20.03
rs17416550	Methionine sulfone levels	GCST90199961	1	81158809	A	G	8254	0.18	0.04	0.00	0.00	19.72
rs72700111	Methionine sulfone levels	GCST90199961	1	170221268	A	G	8254	-0.14	0.03	0.00	0.00	22.28
rs10201159	Methionine sulfone levels	GCST90199961	2	73631838	C	T	8254	-0.43	0.02	0.00	0.08	675.15
rs34484301	Methionine sulfone levels	GCST90199961	2	242087422	C	A	8254	0.28	0.06	0.00	0.00	20.97
rs113918643	Methionine sulfone levels	GCST90199961	3	45809967	C	T	8254	-0.13	0.02	0.00	0.00	26.02
rs11130546	Methionine sulfone levels	GCST90199961	3	56733425	A	C	8254	0.10	0.02	0.00	0.00	19.99
rs62287171	Methionine sulfone levels	GCST90199961	3	193591095	T	G	8254	-0.10	0.02	0.00	0.00	23.78
rs11133665	Methionine sulfone levels	GCST90199961	5	1188170	A	G	8254	0.18	0.02	0.00	0.02	134.45
rs7718900	Methionine sulfone levels	GCST90199961	5	1224059	C	T	8254	0.08	0.02	0.00	0.00	23.07
rs9969052	Methionine sulfone levels	GCST90199961	6	156950707	G	C	8254	0.07	0.02	0.00	0.00	20.00
rs139380031	Methionine sulfone levels	GCST90199961	7	99314204	A	C	8254	0.23	0.05	0.00	0.00	22.14
rs62471956	Methionine sulfone levels	GCST90199961	7	99823462	A	G	8254	-0.23	0.03	0.00	0.01	48.40
rs6980809	Methionine sulfone levels	GCST90199961	8	72083500	T	C	8254	0.08	0.02	0.00	0.00	22.40
rs28715878	Methionine sulfone levels	GCST90199961	8	138921201	G	C	8254	-0.16	0.04	0.00	0.00	19.86
rs3934638	Methionine sulfone levels	GCST90199961	9	88956023	T	C	8254	0.07	0.01	0.00	0.00	23.69
rs61762011	Methionine sulfone levels	GCST90199961	11	17134247	T	C	8254	-0.10	0.02	0.00	0.00	23.80
rs75967483	Methionine sulfone levels	GCST90199961	11	119685809	T	C	8254	-0.18	0.04	0.00	0.00	20.25
rs12222197	Methionine sulfone levels	GCST90199961	11	125955329	T	G	8254	0.07	0.02	0.00	0.00	20.43
rs762718	Methionine sulfone levels	GCST90199961	12	11791394	G	A	8254	-0.07	0.01	0.00	0.00	21.18
rs6580847	Methionine sulfone levels	GCST90199961	12	51858554	A	G	8254	0.08	0.02	0.00	0.00	21.97

rs77944838	Methionine sulfone levels	GCST90199961	12	92065254	C	T	8254	0.16	0.03	0.00	0.00	23.71
rs12716675	Methionine sulfone levels	GCST90199961	13	20323817	C	T	8254	0.08	0.02	0.00	0.00	20.94
rs9555884	Methionine sulfone levels	GCST90199961	13	89400359	G	C	8254	0.16	0.04	0.00	0.00	20.70
rs11568438	Methionine sulfone levels	GCST90199961	14	22813127	A	G	8254	-0.34	0.05	0.00	0.01	43.85
rs72676908	Methionine sulfone levels	GCST90199961	14	31729857	C	T	8254	0.24	0.05	0.00	0.00	20.56
rs146913943	Methionine sulfone levels	GCST90199961	14	42712511	A	G	8254	-0.23	0.05	0.00	0.00	20.19
rs3803304	Methionine sulfone levels	GCST90199961	14	104772809	G	C	8254	0.07	0.02	0.00	0.00	20.48
rs34941228	Methionine sulfone levels	GCST90199961	15	38414803	G	A	8254	0.20	0.04	0.00	0.00	22.77
rs28572423	Methionine sulfone levels	GCST90199961	15	75764832	C	G	8254	-0.09	0.02	0.00	0.00	19.55
rs4785580	Methionine sulfone levels	GCST90199961	16	89633120	G	A	8254	0.10	0.01	0.00	0.01	42.04
rs4390625	Methionine sulfone levels	GCST90199961	17	39464094	G	A	8254	-0.15	0.02	0.00	0.01	81.17
rs11869583	Methionine sulfone levels	GCST90199961	17	80277074	A	C	8254	-0.07	0.01	0.00	0.00	20.47
rs73486205	Methionine sulfone levels	GCST90199961	18	77252046	A	G	8254	-0.22	0.05	0.00	0.00	22.64
rs77722234	Methionine sulfone levels	GCST90199961	19	6945897	C	T	8254	-0.17	0.04	0.00	0.00	22.27
rs10422369	Methionine sulfone levels	GCST90199961	19	32872135	T	C	8254	0.10	0.01	0.00	0.01	50.12
rs72629155	Methionine sulfone levels	GCST90199961	19	56641586	T	G	8254	-0.20	0.04	0.00	0.00	22.60
rs73201601	Methionine sulfone levels	GCST90199961	21	16905124	T	A	8254	0.07	0.01	0.00	0.00	21.07
rs12743954	Acisoga levels	GCST90199962	1	217063637	C	T	7489	-0.17	0.04	0.00	0.00	19.73
rs35405682	Acisoga levels	GCST90199962	2	34666761	G	A	7489	0.08	0.02	0.00	0.00	19.84
rs62256379	Acisoga levels	GCST90199962	3	67407153	T	G	7489	-0.08	0.02	0.00	0.00	23.09
rs12494563	Acisoga levels	GCST90199962	3	168228698	C	A	7489	0.13	0.03	0.00	0.00	21.40
rs111851590	Acisoga levels	GCST90199962	4	42288734	G	A	7489	-0.12	0.02	0.00	0.00	26.25
rs145908156	Acisoga levels	GCST90199962	4	160100632	G	A	7489	0.52	0.11	0.00	0.00	22.03
rs12512614	Acisoga levels	GCST90199962	4	184399962	T	G	7489	-0.09	0.02	0.00	0.00	20.49
rs35192726	Acisoga levels	GCST90199962	6	148317920	T	G	7489	0.09	0.02	0.00	0.00	22.18
rs80254170	Acisoga levels	GCST90199962	6	160093251	G	A	7489	-0.22	0.03	0.00	0.01	52.77
rs662138	Acisoga levels	GCST90199962	6	160143444	G	C	7489	-0.20	0.02	0.00	0.01	93.53
rs1049742	Acisoga levels	GCST90199962	7	150857465	T	C	7489	-0.27	0.03	0.00	0.01	81.27
rs17069676	Acisoga levels	GCST90199962	8	4236510	C	T	7489	0.16	0.03	0.00	0.00	23.13
rs2157649	Acisoga levels	GCST90199962	8	17874879	G	A	7489	-0.24	0.05	0.00	0.00	23.27
rs80208883	Acisoga levels	GCST90199962	8	57844698	T	G	7489	-0.20	0.04	0.00	0.00	24.18
rs10102996	Acisoga levels	GCST90199962	8	140195218	C	T	7489	-0.09	0.02	0.00	0.00	20.09
rs77564668	Acisoga levels	GCST90199962	10	18491639	G	A	7489	0.60	0.13	0.00	0.00	22.44
rs2995330	Acisoga levels	GCST90199962	10	133290513	G	A	7489	0.15	0.03	0.00	0.00	22.64
rs11101731	Acisoga levels	GCST90199962	10	133383872	A	G	7489	0.35	0.03	0.00	0.02	145.41
rs56273416	Acisoga levels	GCST90199962	11	71639475	T	C	7489	-0.42	0.08	0.00	0.00	25.37
rs71460363	Acisoga levels	GCST90199962	12	96877137	A	G	7489	0.08	0.02	0.00	0.00	21.04
rs78392896	Acisoga levels	GCST90199962	14	71926923	C	T	7489	0.15	0.03	0.00	0.00	21.18
rs4134376	Acisoga levels	GCST90199962	15	85885026	G	A	7489	0.13	0.03	0.00	0.00	21.18
rs34622244	Acisoga levels	GCST90199962	17	5045783	A	T	7489	-0.16	0.02	0.00	0.01	69.71
rs56113850	Acisoga levels	GCST90199962	19	40847202	C	T	7489	-0.10	0.02	0.00	0.01	37.93
rs657499	Acisoga levels	GCST90199962	20	772824	A	C	7489	-0.11	0.02	0.00	0.00	26.55
rs140946718	Acisoga levels	GCST90199962	22	16631880	A	C	7489	-0.35	0.08	0.00	0.00	19.73
rs2433279	17alpha-hydroxypregnanolone glucuronide levels	GCST90199963	1	93442352	G	T	5582	-0.11	0.02	0.00	0.00	20.23
rs191145320	17alpha-hydroxypregnanolone glucuronide levels	GCST90199963	1	215799793	T	C	5582	-0.30	0.07	0.00	0.00	20.05

rs12989207	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	2	64969340	T	C	5582	0.11	0.02	0.00	0.00	22.51
rs1574706	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	2	137712774	G	A	5582	0.22	0.05	0.00	0.00	19.61
rs17678628	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	2	143803805	C	T	5582	0.20	0.04	0.00	0.00	24.08
rs114891569	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	3	87807096	T	G	5582	0.52	0.10	0.00	0.01	28.19
rs113723915	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	3	103407164	C	T	5582	0.14	0.03	0.00	0.00	20.16
rs145323940	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	3	122092166	C	T	5582	-0.35	0.08	0.00	0.00	20.95
rs73194752	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	4	4912851	T	C	5582	-0.10	0.02	0.00	0.00	21.24
rs753255	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	4	56226480	T	A	5582	-0.07	0.02	0.00	0.00	19.69
rs62315354	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	4	67123598	T	A	5582	0.11	0.02	0.00	0.00	20.20
rs37482	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	5	90545529	A	G	5582	0.11	0.02	0.00	0.00	22.12
rs4713420	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	6	31025790	T	G	5582	-0.10	0.02	0.00	0.00	22.69
rs1000136	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	7	157851429	T	C	5582	-0.07	0.02	0.00	0.00	22.05
rs149001017	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	8	53902104	A	G	5582	0.62	0.14	0.00	0.00	20.02
rs4961068	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	8	86065301	G	C	5582	-0.07	0.02	0.00	0.00	20.68

rs2468872	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	8	113921399	A	G	5582	-0.08	0.02	0.00	0.00	23.18
rs10814884	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	9	4209822	G	C	5582	-0.08	0.02	0.00	0.00	20.99
rs14732078 0	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	9	96375135	C	G	5582	-0.18	0.04	0.00	0.00	19.63
rs9527	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	10	102863821	T	C	5582	0.09	0.02	0.00	0.00	24.80
rs60865673	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	11	45598095	C	T	5582	0.12	0.03	0.00	0.00	20.06
rs14213142 1	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	11	63050913	A	G	5582	0.68	0.03	0.00	0.09	548.60
rs540582	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	11	63312298	C	T	5582	-0.10	0.02	0.00	0.01	39.78
rs11519067	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	12	21259469	T	A	5582	0.11	0.02	0.00	0.00	25.82
rs12372336	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	12	43005377	G	T	5582	-0.08	0.02	0.00	0.00	19.91
rs61983784	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	14	49883253	T	A	5582	-0.11	0.02	0.00	0.00	20.39
rs18331867 1	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	15	69189694	T	G	5582	0.46	0.09	0.00	0.00	26.19
rs11813415 5	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	15	83839469	C	A	5582	-0.23	0.05	0.00	0.00	23.05
rs7171867	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	15	89891181	G	T	5582	-0.12	0.03	0.00	0.00	20.96
rs17719944	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	17	28402435	G	A	5582	0.13	0.03	0.00	0.00	21.92

rs3785912	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	17	50679576	T	C	5582	-0.08	0.02	0.00	0.00	22.61
rs60628976	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	17	78325352	C	G	5582	0.10	0.02	0.00	0.00	19.99
rs62084022	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	18	3583718	T	C	5582	-0.08	0.02	0.00	0.00	20.80
rs117242229	17alpha-hydroxypregn anolone glucuronide levels	GCST90199963	20	22926079	C	A	5582	-0.28	0.06	0.00	0.00	22.73
rs6698394	Etiocholanolo ne glucuronide levels	GCST90199964	1	42546268	T	C	7821	-0.31	0.06	0.00	0.00	22.95
rs112114309	Etiocholanolo ne glucuronide levels	GCST90199964	1	176273715	A	G	7821	0.17	0.04	0.00	0.00	20.03
rs11119612	Etiocholanolo ne glucuronide levels	GCST90199964	1	210827381	G	C	7821	-0.07	0.02	0.00	0.00	21.36
rs34237495	Etiocholanolo ne glucuronide levels	GCST90199964	1	243469939	A	C	7821	0.16	0.03	0.00	0.00	21.20
rs72794638	Etiocholanolo ne glucuronide levels	GCST90199964	2	31561978	C	T	7821	0.43	0.06	0.00	0.01	59.20
rs138529890	Etiocholanolo ne glucuronide levels	GCST90199964	2	32253285	A	G	7821	0.30	0.04	0.00	0.01	50.75
rs75936454	Etiocholanolo ne glucuronide levels	GCST90199964	3	140331232	T	C	7821	-0.15	0.03	0.00	0.00	20.22
rs113018018	Etiocholanolo ne glucuronide levels	GCST90199964	4	4886170	A	G	7821	-0.10	0.02	0.00	0.00	22.52
rs4694077	Etiocholanolo ne glucuronide levels	GCST90199964	4	68460965	T	C	7821	0.08	0.02	0.00	0.00	20.24
rs72941955	Etiocholanolo ne glucuronide levels	GCST90199964	6	53748151	C	A	7821	-0.31	0.07	0.00	0.00	20.44
rs141909149	Etiocholanolo ne glucuronide levels	GCST90199964	6	76509084	A	C	7821	-0.33	0.07	0.00	0.00	20.05
rs117736840	Etiocholanolo ne glucuronide levels	GCST90199964	7	37464604	T	G	7821	-0.18	0.04	0.00	0.00	22.65
rs148982377	Etiocholanolo ne glucuronide levels	GCST90199964	7	99477415	C	T	7821	-0.30	0.04	0.00	0.01	49.29
rs3857868	Etiocholanolo ne glucuronide levels	GCST90199964	7	138113018	A	T	7821	0.11	0.02	0.00	0.00	32.04
rs141232858	Etiocholanolo ne glucuronide levels	GCST90199964	11	63107062	C	A	7821	0.85	0.03	0.00	0.09	750.70
rs540582	Etiocholanolo ne glucuronide levels	GCST90199964	11	63312298	C	T	7821	-0.12	0.02	0.00	0.01	57.40
rs78320625	Etiocholanolo ne glucuronide levels	GCST90199964	11	85673427	G	A	7821	0.12	0.03	0.00	0.00	19.73
rs17339782	Etiocholanolo ne glucuronide levels	GCST90199964	12	14044206	A	G	7821	-0.28	0.06	0.00	0.00	19.79

rs111975045	Etiocolanolone glucuronide levels	GCST90199964	13	29596299	G	C	7821	-0.30	0.06	0.00	0.00	20.92
rs8042104	Etiocolanolone glucuronide levels	GCST90199964	15	26872890	G	A	7821	-0.09	0.02	0.00	0.00	21.62
rs231620	Etiocolanolone glucuronide levels	GCST90199964	16	4139132	T	C	7821	-0.07	0.02	0.00	0.00	19.55
rs9957928	Etiocolanolone glucuronide levels	GCST90199964	18	393649	C	A	7821	-0.08	0.02	0.00	0.00	24.85
rs113862910	Etiocolanolone glucuronide levels	GCST90199964	21	46120140	G	T	7821	-0.21	0.05	0.00	0.00	20.63
rs28360521	Etiocolanolone glucuronide levels	GCST90199964	22	42132969	T	C	7821	0.09	0.02	0.00	0.00	21.11
rs11264792	Fructosyllysine levels	GCST90199965	1	157672432	T	G	8238	-0.16	0.04	0.00	0.00	19.99
rs142426869	Fructosyllysine levels	GCST90199965	1	170575105	G	A	8238	0.33	0.07	0.00	0.00	22.68
rs6737584	Fructosyllysine levels	GCST90199965	2	124573728	C	T	8238	0.21	0.05	0.00	0.00	19.98
rs150205962	Fructosyllysine levels	GCST90199965	3	143920274	A	G	8238	0.28	0.06	0.00	0.00	22.09
rs79217277	Fructosyllysine levels	GCST90199965	4	44426424	T	C	8238	-0.17	0.04	0.00	0.00	22.05
rs116329419	Fructosyllysine levels	GCST90199965	4	73855252	A	C	8238	0.28	0.06	0.00	0.00	22.06
rs710984	Fructosyllysine levels	GCST90199965	5	3530180	G	A	8238	-0.07	0.02	0.00	0.00	19.71
rs183632075	Fructosyllysine levels	GCST90199965	5	112038041	C	G	8238	0.41	0.09	0.00	0.00	20.46
rs10055120	Fructosyllysine levels	GCST90199965	5	138256577	T	C	8238	-0.11	0.02	0.00	0.00	28.16
rs9986385	Fructosyllysine levels	GCST90199965	6	10424700	C	T	8238	-0.08	0.02	0.00	0.00	22.53
rs7742769	Fructosyllysine levels	GCST90199965	6	117787777	C	T	8238	-0.07	0.02	0.00	0.00	21.04
rs12534169	Fructosyllysine levels	GCST90199965	7	75959027	C	G	8238	0.22	0.04	0.00	0.00	26.31
rs185093565	Fructosyllysine levels	GCST90199965	7	91028031	C	A	8238	-0.19	0.04	0.00	0.00	22.06
rs111557696	Fructosyllysine levels	GCST90199965	7	110662625	G	A	8238	0.30	0.07	0.00	0.00	20.87
rs75966373	Fructosyllysine levels	GCST90199965	9	12212751	A	G	8238	-0.13	0.03	0.00	0.00	21.49
rs73414910	Fructosyllysine levels	GCST90199965	11	8014702	C	G	8238	0.13	0.02	0.00	0.00	27.40
rs76409265	Fructosyllysine levels	GCST90199965	11	12046457	T	C	8238	-0.46	0.09	0.00	0.00	24.70
rs489379	Fructosyllysine levels	GCST90199965	11	57166758	A	G	8238	-0.08	0.02	0.00	0.00	19.53
rs76693359	Fructosyllysine levels	GCST90199965	11	66882126	G	T	8238	0.13	0.03	0.00	0.00	19.74
rs10736469	Fructosyllysine levels	GCST90199965	11	113547500	A	G	8238	0.07	0.02	0.00	0.00	20.36
rs7323613	Fructosyllysine levels	GCST90199965	13	41007530	A	C	8238	0.10	0.02	0.00	0.00	25.03
rs4887561	Fructosyllysine levels	GCST90199965	15	27156589	A	T	8238	0.10	0.02	0.00	0.00	19.71
rs61746174	Fructosyllysine levels	GCST90199965	15	93813137	A	C	8238	0.36	0.08	0.00	0.00	20.81
rs151240411	Fructosyllysine levels	GCST90199965	16	60307346	A	G	8238	-0.22	0.05	0.00	0.00	21.28
rs12938026	Fructosyllysine levels	GCST90199965	17	70585865	C	T	8238	0.07	0.02	0.00	0.00	19.77
rs2304101	Fructosyllysine levels	GCST90199965	19	32976181	C	A	8238	0.08	0.02	0.00	0.00	23.57
rs117393866	Fructosyllysine levels	GCST90199965	22	27271684	A	G	8238	-0.24	0.05	0.00	0.00	20.00

rs9428344	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	1	116274077	T	C	8157	-0.07	0.02	0.00	0.00	19.59
rs4445527	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	1	147234100	A	T	8157	0.14	0.03	0.00	0.00	21.71
rs10800439	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	1	169361801	C	G	8157	0.07	0.02	0.00	0.00	20.21
rs79879479	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	1	209064312	C	T	8157	0.19	0.04	0.00	0.00	21.17
rs62130720	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	2	27358383	A	G	8157	0.26	0.06	0.00	0.00	20.20
rs9291418	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	4	20865837	G	A	8157	0.08	0.02	0.00	0.00	19.59
rs1502744	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	4	159584123	G	A	8157	0.07	0.02	0.00	0.00	19.53
rs111296862	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	5	20037130	A	G	8157	-0.25	0.06	0.00	0.00	19.96
rs11952631	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	5	110341764	C	A	8157	0.13	0.03	0.00	0.00	21.15
rs144005917	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	6	6345382	G	A	8157	-0.27	0.06	0.00	0.00	21.15
rs13268364	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	8	22849561	T	C	8157	-0.08	0.02	0.00	0.00	20.19
rs1322131	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	9	14017186	C	A	8157	0.07	0.02	0.00	0.00	20.28
rs2212765	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	11	86930705	A	G	8157	0.10	0.02	0.00	0.00	22.25
rs7992540	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	13	100923550	C	T	8157	-0.08	0.02	0.00	0.00	20.16
rs117307244	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	15	79685996	C	T	8157	-0.27	0.06	0.00	0.00	19.53
rs7174584	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	15	94021685	G	C	8157	0.08	0.02	0.00	0.00	20.26
rs189545437	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	16	69151063	G	A	8157	-1.00	0.19	0.00	0.00	29.38
rs2996024	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	17	13441912	C	T	8157	-0.08	0.02	0.00	0.00	20.54
rs76668835	1-(1-enyl-oleoyl)-GPE (p-18:1) levels	GCST90199966	20	59196746	T	C	8157	0.17	0.04	0.00	0.00	21.81
rs7566439	N-acetyltaurine	GCST90199967	2	43027357	G	A	8160	-0.07	0.01	0.00	0.00	19.86
rs56213137	N-acetyltaurine	GCST90199967	2	124586777	G	A	8160	0.07	0.02	0.00	0.00	20.92
rs143013804	N-acetyltaurine	GCST90199967	3	44843302	A	G	8160	0.26	0.06	0.00	0.00	19.74
rs373188	N-acetyltaurine	GCST90199967	3	120792643	T	G	8160	0.07	0.01	0.00	0.00	25.68
rs7654754	N-acetyltaurine	GCST90199967	4	76488642	A	G	8160	0.07	0.01	0.00	0.00	20.56
rs10019154	N-acetyltaurine	GCST90199967	4	113208039	A	T	8160	0.07	0.01	0.00	0.00	21.70
rs73850513	N-acetyltaurine	GCST90199967	4	138310588	T	C	8160	-0.11	0.02	0.00	0.00	21.21
rs200354496	N-acetyltaurine	GCST90199967	6	86809966	G	A	8160	0.08	0.02	0.00	0.00	21.10

rs74816231	N-acetyltaurine	GCST90199967	6	105041309	C	T	8160	0.12	0.03	0.00	0.00	20.40
rs4986782	N-acetyltaurine	GCST90199967	8	18222607	A	G	8160	-0.42	0.05	0.00	0.01	63.25
rs77338333	N-acetyltaurine	GCST90199967	9	129907338	C	A	8160	0.29	0.06	0.00	0.00	25.80
rs10795395	N-acetyltaurine	GCST90199967	10	16440482	G	C	8160	-0.21	0.01	0.00	0.03	220.66
rs6602129	N-acetyltaurine	GCST90199967	10	16513333	G	A	8160	-0.31	0.03	0.00	0.02	141.82
rs897109	N-acetyltaurine	GCST90199967	11	8347745	A	C	8160	0.07	0.02	0.00	0.00	20.44
rs11724156	N-acetyltaurine	GCST90199967	12	26243812	A	G	8160	0.23	0.05	0.00	0.00	23.89
rs11805814	N-acetyltaurine	GCST90199967	14	35683598	C	T	8160	-0.25	0.05	0.00	0.00	22.06
rs14341843	N-acetyltaurine	GCST90199967	15	82215950	C	G	8160	-0.27	0.05	0.00	0.00	27.39
rs2388417	N-acetyltaurine	GCST90199967	15	93847991	T	C	8160	0.26	0.06	0.00	0.00	20.18
rs13974729	N-acetyltaurine	GCST90199967	15	96029806	A	G	8160	0.28	0.06	0.00	0.00	19.59
rs77924615	N-acetyltaurine	GCST90199967	16	20381010	A	G	8160	-0.10	0.02	0.00	0.00	26.81
rs14230253	N-acetyltaurine	GCST90199967	18	46559218	G	T	8160	-0.46	0.09	0.00	0.00	23.78
rs12977772	N-acetyltaurine	GCST90199967	19	18564335	T	G	8160	-0.09	0.02	0.00	0.00	22.60
rs72641545	GPG (16:0) levels	GCST90199968	1	8944061	G	A	7708	-0.13	0.03	0.00	0.00	24.29
rs14345077	1-palmitoyl-GPG (16:0) levels	GCST90199968	1	161600751	A	G	7708	0.17	0.04	0.00	0.00	21.79
rs10172619	1-palmitoyl-GPG (16:0) levels	GCST90199968	2	173867531	A	G	7708	-0.12	0.03	0.00	0.00	24.54
rs28402946	1-palmitoyl-GPG (16:0) levels	GCST90199968	3	122321733	C	T	7708	0.11	0.02	0.00	0.00	21.04
rs521956	1-palmitoyl-GPG (16:0) levels	GCST90199968	3	173400185	C	T	7708	-0.07	0.02	0.00	0.00	20.06
rs78955404	1-palmitoyl-GPG (16:0) levels	GCST90199968	3	197505564	A	G	7708	0.34	0.07	0.00	0.00	21.31
rs14538204	1-palmitoyl-GPG (16:0) levels	GCST90199968	4	165462654	T	C	7708	-0.31	0.07	0.00	0.00	21.46
rs702694	1-palmitoyl-GPG (16:0) levels	GCST90199968	5	57622327	C	T	7708	-0.09	0.02	0.00	0.00	19.59
rs72797099	1-palmitoyl-GPG (16:0) levels	GCST90199968	5	136431684	G	T	7708	0.25	0.06	0.00	0.00	19.97
rs14840985	1-palmitoyl-GPG (16:0) levels	GCST90199968	6	32261264	A	G	7708	0.32	0.07	0.00	0.00	21.86
rs10261617	1-palmitoyl-GPG (16:0) levels	GCST90199968	7	55648650	A	G	7708	0.08	0.02	0.00	0.00	19.97
rs3800603	1-palmitoyl-GPG (16:0) levels	GCST90199968	7	139070258	G	A	7708	0.11	0.02	0.00	0.00	19.70
rs10816970	1-palmitoyl-GPG (16:0) levels	GCST90199968	9	110316145	T	C	7708	0.09	0.02	0.00	0.00	21.72
rs8181659	1-palmitoyl-GPG (16:0) levels	GCST90199968	12	20774489	G	T	7708	-0.08	0.02	0.00	0.00	25.14
rs11519272	1-palmitoyl-GPG (16:0) levels	GCST90199968	12	21209458	A	C	7708	0.25	0.02	0.00	0.02	139.56

rs11609632	1-palmitoyl-GPG (16:0) levels	GCST90199968	12	94929167	C	G	7708	0.15	0.03	0.00	0.00	22.92
rs1601935	1-palmitoyl-GPG (16:0) levels	GCST90199968	15	58379566	T	G	7708	-0.12	0.02	0.00	0.01	45.74
rs72742842	1-palmitoyl-GPG (16:0) levels	GCST90199968	15	65972785	T	C	7708	-0.31	0.07	0.00	0.00	22.48
rs9904912	1-palmitoyl-GPG (16:0) levels	GCST90199968	17	9252223	T	C	7708	0.09	0.02	0.00	0.00	20.18
rs2337142	1-palmitoyl-GPG (16:0) levels	GCST90199968	18	48807915	C	A	7708	0.14	0.03	0.00	0.00	19.58
rs1942878	1-palmitoyl-GPG (16:0) levels	GCST90199968	18	60117979	T	G	7708	0.22	0.05	0.00	0.00	22.90
rs11666309	1-palmitoyl-GPG (16:0) levels	GCST90199968	19	17340378	G	A	7708	0.08	0.02	0.00	0.00	21.22
rs117888313	1-palmitoyl-GPG (16:0) levels	GCST90199968	20	8512831	C	T	7708	0.28	0.06	0.00	0.00	20.92
rs5749104	1-palmitoyl-GPG (16:0) levels	GCST90199968	22	30461461	G	A	7708	0.08	0.02	0.00	0.00	21.70
rs12409617	1-oleoyl-GPG (18:1) levels	GCST90199969	1	105980321	C	T	6990	-0.21	0.05	0.00	0.00	19.67
rs12411221	1-oleoyl-GPG (18:1) levels	GCST90199969	1	193239961	A	T	6990	-0.32	0.07	0.00	0.00	20.91
rs112645282	1-oleoyl-GPG (18:1) levels	GCST90199969	1	246599388	A	G	6990	-0.27	0.06	0.00	0.00	19.54
rs116534601	1-oleoyl-GPG (18:1) levels	GCST90199969	2	169860542	C	T	6990	-0.36	0.08	0.00	0.00	21.24
rs10174074	1-oleoyl-GPG (18:1) levels	GCST90199969	2	220965881	T	C	6990	-0.19	0.04	0.00	0.00	22.56
rs16879719	1-oleoyl-GPG (18:1) levels	GCST90199969	5	52411374	A	G	6990	-0.13	0.03	0.00	0.00	19.75
rs113949377	1-oleoyl-GPG (18:1) levels	GCST90199969	5	78791377	A	G	6990	0.27	0.06	0.00	0.00	19.54
rs28362590	1-oleoyl-GPG (18:1) levels	GCST90199969	5	177304451	T	G	6990	0.11	0.02	0.00	0.00	30.97
rs12190462	1-oleoyl-GPG (18:1) levels	GCST90199969	6	98110711	A	G	6990	0.28	0.06	0.00	0.00	22.47
rs17161018	1-oleoyl-GPG (18:1) levels	GCST90199969	7	86815615	A	G	6990	-0.12	0.03	0.00	0.00	21.64
rs7795621	1-oleoyl-GPG (18:1) levels	GCST90199969	7	97260651	C	T	6990	-0.08	0.02	0.00	0.00	19.92
rs7017185	1-oleoyl-GPG (18:1) levels	GCST90199969	8	23535889	G	A	6990	0.20	0.04	0.00	0.00	28.69
rs10511931	1-oleoyl-GPG (18:1) levels	GCST90199969	9	36697738	G	A	6990	-0.09	0.02	0.00	0.00	20.64
rs13301423	1-oleoyl-GPG (18:1) levels	GCST90199969	9	102032762	A	G	6990	0.42	0.09	0.00	0.00	20.77
rs4762697	1-oleoyl-GPG (18:1) levels	GCST90199969	12	21162039	T	A	6990	0.15	0.02	0.00	0.01	65.44
rs4149056	1-oleoyl-GPG (18:1) levels	GCST90199969	12	21178615	C	T	6990	0.46	0.02	0.00	0.06	442.67
rs17318883	1-oleoyl-GPG (18:1) levels	GCST90199969	12	108127464	A	G	6990	0.19	0.04	0.00	0.00	24.64
rs78811402	1-oleoyl-GPG (18:1) levels	GCST90199969	15	38069697	T	C	6990	0.20	0.04	0.00	0.00	21.43
rs12708454	1-oleoyl-GPG (18:1) levels	GCST90199969	15	58400003	C	A	6990	0.08	0.02	0.00	0.00	19.79
rs77604948	1-oleoyl-GPG (18:1) levels	GCST90199969	16	8760068	T	C	6990	0.28	0.06	0.00	0.00	20.01
rs80057761	1-oleoyl-GPG (18:1) levels	GCST90199969	16	60284263	G	A	6990	-0.28	0.06	0.00	0.00	19.82
rs72820043	1-oleoyl-GPG (18:1) levels	GCST90199969	17	9676983	T	C	6990	-0.43	0.09	0.00	0.00	23.37
rs12019094	1-oleoyl-GPG (18:1) levels	GCST90199969	18	23093947	G	A	6990	-0.17	0.04	0.00	0.00	20.20

rs17594575	1-oleoyl-GPG (18:1) levels	GCST90199969	19	31775997	C	A	6990	0.27	0.06	0.00	0.00	20.14
rs2431410	1-oleoyl-GPG (18:1) levels	GCST90199969	19	40863628	A	C	6990	0.14	0.03	0.00	0.00	19.98
rs6053834	1-oleoyl-GPG (18:1) levels	GCST90199969	20	6025882	C	A	6990	0.14	0.03	0.00	0.00	29.39
rs4675357	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	2	203675250	A	G	8245	0.13	0.03	0.00	0.00	19.85
rs13084636	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	3	64428579	T	C	8245	0.18	0.04	0.00	0.00	21.11
rs17740078	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	4	65034422	T	G	8245	-0.10	0.02	0.00	0.00	20.72
rs3736455	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	4	186201165	G	T	8245	0.08	0.02	0.00	0.00	24.59
rs11407132 4	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	5	7186778	G	A	8245	0.29	0.07	0.00	0.00	19.70
rs56645444 3	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	7	2887490	A	G	8245	-0.26	0.05	0.00	0.00	24.04
rs1859792	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	7	76159946	C	T	8245	0.09	0.02	0.00	0.00	31.58
rs11808540 7	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	8	64312115	T	G	8245	0.17	0.04	0.00	0.00	22.68
rs14950414 0	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	9	116606416	C	T	8245	-0.38	0.09	0.00	0.00	19.94
rs11802717 1	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	11	74150560	C	A	8245	0.17	0.04	0.00	0.00	21.81
rs4762697	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	12	21162039	T	A	8245	0.20	0.02	0.00	0.02	138.56
rs4149056	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	12	21178615	C	T	8245	0.56	0.02	0.00	0.09	832.83
rs7975464	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	12	118477296	A	G	8245	-0.08	0.02	0.00	0.00	20.87
rs58231493	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	14	73565418	T	C	8245	-0.07	0.02	0.00	0.00	22.90
rs61990264	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	14	77078514	T	C	8245	-0.22	0.04	0.00	0.00	28.10
rs72765248	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	15	97495162	T	G	8245	0.10	0.02	0.00	0.00	24.36
rs14750952 6	Octadecenedio ylcarnitine (C18:1-DC) levels	GCST90199970	19	15665520	T	C	8245	0.33	0.06	0.00	0.00	25.53

rs79400241	Octadecenedio ylcarnitine (C18:1-DC) levels 3-	GCST90199970	19	15873592	G	C	8245	-0.15	0.02	0.00	0.01	86.46
rs11581518	methylglutaryl carnitine (2) levels 3-	GCST90199971	1	53206356	G	A	8220	-0.14	0.02	0.00	0.01	66.76
rs57794103	methylglutaryl carnitine (2) levels 3-	GCST90199971	1	85486216	G	T	8220	-0.14	0.03	0.00	0.00	19.67
rs1260326	methylglutaryl carnitine (2) levels 3-	GCST90199971	2	27508073	C	T	8220	-0.08	0.01	0.00	0.00	28.27
rs11672521 5	methylglutaryl carnitine (2) levels 3-	GCST90199971	2	141618125	T	G	8220	-0.23	0.05	0.00	0.00	19.72
rs1047891	methylglutaryl carnitine (2) levels 3-	GCST90199971	2	210675783	A	C	8220	0.31	0.02	0.00	0.05	408.24
rs7564850	methylglutaryl carnitine (2) levels 3-	GCST90199971	2	216012268	C	T	8220	-0.23	0.02	0.00	0.01	85.51
rs35494829	methylglutaryl carnitine (2) levels 3-	GCST90199971	3	67375857	C	T	8220	0.16	0.02	0.00	0.01	50.05
rs1795101	methylglutaryl carnitine (2) levels 3-	GCST90199971	3	133371262	T	C	8220	-0.12	0.03	0.00	0.00	20.73
rs2553991	methylglutaryl carnitine (2) levels 3-	GCST90199971	3	187529300	C	T	8220	-0.08	0.02	0.00	0.00	22.02
rs12640426	methylglutaryl carnitine (2) levels 3-	GCST90199971	4	82391745	C	G	8220	-0.08	0.02	0.00	0.00	24.13
rs349271	methylglutaryl carnitine (2) levels 3-	GCST90199971	4	131956214	T	G	8220	-0.09	0.02	0.00	0.00	22.45
rs11238780 2	methylglutaryl carnitine (2) levels 3-	GCST90199971	5	163659380	T	G	8220	0.27	0.05	0.00	0.00	28.26
rs78559782	methylglutaryl carnitine (2) levels 3-	GCST90199971	6	7963188	T	C	8220	-0.53	0.11	0.00	0.00	22.22
rs12208357	methylglutaryl carnitine (2) levels 3-	GCST90199971	6	160122116	T	C	8220	0.28	0.03	0.00	0.01	94.63
rs11753995	methylglutaryl carnitine (2) levels 3-	GCST90199971	6	160154334	A	G	8220	0.17	0.02	0.00	0.01	72.25
rs78858487	methylglutaryl carnitine (2) levels 3-	GCST90199971	8	41322126	A	G	8220	0.21	0.05	0.00	0.00	19.71
rs2297442	methylglutaryl carnitine (2) levels	GCST90199971	9	6540540	C	T	8220	-0.11	0.02	0.00	0.01	44.65

rs1755618	3- methylglutaryl carnitine (2) levels	GCST90199971	9	6664708	T	G	8220	-0.36	0.02	0.00	0.03	295.01
rs76516692	3- methylglutaryl carnitine (2) levels	GCST90199971	10	14602040	T	C	8220	0.15	0.03	0.00	0.00	20.43
rs1171614	3- methylglutaryl carnitine (2) levels	GCST90199971	10	59709780	C	T	8220	0.10	0.02	0.00	0.00	31.81
rs10742355	3- methylglutaryl carnitine (2) levels	GCST90199971	11	4647661	C	A	8220	-0.08	0.02	0.00	0.00	22.92
rs11212318	3- methylglutaryl carnitine (2) levels	GCST90199971	11	107667518	C	G	8220	0.11	0.03	0.00	0.00	19.69
rs19156878 3	3- methylglutaryl carnitine (2) levels	GCST90199971	12	122780613	G	C	8220	0.21	0.04	0.00	0.00	25.13
rs61945261	3- methylglutaryl carnitine (2) levels	GCST90199971	13	39309826	A	G	8220	-0.08	0.02	0.00	0.00	20.16
rs15114713 4	3- methylglutaryl carnitine (2) levels	GCST90199971	15	64819316	T	A	8220	0.31	0.06	0.00	0.00	26.03
rs4984919	3- methylglutaryl carnitine (2) levels	GCST90199971	16	710298	G	A	8220	0.09	0.02	0.00	0.00	20.91
rs34189307	3- methylglutaryl carnitine (2) levels	GCST90199971	16	76719881	C	A	8220	-0.09	0.02	0.00	0.00	23.02
rs9797274	3- methylglutaryl carnitine (2) levels	GCST90199971	17	10903497	A	T	8220	0.07	0.01	0.00	0.00	19.67
rs11751282 8	3- methylglutaryl carnitine (2) levels	GCST90199971	17	51905385	G	T	8220	-0.18	0.04	0.00	0.00	20.82
rs62069770	3- methylglutaryl carnitine (2) levels	GCST90199971	17	72303963	A	G	8220	-0.07	0.01	0.00	0.00	19.75
rs3092098	3- methylglutaryl carnitine (2) levels	GCST90199971	20	46616207	C	T	8220	-0.11	0.02	0.00	0.00	36.02
rs79097100	3- methylglutaryl carnitine (2) levels	GCST90199971	20	61877209	T	A	8220	-0.23	0.05	0.00	0.00	25.30
rs13046432	3- methylglutaryl carnitine (2) levels	GCST90199971	21	17278334	T	C	8220	-0.09	0.02	0.00	0.00	21.64
rs11591147	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	1	55039974	T	G	8267	-0.25	0.06	0.00	0.00	20.29
rs11669792 4	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	1	173185595	C	T	8267	-0.21	0.04	0.00	0.00	22.83

rs562702624	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	3	51201215	G	A	8267	0.24	0.05	0.00	0.00	19.71
rs67016154	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	3	53539054	A	C	8267	-0.18	0.04	0.00	0.00	22.52
rs9995523	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	4	73526567	C	T	8267	-0.23	0.05	0.00	0.00	23.56
rs6844451	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	4	96264193	G	T	8267	-0.10	0.02	0.00	0.00	21.10
rs62338631	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	4	184262352	C	T	8267	-0.08	0.02	0.00	0.00	23.17
rs112760380	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	5	178848484	T	C	8267	-0.10	0.02	0.00	0.00	19.56
rs2306795	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	5	179796237	C	T	8267	0.07	0.02	0.00	0.00	19.96
rs55846031	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	8	10382902	T	C	8267	-0.23	0.05	0.00	0.00	23.84
rs72708651	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	9	32282466	C	T	8267	-0.17	0.04	0.00	0.00	19.69
rs4149307	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	9	104827463	T	C	8267	0.09	0.02	0.00	0.00	20.23
rs6601893	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	10	5042783	T	C	8267	0.07	0.02	0.00	0.00	20.03
rs138409583	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	11	645763	A	G	8267	0.27	0.06	0.00	0.00	20.04
rs7950505	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	11	19544696	G	A	8267	-0.09	0.02	0.00	0.00	20.86
rs567638900	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	12	22487640	C	G	8267	0.18	0.04	0.00	0.00	19.54
rs35021804	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	12	114577375	T	G	8267	0.25	0.05	0.00	0.00	20.33
rs12905732	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	15	58391343	C	G	8267	0.10	0.02	0.00	0.00	24.90
rs12936152	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	17	12496369	T	G	8267	-0.27	0.06	0.00	0.00	20.57
rs145541747	Sphingomyelin (d18:1/24:1, d18:2/24:0) levels	GCST90199972	17	81001845	T	C	8267	0.24	0.05	0.00	0.00	19.55

rs10914611	Methyl glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	1	32774995	T	G	7973	0.09	0.02	0.00	0.00	19.65
rs35220963	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	1	106404949	A	G	7973	-0.17	0.04	0.00	0.00	22.00
rs73054327	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	1	181095090	C	T	7973	0.17	0.04	0.00	0.00	20.72
rs9653416	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	2	111885231	T	C	7973	0.07	0.02	0.00	0.00	20.13
rs61012205	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	2	136732890	G	C	7973	0.11	0.02	0.00	0.00	24.18
rs732658	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	2	139293583	A	G	7973	0.09	0.02	0.00	0.00	21.53
rs358235	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	4	22816599	T	G	7973	-0.54	0.02	0.00	0.07	626.74
rs17542673	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	4	22931336	T	C	7973	-0.16	0.03	0.00	0.00	23.25
rs10022619	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	4	181382748	T	C	7973	-0.21	0.04	0.00	0.00	22.56
rs15065068 2	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	6	119475505	G	A	7973	1.41	0.31	0.00	0.00	20.50
rs3807839	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	7	8152336	C	T	7973	-0.08	0.02	0.00	0.00	20.10
rs14483912 2	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	7	25628695	T	C	7973	0.40	0.09	0.00	0.00	19.68
rs1964886	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	9	12762912	A	T	7973	0.17	0.03	0.00	0.00	22.95
rs10970878	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	9	32263340	G	A	7973	0.13	0.03	0.00	0.00	21.37
rs34391145	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	9	124900057	C	T	7973	-0.08	0.02	0.00	0.00	20.52
rs77256386	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	10	131402778	G	C	7973	0.17	0.04	0.00	0.00	21.36
rs14524787 8	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	11	30535038	T	C	7973	0.22	0.05	0.00	0.00	23.16
rs1896612	glucopyranosi de (alpha + beta) levels	GCST90199973	12	20166389	T	C	7973	0.09	0.02	0.00	0.00	19.89

rs960522	Methyl glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	15	37271672	A	G	7973	-0.08	0.02	0.00	0.00	20.97
rs74806771	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	16	12519241	A	G	7973	-0.22	0.05	0.00	0.00	20.50
rs13846433 2	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	16	82247842	G	A	7973	0.62	0.12	0.00	0.00	26.41
rs757190	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	17	46784503	A	C	7973	0.42	0.08	0.00	0.00	25.17
rs77415901	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	17	72068634	T	C	7973	-0.31	0.07	0.00	0.00	20.46
rs34945068	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	19	865170	C	G	7973	0.13	0.03	0.00	0.00	20.89
rs4283343	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	19	17990833	G	A	7973	0.12	0.02	0.00	0.00	23.62
rs56865238	glucopyranosi de (alpha + beta) levels Methyl	GCST90199973	20	42378334	T	C	7973	0.12	0.03	0.00	0.00	22.54
rs28380509	glucopyranosi de (alpha + beta) levels 9-	GCST90199973	22	35004579	A	G	7973	-0.11	0.02	0.00	0.00	21.21
rs67942738	hydroxysteara te levels 9-	GCST90199974	1	55222480	G	A	7474	0.13	0.03	0.00	0.00	21.04
rs860140	hydroxysteara te levels 9-	GCST90199974	1	85195128	T	C	7474	-0.14	0.03	0.00	0.00	28.12
rs15065830 8	hydroxysteara te levels 9-	GCST90199974	2	36824621	G	A	7474	0.44	0.09	0.00	0.00	22.62
rs75428077	hydroxysteara te levels 9-	GCST90199974	2	77113521	C	T	7474	-0.20	0.04	0.00	0.00	20.65
rs14383055 1	hydroxysteara te levels 9-	GCST90199974	2	181219141	G	T	7474	-0.36	0.08	0.00	0.00	22.32
rs14541419 3	hydroxysteara te levels 9-	GCST90199974	3	12988790	A	C	7474	0.17	0.03	0.00	0.00	24.32
rs61792723	hydroxysteara te levels 9-	GCST90199974	4	29738197	T	C	7474	0.13	0.03	0.00	0.00	20.12
rs17035181	hydroxysteara te levels 9-	GCST90199974	4	156757359	G	T	7474	0.11	0.02	0.00	0.00	26.07
rs35236658	hydroxysteara te levels 9-	GCST90199974	5	9616681	A	G	7474	0.15	0.03	0.00	0.00	19.73
rs6950543	hydroxysteara te levels 9-	GCST90199974	7	44846	G	C	7474	0.14	0.03	0.00	0.00	22.06
rs2515539	hydroxysteara te levels 9-	GCST90199974	8	6598082	C	T	7474	-0.08	0.02	0.00	0.00	22.79
rs681151	hydroxysteara te levels	GCST90199974	9	29556818	C	A	7474	0.10	0.02	0.00	0.00	25.10

rs11005196	9- hydroxystearate levels	GCST90199974	10	56049270	T	G	7474	-0.21	0.05	0.00	0.00	20.36
rs12778354	9- hydroxystearate levels	GCST90199974	10	79029196	C	T	7474	0.10	0.02	0.00	0.00	20.30
rs603424	9- hydroxystearate levels	GCST90199974	10	100315722	A	G	7474	-0.12	0.02	0.00	0.00	33.38
rs11101932	9- hydroxystearate levels	GCST90199974	10	133105348	T	C	7474	0.10	0.02	0.00	0.00	21.39
rs7397873	9- hydroxystearate levels	GCST90199974	12	99321551	A	G	7474	-0.17	0.04	0.00	0.00	21.59
rs900986	9- hydroxystearate levels	GCST90199974	12	128763098	C	T	7474	-0.07	0.02	0.00	0.00	20.68
rs144165507	9- hydroxystearate levels	GCST90199974	16	51095265	A	G	7474	-0.16	0.03	0.00	0.00	21.72
rs34026165	9- hydroxystearate levels	GCST90199974	16	85641565	A	G	7474	-0.10	0.02	0.00	0.00	21.14
rs8088564	9- hydroxystearate levels	GCST90199974	18	27073563	C	G	7474	-0.07	0.02	0.00	0.00	20.47
rs4470224	9- hydroxystearate levels	GCST90199974	18	32490734	T	A	7474	0.10	0.02	0.00	0.00	26.59
rs4413058	9- hydroxystearate levels	GCST90199974	18	73672783	T	C	7474	0.14	0.03	0.00	0.00	20.34
rs140440902	9- hydroxystearate levels	GCST90199974	19	42433184	G	A	7474	-0.29	0.06	0.00	0.00	21.33
rs73221192	9- hydroxystearate levels	GCST90199974	21	39182635	A	G	7474	-0.16	0.04	0.00	0.00	20.12
rs570149312	(d18:2/14:0, d18:1/14:1) levels Sphingomyelin	GCST90199975	1	5668605	T	C	8278	-0.30	0.06	0.00	0.00	24.71
rs11184717	(d18:2/14:0, d18:1/14:1) levels Sphingomyelin	GCST90199975	1	105935059	C	A	8278	0.09	0.02	0.00	0.00	22.24
rs6670477	(d18:2/14:0, d18:1/14:1) levels Sphingomyelin	GCST90199975	1	155892019	T	C	8278	0.07	0.01	0.00	0.00	23.87
rs4846913	(d18:2/14:0, d18:1/14:1) levels Sphingomyelin	GCST90199975	1	230158968	A	C	8278	0.06	0.01	0.00	0.00	22.07
rs143830551	(d18:2/14:0, d18:1/14:1) levels Sphingomyelin	GCST90199975	2	181219141	G	T	8278	-0.30	0.06	0.00	0.00	21.52
rs13110718	(d18:2/14:0, d18:1/14:1) levels Sphingomyelin	GCST90199975	4	174744188	A	G	8278	0.07	0.01	0.00	0.00	21.05
rs57650842	(d18:2/14:0, d18:1/14:1) levels Sphingomyelin	GCST90199975	5	120576183	A	C	8278	-0.06	0.01	0.00	0.00	19.67
rs115935735	(d18:2/14:0, d18:1/14:1) levels	GCST90199975	5	162373020	C	T	8278	0.23	0.05	0.00	0.00	21.97

rs12193124	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	6	56490164	G	A	8278	-0.45	0.10	0.00	0.00	20.63
rs11692692 2	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	6	159958678	T	G	8278	0.16	0.04	0.00	0.00	21.08
rs15009854 0	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	6	168746013	G	A	8278	0.25	0.06	0.00	0.00	19.72
rs2895	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	7	2529136	C	T	8278	0.09	0.02	0.00	0.00	20.23
rs13241538	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	7	130755103	C	G	8278	0.06	0.01	0.00	0.00	21.50
rs2448907	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	8	94313539	C	A	8278	-0.16	0.03	0.00	0.00	20.92
rs56062617	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	8	122850555	A	G	8278	-0.06	0.01	0.00	0.00	19.85
rs13997393 2	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	9	22271475	A	G	8278	0.26	0.06	0.00	0.00	21.22
rs14677857 3	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	9	91275041	A	T	8278	-0.25	0.05	0.00	0.00	23.04
rs2334657	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	11	1380493	T	C	8278	-0.06	0.01	0.00	0.00	19.71
rs174544	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	11	61800281	A	C	8278	-0.10	0.01	0.00	0.01	51.68
rs77187936	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	11	126076398	G	A	8278	0.33	0.07	0.00	0.00	19.70
rs61926227	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	12	50429702	C	G	8278	0.17	0.03	0.00	0.00	27.61
rs2068471	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	13	101808679	G	A	8278	-0.07	0.01	0.00	0.00	24.93
rs17836292	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	14	79708581	A	G	8278	0.21	0.05	0.00	0.00	19.94
rs8049021	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	16	52743534	T	C	8278	0.19	0.04	0.00	0.00	23.56
rs9941465	Sphingomyelin (d18:2/14:0, d18:1/14:1) levels	GCST90199975	19	54947788	A	G	8278	-0.08	0.02	0.00	0.00	20.42
rs11489259 2	1-dihomo- linolenylglycer ol (20:3) levels	GCST90199976	1	35583562	T	G	6470	-0.38	0.08	0.00	0.00	21.09
rs6743660	1-dihomo- linolenylglycer ol (20:3) levels	GCST90199976	2	131933488	G	A	6470	-0.09	0.02	0.00	0.00	20.59

rs6706391	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	2	222595583	C	T	6470	-0.17	0.04	0.00	0.00	19.85
rs62258668	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	3	50803118	A	G	6470	0.08	0.02	0.00	0.00	19.70
rs17014031	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	4	88331507	C	T	6470	0.18	0.04	0.00	0.00	22.77
rs7677050	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	4	108942003	C	T	6470	0.12	0.03	0.00	0.00	19.95
rs4833667	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	4	120681724	A	G	6470	-0.08	0.02	0.00	0.00	22.27
rs1895342	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	5	157599344	A	G	6470	0.14	0.03	0.00	0.00	30.03
rs149162700	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	5	170154553	A	G	6470	-0.33	0.07	0.00	0.00	19.52
rs9493310	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	6	132407263	A	G	6470	0.22	0.05	0.00	0.00	23.20
rs28585593	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	8	19788573	C	A	6470	-0.08	0.02	0.00	0.00	21.27
rs7015094	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	8	106362694	G	C	6470	-0.10	0.02	0.00	0.00	28.39
rs3109068	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	10	22936619	C	T	6470	-0.12	0.03	0.00	0.00	20.58
rs10509326	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	10	70871447	G	A	6470	-0.09	0.02	0.00	0.00	23.01
rs71482402	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	10	96299579	A	T	6470	0.14	0.03	0.00	0.00	27.56
rs56300950	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	10	132912865	A	T	6470	-0.08	0.02	0.00	0.00	22.59
rs61897793	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	11	61831875	A	G	6470	0.12	0.02	0.00	0.00	28.79
rs77940074	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	14	54672658	C	T	6470	0.15	0.03	0.00	0.00	20.37
rs62024448	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	16	11477825	A	G	6470	0.11	0.02	0.00	0.00	19.69
rs61018188	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	16	86396091	A	T	6470	0.09	0.02	0.00	0.00	21.22
rs117807391	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	18	2212262	G	C	6470	-0.30	0.07	0.00	0.00	20.11
rs17085256	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	18	71874028	A	G	6470	-0.35	0.07	0.00	0.00	23.72
rs28382094	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	20	62002309	C	G	6470	0.18	0.04	0.00	0.00	20.82
rs118128109	1-dihomo-linolenylglycerol (20:3) levels	GCST90199976	22	26497346	T	C	6470	-0.38	0.08	0.00	0.00	19.90
rs80327229	4-hydroxychlorothalonil levels	GCST90199977	1	17853863	T	C	8216	-0.30	0.07	0.00	0.00	20.11
rs78657072	4-hydroxychlorothalonil levels	GCST90199977	1	118786874	G	A	8216	-0.13	0.03	0.00	0.00	20.83

rs115605940	4-hydroxychloro thalonil levels	GCST90199977	1	161339449	T	C	8216	0.17	0.04	0.00	0.00	19.58
rs57407838	4-hydroxychloro thalonil levels	GCST90199977	2	9580788	G	A	8216	0.09	0.02	0.00	0.00	23.27
rs4953256	4-hydroxychloro thalonil levels	GCST90199977	2	45778507	C	G	8216	-0.09	0.02	0.00	0.00	21.73
rs61510047	4-hydroxychloro thalonil levels	GCST90199977	2	215697858	A	T	8216	-0.26	0.06	0.00	0.00	21.58
rs73081579	4-hydroxychloro thalonil levels	GCST90199977	2	226702617	T	C	8216	-0.25	0.05	0.00	0.00	25.91
rs73011089	4-hydroxychloro thalonil levels	GCST90199977	2	240779865	G	A	8216	0.08	0.02	0.00	0.00	20.00
rs3908127	4-hydroxychloro thalonil levels	GCST90199977	3	9728055	A	G	8216	-0.15	0.03	0.00	0.00	19.87
rs117195876	4-hydroxychloro thalonil levels	GCST90199977	4	88120247	C	T	8216	-0.32	0.07	0.00	0.00	20.05
rs74904971	4-hydroxychloro thalonil levels	GCST90199977	4	88128874	A	C	8216	0.52	0.02	0.00	0.06	480.23
rs74319256	4-hydroxychloro thalonil levels	GCST90199977	5	104917707	G	T	8216	0.10	0.02	0.00	0.00	30.37
rs78233426	4-hydroxychloro thalonil levels	GCST90199977	6	88580210	C	T	8216	-0.25	0.06	0.00	0.00	20.34
rs791485	4-hydroxychloro thalonil levels	GCST90199977	6	90876975	A	T	8216	-0.08	0.02	0.00	0.00	21.14
rs144157529	4-hydroxychloro thalonil levels	GCST90199977	7	35798703	T	C	8216	-0.14	0.03	0.00	0.00	22.50
rs113164826	4-hydroxychloro thalonil levels	GCST90199977	11	119793837	C	G	8216	-0.26	0.06	0.00	0.00	21.20
rs58063111	4-hydroxychloro thalonil levels	GCST90199977	12	43548831	T	G	8216	-0.41	0.08	0.00	0.00	24.59
rs10877330	4-hydroxychloro thalonil levels	GCST90199977	12	59717872	G	A	8216	-0.09	0.02	0.00	0.00	20.43
rs139514722	4-hydroxychloro thalonil levels	GCST90199977	13	47569443	C	T	8216	0.12	0.02	0.00	0.00	24.04
rs1958036	4-hydroxychloro thalonil levels	GCST90199977	14	33814822	T	C	8216	-0.08	0.02	0.00	0.00	20.92
rs2549144	4-hydroxychloro thalonil levels	GCST90199977	16	82824314	T	A	8216	0.14	0.03	0.00	0.00	20.92
rs75930096	4-hydroxychloro thalonil levels	GCST90199977	17	74000323	C	T	8216	-0.09	0.02	0.00	0.00	20.16
rs16978169	4-hydroxychloro thalonil levels	GCST90199977	18	44782004	T	C	8216	-0.13	0.03	0.00	0.00	19.88
rs11802404	Vanillactate levels	GCST90199978	1	69723346	T	C	7935	0.14	0.03	0.00	0.00	20.16
rs6662714	Vanillactate levels	GCST90199978	1	106931544	T	A	7935	-0.07	0.02	0.00	0.00	21.89
rs60007040	Vanillactate levels	GCST90199978	1	201624661	T	A	7935	0.15	0.03	0.00	0.00	25.62
rs78836270	Vanillactate levels	GCST90199978	1	245125784	A	G	7935	-0.36	0.07	0.00	0.00	24.85
rs115661637	Vanillactate levels	GCST90199978	6	43006097	T	C	7935	-0.22	0.05	0.00	0.00	23.29

rs111871379	Vanillactate levels	GCST90199978	6	80562538	T	C	7935	-0.31	0.06	0.00	0.00	24.46
rs141766382	Vanillactate levels	GCST90199978	6	161022907	C	G	7935	0.29	0.06	0.00	0.00	20.52
rs10499693	Vanillactate levels	GCST90199978	7	50469600	A	G	7935	0.26	0.05	0.00	0.00	23.33
rs6557829	Vanillactate levels	GCST90199978	8	22116457	A	C	7935	0.07	0.01	0.00	0.00	20.04
rs145931286	Vanillactate levels	GCST90199978	8	76667703	C	T	7935	0.23	0.05	0.00	0.00	20.22
rs77275042	Vanillactate levels	GCST90199978	9	129927933	C	T	7935	0.29	0.06	0.00	0.00	25.92
rs34094881	Vanillactate levels	GCST90199978	10	8108599	T	C	7935	0.07	0.02	0.00	0.00	21.22
rs2935699	Vanillactate levels	GCST90199978	10	121714281	G	A	7935	-0.21	0.05	0.00	0.00	21.57
rs113945618	Vanillactate levels	GCST90199978	11	2189428	G	A	7935	0.12	0.02	0.00	0.01	46.11
rs148395636	Vanillactate levels	GCST90199978	11	86789844	A	C	7935	-0.28	0.06	0.00	0.00	22.05
rs59043830	Vanillactate levels	GCST90199978	12	67895356	A	G	7935	0.18	0.04	0.00	0.00	19.72
rs1608080	Vanillactate levels	GCST90199978	12	74201734	C	A	7935	-0.07	0.02	0.00	0.00	21.56
rs73154072	Vanillactate levels	GCST90199978	13	26966935	G	A	7935	-0.26	0.06	0.00	0.00	20.67
rs17832281	Vanillactate levels	GCST90199978	14	54988297	C	T	7935	-0.12	0.02	0.00	0.00	26.55
rs61989787	Vanillactate levels	GCST90199978	14	91089477	C	T	7935	-0.11	0.02	0.00	0.00	19.66
rs11637168	Vanillactate levels	GCST90199978	15	72808353	A	C	7935	0.08	0.02	0.00	0.00	30.46
rs9922402	Vanillactate levels	GCST90199978	16	21195272	T	C	7935	0.07	0.02	0.00	0.00	20.56
rs1684577	Vanillactate levels	GCST90199978	16	57035021	T	G	7935	0.08	0.02	0.00	0.00	22.54
rs150902100	Vanillactate levels	GCST90199978	18	39308962	G	A	7935	0.27	0.06	0.00	0.00	22.50
rs75690409	Carnitine C14:1 levels	GCST90199979	1	9468265	G	A	8257	0.28	0.06	0.00	0.00	23.07
rs72681116	Carnitine C14:1 levels	GCST90199979	1	63619201	C	T	8257	0.18	0.04	0.00	0.00	20.66
rs10888422	Carnitine C14:1 levels	GCST90199979	1	151572020	A	G	8257	-0.12	0.03	0.00	0.00	19.52
rs4666156	Carnitine C14:1 levels	GCST90199979	2	28973847	C	G	8257	0.11	0.02	0.00	0.00	24.39
rs6768003	Carnitine C14:1 levels	GCST90199979	3	62719400	C	G	8257	-0.07	0.02	0.00	0.00	20.67
rs4615111	Carnitine C14:1 levels	GCST90199979	3	117768754	T	G	8257	0.07	0.02	0.00	0.00	20.26
rs73088390	Carnitine C14:1 levels	GCST90199979	4	7934065	A	G	8257	0.13	0.03	0.00	0.00	20.03
rs73808419	Carnitine C14:1 levels	GCST90199979	4	29921094	C	G	8257	-0.14	0.03	0.00	0.00	21.44
rs62302032	Carnitine C14:1 levels	GCST90199979	4	36913032	C	T	8257	-0.07	0.02	0.00	0.00	22.51
rs79947198	Carnitine C14:1 levels	GCST90199979	4	106207771	C	A	8257	0.17	0.04	0.00	0.00	19.67
rs78375313	Carnitine C14:1 levels	GCST90199979	5	96745995	C	T	8257	-0.20	0.04	0.00	0.00	21.23
rs56083751	Carnitine C14:1 levels	GCST90199979	5	132328945	A	T	8257	-0.08	0.01	0.00	0.00	29.83
rs62395316	Carnitine C14:1 levels	GCST90199979	6	10376979	A	G	8257	-0.27	0.06	0.00	0.00	23.26
rs714373	Carnitine C14:1 levels	GCST90199979	6	47261890	C	T	8257	-0.08	0.02	0.00	0.00	22.39
rs10447314	Carnitine C14:1 levels	GCST90199979	6	89065417	G	C	8257	0.07	0.02	0.00	0.00	20.00
rs118031080	Carnitine C14:1 levels	GCST90199979	6	103333616	A	G	8257	0.28	0.06	0.00	0.00	20.53
rs117679828	Carnitine C14:1 levels	GCST90199979	7	78456504	C	T	8257	0.14	0.03	0.00	0.00	20.09
rs60854002	Carnitine C14:1 levels	GCST90199979	7	156801094	T	G	8257	0.11	0.02	0.00	0.00	20.76

rs36045367	Carnitine C14:1 levels	GCST90199979	9	11121750	T	C	8257	0.09	0.02	0.00	0.00	23.48
rs74533261	Carnitine C14:1 levels	GCST90199979	10	62389753	A	G	8257	0.47	0.10	0.00	0.00	20.47
rs4918117	Carnitine C14:1 levels	GCST90199979	10	104607233	G	A	8257	-0.31	0.07	0.00	0.00	22.03
rs14188283 9	Carnitine C14:1 levels	GCST90199979	11	7573189	A	G	8257	0.23	0.05	0.00	0.00	24.66
rs18971695 3	Carnitine C14:1 levels	GCST90199979	11	14072115	T	C	8257	0.53	0.11	0.00	0.00	21.33
rs11032732	Carnitine C14:1 levels	GCST90199979	11	34512314	T	C	8257	-0.09	0.02	0.00	0.00	19.63
rs11232537	Carnitine C14:1 levels	GCST90199979	11	71202795	C	T	8257	0.28	0.06	0.00	0.00	20.61
rs7133712	Carnitine C14:1 levels	GCST90199979	12	118458445	A	T	8257	0.12	0.03	0.00	0.00	20.56
rs72632946	Carnitine C14:1 levels	GCST90199979	13	90298970	T	C	8257	0.08	0.02	0.00	0.00	19.61
rs77958712	Carnitine C14:1 levels	GCST90199979	13	91410635	C	T	8257	-0.18	0.04	0.00	0.00	22.58
rs17100464	Carnitine C14:1 levels	GCST90199979	14	33258721	A	G	8257	-0.23	0.05	0.00	0.00	20.73
rs12147391	Carnitine C14:1 levels	GCST90199979	14	37520377	G	A	8257	-0.18	0.04	0.00	0.00	23.45
rs924138	Carnitine C14:1 levels	GCST90199979	16	16032907	C	T	8257	0.08	0.02	0.00	0.00	23.56
rs59008536	Carnitine C14:1 levels	GCST90199979	17	35234052	T	C	8257	-0.11	0.02	0.00	0.00	20.25
rs11650353	Carnitine C14:1 levels	GCST90199979	17	74267785	G	A	8257	0.08	0.02	0.00	0.00	25.41
rs76284355	Carnitine C14:1 levels	GCST90199979	18	636133	A	G	8257	0.12	0.03	0.00	0.00	20.00
rs11790728 2	Carnitine C14:1 levels	GCST90199979	18	21078686	A	G	8257	-0.38	0.08	0.00	0.00	24.70
rs6662277	formylphenyla lanine levels N-	GCST90199980	1	75449869	T	C	7229	0.31	0.07	0.00	0.00	20.33
rs7598331	formylphenyla lanine levels N-	GCST90199980	2	21281505	G	A	7229	0.13	0.03	0.00	0.00	21.13
rs987987	formylphenyla lanine levels N-	GCST90199980	2	106976654	G	A	7229	-0.09	0.02	0.00	0.00	26.52
rs4954703	formylphenyla lanine levels N-	GCST90199980	2	141416982	G	A	7229	0.08	0.02	0.00	0.00	19.94
rs11708550	formylphenyla lanine levels N-	GCST90199980	3	7779597	T	C	7229	-0.15	0.03	0.00	0.00	19.58
rs14777404 7	formylphenyla lanine levels N-	GCST90199980	3	23592341	C	G	7229	-0.34	0.08	0.00	0.00	20.30
rs9866555	formylphenyla lanine levels N-	GCST90199980	3	37695308	A	G	7229	-0.11	0.03	0.00	0.00	20.09
rs14081228 2	formylphenyla lanine levels N-	GCST90199980	3	62594147	A	T	7229	0.21	0.05	0.00	0.00	19.53
rs12510179	formylphenyla lanine levels N-	GCST90199980	4	161718787	C	A	7229	0.09	0.02	0.00	0.00	22.43
rs79896723	formylphenyla lanine levels N-	GCST90199980	5	107769158	T	C	7229	-0.21	0.04	0.00	0.00	23.30
rs13189392	formylphenyla lanine levels N-	GCST90199980	5	153402068	T	C	7229	0.13	0.03	0.00	0.00	19.91
rs79368923	formylphenyla lanine levels N-	GCST90199980	5	174843813	C	G	7229	0.36	0.08	0.00	0.00	19.56
rs14195266 7	formylphenyla lanine levels	GCST90199980	6	24379792	G	A	7229	-0.11	0.02	0.00	0.00	20.24

rs375244	N-formylphenylalanine levels	GCST90199980	6	32223680	A	G	7229	-0.09	0.02	0.00	0.00	19.84
rs4313019	N-formylphenylalanine levels	GCST90199980	6	148091000	A	C	7229	0.25	0.06	0.00	0.00	19.51
rs143944782	N-formylphenylalanine levels	GCST90199980	7	70700669	C	T	7229	-0.26	0.06	0.00	0.00	19.78
rs10254747	N-formylphenylalanine levels	GCST90199980	7	89801345	C	A	7229	0.08	0.02	0.00	0.00	20.54
rs10098930	N-formylphenylalanine levels	GCST90199980	8	71136987	C	T	7229	-0.14	0.03	0.00	0.00	21.88
rs353538	N-formylphenylalanine levels	GCST90199980	9	131099812	T	C	7229	-0.08	0.02	0.00	0.00	19.79
rs145474636	N-formylphenylalanine levels	GCST90199980	11	26416551	T	C	7229	0.29	0.06	0.00	0.00	23.32
rs78069869	N-formylphenylalanine levels	GCST90199980	11	78698992	T	C	7229	-0.24	0.05	0.00	0.00	22.89
rs74915979	N-formylphenylalanine levels	GCST90199980	11	92929272	T	C	7229	0.29	0.06	0.00	0.00	20.13
rs79817130	N-formylphenylalanine levels	GCST90199980	11	128637793	G	T	7229	0.16	0.04	0.00	0.00	20.59
rs1493548	N-formylphenylalanine levels	GCST90199980	11	129335782	T	C	7229	0.08	0.02	0.00	0.00	22.99
rs17192338	N-formylphenylalanine levels	GCST90199980	12	89877237	C	G	7229	-0.12	0.02	0.00	0.00	25.99
rs117488613	N-formylphenylalanine levels	GCST90199980	13	74586144	A	G	7229	0.36	0.08	0.00	0.00	21.15
rs4775994	N-formylphenylalanine levels	GCST90199980	15	52023902	A	G	7229	0.10	0.02	0.00	0.00	19.55
rs1031900	N-formylphenylalanine levels	GCST90199980	15	92223847	A	G	7229	0.08	0.02	0.00	0.00	22.57
rs2601797	N-formylphenylalanine levels	GCST90199980	16	3943674	T	C	7229	0.12	0.02	0.00	0.00	25.34
rs72843537	N-formylphenylalanine levels	GCST90199980	17	60407212	C	A	7229	-0.16	0.04	0.00	0.00	19.88
rs144490799	N-formylphenylalanine levels	GCST90199980	18	48027336	T	C	7229	0.26	0.06	0.00	0.00	20.06
rs446331	N-formylphenylalanine levels	GCST90199980	19	11768384	T	C	7229	0.08	0.02	0.00	0.00	20.19
rs5747336	N-formylphenylalanine levels	GCST90199980	22	17706223	C	T	7229	0.08	0.02	0.00	0.00	22.04
rs117535348	N-formylphenylalanine levels	GCST90199980	22	36555805	C	T	7229	-0.37	0.08	0.00	0.00	24.35
rs191698712	2-acetamidophenol sulfate	GCST90199981	1	12627834	A	T	6984	0.53	0.12	0.00	0.00	20.48
rs144427343	2-acetamidophenol sulfate	GCST90199981	1	41552464	A	G	6984	0.18	0.04	0.00	0.00	21.21
rs4676095	2-acetamidophenol sulfate	GCST90199981	2	106922725	C	G	6984	0.24	0.05	0.00	0.00	26.47

rs114305930	2-acetamidophe nol sulfate	GCST90199981	2	149444993	A	C	6984	0.34	0.07	0.00	0.00	21.12
rs62187668	2-acetamidophe nol sulfate	GCST90199981	2	226088788	G	T	6984	-0.10	0.02	0.00	0.00	22.49
rs62255188	2-acetamidophe nol sulfate	GCST90199981	3	96427232	T	G	6984	0.16	0.03	0.00	0.00	20.66
rs73237701	2-acetamidophe nol sulfate	GCST90199981	4	45380989	G	A	6984	0.20	0.04	0.00	0.00	20.85
rs35102177	2-acetamidophe nol sulfate	GCST90199981	5	125820716	T	C	6984	0.08	0.02	0.00	0.00	21.19
rs35144462	2-acetamidophe nol sulfate	GCST90199981	5	151138415	A	G	6984	0.09	0.02	0.00	0.00	20.95
rs147292493	2-acetamidophe nol sulfate	GCST90199981	6	110028539	A	G	6984	-0.35	0.08	0.00	0.00	19.53
rs73112730	2-acetamidophe nol sulfate	GCST90199981	7	49470365	C	T	6984	0.09	0.02	0.00	0.00	19.81
rs144697490	2-acetamidophe nol sulfate	GCST90199981	7	52728708	T	C	6984	0.17	0.04	0.00	0.00	20.80
rs117290106	2-acetamidophe nol sulfate	GCST90199981	7	112686226	C	T	6984	-0.34	0.08	0.00	0.00	20.24
rs111836045	2-acetamidophe nol sulfate	GCST90199981	9	23121212	G	C	6984	-0.28	0.06	0.00	0.00	19.73
rs10490982	2-acetamidophe nol sulfate	GCST90199981	10	54256371	C	T	6984	0.09	0.02	0.00	0.00	19.58
rs75666171	2-acetamidophe nol sulfate	GCST90199981	10	90594735	A	C	6984	-0.13	0.03	0.00	0.00	20.34
rs12867708	2-acetamidophe nol sulfate	GCST90199981	13	90337059	T	C	6984	0.34	0.07	0.00	0.00	20.21
rs141091997	2-acetamidophe nol sulfate	GCST90199981	14	88539229	A	G	6984	0.51	0.10	0.00	0.00	23.36
rs117749863	2-acetamidophe nol sulfate	GCST90199981	15	33825364	A	T	6984	-0.26	0.06	0.00	0.00	20.37
rs117959567	2-acetamidophe nol sulfate	GCST90199981	16	1190070	T	G	6984	0.47	0.10	0.00	0.00	20.01
rs28714482	2-acetamidophe nol sulfate	GCST90199981	17	60151352	G	T	6984	0.13	0.03	0.00	0.00	22.23
rs11650965	2-acetamidophe nol sulfate	GCST90199981	17	77547288	G	T	6984	0.10	0.02	0.00	0.00	19.57
rs2083810	2-acetamidophe nol sulfate	GCST90199981	18	11941425	C	T	6984	0.09	0.02	0.00	0.00	26.04
rs58509476	2-acetamidophe nol sulfate	GCST90199981	19	16299324	T	C	6984	0.08	0.02	0.00	0.00	20.26
rs532345	2-acetamidophe nol sulfate	GCST90199981	21	42269381	T	C	6984	0.08	0.02	0.00	0.00	21.20
rs2807561	4-vinylguaiaicol	GCST90199982	1	14907459	G	A	7592	0.08	0.02	0.00	0.00	19.93
rs79039338	4-vinylguaiaicol	GCST90199982	1	192410099	T	G	7592	-0.33	0.07	0.00	0.00	19.69
rs2814055	4-vinylguaiaicol	GCST90199982	1	227469251	A	G	7592	0.27	0.06	0.00	0.00	19.82
rs62259734	4-vinylguaiaicol	GCST90199982	3	79320893	A	G	7592	-0.21	0.05	0.00	0.00	20.72

rs56011584	4-vinylguaiacol	GCST90199982	4	14873673	C	T	7592	-0.10	0.02	0.00	0.00	23.48
rs667453	4-vinylguaiacol	GCST90199982	4	40543068	A	T	7592	-0.21	0.04	0.00	0.00	23.21
rs35884605	4-vinylguaiacol	GCST90199982	4	188306313	C	T	7592	-0.07	0.02	0.00	0.00	19.77
rs151287306	4-vinylguaiacol	GCST90199982	5	74710136	T	C	7592	-0.26	0.06	0.00	0.00	20.54
rs6861275	4-vinylguaiacol	GCST90199982	5	98040741	A	C	7592	-0.08	0.02	0.00	0.00	23.54
rs2111709	4-vinylguaiacol	GCST90199982	7	53667021	A	G	7592	0.15	0.03	0.00	0.00	20.71
rs117590392	4-vinylguaiacol	GCST90199982	8	6027222	G	A	7592	0.43	0.10	0.00	0.00	20.05
rs12543764	4-vinylguaiacol	GCST90199982	8	22062541	C	T	7592	-0.10	0.02	0.00	0.00	23.20
rs180958866	4-vinylguaiacol	GCST90199982	8	81538962	G	T	7592	-0.33	0.07	0.00	0.00	23.12
rs2325676	4-vinylguaiacol	GCST90199982	8	136855956	T	C	7592	0.08	0.02	0.00	0.00	19.83
rs10739049	4-vinylguaiacol	GCST90199982	9	4339320	A	T	7592	-0.10	0.02	0.00	0.00	19.64
rs10993370	4-vinylguaiacol	GCST90199982	9	94854821	G	C	7592	-0.07	0.02	0.00	0.00	21.14
rs35609714	4-vinylguaiacol	GCST90199982	12	52818508	T	C	7592	-0.17	0.04	0.00	0.00	22.71
rs141225034	4-vinylguaiacol	GCST90199982	12	103811305	A	G	7592	-0.20	0.04	0.00	0.00	20.81
rs142465075	4-vinylguaiacol	GCST90199982	14	37149568	A	G	7592	0.28	0.06	0.00	0.00	19.57
rs62032796	4-vinylguaiacol	GCST90199982	16	54180790	C	T	7592	-0.10	0.02	0.00	0.00	20.63
rs149734067	4-vinylguaiacol	GCST90199982	17	9823755	A	G	7592	-0.28	0.06	0.00	0.00	20.21
rs2833465	4-vinylguaiacol	GCST90199982	21	31591790	T	C	7592	-0.11	0.02	0.00	0.00	19.61
rs144701180	3alpha,17beta-diol monosulfate (2) levels	GCST90199983	1	15166799	A	G	5920	0.20	0.04	0.00	0.00	22.79
rs12354267	3alpha,17beta-diol monosulfate (2) levels	GCST90199983	1	43782601	C	T	5920	0.06	0.01	0.00	0.00	21.21
rs114453281	3alpha,17beta-diol monosulfate (2) levels	GCST90199983	2	105791350	T	C	5920	-0.23	0.05	0.00	0.00	19.87
rs78774123	3alpha,17beta-diol monosulfate (2) levels	GCST90199983	2	154953278	G	A	5920	-0.10	0.02	0.00	0.00	20.04
rs114739365	3alpha,17beta-diol monosulfate (2) levels	GCST90199983	3	82130394	A	C	5920	0.21	0.05	0.00	0.00	21.18
rs111861302	3alpha,17beta-diol monosulfate (2) levels	GCST90199983	4	27645831	C	T	5920	0.15	0.03	0.00	0.00	21.07

rs113384104	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	4	109144428	C	T	5920	-0.23	0.05	0.00	0.00	20.17
rs62323907	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	4	126439371	G	A	5920	-0.14	0.03	0.00	0.00	20.32
rs143784002	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	4	179535373	T	C	5920	0.18	0.04	0.00	0.00	23.49
rs2050989	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	6	115785620	A	C	5920	0.29	0.06	0.00	0.00	22.51
rs13217139	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	6	130873341	T	C	5920	0.07	0.01	0.00	0.00	27.64
rs112957900	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	6	161321873	T	A	5920	0.13	0.03	0.00	0.00	19.91
rs73036266	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	7	783578	T	C	5920	-0.14	0.03	0.00	0.00	20.96
rs12672894	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	7	37574541	A	T	5920	-0.16	0.03	0.00	0.00	21.28
rs76425011	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	7	77218903	G	A	5920	-0.42	0.09	0.00	0.00	20.20
rs140576688	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	8	5126176	G	A	5920	-0.24	0.05	0.00	0.00	20.82
rs1023899	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	8	21177340	T	A	5920	0.11	0.02	0.00	0.00	22.14
rs539062096	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	8	65122303	T	C	5920	-0.10	0.02	0.00	0.00	19.66

rs72728613	5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	8	131799660	T	C	5920	-0.08	0.02	0.00	0.00	19.64
rs12164219	5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	8	141970312	T	C	5920	-0.36	0.08	0.00	0.00	20.52
rs10448182	5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	9	12910296	T	C	5920	-0.07	0.02	0.00	0.00	19.94
rs186198655	5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	9	30490326	C	T	5920	0.31	0.07	0.00	0.00	20.26
rs185937210	5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	10	5315986	C	A	5920	-0.11	0.02	0.00	0.00	20.41
rs61844607	5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	10	11610087	T	C	5920	0.38	0.07	0.00	0.00	25.58
rs4752161	5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	10	118453652	T	C	5920	0.06	0.01	0.00	0.00	21.04
rs75987135	5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	12	67917955	T	C	5920	0.18	0.04	0.00	0.00	20.90
rs3850396	5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	14	90133398	G	A	5920	-0.11	0.02	0.00	0.00	20.29
rs150709262	5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	14	106274811	C	G	5920	0.38	0.08	0.00	0.00	21.42
rs72746416	5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	15	77711370	T	C	5920	0.32	0.07	0.00	0.00	21.78
rs146867915	5alpha-androstan-3alpha,17beta-diol monosulfate (2) levels	GCST90199983	17	6489267	C	T	5920	-0.25	0.06	0.00	0.00	19.62

rs77405250	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	17	31678201	C	T	5920	-0.14	0.03	0.00	0.00	20.91
rs72629869	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	18	59512438	A	G	5920	-0.12	0.03	0.00	0.00	19.98
rs212100	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	19	47873738	C	T	5920	-0.25	0.02	0.00	0.03	207.71
rs74967281	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	20	32676856	A	G	5920	0.25	0.06	0.00	0.00	20.02
rs9621269	5alpha-androstan-3alpha,17beta-diol monosulfate (2) level	GCST90199983	22	31470795	A	G	5920	0.11	0.02	0.00	0.00	21.42
rs78159899	Vanillic alcohol sulfate	GCST90199984	1	237569393	A	G	5076	0.41	0.08	0.00	0.01	25.87
rs6708	Vanillic alcohol sulfate	GCST90199984	2	33564467	G	A	5076	0.11	0.02	0.00	0.00	23.31
rs6746645	Vanillic alcohol sulfate	GCST90199984	2	159257489	T	C	5076	-0.10	0.02	0.00	0.00	20.60
rs14589689	Vanillic alcohol sulfate	GCST90199984	4	32265605	T	G	5076	0.26	0.05	0.00	0.00	23.85
rs14160427	Vanillic alcohol sulfate	GCST90199984	5	19144734	C	T	5076	0.48	0.11	0.00	0.00	20.27
rs18101548	Vanillic alcohol sulfate	GCST90199984	5	28187469	A	G	5076	0.45	0.10	0.00	0.00	19.94
rs34219067	Vanillic alcohol sulfate	GCST90199984	6	100892694	A	C	5076	-0.13	0.03	0.00	0.00	20.47
rs11686974	Vanillic alcohol sulfate	GCST90199984	8	64817787	G	A	5076	0.51	0.10	0.00	0.00	23.66
rs28822412	Vanillic alcohol sulfate	GCST90199984	8	68811112	C	T	5076	0.24	0.05	0.00	0.00	19.63
rs7835940	Vanillic alcohol sulfate	GCST90199984	8	137989967	A	C	5076	0.34	0.07	0.00	0.00	21.60
rs16934059	Vanillic alcohol sulfate	GCST90199984	9	37395141	C	A	5076	-0.09	0.02	0.00	0.00	20.08
rs4143031	Vanillic alcohol sulfate	GCST90199984	9	79331804	A	C	5076	0.10	0.02	0.00	0.00	21.25
rs12412149	Vanillic alcohol sulfate	GCST90199984	10	3659462	C	A	5076	-0.13	0.03	0.00	0.00	20.27
rs1249278	Vanillic alcohol sulfate	GCST90199984	10	28429861	A	C	5076	-0.10	0.02	0.00	0.00	19.65
rs55822587	Vanillic alcohol sulfate	GCST90199984	11	63413171	A	G	5076	-0.28	0.06	0.00	0.00	20.08
rs6488559	Vanillic alcohol sulfate	GCST90199984	12	12825471	G	C	5076	0.10	0.02	0.00	0.00	24.23
rs1318473	Vanillic alcohol sulfate	GCST90199984	12	81546982	A	T	5076	0.13	0.03	0.00	0.00	21.31
rs74358639	Vanillic alcohol sulfate	GCST90199984	12	126173509	T	C	5076	-0.11	0.03	0.00	0.00	20.24
rs14181125	Vanillic alcohol sulfate	GCST90199984	13	87170194	A	T	5076	0.50	0.08	0.00	0.01	36.75
rs10138519	Vanillic alcohol sulfate	GCST90199984	14	41962988	A	G	5076	0.09	0.02	0.00	0.00	19.53
rs1668593	Vanillic alcohol sulfate	GCST90199984	15	42040551	A	G	5076	0.18	0.04	0.00	0.00	23.98
rs183188	Vanillic alcohol sulfate	GCST90199984	16	1089446	T	G	5076	-0.18	0.04	0.00	0.00	19.73

rs55255349 1	Vanillic alcohol sulfate	GCST90199984	16	34095937	T	C	5076	1.38	0.30	0.00	0.00	21.68
rs16960705	Vanillic alcohol sulfate	GCST90199984	16	58975255	T	C	5076	0.49	0.10	0.00	0.00	23.30
rs2005345	Vanillic alcohol sulfate	GCST90199984	16	63775217	G	A	5076	0.11	0.02	0.00	0.00	23.70
rs1862680	Vanillic alcohol sulfate	GCST90199984	16	82943816	G	T	5076	-0.11	0.02	0.00	0.00	21.38
rs7210503	Vanillic alcohol sulfate	GCST90199984	17	79039387	T	C	5076	0.17	0.03	0.00	0.00	22.62
rs18581621 8	Vanillic alcohol sulfate	GCST90199984	18	7998234	C	T	5076	0.42	0.10	0.00	0.00	19.72
rs62186554	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	2	240642105	T	C	8285	0.07	0.02	0.00	0.00	20.28
rs9814780	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	3	46712087	C	T	8285	-0.12	0.03	0.00	0.00	21.80
rs77187876	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	3	116738337	T	A	8285	0.11	0.02	0.00	0.00	20.98
rs11596657 1	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	4	28008804	T	C	8285	-0.22	0.05	0.00	0.00	20.14
rs11478858 3	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	5	20934680	C	A	8285	0.33	0.06	0.00	0.00	28.91
rs829917	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	6	45735917	T	C	8285	-0.11	0.02	0.00	0.00	25.26
rs76038671	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	7	37839779	A	G	8285	0.18	0.04	0.00	0.00	21.66
rs34153127	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	8	111726017	A	G	8285	0.09	0.02	0.00	0.00	21.40
rs11004786	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	10	55249747	C	T	8285	0.08	0.02	0.00	0.00	27.58
rs61883360	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	11	45728784	C	G	8285	0.21	0.04	0.00	0.00	22.27
rs76407323	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	11	88140065	A	G	8285	0.24	0.05	0.00	0.00	19.90
rs11780961 8	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	12	10010116	C	T	8285	0.18	0.04	0.00	0.00	20.33
rs77991917	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	12	102528093	A	G	8285	-0.26	0.06	0.00	0.00	20.17
rs79367453	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	13	44811416	A	G	8285	-0.28	0.06	0.00	0.00	19.70
rs35955717	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	14	32925854	C	T	8285	-0.09	0.02	0.00	0.00	19.54
rs14192882 5	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	14	79159243	A	G	8285	-0.30	0.06	0.00	0.00	22.38
rs14942563 2	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	15	31109626	A	G	8285	-0.27	0.06	0.00	0.00	20.20
rs11693801 1	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	16	28999791	T	C	8285	-0.37	0.07	0.00	0.00	24.39
rs12443580	hydroxybenzo ate sulfate Methyl-4-	GCST90199985	16	55832425	C	T	8285	0.10	0.02	0.00	0.00	31.41
rs12933287	hydroxybenzo ate sulfate	GCST90199985	16	81744616	C	T	8285	-0.18	0.04	0.00	0.00	20.87

rs79620597	Methyl-4-hydroxybenzoate sulfate	GCST90199985	20	8891119	T	C	8285	-0.24	0.05	0.00	0.00	26.80
rs137692	Methyl-4-hydroxybenzoate sulfate	GCST90199985	22	39347575	T	C	8285	-0.07	0.02	0.00	0.00	20.22
rs1281340	Eugenol sulfate levels	GCST90199986	1	182146652	G	A	7063	0.08	0.02	0.00	0.00	20.73
rs7604263	Eugenol sulfate levels	GCST90199986	2	19518007	T	C	7063	0.10	0.02	0.00	0.00	19.89
rs7562228	Eugenol sulfate levels	GCST90199986	2	212304465	G	A	7063	0.08	0.02	0.00	0.00	20.91
rs4501085	Eugenol sulfate levels	GCST90199986	3	43824268	A	G	7063	-0.11	0.02	0.00	0.00	20.21
rs12186252	Eugenol sulfate levels	GCST90199986	4	6113667	T	C	7063	0.11	0.02	0.00	0.00	32.31
rs112575821	Eugenol sulfate levels	GCST90199986	7	45352517	A	C	7063	0.22	0.04	0.00	0.01	36.59
rs138352364	Eugenol sulfate levels	GCST90199986	8	8447099	T	C	7063	0.32	0.07	0.00	0.00	21.30
rs72666215	Eugenol sulfate levels	GCST90199986	8	97218476	C	A	7063	-0.16	0.03	0.00	0.00	23.32
rs17095486	Eugenol sulfate levels	GCST90199986	10	116969056	C	T	7063	0.15	0.03	0.00	0.00	20.23
rs35918260	Eugenol sulfate levels	GCST90199986	11	33890183	C	T	7063	-0.09	0.02	0.00	0.00	20.70
rs72968122	Eugenol sulfate levels	GCST90199986	11	73193351	T	C	7063	0.11	0.02	0.00	0.00	24.28
rs12810283	Eugenol sulfate levels	GCST90199986	12	116617643	T	C	7063	0.09	0.02	0.00	0.00	25.47
rs61994770	Eugenol sulfate levels	GCST90199986	14	32027832	C	T	7063	0.16	0.03	0.00	0.00	20.44
rs144776699	Eugenol sulfate levels	GCST90199986	15	31362896	A	G	7063	0.41	0.08	0.00	0.00	23.37
rs62019204	Eugenol sulfate levels	GCST90199986	15	87953651	C	G	7063	-0.10	0.02	0.00	0.00	22.41
rs426015	Eugenol sulfate levels	GCST90199986	15	90826626	C	G	7063	-0.08	0.02	0.00	0.00	19.81
rs10852276	Eugenol sulfate levels	GCST90199986	16	25028837	A	G	7063	-0.08	0.02	0.00	0.00	20.66
rs149162439	Eugenol sulfate levels	GCST90199986	16	53778505	A	C	7063	0.44	0.10	0.00	0.00	19.58
rs16947506	Eugenol sulfate levels	GCST90199986	17	13275120	C	T	7063	0.10	0.02	0.00	0.00	20.41
rs117593490	Eugenol sulfate levels	GCST90199986	18	59799303	G	A	7063	0.42	0.09	0.00	0.00	20.61
rs79633882	Eugenol sulfate levels	GCST90199986	20	17509543	A	G	7063	0.27	0.06	0.00	0.00	19.71
rs495539	Eugenol sulfate levels	GCST90199986	20	49493038	T	G	7063	-0.30	0.07	0.00	0.00	20.29
rs17000654	Eugenol sulfate levels	GCST90199986	21	25062189	C	A	7063	-0.34	0.07	0.00	0.00	21.16
rs368815863	methoxyresorcinol sulfate levels	GCST90199987	1	91445070	C	T	5897	-0.23	0.05	0.00	0.00	19.91
rs61828866	methoxyresorcinol sulfate levels	GCST90199987	1	217623380	A	T	5897	-0.23	0.04	0.00	0.00	26.33
rs116357348	methoxyresorcinol sulfate levels	GCST90199987	2	73433798	T	A	5897	-0.20	0.04	0.00	0.00	19.94
rs35517017	methoxyresorcinol sulfate levels	GCST90199987	2	221439913	A	C	5897	-0.10	0.02	0.00	0.00	22.94
rs148350547	methoxyresorcinol sulfate levels	GCST90199987	2	232936699	T	G	5897	0.28	0.06	0.00	0.00	19.55

rs14742174 4	2- methoxyresorc inol sulfate levels	GCST90199987	3	97341185	T	C	5897	-0.26	0.05	0.00	0.00	22.30
rs14388512 1	2- methoxyresorc inol sulfate levels	GCST90199987	4	9926024	T	C	5897	0.54	0.12	0.00	0.00	21.37
rs60184835	2- methoxyresorc inol sulfate levels	GCST90199987	4	20978850	C	T	5897	0.10	0.02	0.00	0.00	21.14
rs28753949	2- methoxyresorc inol sulfate levels	GCST90199987	4	123550671	A	G	5897	-0.22	0.05	0.00	0.00	19.73
rs12504082	2- methoxyresorc inol sulfate levels	GCST90199987	4	180337797	G	T	5897	-0.09	0.02	0.00	0.00	19.62
rs73026354	2- methoxyresorc inol sulfate levels	GCST90199987	4	181506847	C	T	5897	0.16	0.03	0.00	0.00	21.68
rs17056549	2- methoxyresorc inol sulfate levels	GCST90199987	5	159083802	C	T	5897	-0.35	0.08	0.00	0.00	21.09
rs11490456 6	2- methoxyresorc inol sulfate levels	GCST90199987	6	14930294	T	A	5897	-0.33	0.07	0.00	0.00	20.79
rs35907373	2- methoxyresorc inol sulfate levels	GCST90199987	7	13521437	A	T	5897	0.11	0.02	0.00	0.00	20.53
rs7814148	2- methoxyresorc inol sulfate levels	GCST90199987	8	2607039	A	G	5897	0.14	0.03	0.00	0.00	19.99
rs19149049 2	2- methoxyresorc inol sulfate levels	GCST90199987	8	67263550	A	C	5897	0.43	0.09	0.00	0.00	22.42
rs11811475 6	2- methoxyresorc inol sulfate levels	GCST90199987	9	125990802	T	C	5897	0.20	0.04	0.00	0.00	22.80
rs4881034	2- methoxyresorc inol sulfate levels	GCST90199987	10	2859406	C	T	5897	0.09	0.02	0.00	0.00	19.89
rs14735056 9	2- methoxyresorc inol sulfate levels	GCST90199987	10	33622009	C	T	5897	0.24	0.05	0.00	0.00	20.75
rs11622108 4	2- methoxyresorc inol sulfate levels	GCST90199987	10	98216414	G	T	5897	2.59	0.57	0.00	0.00	20.86
rs77283029	2- methoxyresorc inol sulfate levels	GCST90199987	11	8295366	T	C	5897	0.46	0.10	0.00	0.00	20.79
rs11018581	2- methoxyresorc inol sulfate levels	GCST90199987	11	89328454	T	C	5897	0.13	0.03	0.00	0.00	25.04
rs55738640	2- methoxyresorc inol sulfate levels	GCST90199987	12	131827007	T	C	5897	-0.17	0.04	0.00	0.00	19.60

rs111682884	2-methoxyresorcinol sulfate levels	GCST90199987	14	83452066	A	G	5897	0.24	0.05	0.00	0.00	19.90
rs2703175	2-methoxyresorcinol sulfate levels	GCST90199987	18	41469123	G	A	5897	-0.14	0.03	0.00	0.00	22.71
rs9946216	2-methoxyresorcinol sulfate levels	GCST90199987	18	79786183	A	G	5897	0.09	0.02	0.00	0.00	22.43
rs9976314	2-methoxyresorcinol sulfate levels	GCST90199987	21	23971255	T	C	5897	0.24	0.05	0.00	0.00	23.42
rs6000657	2-methoxyresorcinol sulfate levels	GCST90199987	22	37305332	A	G	5897	0.18	0.04	0.00	0.00	20.69
rs145634396	Tyramine O-sulfate levels	GCST90199988	1	21418474	G	C	7254	0.09	0.02	0.00	0.00	19.55
rs1841655	Tyramine O-sulfate levels	GCST90199988	1	225631356	T	G	7254	0.20	0.04	0.00	0.00	20.39
rs114644345	Tyramine O-sulfate levels	GCST90199988	2	169850394	A	G	7254	-0.23	0.05	0.00	0.00	22.53
rs140442472	Tyramine O-sulfate levels	GCST90199988	2	177829668	C	G	7254	-0.29	0.06	0.00	0.00	22.92
rs190951316	Tyramine O-sulfate levels	GCST90199988	4	57368134	A	G	7254	-0.32	0.07	0.00	0.00	22.14
rs75233874	Tyramine O-sulfate levels	GCST90199988	5	178355186	G	C	7254	-0.18	0.04	0.00	0.00	19.89
rs62388412	Tyramine O-sulfate levels	GCST90199988	6	1791977	A	G	7254	-0.11	0.03	0.00	0.00	19.74
rs4279398	Tyramine O-sulfate levels	GCST90199988	6	85071412	G	A	7254	0.13	0.03	0.00	0.00	21.63
rs6919740	Tyramine O-sulfate levels	GCST90199988	6	122635417	T	A	7254	0.08	0.02	0.00	0.00	22.54
rs6593010	Tyramine O-sulfate levels	GCST90199988	7	50562191	G	A	7254	-0.08	0.02	0.00	0.00	24.09
rs183840159	Tyramine O-sulfate levels	GCST90199988	7	137155321	C	A	7254	-0.24	0.05	0.00	0.00	19.97
rs75151194	Tyramine O-sulfate levels	GCST90199988	10	28823236	G	T	7254	-0.17	0.04	0.00	0.00	19.94
rs144208208	Tyramine O-sulfate levels	GCST90199988	11	63745973	A	G	7254	0.19	0.04	0.00	0.00	19.90
rs118121717	Tyramine O-sulfate levels	GCST90199988	11	109305320	A	G	7254	0.20	0.04	0.00	0.00	23.93
rs138503264	Tyramine O-sulfate levels	GCST90199988	12	103552933	A	C	7254	0.17	0.04	0.00	0.00	20.65
rs75047119	Tyramine O-sulfate levels	GCST90199988	13	110235792	T	C	7254	-0.30	0.07	0.00	0.00	20.46
rs10144811	Tyramine O-sulfate levels	GCST90199988	14	94963403	C	T	7254	0.08	0.02	0.00	0.00	24.12
rs17095637	Tyramine O-sulfate levels	GCST90199988	14	106028744	G	A	7254	0.60	0.13	0.00	0.00	21.16
rs62017884	Tyramine O-sulfate levels	GCST90199988	15	71412749	G	A	7254	-0.10	0.02	0.00	0.00	20.31
rs76320907	Tyramine O-sulfate levels	GCST90199988	16	27317604	T	C	7254	0.22	0.05	0.00	0.00	19.91
rs117889737	Tyramine O-sulfate levels	GCST90199988	16	82819052	T	C	7254	-0.27	0.06	0.00	0.00	22.63
rs76920826	Tyramine O-sulfate levels	GCST90199988	18	35273625	A	C	7254	0.10	0.02	0.00	0.00	20.40
rs62112594	Tyramine O-sulfate levels	GCST90199988	19	50160628	T	C	7254	-0.08	0.02	0.00	0.00	20.63
rs115142749	4-methylguaiacol sulfate levels	GCST90199989	1	179793499	T	C	7141	0.23	0.05	0.00	0.00	21.27
rs772448	4-methylguaiacol sulfate levels	GCST90199989	2	7704928	G	A	7141	0.10	0.02	0.00	0.00	20.41

rs9967824	4-methylguaiacol sulfate levels	GCST90199989	2	107075110	A	T	7141	0.10	0.02	0.00	0.00	23.42
rs72844398	4-methylguaiacol sulfate levels	GCST90199989	2	137240750	G	A	7141	0.08	0.02	0.00	0.00	19.64
rs2532924	4-methylguaiacol sulfate levels	GCST90199989	6	30964905	C	T	7141	0.08	0.02	0.00	0.00	21.99
rs73126344	4-methylguaiacol sulfate levels	GCST90199989	7	56091998	T	C	7141	0.11	0.02	0.00	0.00	21.30
rs7791207	4-methylguaiacol sulfate levels	GCST90199989	7	78055053	G	T	7141	0.11	0.02	0.00	0.00	23.85
rs12706595	4-methylguaiacol sulfate levels	GCST90199989	7	124369604	G	A	7141	0.09	0.02	0.00	0.00	19.98
rs114498966	4-methylguaiacol sulfate levels	GCST90199989	9	135690142	A	G	7141	0.34	0.07	0.00	0.00	20.49
rs11620035	4-methylguaiacol sulfate levels	GCST90199989	13	72718536	T	C	7141	-0.10	0.02	0.00	0.00	20.88
rs4482235	4-methylguaiacol sulfate levels	GCST90199989	15	35152511	C	T	7141	0.09	0.02	0.00	0.00	22.52
rs79739049	4-methylguaiacol sulfate levels	GCST90199989	16	17008878	T	G	7141	0.19	0.04	0.00	0.00	21.08
rs118170120	4-methylguaiacol sulfate levels	GCST90199989	18	32239808	G	A	7141	0.37	0.08	0.00	0.00	23.44
rs12483993	3-methylguaiacol sulfate levels	GCST90199989	22	39624171	C	T	7141	0.26	0.06	0.00	0.00	19.82
rs10918652	3-hydroxypyridine sulfate	GCST90199990	1	167172842	G	A	8270	-0.13	0.03	0.00	0.00	21.55
rs114371828	3-hydroxypyridine sulfate	GCST90199990	1	201989140	T	C	8270	-0.27	0.06	0.00	0.00	20.35
rs1594297	3-hydroxypyridine sulfate	GCST90199990	2	16476976	A	G	8270	0.22	0.05	0.00	0.00	19.56
rs17008088	3-hydroxypyridine sulfate	GCST90199990	3	70966628	T	C	8270	0.25	0.05	0.00	0.00	26.49
rs4856225	3-hydroxypyridine sulfate	GCST90199990	3	79930958	T	C	8270	0.08	0.02	0.00	0.00	20.16
rs73250695	3-hydroxypyridine sulfate	GCST90199990	4	25030243	G	A	8270	-0.18	0.04	0.00	0.00	24.10
rs6839814	3-hydroxypyridine sulfate	GCST90199990	4	134043684	A	C	8270	-0.12	0.02	0.00	0.00	21.99
rs17324835	3-hydroxypyridine sulfate	GCST90199990	5	68627631	A	G	8270	0.13	0.03	0.00	0.00	24.06
rs115151170	3-hydroxypyridine sulfate	GCST90199990	6	54906289	C	T	8270	-0.32	0.07	0.00	0.00	20.59
rs73073176	3-hydroxypyridine sulfate	GCST90199990	7	17523328	T	C	8270	-0.10	0.02	0.00	0.00	19.83
rs141365120	3-hydroxypyridine sulfate	GCST90199990	8	58805216	T	A	8270	0.26	0.06	0.00	0.00	20.56
rs9409510	3-hydroxypyridine sulfate	GCST90199990	9	94298852	A	G	8270	0.08	0.02	0.00	0.00	21.98

rs1995667	3-hydroxypyridine sulfate	GCST90199990	10	66224941	A	G	8270	0.07	0.02	0.00	0.00	19.53
rs479061	3-hydroxypyridine sulfate	GCST90199990	10	105980630	A	C	8270	0.08	0.02	0.00	0.00	20.48
rs77921124	3-hydroxypyridine sulfate	GCST90199990	10	125202503	T	C	8270	-0.09	0.02	0.00	0.00	19.86
rs919217	3-hydroxypyridine sulfate	GCST90199990	12	108481961	C	T	8270	-0.10	0.02	0.00	0.00	21.50
rs117728044	3-hydroxypyridine sulfate	GCST90199990	13	39575423	G	A	8270	-0.26	0.06	0.00	0.00	20.47
rs115520044	3-hydroxypyridine sulfate	GCST90199990	14	49488289	A	G	8270	0.30	0.06	0.00	0.00	25.98
rs1381273	3-hydroxypyridine sulfate	GCST90199990	14	98182723	T	C	8270	0.07	0.02	0.00	0.00	21.36
rs2472297	3-hydroxypyridine sulfate	GCST90199990	15	74735539	T	C	8270	0.09	0.02	0.00	0.00	26.11
rs75284213	3-hydroxypyridine sulfate	GCST90199990	16	18845018	T	C	8270	-0.44	0.09	0.00	0.00	23.92
rs118074685	3-hydroxypyridine sulfate	GCST90199990	17	35080621	C	T	8270	0.15	0.03	0.00	0.00	19.95
rs113935097	3-hydroxypyridine sulfate	GCST90199990	20	2878021	T	C	8270	-0.35	0.07	0.00	0.00	25.92
rs5997787	3-hydroxypyridine sulfate	GCST90199990	22	30858967	C	T	8270	0.07	0.02	0.00	0.00	20.92
rs61788981	Arabonate/xyl onate levels	GCST90199991	1	75046434	C	T	8211	0.17	0.04	0.00	0.00	20.71
rs1685633	Arabonate/xyl onate levels	GCST90199991	1	154319242	G	A	8211	0.11	0.02	0.00	0.00	22.43
rs114262076	Arabonate/xyl onate levels	GCST90199991	1	220125731	A	G	8211	0.36	0.08	0.00	0.00	22.41
rs28394165	Arabonate/xyl onate levels	GCST90199991	4	76472865	C	T	8211	0.07	0.01	0.00	0.00	22.48
rs7705905	Arabonate/xyl onate levels	GCST90199991	5	115985787	A	G	8211	-0.08	0.02	0.00	0.00	24.82
rs75859238	Arabonate/xyl onate levels	GCST90199991	6	36798954	C	G	8211	0.41	0.09	0.00	0.00	19.82
rs2888752	Arabonate/xyl onate levels	GCST90199991	6	67416714	G	A	8211	-0.07	0.01	0.00	0.00	25.44
rs236852	Arabonate/xyl onate levels	GCST90199991	6	78640175	A	C	8211	0.07	0.01	0.00	0.00	21.66
rs60350452	Arabonate/xyl onate levels	GCST90199991	6	154338182	C	A	8211	1.72	0.38	0.00	0.00	20.97
rs144165695	Arabonate/xyl onate levels	GCST90199991	7	53057222	A	G	8211	0.34	0.07	0.00	0.00	22.78
rs13256070	Arabonate/xyl onate levels	GCST90199991	8	770119	A	T	8211	-0.07	0.02	0.00	0.00	19.83
rs139057933	Arabonate/xyl onate levels	GCST90199991	10	17625410	T	C	8211	0.13	0.03	0.00	0.00	21.54
rs12356462	Arabonate/xyl onate levels	GCST90199991	10	59038366	A	G	8211	0.15	0.03	0.00	0.00	21.91
rs117356739	Arabonate/xyl onate levels	GCST90199991	13	63407814	G	T	8211	-0.24	0.05	0.00	0.00	24.19
rs73189497	Arabonate/xyl onate levels	GCST90199991	13	63878840	G	A	8211	0.16	0.03	0.00	0.00	23.50
rs11158414	Arabonate/xyl onate levels	GCST90199991	14	62451459	C	T	8211	0.07	0.02	0.00	0.00	20.33
rs57373048	Arabonate/xyl onate levels	GCST90199991	15	81182882	T	C	8211	0.17	0.04	0.00	0.00	19.66
rs116986485	Arabonate/xyl onate levels	GCST90199991	16	75718556	T	C	8211	0.29	0.06	0.00	0.00	20.51
rs61704768	Arabonate/xyl onate levels	GCST90199991	17	28513289	A	C	8211	-0.09	0.02	0.00	0.00	23.41

rs2847153	Arabonate/xyl onate levels	GCST90199991	18	661647	A	G	8211	-0.15	0.02	0.00	0.01	68.15
rs18683247 7	Arabonate/xyl onate levels	GCST90199991	19	28526583	A	T	8211	-0.12	0.03	0.00	0.00	20.13
rs35321803	Arabonate/xyl onate levels	GCST90199991	19	48801796	T	C	8211	-0.18	0.04	0.00	0.00	20.73
rs73077000	Arabonate/xyl onate levels	GCST90199991	20	1548546	T	C	8211	-0.14	0.03	0.00	0.00	19.88
rs77802213	Arabonate/xyl onate levels	GCST90199991	20	37337810	A	G	8211	0.20	0.04	0.00	0.00	24.07
rs414845	Arabonate/xyl onate levels	GCST90199991	21	38882541	T	C	8211	-0.08	0.02	0.00	0.00	25.42
rs739309	Arabonate/xyl onate levels	GCST90199991	22	43305856	T	C	8211	-0.10	0.02	0.00	0.00	20.94
rs1795039	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	1	214116648	G	A	8049	0.20	0.04	0.00	0.00	19.66
rs77731062	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	1	234726440	A	G	8049	0.35	0.08	0.00	0.00	20.31
rs14357944 7	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	2	55376624	T	C	8049	-0.40	0.09	0.00	0.00	20.02
rs1263627	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	2	207112529	T	A	8049	0.08	0.02	0.00	0.00	21.82
rs62283175	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	3	131621183	C	T	8049	-0.12	0.03	0.00	0.00	19.52
rs2285865	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	4	6668540	T	C	8049	0.07	0.02	0.00	0.00	19.84
rs14756036 6	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	4	8048235	T	C	8049	-0.29	0.06	0.00	0.00	20.35
rs13884772 6	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	4	13019286	T	C	8049	-0.21	0.04	0.00	0.00	22.87
rs4997685	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	4	186204370	T	C	8049	0.21	0.02	0.00	0.02	124.44
rs1053094	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	4	186211877	T	A	8049	0.12	0.01	0.00	0.01	63.61
rs54583404 7	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	5	119600294	A	C	8049	0.26	0.05	0.00	0.00	23.37
rs2277938	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	5	154446413	C	G	8049	0.34	0.07	0.00	0.00	21.82
rs877596	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	6	36121273	A	T	8049	0.07	0.02	0.00	0.00	19.97
rs2760226	ylcarnitine (C18-DC) levels Octadecanedio	GCST90199992	6	117934922	A	G	8049	0.07	0.02	0.00	0.00	22.72
rs1859792	ylcarnitine (C18-DC) levels	GCST90199992	7	76159946	C	T	8049	0.10	0.02	0.00	0.00	36.38

rs662138	Phenylacetylca rnitine levels	GCST90199993	6	160143444	G	C	8127	-0.16	0.02	0.00	0.01	68.23
rs4721416	Phenylacetylca rnitine levels	GCST90199993	7	15196752	A	G	8127	-0.07	0.02	0.00	0.00	23.16
rs73266106	Phenylacetylca rnitine levels	GCST90199993	8	67885290	A	G	8127	-0.18	0.04	0.00	0.00	20.73
rs11799465 8	Phenylacetylca rnitine levels	GCST90199993	8	99439567	C	T	8127	0.17	0.03	0.00	0.00	23.94
rs1171617	Phenylacetylca rnitine levels	GCST90199993	10	59707424	T	G	8127	0.19	0.02	0.00	0.01	106.28
rs1255462	Phenylacetylca rnitine levels	GCST90199993	10	63646329	T	A	8127	0.16	0.03	0.00	0.00	22.58
rs11722722 3	Phenylacetylca rnitine levels	GCST90199993	10	100044668	G	A	8127	0.10	0.02	0.00	0.00	23.91
rs11603726	Phenylacetylca rnitine levels	GCST90199993	11	58903204	T	G	8127	0.08	0.02	0.00	0.00	28.36
rs10773957	Phenylacetylca rnitine levels	GCST90199993	12	1539811	C	T	8127	-0.09	0.02	0.00	0.00	20.91
rs13836938 3	Phenylacetylca rnitine levels	GCST90199993	12	57080752	G	A	8127	-0.28	0.06	0.00	0.00	26.10
rs54712246 7	Phenylacetylca rnitine levels	GCST90199993	12	94643085	A	G	8127	0.38	0.08	0.00	0.00	21.68
rs9571636	Phenylacetylca rnitine levels	GCST90199993	13	66721018	G	C	8127	0.12	0.03	0.00	0.00	20.63
rs78454081	Phenylacetylca rnitine levels	GCST90199993	15	99883231	A	G	8127	-0.07	0.02	0.00	0.00	20.24
rs18117690 3	Phenylacetylca rnitine levels	GCST90199993	16	55556705	A	G	8127	0.21	0.05	0.00	0.00	20.53
rs1105097	Phenylacetylca rnitine levels	GCST90199993	16	71424994	G	C	8127	-0.08	0.02	0.00	0.00	24.59
rs53783986 2	Phenylacetylca rnitine levels	GCST90199993	18	67163890	C	T	8127	-0.30	0.07	0.00	0.00	21.17
rs156340	Phenylacetylca rnitine levels	GCST90199993	20	1852609	T	G	8127	0.12	0.03	0.00	0.00	21.04
rs28375273	Phenylacetylca rnitine levels	GCST90199993	22	44562727	G	A	8127	-0.29	0.06	0.00	0.00	19.90
rs14744102 3	Ethylparaben sulfate levels	GCST90199994	1	241437684	T	C	6408	0.14	0.03	0.00	0.00	21.04
rs14644369 3	Ethylparaben sulfate levels	GCST90199994	2	116555015	A	G	6408	0.25	0.05	0.00	0.00	24.06
rs59181472	Ethylparaben sulfate levels	GCST90199994	7	70781385	A	C	6408	-0.13	0.03	0.00	0.00	20.63
rs14416001 1	Ethylparaben sulfate levels	GCST90199994	8	20927977	G	A	6408	0.28	0.06	0.00	0.00	22.75
rs35538138	Ethylparaben sulfate levels	GCST90199994	9	74128572	C	T	6408	0.08	0.02	0.00	0.00	22.44
rs57830760	Ethylparaben sulfate levels	GCST90199994	9	98174997	G	A	6408	-0.21	0.05	0.00	0.00	20.64
rs18275926 2	Ethylparaben sulfate levels	GCST90199994	10	116359192	A	T	6408	0.24	0.05	0.00	0.00	21.60
rs14891871 9	Ethylparaben sulfate levels	GCST90199994	11	34741430	G	A	6408	0.53	0.11	0.00	0.00	22.36
rs77418486	Ethylparaben sulfate levels	GCST90199994	11	62997841	A	G	6408	-0.16	0.04	0.00	0.00	19.59
rs3016345	Ethylparaben sulfate levels	GCST90199994	11	116600547	A	G	6408	-0.09	0.02	0.00	0.00	19.87
rs11796032 8	Ethylparaben sulfate levels	GCST90199994	12	81314248	T	G	6408	0.13	0.03	0.00	0.00	22.33
rs14915310 9	Ethylparaben sulfate levels	GCST90199994	13	57453608	G	A	6408	-0.34	0.07	0.00	0.00	21.14
rs9542278	Ethylparaben sulfate levels	GCST90199994	13	70320686	G	C	6408	-0.09	0.02	0.00	0.00	22.69
rs67940781	Ethylparaben sulfate levels	GCST90199994	13	111926150	C	A	6408	-0.09	0.02	0.00	0.00	22.16
rs14250904 9	Ethylparaben sulfate levels	GCST90199994	18	78084989	A	G	6408	0.29	0.06	0.00	0.00	23.43
rs56013431	Ethylparaben sulfate levels	GCST90199994	19	2484112	C	T	6408	0.09	0.02	0.00	0.00	23.18
rs74444899	Ethylparaben sulfate levels	GCST90199994	19	45220802	T	C	6408	0.25	0.06	0.00	0.00	19.68

rs180855603	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	2	4112063	A	G	8124	0.31	0.07	0.00	0.00	20.06
rs148904503	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	2	18964228	T	C	8124	0.24	0.05	0.00	0.00	21.73
rs75028074	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	2	75303719	A	G	8124	-0.18	0.04	0.00	0.00	19.69
rs1554600	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	3	61172101	C	G	8124	0.22	0.05	0.00	0.00	20.27
rs113976840	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	3	111703216	A	G	8124	-0.26	0.06	0.00	0.00	21.08
rs458862	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	4	188624805	C	T	8124	-0.07	0.01	0.00	0.00	20.69
rs142797821	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	5	150527663	T	G	8124	-0.40	0.08	0.00	0.00	22.19
rs10947251	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	6	32294175	A	G	8124	0.16	0.03	0.00	0.00	22.20
rs12662965	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	6	110045998	A	G	8124	0.10	0.02	0.00	0.00	20.29
rs11136603	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	8	3306692	G	T	8124	0.07	0.02	0.00	0.00	19.55
rs2552212	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	8	6136577	C	G	8124	0.08	0.02	0.00	0.00	23.50
rs111428438	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	8	127003310	T	C	8124	-0.16	0.03	0.00	0.00	22.37
rs55672367	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	9	16983864	T	C	8124	-0.07	0.02	0.00	0.00	19.86
rs1505614	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	9	78572750	T	C	8124	0.07	0.02	0.00	0.00	19.54

rs57784677	7	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	10	10199213	T	C	8124	-0.34	0.07	0.00	0.00	22.19
rs72853900		levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	11	11635236	A	G	8124	-0.08	0.02	0.00	0.00	22.06
rs1535		levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	11	61830500	G	A	8124	0.19	0.01	0.00	0.02	160.24
rs77913939		levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	12	115565462	C	G	8124	0.27	0.06	0.00	0.00	22.80
rs14018220	8	levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	12	132686257	C	T	8124	-0.58	0.13	0.00	0.00	20.70
rs12590249		levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	14	28498764	T	A	8124	-0.16	0.04	0.00	0.00	21.15
rs7160525		levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	14	63765502	A	G	8124	0.17	0.02	0.00	0.01	82.83
rs72784204		levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	16	26247666	C	A	8124	-0.12	0.03	0.00	0.00	20.55
rs78721618		levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	16	84949975	C	T	8124	-0.26	0.06	0.00	0.00	19.75
rs3803757		levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	17	57286246	A	C	8124	-0.09	0.02	0.00	0.00	20.08
rs4804286		levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	19	8201555	C	G	8124	-0.11	0.02	0.00	0.01	41.69
rs438568		levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	20	12978039	G	A	8124	-0.08	0.01	0.00	0.00	31.47
rs76673557		levels Sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)	GCST90199995	20	17500452	T	C	8124	0.16	0.03	0.00	0.00	25.19
rs11591147		levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	1	55039974	T	G	8255	-0.23	0.05	0.00	0.00	19.86
rs1834191		levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	1	74738224	A	T	8255	0.11	0.02	0.00	0.00	19.65

rs35581844	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	1	234615817	G	A	8255	-0.07	0.01	0.00	0.00	20.84
rs18085560 3	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	2	4112063	A	G	8255	0.30	0.07	0.00	0.00	20.04
rs71323881	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	3	124691296	T	C	8255	-0.26	0.06	0.00	0.00	21.29
rs1381957	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	4	87875547	G	A	8255	-0.09	0.02	0.00	0.00	20.84
rs14748958 5	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	6	733539	T	C	8255	0.21	0.04	0.00	0.00	21.37
rs7756308	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	6	138141336	G	A	8255	-0.06	0.01	0.00	0.00	20.23
rs10455872	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	6	160589086	G	A	8255	0.16	0.03	0.00	0.00	34.32
rs7812898	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	8	112624710	C	T	8255	0.11	0.02	0.00	0.00	26.25
rs56216509	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	9	16987921	T	C	8255	-0.10	0.02	0.00	0.00	20.09
rs76179804	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	10	21880217	T	C	8255	0.26	0.05	0.00	0.00	23.94
rs174548	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	11	61803876	G	C	8255	-0.14	0.02	0.00	0.01	84.58
rs2462407	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	11	107113307	A	T	8255	-0.07	0.01	0.00	0.00	21.03
rs531184	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	11	117241810	T	G	8255	0.08	0.02	0.00	0.00	27.50
rs73016463	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	11	127808883	A	G	8255	0.14	0.03	0.00	0.00	23.82
rs10842621	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	12	25827693	C	G	8255	0.10	0.02	0.00	0.00	20.05
rs10774624	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	12	111395984	A	G	8255	0.07	0.01	0.00	0.00	20.33
rs7135337	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	12	120966352	C	A	8255	0.08	0.01	0.00	0.00	33.27
rs72662369	levels Sphingomyelin (d18:1/20:1, d18:2/20:0)	GCST90199996	14	27306230	T	G	8255	-0.45	0.10	0.00	0.00	20.53

rs34862991	Sphingomyelin (d18:1/20:1, d18:2/20:0) levels	GCST90199996	14	45242113	T	C	8255	-0.16	0.04	0.00	0.00	21.53
rs7158974	Sphingomyelin (d18:1/20:1, d18:2/20:0) levels	GCST90199996	14	63835898	G	A	8255	0.08	0.02	0.00	0.00	24.97
rs78468258	Sphingomyelin (d18:1/20:1, d18:2/20:0) levels	GCST90199996	14	64102114	T	C	8255	0.38	0.08	0.00	0.00	20.83
rs55922751	Sphingomyelin (d18:1/20:1, d18:2/20:0) levels	GCST90199996	16	81393995	C	G	8255	-0.16	0.04	0.00	0.00	20.05
rs11762437 2	Sphingomyelin (d18:1/20:1, d18:2/20:0) levels	GCST90199996	17	79699253	T	C	8255	-0.26	0.05	0.00	0.00	26.37
rs16973789	Sphingomyelin (d18:1/20:1, d18:2/20:0) levels	GCST90199996	18	3445828	A	G	8255	0.14	0.03	0.00	0.00	20.26
rs1466448	Sphingomyelin (d18:1/20:1, d18:2/20:0) levels	GCST90199996	19	8224635	A	C	8255	0.26	0.02	0.00	0.03	224.65
rs390082	Sphingomyelin (d18:1/20:1, d18:2/20:0) levels	GCST90199996	19	44913574	G	T	8255	-0.12	0.02	0.00	0.00	26.19
rs3787092	Sphingomyelin (d18:1/20:1, d18:2/20:0) levels	GCST90199996	20	63684240	T	C	8255	-0.08	0.02	0.00	0.00	22.35
rs4661012	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	1	156915699	G	T	8260	-0.07	0.02	0.00	0.00	22.09
rs11681170 6	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	2	235344474	T	C	8260	0.21	0.04	0.00	0.00	21.18
rs7699977	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	4	11326342	T	C	8260	0.10	0.02	0.00	0.00	24.36
rs33996994	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	4	24064314	C	A	8260	0.07	0.02	0.00	0.00	20.42
rs17185061	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	5	77843412	C	T	8260	-0.08	0.02	0.00	0.00	22.76
rs76834320	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	5	81120289	G	A	8260	-0.21	0.05	0.00	0.00	20.64
rs72818013	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	5	173202716	A	G	8260	-0.19	0.04	0.00	0.00	19.94
rs14467957 6	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	8	2896369	C	T	8260	-0.38	0.08	0.00	0.00	23.94
rs6557782	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	8	22081924	T	C	8260	0.10	0.02	0.00	0.00	22.77

rs75057990	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	9	12056887	A	G	8260	-0.15	0.03	0.00	0.00	21.14
rs76584041	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	9	107124736	T	C	8260	-0.20	0.04	0.00	0.00	20.41
rs12340124	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	9	124100539	A	G	8260	-0.12	0.03	0.00	0.00	20.47
rs18486016 4	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	10	103867854	T	C	8260	0.23	0.05	0.00	0.00	24.83
rs77013487	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	15	27095758	T	C	8260	-0.12	0.03	0.00	0.00	19.87
rs13872995 9	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	15	89687144	T	C	8260	-0.22	0.05	0.00	0.00	20.28
rs12917784	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	16	85643121	C	G	8260	-0.10	0.02	0.00	0.00	21.01
rs10713262	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	17	4788473	C	A	8260	-0.09	0.01	0.00	0.00	33.31
rs12972222	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	19	45009206	A	G	8260	0.07	0.02	0.00	0.00	20.32
rs11797625 9	Behenoyl sphingomyelin (d18:1/22:0) levels	GCST90199997	21	22269887	T	A	8260	-0.33	0.07	0.00	0.00	21.59
rs4655138	Propyl 4- hydroxybenzo ate sulfate	GCST90199998	1	22965089	A	G	7855	0.08	0.02	0.00	0.00	22.90
rs74610042	Propyl 4- hydroxybenzo ate sulfate	GCST90199998	1	110587862	A	G	7855	0.20	0.04	0.00	0.00	20.81
rs74325207	Propyl 4- hydroxybenzo ate sulfate	GCST90199998	2	35638362	T	G	7855	-0.22	0.05	0.00	0.00	20.62
rs1398979	Propyl 4- hydroxybenzo ate sulfate	GCST90199998	2	176716001	T	C	7855	0.13	0.03	0.00	0.00	22.93
rs72906207	Propyl 4- hydroxybenzo ate sulfate	GCST90199998	2	187510092	G	A	7855	-0.29	0.06	0.00	0.00	20.26
rs4241307	Propyl 4- hydroxybenzo ate sulfate	GCST90199998	2	239935280	T	C	7855	-0.07	0.02	0.00	0.00	19.57
rs11344410 7	Propyl 4- hydroxybenzo ate sulfate	GCST90199998	2	240648488	A	G	7855	0.30	0.07	0.00	0.00	19.60
rs4679233	Propyl 4- hydroxybenzo ate sulfate	GCST90199998	3	126280168	C	T	7855	0.12	0.03	0.00	0.00	19.79
rs11532486 6	Propyl 4- hydroxybenzo ate sulfate	GCST90199998	4	187124956	G	T	7855	-0.28	0.06	0.00	0.00	20.97
rs35062966	Propyl 4- hydroxybenzo ate sulfate	GCST90199998	5	31446378	C	T	7855	0.09	0.02	0.00	0.00	19.85
rs62389879	Propyl 4- hydroxybenzo ate sulfate	GCST90199998	6	7954704	A	G	7855	0.08	0.02	0.00	0.00	20.95

rs80335577	Propyl 4-hydroxybenzoate sulfate	GCST90199998	6	106713355	T	C	7855	0.08	0.02	0.00	0.00	20.01
rs117011716	Propyl 4-hydroxybenzoate sulfate	GCST90199998	6	163385541	G	A	7855	-0.25	0.05	0.00	0.00	23.27
rs62648705	Propyl 4-hydroxybenzoate sulfate	GCST90199998	7	5282581	G	A	7855	-0.09	0.02	0.00	0.00	19.88
rs28513342	Propyl 4-hydroxybenzoate sulfate	GCST90199998	9	88582356	T	C	7855	0.11	0.03	0.00	0.00	19.74
rs113546720	Propyl 4-hydroxybenzoate sulfate	GCST90199998	10	94802231	A	G	7855	0.15	0.03	0.00	0.00	23.10
rs75087565	Propyl 4-hydroxybenzoate sulfate	GCST90199998	10	110932907	T	G	7855	0.27	0.05	0.00	0.00	25.51
rs7899253	Propyl 4-hydroxybenzoate sulfate	GCST90199998	10	125114209	G	A	7855	0.11	0.02	0.00	0.00	22.71
rs1458111	Propyl 4-hydroxybenzoate sulfate	GCST90199998	11	81245904	G	T	7855	-0.14	0.03	0.00	0.00	20.16
rs7947910	Propyl 4-hydroxybenzoate sulfate	GCST90199998	11	113126691	A	G	7855	-0.07	0.02	0.00	0.00	20.82
rs3104215	Propyl 4-hydroxybenzoate sulfate	GCST90199998	11	133635687	C	G	7855	-0.08	0.02	0.00	0.00	25.54
rs1289243	Propyl 4-hydroxybenzoate sulfate	GCST90199998	14	86556458	A	T	7855	-0.11	0.02	0.00	0.00	20.47
rs3848177	Propyl 4-hydroxybenzoate sulfate	GCST90199998	15	80779747	T	C	7855	0.09	0.02	0.00	0.00	19.70
rs2457192	Propyl 4-hydroxybenzoate sulfate	GCST90199998	16	12103584	A	C	7855	0.08	0.02	0.00	0.00	21.67
rs117447452	Propyl 4-hydroxybenzoate sulfate	GCST90199998	16	28826014	T	A	7855	-0.28	0.06	0.00	0.00	20.46
rs5030748	Propyl 4-hydroxybenzoate sulfate	GCST90199998	16	75641711	C	T	7855	0.11	0.02	0.00	0.00	19.92
rs62074998	Propyl 4-hydroxybenzoate sulfate	GCST90199998	17	39324569	A	C	7855	-0.14	0.03	0.00	0.00	20.79
rs6073157	Propyl 4-hydroxybenzoate sulfate	GCST90199998	20	43624902	G	A	7855	-0.09	0.02	0.00	0.00	23.11
rs72639855	4-methoxyphenol sulfate levels	GCST90199999	1	15055645	C	T	7500	-0.23	0.04	0.00	0.00	32.67
rs11883630	4-methoxyphenol sulfate levels	GCST90199999	2	47350817	A	T	7500	0.11	0.02	0.00	0.00	22.36
rs62254099	4-methoxyphenol sulfate levels	GCST90199999	3	5382991	G	C	7500	-0.15	0.03	0.00	0.00	22.43
rs11130012	4-methoxyphenol sulfate levels	GCST90199999	3	43781688	G	A	7500	-0.13	0.03	0.00	0.00	21.36
rs11737503	4-methoxyphenol sulfate levels	GCST90199999	4	157779724	A	G	7500	0.07	0.02	0.00	0.00	21.05
rs145188734	4-methoxyphenol sulfate levels	GCST90199999	5	88079306	C	A	7500	0.25	0.06	0.00	0.00	19.90
rs191799318	4-methoxyphenol sulfate levels	GCST90199999	5	141852562	A	G	7500	0.40	0.09	0.00	0.00	21.00

rs1764142	4-methoxyphenol sulfate levels	GCST90199999	6	1011335	C	T	7500	0.11	0.02	0.00	0.00	20.81
rs4732167	4-methoxyphenol sulfate levels	GCST90199999	7	136027616	T	C	7500	-0.20	0.04	0.00	0.00	24.82
rs183725580	4-methoxyphenol sulfate levels	GCST90199999	8	107889988	C	G	7500	0.24	0.05	0.00	0.00	19.76
rs7908059	4-methoxyphenol sulfate levels	GCST90199999	10	122061478	G	A	7500	0.10	0.02	0.00	0.00	21.78
rs61886401	4-methoxyphenol sulfate levels	GCST90199999	11	70658356	A	G	7500	0.15	0.03	0.00	0.00	20.27
rs75985920	4-methoxyphenol sulfate levels	GCST90199999	11	97457794	G	A	7500	-0.13	0.03	0.00	0.00	19.54
rs11063105	4-methoxyphenol sulfate levels	GCST90199999	12	4360221	C	T	7500	0.08	0.02	0.00	0.00	20.14
rs6574914	4-methoxyphenol sulfate levels	GCST90199999	14	86891922	T	C	7500	-0.07	0.02	0.00	0.00	20.30
rs143880550	4-methoxyphenol sulfate levels	GCST90199999	16	5410025	A	G	7500	-0.29	0.06	0.00	0.00	24.13
rs16944868	4-methoxyphenol sulfate levels	GCST90199999	17	11493166	C	A	7500	0.11	0.02	0.00	0.00	27.00
rs10163745	4-methoxyphenol sulfate levels	GCST90199999	18	61483368	T	C	7500	-0.08	0.02	0.00	0.00	22.76
rs56009618	4-methoxyphenol sulfate levels	GCST90199999	19	17399644	A	G	7500	-0.10	0.02	0.00	0.00	22.80
rs77010340	4-methoxyphenol sulfate levels	GCST90199999	20	50025189	C	T	7500	0.34	0.07	0.00	0.00	23.30
rs41297129	Umbelliferone sulfate levels	GCST90200000	1	54602099	A	G	5598	0.39	0.09	0.00	0.00	20.43
rs115797237	Umbelliferone sulfate levels	GCST90200000	1	78106277	T	C	5598	-0.33	0.08	0.00	0.00	19.57
rs140276217	Umbelliferone sulfate levels	GCST90200000	1	114230554	G	C	5598	0.40	0.09	0.00	0.00	21.98
rs7666384	Umbelliferone sulfate levels	GCST90200000	4	131945928	G	A	5598	0.11	0.02	0.00	0.00	21.05
rs12331928	Umbelliferone sulfate levels	GCST90200000	4	184148495	C	T	5598	-0.20	0.04	0.00	0.00	24.89
rs113282942	Umbelliferone sulfate levels	GCST90200000	5	57033075	A	G	5598	-0.14	0.03	0.00	0.00	22.03
rs57832402	Umbelliferone sulfate levels	GCST90200000	5	179019122	G	T	5598	0.18	0.04	0.00	0.00	22.45
rs115756118	Umbelliferone sulfate levels	GCST90200000	6	25792683	T	C	5598	-0.53	0.11	0.00	0.00	25.60
rs77281538	Umbelliferone sulfate levels	GCST90200000	6	140881920	A	T	5598	-0.22	0.05	0.00	0.00	19.86
rs10233957	Umbelliferone sulfate levels	GCST90200000	7	68371037	A	G	5598	0.27	0.05	0.00	0.00	24.69
rs80068042	Umbelliferone sulfate levels	GCST90200000	7	156109985	T	C	5598	0.45	0.09	0.00	0.00	22.95
rs141683794	Umbelliferone sulfate levels	GCST90200000	9	77027271	A	G	5598	0.35	0.08	0.00	0.00	20.64
rs17836435	Umbelliferone sulfate levels	GCST90200000	10	48766875	G	A	5598	0.21	0.05	0.00	0.00	20.28
rs11594760	Umbelliferone sulfate levels	GCST90200000	10	128769137	T	C	5598	-0.17	0.04	0.00	0.00	20.00
rs4945415	Umbelliferone sulfate levels	GCST90200000	11	80506473	T	C	5598	-0.09	0.02	0.00	0.00	20.27
rs77945288	Umbelliferone sulfate levels	GCST90200000	11	130370512	C	T	5598	0.16	0.04	0.00	0.00	19.66
rs7311733	Umbelliferone sulfate levels	GCST90200000	12	83143573	T	C	5598	0.30	0.06	0.00	0.00	21.37

rs139208363	Umbelliferone sulfate levels	GCST90200000	14	61490564	G	T	5598	0.44	0.09	0.00	0.00	23.33
rs8058776	Umbelliferone sulfate levels	GCST90200000	16	71447206	C	T	5598	0.10	0.02	0.00	0.00	23.21
rs62062013	Umbelliferone sulfate levels	GCST90200000	17	11278915	T	C	5598	-0.10	0.02	0.00	0.00	24.87
rs4802863	Umbelliferone sulfate levels	GCST90200000	19	51765719	C	T	5598	0.09	0.02	0.00	0.00	19.55
rs117570221	Umbelliferone sulfate levels	GCST90200000	20	42554139	T	G	5598	0.57	0.12	0.00	0.00	21.71
rs6069980	Umbelliferone sulfate levels	GCST90200000	20	57087103	A	G	5598	0.14	0.03	0.00	0.00	20.57
rs542729640	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	1	243166694	A	G	8257	-0.24	0.05	0.00	0.00	19.57
rs74711397	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	2	6909053	T	C	8257	-0.21	0.05	0.00	0.00	20.61
rs143380194	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	3	52486851	T	C	8257	-0.29	0.06	0.00	0.00	22.41
rs35737996	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	4	118887105	T	C	8257	0.07	0.02	0.00	0.00	20.02
rs116489503	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	5	28258936	T	C	8257	0.21	0.04	0.00	0.00	27.78
rs74617384	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	6	160576086	T	A	8257	0.18	0.03	0.00	0.00	37.57
rs435184	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	7	94430032	G	T	8257	0.15	0.03	0.00	0.00	27.42
rs11989411	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	8	8533707	A	G	8257	0.09	0.02	0.00	0.00	25.85
rs62491043	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	8	26485411	A	C	8257	-0.23	0.05	0.00	0.00	24.15
rs10106852	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	8	69644312	G	A	8257	0.07	0.02	0.00	0.00	19.60
rs16934446	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	9	16325342	T	C	8257	0.22	0.04	0.00	0.00	24.13
rs570241748	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	9	29936646	C	A	8257	0.17	0.04	0.00	0.00	19.90
rs45461899	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	9	92068074	A	C	8257	-0.24	0.05	0.00	0.00	25.84
rs4149310	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	9	104826853	T	A	8257	0.09	0.02	0.00	0.00	20.28
rs117536156	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	9	129694711	C	T	8257	0.21	0.04	0.00	0.00	23.46

rs34997924	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	9	131337527	C	A	8257	0.09	0.02	0.00	0.00	21.48
rs73202289	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	12	115200586	T	C	8257	0.26	0.06	0.00	0.00	20.90
rs79785522	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	13	45751541	T	C	8257	-0.30	0.07	0.00	0.00	20.16
rs116953069	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	13	108996880	C	G	8257	0.28	0.06	0.00	0.00	21.63
rs7160525	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	14	63765502	A	G	8257	0.30	0.02	0.00	0.03	228.64
rs1871194	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	19	8218935	A	C	8257	0.20	0.02	0.00	0.02	162.50
rs144894536	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	19	32636723	A	C	8257	0.20	0.04	0.00	0.00	22.41
rs1065853	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	19	44909976	T	G	8257	-0.19	0.03	0.00	0.01	49.99
rs4814176	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	20	12978750	C	T	8257	-0.18	0.02	0.00	0.02	136.16
rs6033968	Sphingomyelin (d18:1/20:0, d16:1/22:0) levels	GCST90200001	20	14485499	A	G	8257	-0.08	0.02	0.00	0.00	21.25
rs140560919	6- hydroxyindole sulfate levels	GCST90200002	1	147564521	C	T	8229	0.29	0.07	0.00	0.00	19.71
rs77225114	6- hydroxyindole sulfate levels	GCST90200002	1	247845413	C	G	8229	-0.26	0.06	0.00	0.00	19.58
rs2030458	6- hydroxyindole sulfate levels	GCST90200002	2	211512036	C	T	8229	0.07	0.02	0.00	0.00	22.96
rs146369127	6- hydroxyindole sulfate levels	GCST90200002	3	22383982	A	G	8229	0.30	0.06	0.00	0.00	28.63
rs1976170	6- hydroxyindole sulfate levels	GCST90200002	4	26529780	T	C	8229	-0.10	0.02	0.00	0.00	21.69
rs191105317	6- hydroxyindole sulfate levels	GCST90200002	4	128815359	G	C	8229	-0.38	0.07	0.00	0.00	29.16
rs13176353	6- hydroxyindole sulfate levels	GCST90200002	5	1801312	C	G	8229	-0.11	0.02	0.00	0.00	19.94
rs2496679	6- hydroxyindole sulfate levels	GCST90200002	6	80609375	C	T	8229	0.23	0.05	0.00	0.00	22.30
rs34104191	6- hydroxyindole sulfate levels	GCST90200002	8	34118065	G	A	8229	-0.14	0.03	0.00	0.00	19.75
rs80125158	6- hydroxyindole sulfate levels	GCST90200002	8	56245827	G	A	8229	0.25	0.05	0.00	0.00	22.41
rs1031548	6- hydroxyindole sulfate levels	GCST90200002	8	135423945	C	T	8229	-0.07	0.02	0.00	0.00	19.55

rs11144772	6-hydroxyindole sulfate levels	GCST90200002	9	76169577	T	A	8229	0.12	0.03	0.00	0.00	20.09
rs11760090	6-hydroxyindole sulfate levels	GCST90200002	9	89175466	C	T	8229	0.21	0.04	0.00	0.00	22.59
rs74334677	6-hydroxyindole sulfate levels	GCST90200002	10	59568572	A	G	8229	-0.22	0.04	0.00	0.00	23.21
rs1323136	6-hydroxyindole sulfate levels	GCST90200002	13	43440333	C	T	8229	0.11	0.03	0.00	0.00	19.73
rs12931309	6-hydroxyindole sulfate levels	GCST90200002	16	81894120	G	C	8229	0.07	0.02	0.00	0.00	19.83
rs60621034	6-hydroxyindole sulfate levels	GCST90200002	17	3509921	A	G	8229	0.26	0.06	0.00	0.00	20.25
rs10424182	6-hydroxyindole sulfate levels	GCST90200002	19	431029	A	T	8229	-0.07	0.02	0.00	0.00	20.01
rs56113850	6-hydroxyindole sulfate levels	GCST90200002	19	40847202	C	T	8229	-0.11	0.02	0.00	0.01	51.82
rs55851033	P-cresol glucuronide levels	GCST90200003	1	12060831	C	A	7969	-0.08	0.02	0.00	0.00	19.77
rs11590158	P-cresol glucuronide levels	GCST90200003	1	62022399	T	C	7969	0.11	0.02	0.00	0.00	24.03
rs2247536	P-cresol glucuronide levels	GCST90200003	1	77453753	C	G	7969	0.08	0.02	0.00	0.00	23.10
rs12125138	P-cresol glucuronide levels	GCST90200003	1	162230826	T	C	7969	-0.15	0.03	0.00	0.00	20.98
rs72738443	P-cresol glucuronide levels	GCST90200003	1	195332831	G	C	7969	-0.12	0.02	0.00	0.00	24.70
rs11892031	P-cresol glucuronide levels	GCST90200003	2	233656637	C	A	7969	0.20	0.03	0.00	0.01	57.66
rs114095287	P-cresol glucuronide levels	GCST90200003	3	1249724	G	A	7969	-0.27	0.06	0.00	0.00	22.50
rs2948136	P-cresol glucuronide levels	GCST90200003	3	183490829	C	G	7969	0.08	0.02	0.00	0.00	22.08
rs59946080	P-cresol glucuronide levels	GCST90200003	5	1097389	G	A	7969	-0.14	0.03	0.00	0.00	20.46
rs75889380	P-cresol glucuronide levels	GCST90200003	5	109540246	C	T	7969	-0.11	0.02	0.00	0.00	20.90
rs62442034	P-cresol glucuronide levels	GCST90200003	6	151785071	A	G	7969	-0.23	0.05	0.00	0.00	20.76
rs112988633	P-cresol glucuronide levels	GCST90200003	7	149248957	T	C	7969	-0.28	0.06	0.00	0.00	21.52
rs115572123	P-cresol glucuronide levels	GCST90200003	8	51985680	A	T	7969	0.20	0.04	0.00	0.00	21.06
rs41316508	P-cresol glucuronide levels	GCST90200003	9	130234667	T	C	7969	-0.22	0.05	0.00	0.00	21.56
rs1163173	P-cresol glucuronide levels	GCST90200003	10	68847810	C	A	7969	-0.08	0.02	0.00	0.00	19.72
rs148515684	P-cresol glucuronide levels	GCST90200003	11	32806391	A	G	7969	0.30	0.07	0.00	0.00	20.71

rs9580191	P-cresol glucuronide levels	GCST90200003	13	21714197	T	C	7969	0.45	0.09	0.00	0.00	26.91
rs55916120	P-cresol glucuronide levels	GCST90200003	16	3727835	C	T	7969	0.21	0.05	0.00	0.00	21.66
rs76764777	P-cresol glucuronide levels	GCST90200003	16	28522875	T	C	7969	-0.20	0.04	0.00	0.00	23.80
rs165202	P-cresol glucuronide levels	GCST90200003	16	66651246	C	G	7969	-0.08	0.02	0.00	0.00	25.49
rs56188113	P-cresol glucuronide levels	GCST90200003	17	2788547	T	C	7969	0.07	0.02	0.00	0.00	19.69
rs6021561	P-cresol glucuronide levels	GCST90200003	20	51941852	A	G	7969	-0.10	0.02	0.00	0.00	22.38
rs73141645	P-cresol glucuronide levels	GCST90200003	21	24503232	T	A	7969	0.23	0.05	0.00	0.00	20.60
rs18899149 1	P-cresol glucuronide levels	GCST90200003	21	28101409	A	C	7969	0.18	0.04	0.00	0.00	20.27
rs14750842 2	N- carbamoylalan ine levels	GCST90200004	1	3693115	T	C	7315	0.41	0.09	0.00	0.00	21.23
rs4915700	N- carbamoylalan ine levels	GCST90200004	1	60712301	A	C	7315	-0.07	0.02	0.00	0.00	20.09
rs15117549 7	N- carbamoylalan ine levels	GCST90200004	3	5218806	G	A	7315	0.58	0.13	0.00	0.00	19.87
rs11544319 1	N- carbamoylalan ine levels	GCST90200004	3	147982859	T	C	7315	-0.23	0.05	0.00	0.00	20.95
rs11261783 2	N- carbamoylalan ine levels	GCST90200004	3	191444712	G	A	7315	0.34	0.08	0.00	0.00	20.02
rs2328848	N- carbamoylalan ine levels	GCST90200004	6	25175088	A	G	7315	-0.09	0.02	0.00	0.00	22.29
rs62445400	N- carbamoylalan ine levels	GCST90200004	7	36193156	A	G	7315	-0.16	0.04	0.00	0.00	19.84
rs2725017	N- carbamoylalan ine levels	GCST90200004	8	4675237	A	C	7315	0.07	0.02	0.00	0.00	19.86
rs11166780	N- carbamoylalan ine levels	GCST90200004	8	138077289	C	A	7315	0.14	0.03	0.00	0.00	22.47
rs1231343	N- carbamoylalan ine levels	GCST90200004	9	25742533	A	G	7315	-0.08	0.02	0.00	0.00	19.76
rs72721226	N- carbamoylalan ine levels	GCST90200004	9	31908240	A	G	7315	0.21	0.04	0.00	0.00	22.03
rs10512206	N- carbamoylalan ine levels	GCST90200004	9	91198836	A	G	7315	-0.09	0.02	0.00	0.00	21.07
rs11255253	N- carbamoylalan ine levels	GCST90200004	10	7625744	G	A	7315	0.13	0.03	0.00	0.00	21.08
rs76542265	N- carbamoylalan ine levels	GCST90200004	10	98334822	G	A	7315	-0.33	0.08	0.00	0.00	19.52
rs1872795	N- carbamoylalan ine levels	GCST90200004	11	11486498	C	T	7315	0.07	0.02	0.00	0.00	21.11
rs224634	N- carbamoylalan ine levels	GCST90200004	11	32059069	A	G	7315	0.08	0.02	0.00	0.00	19.82

rs4548586	N-carbamoylalanine levels	GCST90200004	11	100481409	G	A	7315	0.12	0.02	0.00	0.00	24.70
rs10400558	N-carbamoylalanine levels	GCST90200004	12	77093892	C	T	7315	0.07	0.02	0.00	0.00	20.32
rs2472297	N-carbamoylalanine levels	GCST90200004	15	74735539	T	C	7315	0.08	0.02	0.00	0.00	20.24
rs12939184	N-carbamoylalanine levels	GCST90200004	17	1380606	A	G	7315	-0.19	0.04	0.00	0.00	19.70
rs146638171	N-carbamoylalanine levels	GCST90200004	18	59844878	T	C	7315	-0.14	0.03	0.00	0.00	19.72
rs111738193	N-carbamoylalanine levels	GCST90200004	20	23486533	A	T	7315	-0.16	0.04	0.00	0.00	19.87
rs60136931	N-carbamoylalanine levels	GCST90200004	22	24536073	C	G	7315	-0.24	0.05	0.00	0.00	21.00
rs74490328	utaconate levels	GCST90200005	1	44715230	C	T	8263	-0.34	0.07	0.00	0.00	24.32
rs114830966	Citraconate/utaconate levels	GCST90200005	1	74384420	A	G	8263	-0.38	0.08	0.00	0.00	23.82
rs7536769	Citraconate/utaconate levels	GCST90200005	1	167172538	A	T	8263	-0.13	0.03	0.00	0.00	20.74
rs116020639	Citraconate/utaconate levels	GCST90200005	2	64880349	C	T	8263	-0.28	0.06	0.00	0.00	20.22
rs73157005	Citraconate/utaconate levels	GCST90200005	3	149903681	A	G	8263	0.09	0.02	0.00	0.00	22.02
rs55829733	Citraconate/utaconate levels	GCST90200005	4	23160499	C	A	8263	0.09	0.02	0.00	0.00	21.06
rs142966147	Citraconate/utaconate levels	GCST90200005	4	115267849	T	A	8263	-0.37	0.08	0.00	0.00	19.54
rs2654767	Citraconate/utaconate levels	GCST90200005	4	172342285	G	A	8263	-0.10	0.02	0.00	0.00	20.21
rs146385245	Citraconate/utaconate levels	GCST90200005	5	170156623	G	T	8263	-0.30	0.07	0.00	0.00	20.64
rs148640827	Citraconate/utaconate levels	GCST90200005	6	64944711	A	G	8263	0.39	0.09	0.00	0.00	20.85
rs10088682	Citraconate/utaconate levels	GCST90200005	8	58287443	T	C	8263	0.08	0.02	0.00	0.00	23.66
rs11029694	Citraconate/utaconate levels	GCST90200005	11	26752104	C	T	8263	-0.09	0.02	0.00	0.00	26.37
rs117704546	Citraconate/utaconate levels	GCST90200005	11	105694504	T	C	8263	0.17	0.04	0.00	0.00	20.13
rs74069834	Citraconate/utaconate levels	GCST90200005	12	21946362	G	A	8263	-0.27	0.06	0.00	0.00	21.27
rs61953400	Citraconate/utaconate levels	GCST90200005	12	121176481	A	G	8263	-0.25	0.05	0.00	0.00	22.16
rs117728044	Citraconate/utaconate levels	GCST90200005	13	39575423	G	A	8263	-0.25	0.06	0.00	0.00	19.92
rs116902366	Citraconate/utaconate levels	GCST90200005	13	53321009	T	C	8263	0.36	0.08	0.00	0.00	22.46

rs11552004 4	Citraconate/gl utaconate levels	GCST90200005	14	49488289	A	G	8263	0.28	0.06	0.00	0.00	21.49
rs12434976	Citraconate/gl utaconate levels	GCST90200005	14	98185870	C	A	8263	0.08	0.02	0.00	0.00	20.03
rs2472297	Citraconate/gl utaconate levels	GCST90200005	15	74735539	T	C	8263	0.09	0.02	0.00	0.00	27.11
rs7497971	Citraconate/gl utaconate levels	GCST90200005	15	91685871	A	G	8263	-0.07	0.02	0.00	0.00	20.31
rs72786433	Citraconate/gl utaconate levels	GCST90200005	16	66345653	T	G	8263	0.30	0.06	0.00	0.00	23.02
rs11807468 5	Citraconate/gl utaconate levels	GCST90200005	17	35080621	C	T	8263	0.18	0.03	0.00	0.00	28.10
rs2431798	Citraconate/gl utaconate levels	GCST90200005	19	55619339	T	C	8263	0.08	0.02	0.00	0.00	20.28
rs2245730	Citraconate/gl utaconate levels	GCST90200005	21	42705218	C	A	8263	-0.07	0.02	0.00	0.00	22.36
rs76692181	1,2,3- benzenetriol sulfate (2) levels	GCST90200006	1	27145396	C	T	7484	-0.22	0.05	0.00	0.00	20.30
rs12751488	1,2,3- benzenetriol sulfate (2) levels	GCST90200006	1	160164570	T	A	7484	-0.17	0.04	0.00	0.00	21.51
rs2243457	1,2,3- benzenetriol sulfate (2) levels	GCST90200006	1	182214489	C	A	7484	0.09	0.02	0.00	0.00	24.49
rs14803698 7	1,2,3- benzenetriol sulfate (2) levels	GCST90200006	1	244752507	C	T	7484	-0.37	0.08	0.00	0.00	22.22
rs18689086 4	1,2,3- benzenetriol sulfate (2) levels	GCST90200006	2	42406199	C	T	7484	-0.99	0.22	0.00	0.00	20.10
rs2241675	1,2,3- benzenetriol sulfate (2) levels	GCST90200006	3	127030174	C	T	7484	-0.12	0.03	0.00	0.00	20.71
rs1419043	1,2,3- benzenetriol sulfate (2) levels	GCST90200006	4	3027401	G	C	7484	-0.13	0.03	0.00	0.00	19.57
rs19298703 5	1,2,3- benzenetriol sulfate (2) levels	GCST90200006	6	7558933	T	A	7484	0.42	0.09	0.00	0.00	20.51
rs14234144 5	1,2,3- benzenetriol sulfate (2) levels	GCST90200006	6	98296310	C	A	7484	-0.22	0.05	0.00	0.00	19.79
rs10272016	1,2,3- benzenetriol sulfate (2) levels	GCST90200006	7	16614709	C	T	7484	0.11	0.03	0.00	0.00	19.95
rs73128430	1,2,3- benzenetriol sulfate (2) levels	GCST90200006	7	39268898	A	G	7484	-0.09	0.02	0.00	0.00	20.17
rs963280	1,2,3- benzenetriol sulfate (2) levels	GCST90200006	7	138603118	T	C	7484	-0.08	0.02	0.00	0.00	21.85

rs181238325	1,2,3-benzenetriol sulfate (2) levels	GCST90200006	8	31236939	A	T	7484	-0.74	0.16	0.00	0.00	21.06
rs11596869	1,2,3-benzenetriol sulfate (2) levels	GCST90200006	10	28911037	C	T	7484	0.13	0.03	0.00	0.00	21.58
rs145086629	1,2,3-benzenetriol sulfate (2) levels	GCST90200006	10	89186860	A	G	7484	0.26	0.06	0.00	0.00	21.51
rs35238107	1,2,3-benzenetriol sulfate (2) levels	GCST90200006	10	120479042	C	T	7484	-0.12	0.03	0.00	0.00	20.50
rs78261830	1,2,3-benzenetriol sulfate (2) levels	GCST90200006	13	73026542	G	A	7484	0.09	0.02	0.00	0.00	21.42
rs73271265	1,2,3-benzenetriol sulfate (2) levels	GCST90200006	14	31633033	A	C	7484	-0.10	0.02	0.00	0.00	21.34
rs201097235	1,2,3-benzenetriol sulfate (2) levels	GCST90200006	14	48345701	T	C	7484	-1.14	0.25	0.00	0.00	20.04
rs2261745	1,2,3-benzenetriol sulfate (2) levels	GCST90200006	16	31823285	C	A	7484	0.08	0.02	0.00	0.00	22.09
rs36025095	1,2,3-benzenetriol sulfate (2) levels	GCST90200006	16	78152122	A	G	7484	-0.12	0.03	0.00	0.00	20.52
rs139853023	1,2,3-benzenetriol sulfate (2) levels	GCST90200006	17	4904003	A	G	7484	0.41	0.09	0.00	0.00	22.48
rs112211582	1,2,3-benzenetriol sulfate (2) levels	GCST90200006	19	1256206	T	G	7484	-0.30	0.06	0.00	0.00	22.06
rs78973370	1,2,3-benzenetriol sulfate (2) levels	GCST90200006	21	41855213	A	G	7484	0.14	0.03	0.00	0.00	19.77
rs3128372	3-methoxycatechol sulfate (2) levels	GCST90200007	1	112314964	G	C	7286	0.08	0.02	0.00	0.00	20.86
rs4611006	3-methoxycatechol sulfate (2) levels	GCST90200007	1	223371772	C	T	7286	0.08	0.02	0.00	0.00	19.84
rs62273053	3-methoxycatechol sulfate (2) levels	GCST90200007	3	146859413	A	G	7286	0.34	0.07	0.00	0.00	21.12
rs142232430	3-methoxycatechol sulfate (2) levels	GCST90200007	3	159319881	A	G	7286	0.40	0.08	0.00	0.00	25.39
rs7665238	3-methoxycatechol sulfate (2) levels	GCST90200007	4	123408577	A	G	7286	0.09	0.02	0.00	0.00	20.76
rs11724679	3-methoxycatechol sulfate (2) levels	GCST90200007	4	142879208	G	A	7286	-0.15	0.03	0.00	0.00	22.99

rs12647578	3-methoxycatechol sulfate (2) levels	GCST90200007	4	157770910	A	T	7286	0.09	0.02	0.00	0.00	27.61
rs10003807	3-methoxycatechol sulfate (2) levels	GCST90200007	4	180261212	C	T	7286	-0.21	0.04	0.00	0.00	25.57
rs4945580	3-methoxycatechol sulfate (2) levels	GCST90200007	6	117256849	G	C	7286	-0.17	0.04	0.00	0.00	20.52
rs62428058	3-methoxycatechol sulfate (2) levels	GCST90200007	6	121730944	A	G	7286	0.13	0.03	0.00	0.00	21.23
rs10499279	3-methoxycatechol sulfate (2) levels	GCST90200007	6	156622282	G	C	7286	-0.09	0.02	0.00	0.00	21.41
rs118101266	3-methoxycatechol sulfate (2) levels	GCST90200007	7	52069297	T	G	7286	0.41	0.09	0.00	0.00	20.27
rs144886872	3-methoxycatechol sulfate (2) levels	GCST90200007	7	136007807	G	A	7286	0.42	0.08	0.00	0.00	30.11
rs71523652	3-methoxycatechol sulfate (2) levels	GCST90200007	8	4909961	T	A	7286	0.09	0.02	0.00	0.00	22.56
rs117725273	3-methoxycatechol sulfate (2) levels	GCST90200007	9	97540333	G	C	7286	-0.29	0.06	0.00	0.00	25.56
rs2027378	3-methoxycatechol sulfate (2) levels	GCST90200007	10	6898416	G	T	7286	0.10	0.02	0.00	0.00	19.89
rs7935436	3-methoxycatechol sulfate (2) levels	GCST90200007	11	81547856	C	T	7286	0.08	0.02	0.00	0.00	21.44
rs73006493	3-methoxycatechol sulfate (2) levels	GCST90200007	11	109366546	C	T	7286	-0.15	0.03	0.00	0.00	19.63
rs2511857	3-methoxycatechol sulfate (2) levels	GCST90200007	11	119271102	T	A	7286	0.08	0.02	0.00	0.00	20.97
rs56681315	3-methoxycatechol sulfate (2) levels	GCST90200007	14	33441571	T	C	7286	0.12	0.03	0.00	0.00	20.71
rs116896552	3-methoxycatechol sulfate (2) levels	GCST90200007	14	52703842	T	C	7286	0.18	0.04	0.00	0.00	22.30
rs117959567	3-methoxycatechol sulfate (2) levels	GCST90200007	16	1190070	T	G	7286	0.47	0.10	0.00	0.00	21.38
rs141596626	3-methoxycatechol sulfate (2) levels	GCST90200007	18	40744273	A	G	7286	0.50	0.10	0.00	0.00	24.70
rs2112460	3-methoxycatechol sulfate (2) levels	GCST90200007	19	13479598	A	G	7286	0.08	0.02	0.00	0.00	22.46

rs138296028	C- glycosyltrypto phan levels	GCST90200008	1	23161933	A	G	8204	-0.22	0.05	0.00	0.00	22.71
rs633723	C- glycosyltrypto phan levels	GCST90200008	1	56927881	G	A	8204	0.07	0.01	0.00	0.00	24.55
rs142952905	C- glycosyltrypto phan levels	GCST90200008	1	69783552	G	T	8204	0.29	0.07	0.00	0.00	19.86
rs75063835	C- glycosyltrypto phan levels	GCST90200008	1	116669956	A	G	8204	-0.19	0.04	0.00	0.00	22.25
rs144247265	C- glycosyltrypto phan levels	GCST90200008	1	173511795	C	T	8204	0.21	0.05	0.00	0.00	20.92
rs73226533	C- glycosyltrypto phan levels	GCST90200008	2	20885269	T	C	8204	-0.13	0.03	0.00	0.00	21.51
rs12713938	C- glycosyltrypto phan levels	GCST90200008	2	78032953	G	T	8204	0.06	0.01	0.00	0.00	20.99
rs57445671	C- glycosyltrypto phan levels	GCST90200008	2	211512318	C	T	8204	0.11	0.02	0.00	0.00	24.05
rs13319552	C- glycosyltrypto phan levels	GCST90200008	3	16649366	A	G	8204	-0.10	0.02	0.00	0.00	25.01
rs9816613	C- glycosyltrypto phan levels	GCST90200008	3	31397458	A	T	8204	-0.08	0.02	0.00	0.00	21.21
rs711977	C- glycosyltrypto phan levels	GCST90200008	3	136508545	A	G	8204	0.07	0.01	0.00	0.00	23.27
rs73195880	C- glycosyltrypto phan levels	GCST90200008	4	4328027	T	C	8204	-0.17	0.04	0.00	0.00	22.44
rs144098166	C- glycosyltrypto phan levels	GCST90200008	4	5519291	G	A	8204	0.31	0.07	0.00	0.00	20.89
rs7654754	C- glycosyltrypto phan levels	GCST90200008	4	76488642	A	G	8204	0.09	0.01	0.00	0.01	43.81
rs150639732	C- glycosyltrypto phan levels	GCST90200008	4	141026937	A	G	8204	-0.24	0.05	0.00	0.00	19.90
rs35249952	C- glycosyltrypto phan levels	GCST90200008	5	1885356	T	C	8204	-0.10	0.02	0.00	0.00	21.69
rs153408	C- glycosyltrypto phan levels	GCST90200008	5	16788259	A	G	8204	0.07	0.01	0.00	0.00	21.02
rs73088363	C- glycosyltrypto phan levels	GCST90200008	5	40983425	C	G	8204	0.09	0.02	0.00	0.00	23.32
rs29543	C- glycosyltrypto phan levels	GCST90200008	5	107470737	G	A	8204	-0.07	0.02	0.00	0.00	21.24
rs4913050	C- glycosyltrypto phan levels	GCST90200008	5	145902546	A	C	8204	-0.13	0.03	0.00	0.00	24.83
rs188221259	C- glycosyltrypto phan levels	GCST90200008	6	158180786	G	A	8204	-0.18	0.04	0.00	0.00	23.10
rs13269710	C- glycosyltrypto phan levels	GCST90200008	8	37462040	A	G	8204	0.08	0.02	0.00	0.00	20.18
rs56232555	C- glycosyltrypto phan levels	GCST90200008	8	71298833	C	G	8204	0.17	0.04	0.00	0.00	20.05
rs76083228	C- glycosyltrypto phan levels	GCST90200008	11	90012978	G	T	8204	-0.15	0.03	0.00	0.00	22.95

rs1506925	C- glycosyltrypto phan levels	GCST90200008	12	61191667	C	G	8204	0.11	0.02	0.00	0.00	22.66
rs11612557	C- glycosyltrypto phan levels	GCST90200008	12	105084034	G	T	8204	-0.09	0.02	0.00	0.00	21.09
rs77924615	C- glycosyltrypto phan levels	GCST90200008	16	20381010	A	G	8204	-0.10	0.02	0.00	0.00	34.89
rs79401650	C- glycosyltrypto phan levels	GCST90200008	17	53447235	A	G	8204	-0.14	0.03	0.00	0.00	20.75
rs60155418	C- glycosyltrypto phan levels	GCST90200008	18	58996976	T	C	8204	0.15	0.03	0.00	0.00	19.68
rs10163567	C- glycosyltrypto phan levels	GCST90200008	18	73336766	G	A	8204	-0.06	0.01	0.00	0.00	20.33
rs14782365 3	C- glycosyltrypto phan levels	GCST90200008	19	31223262	C	G	8204	-0.37	0.08	0.00	0.00	21.61
rs14762414 2	C- glycosyltrypto phan levels	GCST90200008	19	51785019	A	G	8204	-0.24	0.05	0.00	0.00	20.89
rs11674760 8	3- methoxycatech ol sulfate (1) levels	GCST90200009	1	91408871	G	A	8194	-0.30	0.07	0.00	0.00	20.91
rs6546640	3- methoxycatech ol sulfate (1) levels	GCST90200009	2	70801888	C	T	8194	0.08	0.02	0.00	0.00	19.86
rs75307382	3- methoxycatech ol sulfate (1) levels	GCST90200009	2	171357788	A	G	8194	0.30	0.06	0.00	0.00	21.76
rs317609	3- methoxycatech ol sulfate (1) levels	GCST90200009	3	4034319	A	G	8194	0.07	0.02	0.00	0.00	19.75
rs17638166	3- methoxycatech ol sulfate (1) levels	GCST90200009	3	22185876	C	G	8194	0.07	0.02	0.00	0.00	21.86
rs7433661	3- methoxycatech ol sulfate (1) levels	GCST90200009	3	79061463	T	G	8194	0.08	0.02	0.00	0.00	23.62
rs2471342	3- methoxycatech ol sulfate (1) levels	GCST90200009	4	3041693	T	C	8194	-0.14	0.03	0.00	0.00	23.92
rs14095827 6	3- methoxycatech ol sulfate (1) levels	GCST90200009	4	67673911	A	G	8194	0.62	0.14	0.00	0.00	20.66
rs11645534 4	3- methoxycatech ol sulfate (1) levels	GCST90200009	4	111083820	A	G	8194	-0.15	0.03	0.00	0.00	21.57
rs13138509	3- methoxycatech ol sulfate (1) levels	GCST90200009	4	153463532	A	G	8194	0.08	0.02	0.00	0.00	22.11
rs11449261 7	3- methoxycatech ol sulfate (1) levels	GCST90200009	4	187327878	A	G	8194	-0.43	0.09	0.00	0.00	22.19
rs73284655	3- methoxycatech ol sulfate (1) levels	GCST90200009	5	121587006	G	A	8194	-0.16	0.03	0.00	0.00	23.93

rs34101156	3-methoxycatechol sulfate (1) levels	GCST90200009	6	166928210	C	T	8194	0.13	0.03	0.00	0.00	20.58
rs12531256	3-methoxycatechol sulfate (1) levels	GCST90200009	7	17242196	T	C	8194	0.07	0.02	0.00	0.00	20.01
rs118050676	3-methoxycatechol sulfate (1) levels	GCST90200009	7	50349479	C	T	8194	0.23	0.05	0.00	0.00	22.76
rs7795670	3-methoxycatechol sulfate (1) levels	GCST90200009	7	156462105	C	T	8194	-0.09	0.02	0.00	0.00	20.90
rs78217154	3-methoxycatechol sulfate (1) levels	GCST90200009	8	100541844	C	T	8194	-0.25	0.05	0.00	0.00	21.18
rs11596869	3-methoxycatechol sulfate (1) levels	GCST90200009	10	28911037	C	T	8194	0.12	0.03	0.00	0.00	21.78
rs144192681	3-methoxycatechol sulfate (1) levels	GCST90200009	12	104543256	A	G	8194	0.29	0.06	0.00	0.00	22.02
rs11627671	3-methoxycatechol sulfate (1) levels	GCST90200009	14	64841755	T	A	8194	-0.17	0.04	0.00	0.00	20.14
rs8045017	3-methoxycatechol sulfate (1) levels	GCST90200009	16	17553144	A	G	8194	-0.08	0.02	0.00	0.00	22.13
rs117277541	3-methoxycatechol sulfate (1) levels	GCST90200009	20	48537001	T	C	8194	0.27	0.06	0.00	0.00	19.60
rs134785	3-methoxycatechol sulfate (1) levels	GCST90200009	22	27256328	G	A	8194	0.08	0.02	0.00	0.00	21.78
rs12725281	Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1) levels	GCST90200010	1	70970743	T	C	8246	0.26	0.06	0.00	0.00	22.11
rs187423453	Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1) levels	GCST90200010	1	243168803	C	G	8246	-0.22	0.05	0.00	0.00	19.70
rs7626857	Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1) levels	GCST90200010	3	33884633	A	G	8246	-0.07	0.01	0.00	0.00	24.59
rs1031933	Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1) levels	GCST90200010	3	78956785	G	A	8246	-0.11	0.02	0.00	0.00	20.43
rs13145689	Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1) levels	GCST90200010	4	110187864	G	A	8246	0.07	0.02	0.00	0.00	19.51
rs74617384	Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1) levels	GCST90200010	6	160576086	T	A	8246	0.16	0.03	0.00	0.00	35.32

rs73043514	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	7	2000920	T	C	8246	-0.16	0.04	0.00	0.00	21.34
rs139374679	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	8	112639073	G	T	8246	-0.12	0.02	0.00	0.00	22.55
rs16934446	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	9	16325342	T	C	8246	0.20	0.04	0.00	0.00	21.85
rs2249891	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	9	104861961	G	A	8246	0.10	0.02	0.00	0.00	19.82
rs34997924	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	9	131337527	C	A	8246	0.09	0.02	0.00	0.00	24.29
rs9420630	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	10	93768428	G	A	8246	0.09	0.02	0.00	0.00	26.12
rs373068125	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	11	8522938	T	C	8246	0.28	0.06	0.00	0.00	21.91
rs102275	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	11	61790331	C	T	8246	-0.11	0.01	0.00	0.01	50.96
rs145294466	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	12	42064732	A	C	8246	-0.38	0.07	0.00	0.00	27.32
rs2393072	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	12	116331608	C	T	8246	0.07	0.01	0.00	0.00	21.87
rs7160525	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	14	63765502	A	G	8246	0.21	0.02	0.00	0.01	122.81
rs4924546	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	15	41439729	A	G	8246	-0.14	0.03	0.00	0.00	19.70
rs144894536	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	19	32636723	A	C	8246	0.20	0.04	0.00	0.00	23.72
rs28795074	levels Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)	GCST90200010	19	44933400	A	G	8246	-0.13	0.03	0.00	0.00	19.91

rs4814176	Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1) levels	GCST90200010	20	12978750	C	T	8246	-0.08	0.01	0.00	0.00	32.43
rs14240819	Sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1) levels	GCST90200010	21	20976317	T	A	8246	-0.31	0.07	0.00	0.00	22.79
rs76504354	Arabitol/xylitol levels	GCST90200011	1	22657263	T	A	8219	-0.16	0.04	0.00	0.00	21.01
rs76965798	Arabitol/xylitol levels	GCST90200011	2	143974068	C	T	8219	0.23	0.05	0.00	0.00	23.73
rs7622941	Arabitol/xylitol levels	GCST90200011	3	110785202	A	G	8219	0.08	0.02	0.00	0.00	20.70
rs79132106	Arabitol/xylitol levels	GCST90200011	3	156594914	T	C	8219	0.13	0.03	0.00	0.00	21.95
rs115975251	Arabitol/xylitol levels	GCST90200011	5	96700801	C	A	8219	-0.38	0.07	0.00	0.00	25.71
rs78330770	Arabitol/xylitol levels	GCST90200011	5	112980779	C	A	8219	-0.24	0.05	0.00	0.00	21.31
rs79392392	Arabitol/xylitol levels	GCST90200011	6	15717940	A	G	8219	0.31	0.06	0.00	0.00	24.49
rs78795544	Arabitol/xylitol levels	GCST90200011	7	12028546	T	C	8219	0.22	0.05	0.00	0.00	20.29
rs813584	Arabitol/xylitol levels	GCST90200011	8	4196183	G	C	8219	0.08	0.02	0.00	0.00	21.36
rs1425592	Arabitol/xylitol levels	GCST90200011	8	56648640	G	A	8219	-0.07	0.01	0.00	0.00	20.01
rs181508533	Arabitol/xylitol levels	GCST90200011	9	32143553	A	G	8219	-0.11	0.02	0.00	0.00	22.88
rs75401737	Arabitol/xylitol levels	GCST90200011	10	72098478	A	G	8219	0.17	0.04	0.00	0.00	20.19
rs11827039	Arabitol/xylitol levels	GCST90200011	11	17367880	A	G	8219	-0.13	0.03	0.00	0.00	20.56
rs117173897	Arabitol/xylitol levels	GCST90200011	11	76947982	A	T	8219	-0.18	0.04	0.00	0.00	20.11
rs12429889	Arabitol/xylitol levels	GCST90200011	13	74168185	C	T	8219	0.10	0.02	0.00	0.00	21.12
rs78649302	Arabitol/xylitol levels	GCST90200011	13	113481059	A	G	8219	0.15	0.03	0.00	0.00	25.98
rs17749359	Arabitol/xylitol levels	GCST90200011	14	62471595	T	G	8219	0.07	0.01	0.00	0.00	21.92
rs4899619	Arabitol/xylitol levels	GCST90200011	14	76850970	C	T	8219	0.06	0.01	0.00	0.00	19.62
rs77924615	Arabitol/xylitol levels	GCST90200011	16	20381010	A	G	8219	-0.10	0.02	0.00	0.00	28.79
rs111373318	Arabitol/xylitol levels	GCST90200011	17	924528	T	C	8219	0.14	0.03	0.00	0.00	22.76
rs11653985	Arabitol/xylitol levels	GCST90200011	17	65647013	A	G	8219	-0.23	0.05	0.00	0.00	20.66
rs72861763	Arabitol/xylitol levels	GCST90200011	17	82039613	T	C	8219	-0.16	0.02	0.00	0.01	50.46
rs5748937	Arabitol/xylitol levels	GCST90200011	22	17194434	T	C	8219	0.16	0.03	0.00	0.00	20.02
rs9610316	Arabitol/xylitol levels	GCST90200011	22	35559321	A	G	8219	-0.07	0.02	0.00	0.00	21.39
rs6662602	3-hydroxyhexanoate levels	GCST90200012	1	151942679	T	C	8268	-0.08	0.02	0.00	0.00	24.12
rs11587156	3-hydroxyhexanoate levels	GCST90200012	1	175786923	A	G	8268	0.21	0.05	0.00	0.00	20.40
rs1214071	3-hydroxyhexanoate levels	GCST90200012	2	123910798	A	G	8268	-0.07	0.02	0.00	0.00	20.05
rs2664260	3-hydroxyhexanoate levels	GCST90200012	2	190298980	G	A	8268	0.07	0.02	0.00	0.00	23.69
rs62324576	3-hydroxyhexanoate levels	GCST90200012	4	124603162	G	A	8268	0.14	0.03	0.00	0.00	20.46

rs9314051	3- hydroxyhexan oate levels	GCST90200012	5	165050300	A	C	8268	0.07	0.02	0.00	0.00	19.88
rs9342909	3- hydroxyhexan oate levels	GCST90200012	6	62519212	C	T	8268	-0.11	0.02	0.00	0.00	23.03
rs422751	3- hydroxyhexan oate levels	GCST90200012	6	89198154	A	G	8268	-0.09	0.02	0.00	0.00	21.81
rs14911403 6	3- hydroxyhexan oate levels	GCST90200012	6	158619833	T	C	8268	-0.15	0.03	0.00	0.00	19.79
rs13268678	3- hydroxyhexan oate levels	GCST90200012	8	1212927	T	C	8268	0.08	0.02	0.00	0.00	20.53
rs76086814	3- hydroxyhexan oate levels	GCST90200012	10	365988	A	G	8268	-0.18	0.04	0.00	0.00	20.88
rs79483948	3- hydroxyhexan oate levels	GCST90200012	10	3066021	T	G	8268	0.17	0.03	0.00	0.00	25.05
rs1800692	3- hydroxyhexan oate levels	GCST90200012	12	6333180	G	A	8268	0.07	0.02	0.00	0.00	19.92
rs73442124	3- hydroxyhexan oate levels	GCST90200012	13	29713367	A	G	8268	-0.21	0.05	0.00	0.00	20.12
rs7500220	3- hydroxyhexan oate levels	GCST90200012	16	20489224	G	A	8268	0.16	0.02	0.00	0.01	67.77
rs758434	3- hydroxyhexan oate levels	GCST90200012	17	11276623	A	C	8268	0.21	0.05	0.00	0.00	20.03
rs11753184 9	3- hydroxyhexan oate levels	GCST90200012	18	77828176	C	A	8268	0.28	0.06	0.00	0.00	19.53
rs14971242 6	3- hydroxyhexan oate levels	GCST90200012	20	19209312	A	G	8268	-0.41	0.09	0.00	0.00	21.70
rs73238167	3- hydroxyhexan oate levels	GCST90200012	21	45392811	T	G	8268	0.24	0.05	0.00	0.00	21.35
rs557026	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	1	94006933	C	T	8267	0.11	0.02	0.00	0.00	23.25
rs10399820	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	1	94410726	C	G	8267	0.07	0.01	0.00	0.00	24.69
rs2491859	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	1	242935151	G	T	8267	0.07	0.01	0.00	0.00	20.58
rs17508835	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	2	12263095	T	C	8267	0.07	0.02	0.00	0.00	19.80
rs18336068 9	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	2	39950752	T	C	8267	0.37	0.08	0.00	0.00	19.62
rs11377386 6	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	4	48993874	G	C	8267	-0.14	0.03	0.00	0.00	23.05

rs116421769	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	5	24871421	G	A	8267	-0.18	0.04	0.00	0.00	21.75
rs75377053	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	7	4319204	A	G	8267	-0.18	0.04	0.00	0.00	19.92
rs11136603	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	8	3306692	G	T	8267	0.07	0.02	0.00	0.00	21.54
rs1535	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	11	61830500	G	A	8267	0.08	0.01	0.00	0.00	30.37
rs573905	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	11	118701558	G	A	8267	-0.07	0.01	0.00	0.00	28.16
rs10849080	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	12	4469443	T	C	8267	-0.08	0.02	0.00	0.00	23.19
rs869416	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	12	30418598	G	C	8267	-0.08	0.02	0.00	0.00	30.25
rs4646536	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	12	57764205	G	A	8267	-0.07	0.01	0.00	0.00	21.24
rs7160525	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	14	63765502	A	G	8267	0.23	0.02	0.00	0.02	147.33
rs4967960	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	16	23740386	C	A	8267	-0.07	0.01	0.00	0.00	19.77
rs7185039	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	16	74554146	C	T	8267	0.07	0.01	0.00	0.00	23.04
rs116843064	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	19	8364439	A	G	8267	0.23	0.05	0.00	0.00	22.84
rs140217321	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	19	53490465	G	A	8267	0.32	0.07	0.00	0.00	24.30
rs686548	Sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2) levels	GCST90200013	20	12992873	T	A	8267	-0.12	0.01	0.00	0.01	69.75
rs144745770	3beta- hydroxy-5- cholestenoate levels	GCST90200014	1	12107322	C	G	8259	-0.31	0.07	0.00	0.00	20.02

rs77354907	3beta-hydroxy-5-cholestenoate levels	GCST90200014	1	175035891	A	C	8259	0.37	0.07	0.00	0.00	26.73
rs11673868	3beta-hydroxy-5-cholestenoate levels	GCST90200014	2	35815684	C	A	8259	0.08	0.02	0.00	0.00	19.97
rs67927699	3beta-hydroxy-5-cholestenoate levels	GCST90200014	2	60960280	C	G	8259	0.08	0.02	0.00	0.00	23.15
rs4150452	3beta-hydroxy-5-cholestenoate levels	GCST90200014	2	127281160	G	A	8259	-0.24	0.05	0.00	0.00	20.88
rs72864131	3beta-hydroxy-5-cholestenoate levels	GCST90200014	2	150412414	T	C	8259	-0.27	0.06	0.00	0.00	20.02
rs73830719	3beta-hydroxy-5-cholestenoate levels	GCST90200014	3	46061700	A	G	8259	-0.18	0.04	0.00	0.00	20.36
rs55947901	3beta-hydroxy-5-cholestenoate levels	GCST90200014	3	69783226	C	A	8259	0.10	0.02	0.00	0.00	30.24
rs181871536	3beta-hydroxy-5-cholestenoate levels	GCST90200014	3	184365845	T	G	8259	0.20	0.04	0.00	0.00	20.54
rs316803	3beta-hydroxy-5-cholestenoate levels	GCST90200014	4	25307579	G	A	8259	0.23	0.05	0.00	0.00	23.50
rs72729698	3beta-hydroxy-5-cholestenoate levels	GCST90200014	4	153614082	A	G	8259	-0.25	0.05	0.00	0.00	23.76
rs111769237	3beta-hydroxy-5-cholestenoate levels	GCST90200014	5	137004469	A	G	8259	0.15	0.03	0.00	0.00	26.68
rs141030857	3beta-hydroxy-5-cholestenoate levels	GCST90200014	6	118845733	C	T	8259	0.19	0.04	0.00	0.00	22.67
rs62485117	3beta-hydroxy-5-cholestenoate levels	GCST90200014	7	104504001	C	A	8259	-0.43	0.10	0.00	0.00	19.71
rs4737197	3beta-hydroxy-5-cholestenoate levels	GCST90200014	8	64645730	G	A	8259	0.11	0.02	0.00	0.00	25.10
rs79531664	3beta-hydroxy-5-cholestenoate levels	GCST90200014	8	64649429	C	T	8259	0.44	0.07	0.00	0.00	39.76
rs4128119	3beta-hydroxy-5-cholestenoate levels	GCST90200014	8	91144313	C	T	8259	0.07	0.02	0.00	0.00	19.66
rs1062571	3beta-hydroxy-5-cholestenoate levels	GCST90200014	9	21187312	T	C	8259	0.07	0.02	0.00	0.00	22.83
rs17430512	3beta-hydroxy-5-cholestenoate levels	GCST90200014	9	118005657	C	G	8259	-0.07	0.02	0.00	0.00	19.82

rs1573558	3beta-hydroxy-5-cholestenoate levels	GCST90200014	11	110377073	T	C	8259	0.32	0.02	0.00	0.04	376.22
rs78762835	3beta-hydroxy-5-cholestenoate levels	GCST90200014	11	110543638	G	A	8259	-0.44	0.04	0.00	0.01	97.63
rs113809485	3beta-hydroxy-5-cholestenoate levels	GCST90200014	13	59309827	A	G	8259	0.25	0.05	0.00	0.00	21.95
rs1337298	3beta-hydroxy-5-cholestenoate levels	GCST90200014	13	73556538	T	C	8259	-0.07	0.02	0.00	0.00	20.07
rs117719818	3beta-hydroxy-5-cholestenoate levels	GCST90200014	14	50813669	C	T	8259	-0.23	0.05	0.00	0.00	22.83
rs4904947	3beta-hydroxy-5-cholestenoate levels	GCST90200014	14	92505818	T	C	8259	-0.08	0.02	0.00	0.00	21.57
rs80025455	3beta-hydroxy-5-cholestenoate levels	GCST90200014	15	55982335	C	G	8259	0.08	0.02	0.00	0.00	23.04
rs75415092	3beta-hydroxy-5-cholestenoate levels	GCST90200014	17	76873506	T	C	8259	-0.46	0.10	0.00	0.00	22.35
rs4911320	3beta-hydroxy-5-cholestenoate levels	GCST90200014	20	33326225	T	G	8259	0.21	0.05	0.00	0.00	20.31
rs131774	3beta-hydroxy-5-cholestenoate levels	GCST90200014	22	50555369	C	G	8259	0.08	0.02	0.00	0.00	25.02
rs67493833	N-acetylkynurenine (2) levels	GCST90200015	1	111106619	T	A	6193	0.12	0.03	0.00	0.00	20.19
rs61729352	N-acetylkynurenine (2) levels	GCST90200015	1	206960759	T	G	6193	0.21	0.05	0.00	0.00	21.64
rs61825638	N-acetylkynurenine (2) levels	GCST90200015	1	241550102	T	C	6193	0.17	0.02	0.00	0.01	70.55
rs9711746	N-acetylkynurenine (2) levels	GCST90200015	2	73052341	A	T	6193	0.24	0.04	0.00	0.00	27.73
rs10168931	N-acetylkynurenine (2) levels	GCST90200015	2	73650092	A	G	6193	0.59	0.02	0.00	0.14	#####
rs114737325	N-acetylkynurenine (2) levels	GCST90200015	2	242011031	A	G	6193	-0.28	0.06	0.00	0.00	22.28
rs12209125	N-acetylkynurenine (2) levels	GCST90200015	6	25769561	C	A	6193	-0.13	0.02	0.00	0.01	57.27
rs13211538	N-acetylkynurenine (2) levels	GCST90200015	6	163240141	T	C	6193	-0.11	0.02	0.00	0.00	21.50
rs78933893	N-acetylkynurenine (2) levels	GCST90200015	7	8909507	C	T	6193	0.16	0.03	0.00	0.00	23.04
rs17835038	N-acetylkynurenine (2) levels	GCST90200015	9	36141517	C	T	6193	0.17	0.04	0.00	0.00	21.71
rs118120811	N-acetylkynurenine (2) levels	GCST90200015	9	81558227	C	T	6193	-0.33	0.07	0.00	0.00	19.99

rs10816599	N-acetylkynurenine (2) levels	GCST90200015	9	107954440	C	G	6193	-0.08	0.02	0.00	0.00	19.84
rs10822143	N-acetylkynurenine (2) levels	GCST90200015	10	63128096	T	C	6193	0.08	0.02	0.00	0.00	19.52
rs77373209	N-acetylkynurenine (2) levels	GCST90200015	11	6766152	A	G	6193	0.12	0.03	0.00	0.00	19.92
rs948445	N-acetylkynurenine (2) levels	GCST90200015	11	67647021	T	C	6193	0.28	0.02	0.00	0.02	138.47
rs9554421	N-acetylkynurenine (2) levels	GCST90200015	13	97779264	C	T	6193	-0.10	0.02	0.00	0.00	20.17
rs143843231	N-acetylkynurenine (2) levels	GCST90200015	14	50605394	A	T	6193	-0.30	0.06	0.00	0.00	22.83
rs72897843	N-acetylkynurenine (2) levels	GCST90200015	17	78204884	T	C	6193	0.18	0.03	0.00	0.01	38.72
rs118137341	N-acetylkynurenine (2) levels	GCST90200015	20	40386443	C	T	6193	0.29	0.06	0.00	0.00	26.43
rs60490710	Dopamine 4-sulfate levels	GCST90200016	2	4912617	C	T	6888	-0.25	0.05	0.00	0.00	22.66
rs147902054	Dopamine 4-sulfate levels	GCST90200016	2	6810471	A	G	6888	0.43	0.08	0.00	0.00	26.07
rs4671680	Dopamine 4-sulfate levels	GCST90200016	2	65685778	G	A	6888	-0.31	0.07	0.00	0.00	21.29
rs552722066	Dopamine 4-sulfate levels	GCST90200016	2	77552702	C	T	6888	0.75	0.17	0.00	0.00	19.94
rs7579187	Dopamine 4-sulfate levels	GCST90200016	2	99725106	A	G	6888	0.08	0.02	0.00	0.00	20.08
rs10932134	Dopamine 4-sulfate levels	GCST90200016	2	205883338	A	G	6888	-0.08	0.02	0.00	0.00	20.99
rs114510136	Dopamine 4-sulfate levels	GCST90200016	3	4210815	A	T	6888	0.40	0.08	0.00	0.00	27.79
rs149513379	Dopamine 4-sulfate levels	GCST90200016	3	66637135	G	A	6888	0.42	0.08	0.00	0.00	26.30
rs295485	Dopamine 4-sulfate levels	GCST90200016	3	139514522	T	C	6888	0.15	0.03	0.00	0.00	24.18
rs11932430	Dopamine 4-sulfate levels	GCST90200016	4	110212078	G	T	6888	0.31	0.07	0.00	0.00	21.25
rs1989105	Dopamine 4-sulfate levels	GCST90200016	8	6523709	G	C	6888	0.08	0.02	0.00	0.00	22.18
rs72679158	Dopamine 4-sulfate levels	GCST90200016	8	104645672	A	G	6888	0.35	0.08	0.00	0.00	20.04
rs11996447	Dopamine 4-sulfate levels	GCST90200016	8	134960027	C	G	6888	0.10	0.02	0.00	0.00	24.03
rs10991467	Dopamine 4-sulfate levels	GCST90200016	9	105016105	T	G	6888	-0.10	0.02	0.00	0.00	20.52
rs4519024	Dopamine 4-sulfate levels	GCST90200016	10	97607012	G	A	6888	0.09	0.02	0.00	0.00	20.53
rs942229	Dopamine 4-sulfate levels	GCST90200016	13	21895387	G	A	6888	0.10	0.02	0.00	0.00	23.68
rs117709864	Dopamine 4-sulfate levels	GCST90200016	15	88606573	T	C	6888	0.38	0.08	0.00	0.00	20.28
rs12441665	Dopamine 4-sulfate levels	GCST90200016	15	97171332	G	A	6888	-0.08	0.02	0.00	0.00	19.89
rs8063011	Dopamine 4-sulfate levels	GCST90200016	16	55131977	C	G	6888	-0.10	0.02	0.00	0.00	25.34
rs145261788	Dopamine 4-sulfate levels	GCST90200016	17	53748660	A	T	6888	0.40	0.07	0.00	0.00	30.78
rs62105360	Dopamine 4-sulfate levels	GCST90200016	18	72925723	T	C	6888	0.26	0.05	0.00	0.00	23.44
rs55860967	Dopamine 4-sulfate levels	GCST90200016	21	32507708	A	G	6888	-0.10	0.02	0.00	0.00	22.22
rs112464385	Dopamine 4-sulfate levels	GCST90200016	22	23185742	G	T	6888	0.10	0.02	0.00	0.00	19.99
rs4823514	Dopamine 4-sulfate levels	GCST90200016	22	48248516	G	A	6888	0.08	0.02	0.00	0.00	22.74

rs72704810	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	1	152811547	G	C	8261	0.16	0.03	0.00	0.00	22.64
rs1260338	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	2	27402794	G	A	8261	0.09	0.02	0.00	0.00	39.04
rs14719949 2	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	2	85732053	T	C	8261	-0.13	0.03	0.00	0.00	21.10
rs74942512	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	4	83976112	T	C	8261	0.30	0.06	0.00	0.00	23.32
rs72735856	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	5	8552551	G	C	8261	-0.10	0.02	0.00	0.00	20.78
rs14928486 8	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	5	12759134	G	A	8261	0.30	0.07	0.00	0.00	20.27
rs1466107	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	5	120624387	C	G	8261	0.07	0.02	0.00	0.00	19.97
rs11299666 2	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	6	8313820	G	C	8261	-0.13	0.03	0.00	0.00	23.32
rs236226	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	6	78406208	A	G	8261	0.11	0.02	0.00	0.00	21.33
rs12111380	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	6	90539101	C	T	8261	-0.13	0.03	0.00	0.00	20.45
rs55730499	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	6	160584578	T	C	8261	0.14	0.03	0.00	0.00	23.22
rs17438465	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	7	27325761	T	G	8261	-0.07	0.02	0.00	0.00	20.93
rs62491043	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	8	26485411	A	C	8261	-0.22	0.05	0.00	0.00	22.05
rs10110235	levels Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)	GCST90200017	8	112576983	G	C	8261	-0.08	0.02	0.00	0.00	19.79

rs16934446	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	9	16325342	T	C	8261	0.24	0.04	0.00	0.00	29.65
rs14402364	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	9	114375083	T	C	8261	-0.27	0.06	0.00	0.00	21.83
rs18831968	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	9	125194993	A	T	8261	0.18	0.04	0.00	0.00	19.90
rs11024617	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	11	1383011	A	G	8261	0.08	0.02	0.00	0.00	21.39
rs14315542	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	11	101643378	C	A	8261	-0.07	0.02	0.00	0.00	21.81
rs11125058	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	12	50646531	T	C	8261	-0.20	0.04	0.00	0.00	20.34
rs11179614	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	12	73351732	A	G	8261	-0.12	0.03	0.00	0.00	19.56
rs7160525	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	14	63765502	A	G	8261	0.34	0.02	0.00	0.03	294.68
rs4537986	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	15	26498413	C	T	8261	0.11	0.03	0.00	0.00	20.18
rs17728202	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	15	71614439	T	C	8261	0.16	0.04	0.00	0.00	19.90
rs80001243	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	15	96584541	T	A	8261	0.10	0.02	0.00	0.00	20.17
rs7199490	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	16	74682128	A	G	8261	0.07	0.02	0.00	0.00	19.61
rs6082786	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	20	305384	A	G	8261	0.07	0.02	0.00	0.00	19.52
rs360537	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	20	13004004	G	A	8261	-0.10	0.02	0.00	0.00	30.79

rs6065829	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	20	45497968	G	C	8261	0.09	0.02	0.00	0.00	19.69
rs14935676 5	Sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0) levels	GCST90200017	20	63721744	A	G	8261	0.31	0.07	0.00	0.00	19.62
rs6687264	Adipoylcarniti ne (C6-DC) levels	GCST90200018	1	46908367	C	T	8216	-0.21	0.02	0.00	0.01	85.86
rs11578832	Adipoylcarniti ne (C6-DC) levels	GCST90200018	1	53208870	A	G	8216	0.25	0.02	0.00	0.02	195.44
rs28730724	Adipoylcarniti ne (C6-DC) levels	GCST90200018	1	151172415	T	C	8216	-0.14	0.03	0.00	0.00	21.42
rs61823480	Adipoylcarniti ne (C6-DC) levels	GCST90200018	1	230506341	G	C	8216	0.09	0.02	0.00	0.00	19.83
rs75961064	Adipoylcarniti ne (C6-DC) levels	GCST90200018	2	151363996	G	A	8216	0.27	0.06	0.00	0.00	21.96
rs11446172 2	Adipoylcarniti ne (C6-DC) levels	GCST90200018	3	1878997	C	T	8216	0.12	0.03	0.00	0.00	19.71
rs16879070	Adipoylcarniti ne (C6-DC) levels	GCST90200018	4	27260896	A	G	8216	0.07	0.02	0.00	0.00	20.67
rs14657292 6	Adipoylcarniti ne (C6-DC) levels	GCST90200018	4	85421941	C	T	8216	0.50	0.10	0.00	0.00	24.23
rs35938541	Adipoylcarniti ne (C6-DC) levels	GCST90200018	5	132736616	C	T	8216	-0.30	0.07	0.00	0.00	19.75
rs72794185	Adipoylcarniti ne (C6-DC) levels	GCST90200018	5	151313261	G	A	8216	0.23	0.05	0.00	0.00	22.43
rs80254170	Adipoylcarniti ne (C6-DC) levels	GCST90200018	6	160093251	G	A	8216	0.18	0.03	0.00	0.01	42.61
rs662138	Adipoylcarniti ne (C6-DC) levels	GCST90200018	6	160143444	G	C	8216	0.16	0.02	0.00	0.01	67.76
rs13930093 1	Adipoylcarniti ne (C6-DC) levels	GCST90200018	6	160206065	T	A	8216	0.35	0.06	0.00	0.00	31.25
rs7793827	Adipoylcarniti ne (C6-DC) levels	GCST90200018	7	71271129	C	A	8216	0.14	0.03	0.00	0.00	19.57
rs74577745	Adipoylcarniti ne (C6-DC) levels	GCST90200018	7	153107680	A	G	8216	0.37	0.08	0.00	0.00	19.66
rs14963268 0	Adipoylcarniti ne (C6-DC) levels	GCST90200018	8	24177410	G	A	8216	0.39	0.08	0.00	0.00	23.43
rs13269710	Adipoylcarniti ne (C6-DC) levels	GCST90200018	8	37462040	A	G	8216	0.09	0.02	0.00	0.00	22.07
rs28601761	Adipoylcarniti ne (C6-DC) levels	GCST90200018	8	125487789	G	C	8216	0.09	0.02	0.00	0.00	38.17
rs11784741 6	Adipoylcarniti ne (C6-DC) levels	GCST90200018	10	3266824	C	T	8216	0.33	0.07	0.00	0.00	21.54
rs61911335	Adipoylcarniti ne (C6-DC) levels	GCST90200018	12	20345330	A	G	8216	-0.18	0.04	0.00	0.00	20.82
rs13905218 0	Adipoylcarniti ne (C6-DC) levels	GCST90200018	12	127187367	G	C	8216	-0.18	0.03	0.00	0.00	26.21

rs10519197	Adipoylcarnitine (C6-DC) levels	GCST90200018	15	48880120	G	T	8216	0.11	0.02	0.00	0.00	22.00
rs73505129	Adipoylcarnitine (C6-DC) levels	GCST90200018	16	11384121	G	A	8216	0.47	0.11	0.00	0.00	19.94
rs79304471	Adipoylcarnitine (C6-DC) levels	GCST90200018	17	75959534	G	C	8216	0.25	0.04	0.00	0.00	41.27
rs144895211	Adipoylcarnitine (C6-DC) levels	GCST90200018	21	20553766	A	G	8216	0.32	0.07	0.00	0.00	21.45
rs185554259	Adipoylcarnitine (C6-DC) levels	GCST90200018	21	21465594	C	G	8216	0.25	0.06	0.00	0.00	19.61
rs113978956	Dopamine 3-o-sulfate levels	GCST90200019	1	168580486	A	G	8252	-0.18	0.04	0.00	0.00	22.29
rs147902054	Dopamine 3-o-sulfate levels	GCST90200019	2	6810471	A	G	8252	0.36	0.08	0.00	0.00	21.74
rs114294099	Dopamine 3-o-sulfate levels	GCST90200019	2	8072771	T	C	8252	0.21	0.05	0.00	0.00	20.56
rs62161240	Dopamine 3-o-sulfate levels	GCST90200019	2	56830502	G	A	8252	0.18	0.04	0.00	0.00	20.48
rs552722066	Dopamine 3-o-sulfate levels	GCST90200019	2	77552702	C	T	8252	0.74	0.16	0.00	0.00	21.49
rs150545864	Dopamine 3-o-sulfate levels	GCST90200019	2	88654054	G	A	8252	0.29	0.06	0.00	0.00	20.02
rs190551501	Dopamine 3-o-sulfate levels	GCST90200019	2	142445874	C	G	8252	0.54	0.12	0.00	0.00	21.00
rs6707140	Dopamine 3-o-sulfate levels	GCST90200019	2	237954813	T	G	8252	-0.07	0.02	0.00	0.00	20.43
rs74657271	Dopamine 3-o-sulfate levels	GCST90200019	3	33607340	A	T	8252	0.29	0.07	0.00	0.00	19.62
rs295485	Dopamine 3-o-sulfate levels	GCST90200019	3	139514522	T	C	8252	0.12	0.03	0.00	0.00	20.13
rs358255	Dopamine 3-o-sulfate levels	GCST90200019	4	22791891	G	A	8252	-0.09	0.02	0.00	0.00	20.08
rs144315317	Dopamine 3-o-sulfate levels	GCST90200019	4	111533436	A	G	8252	-0.25	0.06	0.00	0.00	20.29
rs4700448	Dopamine 3-o-sulfate levels	GCST90200019	5	61865221	T	C	8252	-0.08	0.02	0.00	0.00	23.95
rs147017538	Dopamine 3-o-sulfate levels	GCST90200019	5	73113559	T	C	8252	0.30	0.07	0.00	0.00	20.45
rs117458368	Dopamine 3-o-sulfate levels	GCST90200019	6	130807315	T	C	8252	0.39	0.09	0.00	0.00	20.31
rs10810595	Dopamine 3-o-sulfate levels	GCST90200019	9	16711206	C	T	8252	-0.13	0.03	0.00	0.00	20.30
rs10991467	Dopamine 3-o-sulfate levels	GCST90200019	9	105016105	T	G	8252	-0.10	0.02	0.00	0.00	21.72
rs113014886	Dopamine 3-o-sulfate levels	GCST90200019	9	130259851	T	C	8252	-0.21	0.05	0.00	0.00	19.82
rs11043016	Dopamine 3-o-sulfate levels	GCST90200019	11	2184797	C	T	8252	0.10	0.02	0.00	0.00	30.03
rs10877371	Dopamine 3-o-sulfate levels	GCST90200019	12	59959751	T	C	8252	0.09	0.02	0.00	0.00	22.08
rs942229	Dopamine 3-o-sulfate levels	GCST90200019	13	21895387	G	A	8252	0.08	0.02	0.00	0.00	21.82
rs112322242	Dopamine 3-o-sulfate levels	GCST90200019	13	22202206	G	A	8252	0.25	0.06	0.00	0.00	19.54
rs73266074	Dopamine 3-o-sulfate levels	GCST90200019	14	55003380	A	G	8252	-0.14	0.02	0.00	0.00	31.18
rs59745097	Dopamine 3-o-sulfate levels	GCST90200019	14	105733928	T	G	8252	-0.23	0.05	0.00	0.00	20.51
rs35601058	Dopamine 3-o-sulfate levels	GCST90200019	15	96421017	G	A	8252	0.36	0.08	0.00	0.00	21.18
rs145261788	Dopamine 3-o-sulfate levels	GCST90200019	17	53748660	A	T	8252	0.30	0.07	0.00	0.00	19.53
rs822165	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	1	58451146	G	A	8250	-0.07	0.02	0.00	0.00	20.56

rs11803817	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	1	208753643	C	G	8250	0.12	0.03	0.00	0.00	20.91
rs79448051	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	1	224503331	T	C	8250	-0.31	0.06	0.00	0.00	26.83
rs14301870 1	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	2	111200550	A	G	8250	0.24	0.05	0.00	0.00	19.52
rs2399103	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	3	106616844	C	T	8250	-0.09	0.02	0.00	0.00	26.88
rs71306689	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	3	171041849	T	C	8250	0.41	0.09	0.00	0.00	20.60
rs76420143	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	4	836277	T	C	8250	-0.25	0.05	0.00	0.00	22.30
rs55959996	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	4	56317264	C	G	8250	0.12	0.03	0.00	0.00	23.66
rs28380236	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	4	119877081	G	T	8250	0.23	0.05	0.00	0.00	21.69
rs7662967	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	4	187891795	T	C	8250	-0.10	0.02	0.00	0.00	19.92
rs14951084 8	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	6	2108848	A	G	8250	-0.34	0.07	0.00	0.00	24.22
rs14477784 5	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	6	51592487	A	G	8250	0.29	0.07	0.00	0.00	20.40
rs74617384	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	6	160576086	T	A	8250	0.13	0.03	0.00	0.00	20.74
rs11183700 3	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	7	73493129	T	C	8250	0.11	0.02	0.00	0.00	25.16
rs11676973 1	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	7	146364210	T	G	8250	0.30	0.07	0.00	0.00	20.05
rs16875247	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	8	106886317	G	C	8250	-0.16	0.03	0.00	0.00	20.97
rs944515	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	9	78299271	C	G	8250	-0.07	0.02	0.00	0.00	20.64
rs10979829	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	9	109339653	A	T	8250	-0.09	0.02	0.00	0.00	23.63
rs12415773	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	10	93609236	C	T	8250	-0.08	0.02	0.00	0.00	22.59

rs11033235	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	11	4661852	T	A	8250	-0.07	0.02	0.00	0.00	21.73
rs11204343	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	17	19435024	A	G	8250	-0.07	0.02	0.00	0.00	20.21
rs2639989	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	18	75203984	C	T	8250	-0.09	0.02	0.00	0.00	22.97
rs720875	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	19	33741524	C	A	8250	-0.13	0.03	0.00	0.00	19.57
rs7412	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	19	44908822	T	C	8250	-0.16	0.03	0.00	0.00	33.79
rs4814176	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	20	12978750	C	T	8250	0.09	0.02	0.00	0.00	37.86
rs1004663	Lignoceroyl sphingomyelin (d18:1/24:0) levels	GCST90200020	21	39837863	C	G	8250	0.07	0.02	0.00	0.00	20.17
rs76434714	N- acetylglucosa mine/n- acetylgalactos amine levels	GCST90200021	1	69567355	A	T	7940	-0.12	0.02	0.00	0.00	24.65
rs15038534 0	N- acetylglucosa mine/n- acetylgalactos amine levels	GCST90200021	1	178976070	T	C	7940	-0.18	0.04	0.00	0.00	21.19
rs35439956	N- acetylglucosa mine/n- acetylgalactos amine levels	GCST90200021	3	25912030	G	T	7940	0.21	0.05	0.00	0.00	21.51
rs6779556	N- acetylglucosa mine/n- acetylgalactos amine levels	GCST90200021	3	31434946	A	G	7940	-0.17	0.04	0.00	0.00	19.62
rs1370806	N- acetylglucosa mine/n- acetylgalactos amine levels	GCST90200021	3	115616185	T	A	7940	-0.07	0.02	0.00	0.00	20.52
rs14279123 0	N- acetylglucosa mine/n- acetylgalactos amine levels	GCST90200021	3	137920716	C	T	7940	-0.27	0.06	0.00	0.00	20.28
rs67343033	N- acetylglucosa mine/n- acetylgalactos amine levels	GCST90200021	3	182950657	T	C	7940	0.12	0.03	0.00	0.00	20.93
rs530686	N- acetylglucosa mine/n- acetylgalactos amine levels	GCST90200021	4	129118729	G	A	7940	-0.18	0.02	0.00	0.02	138.93
rs28462207	N- acetylglucosa mine/n- acetylgalactos amine levels	GCST90200021	4	164185811	C	A	7940	0.37	0.07	0.00	0.00	31.48

rs6892515	N- acetylglucosa mine/n- acetylgalactos amine levels N-	GCST90200021	5	172169900	A	G	7940	-0.07	0.02	0.00	0.00	22.17
rs6912179	N- acetylglucosa mine/n- acetylgalactos amine levels N-	GCST90200021	6	4007932	C	A	7940	-0.07	0.02	0.00	0.00	21.06
rs2076007	N- acetylglucosa mine/n- acetylgalactos amine levels N-	GCST90200021	6	167294271	T	C	7940	0.36	0.02	0.00	0.03	234.88
rs17155457	N- acetylglucosa mine/n- acetylgalactos amine levels N-	GCST90200021	7	81776669	G	A	7940	-0.18	0.04	0.00	0.00	21.10
rs10047346	N- acetylglucosa mine/n- acetylgalactos amine levels N-	GCST90200021	10	21473912	A	G	7940	0.08	0.02	0.00	0.00	22.77
rs14742690 7	N- acetylglucosa mine/n- acetylgalactos amine levels N-	GCST90200021	11	28018351	G	T	7940	0.34	0.08	0.00	0.00	20.57
rs17157266	N- acetylglucosa mine/n- acetylgalactos amine levels N-	GCST90200021	11	62432345	C	T	7940	-0.10	0.02	0.00	0.00	24.89
rs1077697	N- acetylglucosa mine/n- acetylgalactos amine levels N-	GCST90200021	14	90676435	T	C	7940	0.08	0.02	0.00	0.00	21.97
rs4969229	N- acetylglucosa mine/n- acetylgalactos amine levels amine levels Glycochenode	GCST90200021	17	80929144	T	C	7940	-0.15	0.03	0.00	0.00	19.79
rs10798945	oxycholate 3- sulfate levels Glycochenode	GCST90200022	1	33393272	T	C	8123	-0.10	0.02	0.00	0.00	34.22
rs61784779	oxycholate 3- sulfate levels Glycochenode	GCST90200022	1	70474250	T	C	8123	-0.18	0.04	0.00	0.00	23.60
rs71639904	oxycholate 3- sulfate levels Glycochenode	GCST90200022	1	161876767	A	G	8123	0.20	0.05	0.00	0.00	19.77
rs9970821	oxycholate 3- sulfate levels Glycochenode	GCST90200022	1	238619759	A	C	8123	0.09	0.02	0.00	0.00	23.46
rs2045755	oxycholate 3- sulfate levels Glycochenode	GCST90200022	2	156701436	G	T	8123	-0.07	0.02	0.00	0.00	20.01
rs7624637	oxycholate 3- sulfate levels Glycochenode	GCST90200022	3	29665648	C	T	8123	-0.10	0.02	0.00	0.00	21.44
rs62337945	oxycholate 3- sulfate levels Glycochenode	GCST90200022	4	52257041	G	A	8123	-0.16	0.04	0.00	0.00	21.01
rs14777125 8	oxycholate 3- sulfate levels Glycochenode	GCST90200022	5	27225251	C	A	8123	0.45	0.10	0.00	0.00	21.38
rs9296288	oxycholate 3- sulfate levels	GCST90200022	6	39080423	G	C	8123	0.08	0.02	0.00	0.00	24.05

rs76483961	Glycochenode oxycholate 3- sulfate levels	GCST90200022	6	101678750	T	C	8123	-0.30	0.07	0.00	0.00	20.08
rs1321280	Glycochenode oxycholate 3- sulfate levels	GCST90200022	6	132218508	C	T	8123	-0.07	0.02	0.00	0.00	21.54
rs77857993	Glycochenode oxycholate 3- sulfate levels	GCST90200022	7	26153556	T	C	8123	0.23	0.05	0.00	0.00	19.81
rs6460156	Glycochenode oxycholate 3- sulfate levels	GCST90200022	7	64444088	A	T	8123	-0.08	0.02	0.00	0.00	22.22
rs76021834	Glycochenode oxycholate 3- sulfate levels	GCST90200022	7	75977837	G	A	8123	-0.10	0.02	0.00	0.00	34.11
rs12242611	Glycochenode oxycholate 3- sulfate levels	GCST90200022	10	45588795	A	G	8123	-0.10	0.02	0.00	0.00	32.19
rs78915301	Glycochenode oxycholate 3- sulfate levels	GCST90200022	12	20798602	T	C	8123	0.12	0.03	0.00	0.00	23.17
rs975657	Glycochenode oxycholate 3- sulfate levels	GCST90200022	12	20846411	A	G	8123	0.10	0.02	0.00	0.00	38.08
rs1779733	Glycochenode oxycholate 3- sulfate levels	GCST90200022	12	31925938	T	C	8123	0.08	0.02	0.00	0.00	22.35
rs56398830	Glycochenode oxycholate 3- sulfate levels	GCST90200022	13	103049340	A	G	8123	-0.49	0.07	0.00	0.01	52.47
rs55971546	Glycochenode oxycholate 3- sulfate levels	GCST90200022	13	103065958	T	C	8123	0.39	0.04	0.00	0.01	115.18
rs11268883 7	Glycochenode oxycholate 3- sulfate levels	GCST90200022	14	44472703	C	T	8123	-0.22	0.04	0.00	0.00	25.15
rs62068392	Glycochenode oxycholate 3- sulfate levels	GCST90200022	17	849172	C	G	8123	-0.20	0.04	0.00	0.00	19.92
rs3794806	Glycochenode oxycholate 3- sulfate levels	GCST90200022	17	30259885	G	T	8123	0.14	0.02	0.00	0.01	74.81
rs11350688 2	Glycochenode oxycholate 3- sulfate levels	GCST90200022	18	4616873	T	C	8123	0.08	0.02	0.00	0.00	22.90
rs73402495	Glycochenode oxycholate 3- sulfate levels	GCST90200022	18	29348538	G	A	8123	-0.22	0.05	0.00	0.00	19.64
rs9962099	Glycochenode oxycholate 3- sulfate levels	GCST90200022	18	68244834	C	T	8123	-0.08	0.02	0.00	0.00	21.58
rs58692730	Glycochenode oxycholate 3- sulfate levels	GCST90200022	18	73630669	G	C	8123	-0.13	0.03	0.00	0.00	20.03
rs212100	Glycochenode oxycholate 3- sulfate levels	GCST90200022	19	47873738	C	T	8123	0.30	0.02	0.00	0.03	211.53
rs571689	Glycochenode oxycholate 3- sulfate levels	GCST90200022	19	48704297	T	C	8123	-0.07	0.02	0.00	0.00	23.69
rs135925	Glycochenode oxycholate 3- sulfate levels	GCST90200022	22	44412097	C	A	8123	-0.07	0.02	0.00	0.00	19.87
rs7542174	Trans 3,4- methylenehept anoate levels	GCST90200023	1	24438264	A	G	7104	0.09	0.02	0.00	0.00	21.30
rs34290817	Trans 3,4- methylenehept anoate levels	GCST90200023	1	60733268	A	T	7104	0.11	0.02	0.00	0.00	20.14
rs11684748	Trans 3,4- methylenehept anoate levels	GCST90200023	2	41866886	T	C	7104	-0.13	0.03	0.00	0.00	20.05

rs10498260	Trans 3,4-methyleneheptanoate levels	GCST90200023	2	232191911	T	C	7104	-0.10	0.02	0.00	0.00	21.26
rs150635061	Trans 3,4-methyleneheptanoate levels	GCST90200023	3	73234568	G	C	7104	-0.26	0.06	0.00	0.00	19.54
rs76736299	Trans 3,4-methyleneheptanoate levels	GCST90200023	3	73268854	A	C	7104	-0.22	0.05	0.00	0.00	22.32
rs1405484	Trans 3,4-methyleneheptanoate levels	GCST90200023	4	122016605	T	C	7104	-0.09	0.02	0.00	0.00	23.52
rs723137	Trans 3,4-methyleneheptanoate levels	GCST90200023	6	1471411	G	C	7104	0.20	0.04	0.00	0.00	21.80
rs79002061	Trans 3,4-methyleneheptanoate levels	GCST90200023	6	14361797	T	C	7104	0.16	0.03	0.00	0.00	23.36
rs1091031	Trans 3,4-methyleneheptanoate levels	GCST90200023	6	24538911	A	G	7104	-0.08	0.02	0.00	0.00	25.14
rs6904198	Trans 3,4-methyleneheptanoate levels	GCST90200023	6	146196580	T	C	7104	-0.19	0.04	0.00	0.00	19.95
rs4623915	Trans 3,4-methyleneheptanoate levels	GCST90200023	11	133378996	A	G	7104	0.08	0.02	0.00	0.00	20.96
rs116885450	Trans 3,4-methyleneheptanoate levels	GCST90200023	14	37588354	T	C	7104	-0.22	0.04	0.00	0.00	28.46
rs142697002	Trans 3,4-methyleneheptanoate levels	GCST90200023	14	89823996	A	G	7104	-0.42	0.09	0.00	0.00	20.68
rs113962346	Trans 3,4-methyleneheptanoate levels	GCST90200023	15	74060600	A	G	7104	-0.20	0.04	0.00	0.00	20.07
rs71373192	Trans 3,4-methyleneheptanoate levels	GCST90200023	16	20458840	T	G	7104	-0.11	0.02	0.00	0.01	38.19
rs62131321	Trans 3,4-methyleneheptanoate levels	GCST90200023	19	767575	G	A	7104	-0.33	0.07	0.00	0.00	19.60
rs504560	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	1	7866482	G	A	7333	0.08	0.02	0.00	0.00	20.08
rs76176494	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	2	86613543	A	C	7333	-0.24	0.05	0.00	0.00	19.89
rs184208397	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	2	98820166	A	G	7333	-0.49	0.11	0.00	0.00	20.29
rs13023712	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	2	234339020	A	C	7333	0.13	0.03	0.00	0.00	26.43
rs116085930	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	3	62045997	A	T	7333	0.29	0.06	0.00	0.00	19.87
rs114595209	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	4	154089843	G	A	7333	-0.17	0.04	0.00	0.00	19.72
rs13137200	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	4	168675498	A	G	7333	0.08	0.02	0.00	0.00	19.69
rs4840152	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	6	100744850	G	A	7333	0.26	0.06	0.00	0.00	19.62
rs145687503	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	8	1144966	T	C	7333	-0.29	0.06	0.00	0.00	20.38
rs7090061	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	10	129699761	G	T	7333	0.17	0.04	0.00	0.00	22.15

rs11604424	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	11	116780399	T	C	7333	-0.09	0.02	0.00	0.00	20.57
rs11519272	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	12	21209458	A	C	7333	0.45	0.02	0.00	0.06	449.59
rs10770795	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	12	21293298	G	A	7333	-0.24	0.02	0.00	0.01	103.19
rs1313546	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	12	31873495	A	G	7333	0.09	0.02	0.00	0.00	26.96
rs56398830	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	13	103049340	A	G	7333	-0.40	0.07	0.00	0.00	29.54
rs55971546	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	13	103065958	T	C	7333	0.36	0.04	0.00	0.01	88.46
rs4502228	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	16	7605204	A	T	7333	0.11	0.02	0.00	0.00	23.79
rs145121957	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	16	59831686	G	A	7333	0.08	0.02	0.00	0.00	19.65
rs2290614	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	16	70731244	C	T	7333	-0.10	0.02	0.00	0.00	20.46
rs11656408	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	17	30310155	G	A	7333	0.10	0.02	0.00	0.00	32.26
rs2175427	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	18	78729287	T	C	7333	0.56	0.12	0.00	0.00	22.28
rs62128824	Taurodeoxycholic acid 3-sulfate levels	GCST90200024	19	47858667	C	T	7333	-0.14	0.02	0.00	0.01	39.94
rs80251369	Phenol glucuronide levels	GCST90200025	1	241261324	T	C	4466	0.25	0.06	0.00	0.00	20.57
rs236862	Phenol glucuronide levels	GCST90200025	6	78625255	C	T	4466	-0.10	0.02	0.00	0.00	20.67
rs575252580	Phenol glucuronide levels	GCST90200025	6	96988546	T	C	4466	0.43	0.09	0.00	0.00	22.12
rs137917934	Phenol glucuronide levels	GCST90200025	6	124721260	T	C	4466	-0.12	0.03	0.00	0.00	19.93
rs78165831	Phenol glucuronide levels	GCST90200025	7	116329640	G	A	4466	-0.29	0.06	0.00	0.01	22.54
rs3886945	Phenol glucuronide levels	GCST90200025	8	41773414	T	G	4466	0.11	0.02	0.00	0.01	23.15
rs140119589	Phenol glucuronide levels	GCST90200025	8	121333859	G	A	4466	0.15	0.03	0.00	0.01	22.48
rs117101261	Phenol glucuronide levels	GCST90200025	10	54828847	G	A	4466	0.50	0.10	0.00	0.01	22.65
rs669002	Phenol glucuronide levels	GCST90200025	10	101272776	G	A	4466	0.34	0.07	0.00	0.00	21.19
rs112189508	Phenol glucuronide levels	GCST90200025	11	6262548	C	T	4466	0.23	0.04	0.00	0.01	25.77
rs3935794	Phenol glucuronide levels	GCST90200025	11	128520782	G	A	4466	0.18	0.04	0.00	0.00	19.67
rs1471132	Phenol glucuronide levels	GCST90200025	12	642142	G	T	4466	0.10	0.02	0.00	0.00	19.61

rs73149176	Phenol glucuronide levels	GCST90200025	12	99337077	C	T	4466	0.21	0.04	0.00	0.01	22.53
rs117192966	Phenol glucuronide levels	GCST90200025	13	26434315	T	A	4466	0.40	0.08	0.00	0.01	23.30
rs1465160	Phenol glucuronide levels	GCST90200025	14	50344307	T	C	4466	-0.09	0.02	0.00	0.00	19.80
rs145733036	Phenol glucuronide levels	GCST90200025	14	80871270	T	C	4466	0.37	0.08	0.00	0.00	21.24
rs143590099	Phenol glucuronide levels	GCST90200025	15	88407974	T	C	4466	0.80	0.15	0.00	0.01	26.99
rs149594310	Phenol glucuronide levels	GCST90200025	16	3814341	A	G	4466	0.28	0.06	0.00	0.00	20.21
rs8070843	Phenol glucuronide levels	GCST90200025	17	72374555	C	T	4466	-0.15	0.03	0.00	0.01	22.46
rs12967091	Phenol glucuronide levels	GCST90200025	18	5402267	A	G	4466	0.19	0.04	0.00	0.00	19.62
rs17596995	Phenol glucuronide levels	GCST90200025	18	55499363	A	G	4466	-0.12	0.03	0.00	0.00	19.77
rs113358676	Phenol glucuronide levels	GCST90200025	19	15121224	A	G	4466	0.31	0.07	0.00	0.00	20.20
rs11696492	Phenol glucuronide levels	GCST90200025	20	15863773	G	A	4466	-0.20	0.04	0.00	0.00	21.70
rs6031280	Phenol glucuronide levels	GCST90200025	20	43993828	G	T	4466	-0.12	0.03	0.00	0.00	19.74
rs543486894	Phenol glucuronide levels	GCST90200025	21	44801652	A	G	4466	0.50	0.10	0.00	0.01	24.77
rs115030544	Glycodeoxych olate 3-sulfate levels	GCST90200026	1	64377694	G	A	8066	0.26	0.06	0.00	0.00	20.32
rs78536716	Glycodeoxych olate 3-sulfate levels	GCST90200026	2	121533854	C	T	8066	0.19	0.04	0.00	0.00	21.49
rs279561	Glycodeoxych olate 3-sulfate levels	GCST90200026	3	9854199	A	G	8066	0.10	0.02	0.00	0.00	20.09
rs17399163	Glycodeoxych olate 3-sulfate levels	GCST90200026	3	63547383	G	C	8066	-0.23	0.05	0.00	0.00	20.49
rs73186478	Glycodeoxych olate 3-sulfate levels	GCST90200026	3	123370601	T	C	8066	0.20	0.04	0.00	0.00	19.51
rs7609588	Glycodeoxych olate 3-sulfate levels	GCST90200026	3	133869481	T	C	8066	-0.19	0.04	0.00	0.00	20.09
rs556808	Glycodeoxych olate 3-sulfate levels	GCST90200026	4	74206010	G	A	8066	0.15	0.03	0.00	0.00	20.20
rs11735625	Glycodeoxych olate 3-sulfate levels	GCST90200026	4	117038322	C	A	8066	-0.08	0.02	0.00	0.00	20.34
rs822596	Glycodeoxych olate 3-sulfate levels	GCST90200026	5	155326085	T	C	8066	0.07	0.02	0.00	0.00	20.00
rs75236806	Glycodeoxych olate 3-sulfate levels	GCST90200026	6	5302760	C	G	8066	-0.30	0.06	0.00	0.00	28.16
rs114107915	Glycodeoxych olate 3-sulfate levels	GCST90200026	6	11785089	A	G	8066	-0.29	0.06	0.00	0.00	26.41

rs76547280	Glycodeoxycholate 3-sulfate levels	GCST90200026	6	129423544	G	A	8066	-0.21	0.04	0.00	0.00	22.08
rs17076790	Glycodeoxycholate 3-sulfate levels	GCST90200026	6	147491018	G	A	8066	0.17	0.04	0.00	0.00	20.92
rs56687477	Glycodeoxycholate 3-sulfate levels	GCST90200026	8	36974792	A	G	8066	0.11	0.02	0.00	0.00	23.63
rs117151675	Glycodeoxycholate 3-sulfate levels	GCST90200026	8	101946522	T	C	8066	-0.21	0.05	0.00	0.00	19.66
rs13260626	Glycodeoxycholate 3-sulfate levels	GCST90200026	8	123178077	T	C	8066	0.12	0.03	0.00	0.00	21.11
rs56393954	Glycodeoxycholate 3-sulfate levels	GCST90200026	8	141138498	T	G	8066	0.12	0.03	0.00	0.00	20.65
rs78445718	Glycodeoxycholate 3-sulfate levels	GCST90200026	10	68269016	A	G	8066	-1.13	0.23	0.00	0.00	24.85
rs1912283	Glycodeoxycholate 3-sulfate levels	GCST90200026	10	85563277	C	A	8066	0.18	0.04	0.00	0.00	26.02
rs7090061	Glycodeoxycholate 3-sulfate levels	GCST90200026	10	129699761	G	T	8066	0.17	0.03	0.00	0.00	25.70
rs138468492	Glycodeoxycholate 3-sulfate levels	GCST90200026	11	23436475	A	G	8066	0.25	0.06	0.00	0.00	19.89
rs4762697	Glycodeoxycholate 3-sulfate levels	GCST90200026	12	21162039	T	A	8066	0.21	0.02	0.00	0.02	141.41
rs4149056	Glycodeoxycholate 3-sulfate levels	GCST90200026	12	21178615	C	T	8066	0.52	0.02	0.00	0.07	641.40
rs1259775	Glycodeoxycholate 3-sulfate levels	GCST90200026	12	31924528	G	A	8066	0.08	0.02	0.00	0.00	19.84
rs55971546	Glycodeoxycholate 3-sulfate levels	GCST90200026	13	103065958	T	C	8066	0.39	0.04	0.00	0.01	109.55
rs11656408	Glycodeoxycholate 3-sulfate levels	GCST90200026	17	30310155	G	A	8066	0.09	0.02	0.00	0.00	31.34
rs56298430	Glycodeoxycholate 3-sulfate levels	GCST90200026	17	75341627	A	G	8066	0.16	0.03	0.00	0.00	21.32
rs481803	Glycodeoxycholate 3-sulfate levels	GCST90200026	18	10564316	G	A	8066	0.15	0.03	0.00	0.00	19.52
rs111970187	Glycodeoxycholate 3-sulfate levels	GCST90200026	18	51369222	A	G	8066	-0.15	0.03	0.00	0.00	21.49
rs114851946	Glycodeoxycholate 3-sulfate levels	GCST90200026	19	20272792	A	G	8066	0.41	0.09	0.00	0.00	19.96
rs212100	Glycodeoxycholate 3-sulfate levels	GCST90200026	19	47873738	C	T	8066	0.25	0.02	0.00	0.02	140.02
rs117854248	Glycodeoxycholate 3-sulfate levels	GCST90200026	21	36565660	T	G	8066	-0.39	0.08	0.00	0.00	23.37
rs28415528	4-hydroxyphenylacetyl carnitine levels	GCST90200027	1	151907285	A	G	7523	0.21	0.02	0.00	0.02	149.22
rs12037300	4-hydroxyphenylacetyl carnitine levels	GCST90200027	1	202102330	T	G	7523	0.10	0.02	0.00	0.00	19.57

rs35762753	4-hydroxyphenylacetyl carnitine levels	GCST90200027	1	221654280	G	T	7523	0.34	0.07	0.00	0.00	22.30
rs16858224	4-hydroxyphenylacetyl carnitine levels	GCST90200027	2	217788867	A	G	7523	0.12	0.03	0.00	0.00	20.65
rs9815292	4-hydroxyphenylacetyl carnitine levels	GCST90200027	3	184116702	T	C	7523	0.09	0.02	0.00	0.00	19.78
rs12522716	4-hydroxyphenylacetyl carnitine levels	GCST90200027	5	79465953	C	T	7523	0.11	0.02	0.00	0.00	19.53
rs143370068	4-hydroxyphenylacetyl carnitine levels	GCST90200027	5	151384678	T	C	7523	-0.34	0.07	0.00	0.00	22.51
rs79995611	4-hydroxyphenylacetyl carnitine levels	GCST90200027	5	178984437	A	C	7523	0.14	0.03	0.00	0.00	21.60
rs9260114	4-hydroxyphenylacetyl carnitine levels	GCST90200027	6	29942211	T	C	7523	-0.08	0.02	0.00	0.00	23.91
rs164529	4-hydroxyphenylacetyl carnitine levels	GCST90200027	6	93335664	A	T	7523	0.15	0.03	0.00	0.00	20.17
rs541466789	4-hydroxyphenylacetyl carnitine levels	GCST90200027	8	74866898	A	G	7523	-0.35	0.08	0.00	0.00	20.06
rs6992196	4-hydroxyphenylacetyl carnitine levels	GCST90200027	8	112275170	T	A	7523	-0.08	0.02	0.00	0.00	19.62
rs11103135	4-hydroxyphenylacetyl carnitine levels	GCST90200027	9	135687183	T	G	7523	0.11	0.02	0.00	0.00	22.40
rs1171614	4-hydroxyphenylacetyl carnitine levels	GCST90200027	10	59709780	C	T	7523	0.14	0.02	0.00	0.01	49.96
rs61852617	4-hydroxyphenylacetyl carnitine levels	GCST90200027	10	89025446	C	T	7523	-0.23	0.05	0.00	0.00	22.72
rs138654365	4-hydroxyphenylacetyl carnitine levels	GCST90200027	11	68139318	A	G	7523	0.33	0.07	0.00	0.00	21.21
rs139966006	4-hydroxyphenylacetyl carnitine levels	GCST90200027	11	90285442	A	G	7523	-0.48	0.09	0.00	0.00	26.39
rs144390345	4-hydroxyphenylacetyl carnitine levels	GCST90200027	11	118010339	G	A	7523	0.71	0.16	0.00	0.00	20.17
rs1793816	4-hydroxyphenylacetyl carnitine levels	GCST90200027	11	131156482	T	C	7523	0.07	0.02	0.00	0.00	22.59
rs74916376	4-hydroxyphenylacetyl carnitine levels	GCST90200027	12	127164403	A	G	7523	-0.38	0.08	0.00	0.00	20.39

rs148771520	4-hydroxyphenylacetyl carnitine levels	GCST90200027	13	100685637	T	C	7523	0.35	0.07	0.00	0.00	23.85
rs74969422	4-hydroxyphenylacetyl carnitine levels	GCST90200027	14	36501308	A	G	7523	0.27	0.06	0.00	0.00	21.08
rs117334169	4-hydroxyphenylacetyl carnitine levels	GCST90200027	14	58081704	A	G	7523	0.19	0.04	0.00	0.00	19.88
rs58395451	4-hydroxyphenylacetyl carnitine levels	GCST90200027	16	20546668	A	T	7523	-0.23	0.05	0.00	0.00	20.89
rs28633991	4-hydroxyphenylacetyl carnitine levels	GCST90200027	16	20561960	G	A	7523	0.13	0.02	0.00	0.01	42.64
rs117495957	4-hydroxyphenylacetyl carnitine levels	GCST90200027	16	87337218	C	G	7523	0.32	0.06	0.00	0.00	27.41
rs75208831	4-hydroxyphenylacetyl carnitine levels	GCST90200027	17	63756435	T	C	7523	0.20	0.05	0.00	0.00	19.91
rs113752471	4-hydroxyphenylacetyl carnitine levels	GCST90200027	19	6323154	C	T	7523	0.26	0.05	0.00	0.00	23.65
rs58402301	4-hydroxyphenylacetyl carnitine levels	GCST90200027	19	7161431	G	T	7523	-0.08	0.02	0.00	0.00	21.40
rs9637302	4-hydroxyphenylacetyl carnitine levels	GCST90200027	21	42970643	C	T	7523	-0.09	0.02	0.00	0.00	21.45
rs144788155	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	1	2378781	A	C	8257	-0.28	0.06	0.00	0.00	23.37
rs113951858	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	1	9387821	A	G	8257	-0.11	0.02	0.00	0.00	23.10
rs1565787	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	1	33500511	C	A	8257	0.08	0.02	0.00	0.00	20.23
rs112957492	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	1	62651339	C	T	8257	-0.08	0.02	0.00	0.00	22.37
rs12748237	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	1	95106457	G	T	8257	0.08	0.02	0.00	0.00	25.28
rs16845737	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	2	133026611	G	A	8257	0.11	0.02	0.00	0.00	19.97
rs9872072	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	3	68635353	G	A	8257	0.08	0.02	0.00	0.00	23.67
rs60534314	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	4	90218839	A	G	8257	0.11	0.03	0.00	0.00	19.62

rs3846738	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	6	79410776	C	G	8257	-0.08	0.02	0.00	0.00	19.83
rs1733609	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	7	81907059	G	A	8257	0.09	0.02	0.00	0.00	24.73
rs12155488	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	7	97263795	A	G	8257	-0.07	0.02	0.00	0.00	20.23
rs7793697	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	7	112451582	G	T	8257	0.10	0.02	0.00	0.00	22.18
rs7781555	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	7	134707497	C	T	8257	-0.08	0.02	0.00	0.00	22.24
rs13282385	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	8	1256920	A	G	8257	0.09	0.02	0.00	0.00	21.65
rs58417870	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	8	35553520	G	A	8257	-0.12	0.03	0.00	0.00	20.28
rs2623844	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	8	67727598	G	A	8257	0.12	0.02	0.00	0.00	22.71
rs13265485	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	8	139106552	C	T	8257	0.08	0.02	0.00	0.00	22.74
rs16918355	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	9	32581987	C	T	8257	0.20	0.05	0.00	0.00	20.30
rs471924	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	9	90639530	A	G	8257	0.08	0.02	0.00	0.00	23.37
rs6480817	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	10	76427235	A	G	8257	-0.07	0.02	0.00	0.00	19.54
rs4751996	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	10	116638383	G	A	8257	0.11	0.02	0.00	0.01	55.61
rs11258061 2	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	11	23655888	G	A	8257	-0.27	0.06	0.00	0.00	22.06
rs57845861	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	12	47133368	A	C	8257	0.14	0.03	0.00	0.00	21.23
rs75675930	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	12	71162277	T	A	8257	0.22	0.05	0.00	0.00	19.52
rs14635121 3	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	12	79505468	G	C	8257	-0.28	0.06	0.00	0.00	24.46
rs1953555	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	14	20201686	T	G	8257	0.07	0.02	0.00	0.00	21.22

rs11631791	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	15	46022017	C	T	8257	0.07	0.02	0.00	0.00	20.14
rs1532085	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	15	58391167	G	A	8257	-0.09	0.02	0.00	0.00	29.97
rs9673221	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	16	5270457	G	C	8257	-0.09	0.02	0.00	0.00	20.39
rs8075029	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	17	13492533	G	T	8257	0.14	0.03	0.00	0.00	21.58
rs142009207	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	17	42394393	C	G	8257	-0.13	0.03	0.00	0.00	19.95
rs77960347	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	18	49583585	G	A	8257	0.28	0.06	0.00	0.00	19.75
rs62094353	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	18	75818187	G	C	8257	0.12	0.03	0.00	0.00	22.02
rs77881374	1-stearoyl-2-oleoyl-gpc (18:0/18:1) levels	GCST90200028	20	17531715	C	T	8257	-0.22	0.04	0.00	0.00	24.59
rs324420	Linoleoyl ethanolamide levels	GCST90200029	1	46405089	A	C	7214	0.22	0.02	0.00	0.02	131.81
rs7426919	Linoleoyl ethanolamide levels	GCST90200029	3	46705485	A	G	7214	0.07	0.02	0.00	0.00	19.60
rs7662010	Linoleoyl ethanolamide levels	GCST90200029	4	41831615	A	G	7214	0.18	0.04	0.00	0.00	20.04
rs7696703	Linoleoyl ethanolamide levels	GCST90200029	4	186189702	A	G	7214	0.18	0.04	0.00	0.00	19.91
rs12662335	Linoleoyl ethanolamide levels	GCST90200029	6	130594300	T	C	7214	0.20	0.04	0.00	0.00	20.06
rs28545508	Linoleoyl ethanolamide levels	GCST90200029	8	95046528	A	C	7214	-0.37	0.08	0.00	0.00	20.58
rs3115772	Linoleoyl ethanolamide levels	GCST90200029	8	117721224	A	C	7214	0.14	0.03	0.00	0.00	20.29
rs12376024	Linoleoyl ethanolamide levels	GCST90200029	9	14169558	T	C	7214	0.12	0.03	0.00	0.00	23.87
rs11258078	Linoleoyl ethanolamide levels	GCST90200029	10	12947549	A	G	7214	-0.08	0.02	0.00	0.00	19.90
rs117498349	Linoleoyl ethanolamide levels	GCST90200029	10	109832019	T	C	7214	0.26	0.06	0.00	0.00	21.07
rs11146276	Linoleoyl ethanolamide levels	GCST90200029	10	132260883	C	T	7214	0.07	0.02	0.00	0.00	19.60
rs174529	Linoleoyl ethanolamide levels	GCST90200029	11	61776489	C	T	7214	0.08	0.02	0.00	0.00	24.61
rs2435586	Linoleoyl ethanolamide levels	GCST90200029	11	98701305	A	G	7214	-0.09	0.02	0.00	0.00	24.92
rs10842367	Linoleoyl ethanolamide levels	GCST90200029	12	24547117	C	T	7214	0.10	0.02	0.00	0.00	21.09

rs631938	Linoleoyl ethanolamide levels	GCST90200029	13	68818884	A	T	7214	0.34	0.08	0.00	0.00	19.86
rs36062374	Linoleoyl ethanolamide levels	GCST90200029	14	31544556	T	C	7214	0.08	0.02	0.00	0.00	21.53
rs62005640	Linoleoyl ethanolamide levels	GCST90200029	15	61071698	G	A	7214	-0.15	0.03	0.00	0.00	27.40
rs14117495 4	Linoleoyl ethanolamide levels	GCST90200029	16	17567786	G	A	7214	-0.39	0.09	0.00	0.00	20.77
rs2925467	Linoleoyl ethanolamide levels	GCST90200029	18	547733	C	T	7214	-0.13	0.03	0.00	0.00	22.10
rs12604300	Linoleoyl ethanolamide levels	GCST90200029	18	5683095	A	G	7214	0.23	0.05	0.00	0.00	20.03
rs18927292 0	Linoleoyl ethanolamide levels	GCST90200029	18	68627165	G	A	7214	-0.30	0.07	0.00	0.00	20.64
rs616181	Linoleoyl ethanolamide levels	GCST90200029	18	71505299	G	A	7214	0.09	0.02	0.00	0.00	22.52
rs36046295	Linoleoyl ethanolamide levels	GCST90200029	20	8579882	G	A	7214	-0.08	0.02	0.00	0.00	25.25
rs75187018	Linoleoyl ethanolamide levels	GCST90200029	21	29887576	A	G	7214	-0.20	0.04	0.00	0.00	19.57
rs14289085 8	1,2-dilinoyleoyl- GPC (18:2/18:2) levels	GCST90200030	1	235991198	T	C	8227	0.31	0.07	0.00	0.00	22.73
rs20049781 8	1,2-dilinoyleoyl- GPC (18:2/18:2) levels	GCST90200030	2	62059334	A	T	8227	0.32	0.07	0.00	0.00	20.29
rs7618692	1,2-dilinoyleoyl- GPC (18:2/18:2) levels	GCST90200030	3	369122	C	A	8227	0.07	0.02	0.00	0.00	20.62
rs4395533	1,2-dilinoyleoyl- GPC (18:2/18:2) levels	GCST90200030	4	120560795	A	G	8227	-0.08	0.02	0.00	0.00	25.35
rs35988618	1,2-dilinoyleoyl- GPC (18:2/18:2) levels	GCST90200030	8	71548557	C	G	8227	-0.08	0.02	0.00	0.00	22.68
rs12546431	1,2-dilinoyleoyl- GPC (18:2/18:2) levels	GCST90200030	8	143419675	T	C	8227	0.08	0.02	0.00	0.00	20.20
rs4277101	1,2-dilinoyleoyl- GPC (18:2/18:2) levels	GCST90200030	11	8281081	G	A	8227	-0.07	0.02	0.00	0.00	19.71
rs174546	1,2-dilinoyleoyl- GPC (18:2/18:2) levels	GCST90200030	11	61802358	T	C	8227	0.30	0.02	0.00	0.04	357.35
rs7113302	1,2-dilinoyleoyl- GPC (18:2/18:2) levels	GCST90200030	11	127203831	T	G	8227	-0.07	0.02	0.00	0.00	20.59
rs11805833 4	1,2-dilinoyleoyl- GPC (18:2/18:2) levels	GCST90200030	13	50382197	C	T	8227	-0.30	0.07	0.00	0.00	20.36
rs7993596	1,2-dilinoyleoyl- GPC (18:2/18:2) levels	GCST90200030	13	74251393	G	A	8227	0.11	0.02	0.00	0.00	25.17

rs61985979	1,2-dilinoleoyl-GPC (18:2/18:2) levels	GCST90200030	14	59101826	G	A	8227	-0.07	0.02	0.00	0.00	22.74
rs4887347	1,2-dilinoleoyl-GPC (18:2/18:2) levels	GCST90200030	15	88027625	A	C	8227	-0.07	0.02	0.00	0.00	22.69
rs34393429	1,2-dilinoleoyl-GPC (18:2/18:2) levels	GCST90200030	16	12540451	T	C	8227	0.13	0.03	0.00	0.00	22.22
rs708272	1,2-dilinoleoyl-GPC (18:2/18:2) levels	GCST90200030	16	56962376	A	G	8227	0.07	0.02	0.00	0.00	19.54
rs144222463	1,2-dilinoleoyl-GPC (18:2/18:2) levels	GCST90200030	17	49131898	T	C	8227	0.35	0.08	0.00	0.00	21.18
rs143494363	1,2-dilinoleoyl-GPC (18:2/18:2) levels	GCST90200030	18	14437607	C	T	8227	-0.12	0.03	0.00	0.00	23.09
rs149556176	Nonanoylcarnitine (C9) levels	GCST90200031	1	74971148	C	T	7669	0.40	0.07	0.00	0.00	37.10
rs116805899	Nonanoylcarnitine (C9) levels	GCST90200031	1	74972157	A	G	7669	0.18	0.04	0.00	0.00	23.46
rs2185152	Nonanoylcarnitine (C9) levels	GCST90200031	1	75758325	T	C	7669	-0.38	0.02	0.00	0.07	536.29
rs36012907	Nonanoylcarnitine (C9) levels	GCST90200031	1	204619938	T	C	7669	0.12	0.03	0.00	0.00	20.40
rs6741153	Nonanoylcarnitine (C9) levels	GCST90200031	2	59448794	C	T	7669	-0.10	0.02	0.00	0.00	25.85
rs3821429	Nonanoylcarnitine (C9) levels	GCST90200031	3	1325162	C	T	7669	-0.09	0.02	0.00	0.00	20.09
rs62275743	Nonanoylcarnitine (C9) levels	GCST90200031	3	168648512	T	C	7669	-0.10	0.02	0.00	0.00	19.86
rs62302032	Nonanoylcarnitine (C9) levels	GCST90200031	4	36913032	C	T	7669	-0.08	0.02	0.00	0.00	22.49
rs3849591	Nonanoylcarnitine (C9) levels	GCST90200031	4	46366624	T	G	7669	0.09	0.02	0.00	0.00	19.81
rs17843966	Nonanoylcarnitine (C9) levels	GCST90200031	4	158708662	C	A	7669	-0.20	0.02	0.00	0.02	129.77
rs77010315	Nonanoylcarnitine (C9) levels	GCST90200031	5	151343594	A	C	7669	-0.36	0.07	0.00	0.00	25.70
rs17156818	Nonanoylcarnitine (C9) levels	GCST90200031	7	82887678	C	T	7669	-0.11	0.02	0.00	0.00	20.76
rs185971209	Nonanoylcarnitine (C9) levels	GCST90200031	7	146832787	A	C	7669	-0.34	0.08	0.00	0.00	19.82
rs150941161	Nonanoylcarnitine (C9) levels	GCST90200031	7	157745110	G	A	7669	0.45	0.10	0.00	0.00	20.77
rs111833208	Nonanoylcarnitine (C9) levels	GCST90200031	8	64689946	G	A	7669	0.37	0.08	0.00	0.00	23.27
rs4878367	Nonanoylcarnitine (C9) levels	GCST90200031	9	27233274	C	G	7669	-0.08	0.02	0.00	0.00	21.33
rs186327276	Nonanoylcarnitine (C9) levels	GCST90200031	10	94895783	A	G	7669	0.34	0.07	0.00	0.00	20.43
rs2062541	Nonanoylcarnitine (C9) levels	GCST90200031	16	16033378	A	G	7669	0.09	0.02	0.00	0.00	31.93
rs111262693	Nonanoylcarnitine (C9) levels	GCST90200031	18	639341	T	G	7669	0.14	0.03	0.00	0.00	22.02
rs4597410	Nonanoylcarnitine (C9) levels	GCST90200031	18	78079409	G	A	7669	-0.09	0.02	0.00	0.00	19.73
rs148371531	Nonanoylcarnitine (C9) levels	GCST90200031	19	4346542	T	C	7669	0.20	0.05	0.00	0.00	19.78
rs77560455	Nonanoylcarnitine (C9) levels	GCST90200031	22	35577379	C	T	7669	-0.11	0.02	0.00	0.00	22.09
rs11582641	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	1	8121406	C	T	8215	0.32	0.07	0.00	0.00	19.65

rs115984300	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	1	59034480	C	T	8215	-0.24	0.05	0.00	0.00	19.90
rs76072104	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	1	80807078	A	C	8215	0.24	0.05	0.00	0.00	20.03
rs780094	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	2	27518370	C	T	8215	-0.08	0.02	0.00	0.00	27.13
rs12639326	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	3	29269781	G	A	8215	0.13	0.03	0.00	0.00	20.23
rs76968005	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	4	12485324	T	C	8215	-0.32	0.07	0.00	0.00	19.72
rs10022462	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	4	88322666	T	C	8215	-0.08	0.02	0.00	0.00	26.96
rs34318462	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	4	186822349	C	G	8215	-0.08	0.02	0.00	0.00	20.48
rs183194965	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	6	50439081	T	C	8215	-0.42	0.09	0.00	0.00	24.03
rs887417	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	7	157754202	A	G	8215	0.14	0.03	0.00	0.00	29.93
rs117246538	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	7	158136278	A	G	8215	0.26	0.06	0.00	0.00	20.72
rs148158000	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	9	5650310	A	G	8215	-0.22	0.05	0.00	0.00	20.01
rs79950608	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	9	110873692	T	C	8215	0.17	0.04	0.00	0.00	19.95
rs12859068	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	13	110333507	T	C	8215	0.12	0.03	0.00	0.00	21.42
rs139590419	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	14	98090341	G	A	8215	-0.29	0.06	0.00	0.00	20.74

rs2224460	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	14	102097460	T	A	8215	-0.09	0.02	0.00	0.00	20.12
rs7181304	2-hydroxybutyrate/2-hydroxyisobutyrate levels	GCST90200032	15	66233917	T	C	8215	-0.08	0.02	0.00	0.00	21.93
rs1900394	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	1	159662708	G	T	8272	-0.06	0.01	0.00	0.00	19.94
rs2280189	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	1	180913707	G	C	8272	-0.07	0.02	0.00	0.00	19.66
rs9854267	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	3	188304950	T	G	8272	0.15	0.03	0.00	0.00	19.80
rs78146054	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	4	161480649	A	G	8272	-0.17	0.04	0.00	0.00	20.07
rs340082	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	5	78697179	G	A	8272	0.06	0.01	0.00	0.00	19.82
rs4090284	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	6	114395322	A	G	8272	-0.11	0.02	0.00	0.00	21.24
rs150098540	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	6	168746013	G	A	8272	0.30	0.06	0.00	0.00	23.51
rs12156329	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	8	3314882	C	T	8272	-0.06	0.01	0.00	0.00	20.15
rs4961194	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	8	86482745	C	G	8272	0.07	0.01	0.00	0.00	23.61
rs7812898	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	8	112624710	C	T	8272	0.09	0.02	0.00	0.00	19.55
rs7043494	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	9	87800563	T	G	8272	0.07	0.01	0.00	0.00	22.37
rs2437818	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	9	104913141	C	G	8272	0.14	0.03	0.00	0.00	20.00

rs3025304	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	9	133593649	T	G	8272	-0.27	0.06	0.00	0.00	22.13
rs2265085	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	10	760894	C	A	8272	-0.07	0.01	0.00	0.00	20.43
rs9420630	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	10	93768428	G	A	8272	0.08	0.02	0.00	0.00	23.34
rs117060870	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	11	642023	T	C	8272	0.18	0.04	0.00	0.00	19.87
rs174621	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	11	61862632	A	G	8272	-0.10	0.02	0.00	0.00	39.99
rs148058698	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	12	31978777	C	G	8272	-0.40	0.08	0.00	0.00	27.23
rs145248567	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	12	108946826	T	C	8272	0.22	0.05	0.00	0.00	20.37
rs117224623	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	13	43530616	G	C	8272	-0.30	0.07	0.00	0.00	20.13
rs7160525	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	14	63765502	A	G	8272	0.13	0.02	0.00	0.01	53.75
rs7209004	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	17	852871	C	T	8272	-0.09	0.02	0.00	0.00	23.23
rs142077382	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	17	57796511	T	C	8272	-0.20	0.04	0.00	0.00	21.16
rs13347058	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	19	6410664	C	T	8272	0.07	0.02	0.00	0.00	19.76
rs1296489	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	21	44704966	G	A	8272	0.07	0.02	0.00	0.00	19.76
rs5765672	Sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1) levels	GCST90200033	22	45856216	G	A	8272	0.08	0.02	0.00	0.00	22.72
rs7524784	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	1	66778560	T	A	8257	-0.07	0.02	0.00	0.00	19.57

rs3850435	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	1	83494856	C	T	8257	0.09	0.02	0.00	0.00	19.66
rs79448051	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	1	224503331	T	C	8257	-0.25	0.06	0.00	0.00	20.23
rs187423453	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	1	243168803	C	G	8257	-0.23	0.05	0.00	0.00	20.95
rs1881880	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	2	66075465	A	T	8257	-0.07	0.01	0.00	0.00	20.63
rs4131340	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	3	67258714	G	A	8257	0.09	0.02	0.00	0.00	26.36
rs75143980	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	3	73756304	T	C	8257	0.18	0.04	0.00	0.00	21.31
rs75512404	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	3	148548661	A	G	8257	0.11	0.02	0.00	0.00	20.25
rs4597955	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	5	148467710	A	G	8257	0.07	0.01	0.00	0.00	21.56
rs62385400	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	5	158977345	C	T	8257	-0.12	0.03	0.00	0.00	19.81
rs4505988	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	5	160514295	T	G	8257	-0.09	0.02	0.00	0.00	21.67
rs149510848	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	6	2108848	A	G	8257	-0.30	0.07	0.00	0.00	20.66
rs150041281	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	6	129407275	G	C	8257	0.25	0.06	0.00	0.00	20.69
rs145676078	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	6	159002412	G	A	8257	-0.31	0.07	0.00	0.00	19.64
rs74617384	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	6	160576086	T	A	8257	0.13	0.03	0.00	0.00	23.14
rs112881053	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	7	43114688	T	C	8257	0.34	0.08	0.00	0.00	20.68
rs72694392	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	8	84157868	A	C	8257	0.22	0.05	0.00	0.00	20.07
rs118105552	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	8	99752583	G	A	8257	0.28	0.05	0.00	0.00	31.58
rs16934446	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	9	16325342	T	C	8257	0.20	0.04	0.00	0.00	22.58

rs12004644	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	9	87692523	A	G	8257	0.09	0.02	0.00	0.00	21.75
rs2265085	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	10	760894	C	A	8257	-0.07	0.01	0.00	0.00	24.35
rs18486016 4	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	10	103867854	T	C	8257	0.21	0.04	0.00	0.00	22.72
rs11382461 6	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	12	28031972	C	T	8257	-0.12	0.03	0.00	0.00	19.80
rs12425188	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	12	118174051	C	T	8257	-0.23	0.05	0.00	0.00	20.81
rs14329523 0	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	13	44029332	G	C	8257	-0.31	0.06	0.00	0.00	23.82
rs16955077	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	15	46446560	T	A	8257	0.34	0.08	0.00	0.00	19.98
rs11703189 2	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	16	52681470	G	A	8257	-0.31	0.07	0.00	0.00	21.33
rs7237346	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	18	49532047	G	A	8257	0.09	0.02	0.00	0.00	23.25
rs390082	Tricosanoyl sphingomyelin (d18:1/23:0) levels	GCST90200034	19	44913574	G	T	8257	-0.13	0.02	0.00	0.00	30.42
rs11591147	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	1	55039974	T	G	8269	-0.29	0.06	0.00	0.00	26.35
rs34372981	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	1	150897392	C	T	8269	-0.08	0.02	0.00	0.00	22.95
rs11669792 4	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	1	173185595	C	T	8269	-0.19	0.04	0.00	0.00	19.99
rs6661914	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	1	190602583	A	G	8269	-0.07	0.01	0.00	0.00	19.89
rs11693959	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	2	27351292	C	T	8269	0.08	0.02	0.00	0.00	21.39
rs7577494	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	2	58598176	A	C	8269	0.07	0.02	0.00	0.00	20.89

rs9822689	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	3	148787084	A	G	8269	-0.07	0.02	0.00	0.00	20.91
rs11600467 5	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	3	166583281	T	C	8269	0.19	0.04	0.00	0.00	20.88
rs14811614 7	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	4	85872494	A	C	8269	-0.35	0.08	0.00	0.00	20.28
rs11374594 1	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	5	53926937	T	G	8269	-0.17	0.04	0.00	0.00	21.64
rs17796183	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	5	174693128	T	C	8269	0.08	0.02	0.00	0.00	20.39
rs10458125	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	6	1462059	C	A	8269	-0.18	0.04	0.00	0.00	19.54
rs11429488 2	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	6	44238151	T	C	8269	-0.18	0.04	0.00	0.00	19.69
rs11720431 4	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	6	82434659	C	T	8269	-0.17	0.03	0.00	0.00	24.84
rs420430	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	6	149464403	G	T	8269	0.07	0.01	0.00	0.00	24.16
rs74617384	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	6	160576086	T	A	8269	0.16	0.03	0.00	0.00	31.74
rs10816150	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	9	9634746	A	G	8269	0.10	0.02	0.00	0.00	21.09
rs56850653	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	9	80889630	A	G	8269	0.08	0.02	0.00	0.00	25.32
rs14258529 5	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	11	14005231	A	G	8269	-0.22	0.05	0.00	0.00	20.10
rs12316258	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	12	26186284	A	G	8269	0.07	0.02	0.00	0.00	20.75

rs12878001	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	14	63772911	G	T	8269	-0.19	0.02	0.00	0.01	89.63
rs56996827	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	14	100183839	T	C	8269	0.10	0.02	0.00	0.00	22.81
rs12437952	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	15	58757147	A	C	8269	0.10	0.02	0.00	0.00	21.50
rs2955752	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	15	76106043	G	A	8269	-0.08	0.02	0.00	0.00	19.54
rs14397889 2	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	18	15284421	T	C	8269	-0.29	0.06	0.00	0.00	23.45
rs7234333	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	18	31413626	T	C	8269	-0.10	0.02	0.00	0.00	23.40
rs17248720	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	19	11087511	T	C	8269	-0.14	0.02	0.00	0.00	35.96
rs13847258 5	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	19	12818436	T	C	8269	0.33	0.07	0.00	0.00	22.89
rs19071269 2	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	19	44921921	A	G	8269	-0.15	0.03	0.00	0.00	21.97
rs9749077	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	19	45011443	G	T	8269	0.09	0.02	0.00	0.00	32.73
rs62132803	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	19	48768326	T	C	8269	0.09	0.02	0.00	0.00	28.11
rs6066667	Palmitoyl dihydrosphing omyelin (d18:0/16:0) levels	GCST90200035	20	48197525	A	G	8269	-0.12	0.02	0.00	0.00	25.02
rs10889504	1- palmitoleoylgl lycerol (16:1) levels	GCST90200036	1	64924820	C	G	6432	0.12	0.03	0.00	0.00	20.51
rs11228668 9	1- palmitoleoylgl lycerol (16:1) levels	GCST90200036	1	202216668	G	A	6432	-0.16	0.03	0.00	0.00	22.71
rs78501213	1- palmitoleoylgl lycerol (16:1) levels	GCST90200036	2	47153995	A	G	6432	-0.23	0.05	0.00	0.00	23.29

rs150532509	1- palmitoleoylglycerol (16:1) levels	GCST90200036	2	109491995	C	T	6432	0.13	0.03	0.00	0.00	20.86
rs61731470	1- palmitoleoylglycerol (16:1) levels	GCST90200036	2	210220767	A	G	6432	0.23	0.05	0.00	0.00	20.54
rs9841769	1- palmitoleoylglycerol (16:1) levels	GCST90200036	3	11980610	G	T	6432	0.09	0.02	0.00	0.00	28.44
rs80124767	1- palmitoleoylglycerol (16:1) levels	GCST90200036	3	120186944	G	T	6432	-0.18	0.04	0.00	0.00	20.38
rs75777653	1- palmitoleoylglycerol (16:1) levels	GCST90200036	3	190191239	A	G	6432	0.27	0.06	0.00	0.00	21.47
rs1599684	1- palmitoleoylglycerol (16:1) levels	GCST90200036	4	102369672	C	T	6432	0.09	0.02	0.00	0.00	20.62
rs4862080	1- palmitoleoylglycerol (16:1) levels	GCST90200036	4	182638831	C	G	6432	-0.08	0.02	0.00	0.00	19.63
rs78554850	1- palmitoleoylglycerol (16:1) levels	GCST90200036	5	7960258	A	G	6432	0.29	0.06	0.00	0.00	23.42
rs7726558	1- palmitoleoylglycerol (16:1) levels	GCST90200036	5	119576903	C	G	6432	-0.11	0.02	0.00	0.00	19.91
rs188529802	1- palmitoleoylglycerol (16:1) levels	GCST90200036	5	178160826	T	C	6432	0.38	0.08	0.00	0.00	21.97
rs75076424	1- palmitoleoylglycerol (16:1) levels	GCST90200036	6	16562560	G	T	6432	0.20	0.04	0.00	0.00	20.87
rs78921009	1- palmitoleoylglycerol (16:1) levels	GCST90200036	6	54106342	C	A	6432	0.54	0.12	0.00	0.00	19.84
rs77682771	1- palmitoleoylglycerol (16:1) levels	GCST90200036	7	45679041	A	G	6432	0.25	0.05	0.00	0.00	22.05
rs113666856	1- palmitoleoylglycerol (16:1) levels	GCST90200036	7	152954038	G	A	6432	0.26	0.05	0.00	0.00	25.48
rs718742	1- palmitoleoylglycerol (16:1) levels	GCST90200036	8	10756765	G	T	6432	0.09	0.02	0.00	0.00	22.74
rs71510424	1- palmitoleoylglycerol (16:1) levels	GCST90200036	9	27214373	C	T	6432	0.15	0.03	0.00	0.00	20.29
rs56959125	1- palmitoleoylglycerol (16:1) levels	GCST90200036	10	123035030	G	A	6432	-0.08	0.02	0.00	0.00	21.20
rs140145918	1- palmitoleoylglycerol (16:1) levels	GCST90200036	11	32142669	T	G	6432	0.35	0.07	0.00	0.00	22.29

rs2072560	1- palmitoleoylglycerol (16:1) levels	GCST90200036	11	116791110	C	T	6432	-0.16	0.04	0.00	0.00	19.84
rs4489853	1- palmitoleoylglycerol (16:1) levels	GCST90200036	13	28098099	G	A	6432	-0.10	0.02	0.00	0.00	19.98
rs9570568	1- palmitoleoylglycerol (16:1) levels	GCST90200036	13	61407504	C	G	6432	-0.10	0.02	0.00	0.00	25.72
rs13902390 2	1- palmitoleoylglycerol (16:1) levels	GCST90200036	14	103352990	C	A	6432	0.37	0.08	0.00	0.00	20.59
rs60365179	1- palmitoleoylglycerol (16:1) levels	GCST90200036	15	101167747	C	A	6432	0.29	0.06	0.00	0.00	21.26
rs72785421	1- palmitoleoylglycerol (16:1) levels	GCST90200036	16	14193978	C	T	6432	-0.11	0.02	0.00	0.00	20.43
rs75221929	1- palmitoleoylglycerol (16:1) levels	GCST90200036	16	60763067	C	A	6432	-0.56	0.11	0.00	0.00	27.83
rs18919633 2	1- palmitoleoylglycerol (16:1) levels	GCST90200036	17	27822305	G	A	6432	0.32	0.07	0.00	0.00	22.24
rs9960247	1- palmitoleoylglycerol (16:1) levels	GCST90200036	18	10279253	C	T	6432	-0.09	0.02	0.00	0.00	21.79
rs2642213	1- palmitoleoylglycerol (16:1) levels	GCST90200036	19	6572821	A	C	6432	0.08	0.02	0.00	0.00	21.18
rs3826700	1- palmitoleoylglycerol (16:1) levels	GCST90200036	19	17315692	G	T	6432	0.08	0.02	0.00	0.00	19.94
rs35921908	1- palmitoleoylglycerol (16:1) levels	GCST90200036	19	19747831	T	C	6432	-0.33	0.07	0.00	0.00	21.44
rs11334588 1	1- palmitoleoylglycerol (16:1) levels	GCST90200036	19	44928379	G	A	6432	0.15	0.03	0.00	0.00	22.97
rs2154613	1- palmitoleoylglycerol (16:1) levels	GCST90200036	22	24688104	T	G	6432	-0.09	0.02	0.00	0.00	20.77
rs17351075	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	1	13931761	G	A	8231	-0.17	0.04	0.00	0.00	19.76
rs1168041	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	1	62494579	C	T	8231	0.10	0.02	0.00	0.00	39.01
rs2797616	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	1	94964359	T	C	8231	-0.07	0.02	0.00	0.00	21.81
rs14715911 8	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	2	226589470	A	C	8231	0.12	0.03	0.00	0.00	21.80

rs73891753	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	3	194214664	C	T	8231	0.32	0.07	0.00	0.00	21.22
rs35801472	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	4	25849641	T	C	8231	-0.08	0.02	0.00	0.00	22.98
rs1229984	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	4	99318162	C	T	8231	-0.21	0.04	0.00	0.00	24.37
rs18760074 9	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	6	601063	C	T	8231	0.20	0.05	0.00	0.00	19.58
rs78047257	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	6	96268571	T	C	8231	-0.17	0.04	0.00	0.00	20.94
rs19232281 5	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	6	109018571	A	G	8231	-0.38	0.08	0.00	0.00	22.50
rs18336796 6	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	7	145568643	A	G	8231	-0.30	0.07	0.00	0.00	20.38
rs11738707 2	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	8	90315467	A	G	8231	-0.20	0.04	0.00	0.00	25.52
rs11782110	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	8	112539264	A	C	8231	-0.08	0.02	0.00	0.00	22.57
rs10810120	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	9	14244377	C	T	8231	-0.12	0.02	0.00	0.00	24.37
rs6478959	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	9	130288292	G	C	8231	0.07	0.02	0.00	0.00	20.64
rs76056930	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	10	12641441	G	A	8231	0.08	0.02	0.00	0.00	21.83
rs74698608	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	10	49801627	A	G	8231	-0.30	0.07	0.00	0.00	21.09
rs4277101	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	11	8281081	G	A	8231	-0.07	0.02	0.00	0.00	20.92
rs174546	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	11	61802358	T	C	8231	0.23	0.02	0.00	0.03	213.84
rs12589095	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	14	59113150	A	C	8231	0.08	0.02	0.00	0.00	19.64
rs12928099	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	16	15056648	A	C	8231	-0.09	0.02	0.00	0.00	30.69
rs17231506	1-stearoyl-2- linoleoyl-gpc (18:0/18:2) levels	GCST90200037	16	56960616	T	C	8231	0.07	0.02	0.00	0.00	22.00

rs77343163	1-stearoyl-2-linoleoyl-gpc (18:0/18:2) levels	GCST90200037	18	5250306	T	G	8231	0.19	0.04	0.00	0.00	20.69
rs439401	1-stearoyl-2-linoleoyl-gpc (18:0/18:2) levels	GCST90200037	19	44911194	C	T	8231	0.08	0.02	0.00	0.00	24.05
rs14556084 1	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	1	54917776	G	A	8276	0.30	0.07	0.00	0.00	20.59
rs12129379	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	1	159995471	T	G	8276	0.10	0.02	0.00	0.00	21.76
rs780093	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	2	27519736	C	T	8276	-0.08	0.02	0.00	0.00	24.31
rs77952878	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	2	48610187	G	A	8276	0.12	0.03	0.00	0.00	22.71
rs76085215	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	2	60853704	C	G	8276	-0.23	0.05	0.00	0.00	19.81
rs1362996	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	2	169232582	G	A	8276	-0.11	0.03	0.00	0.00	19.90
rs2352844	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	2	240374295	A	G	8276	-0.19	0.04	0.00	0.00	22.15
rs3087494	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	4	109710465	G	A	8276	0.07	0.02	0.00	0.00	22.22
rs11733699	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	4	171879075	A	T	8276	-0.08	0.02	0.00	0.00	22.87
rs14732519 8	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	5	9684711	A	G	8276	0.29	0.07	0.00	0.00	19.70
rs18748810 2	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	8	89994146	C	G	8276	0.37	0.08	0.00	0.00	22.24
rs77541308	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	9	131037366	A	G	8276	-0.20	0.04	0.00	0.00	21.57
rs4746391	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	10	76417776	C	A	8276	-0.07	0.02	0.00	0.00	20.23
rs17814881	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	12	73629469	A	G	8276	0.08	0.02	0.00	0.00	19.58
rs14635121 3	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	12	79505468	G	C	8276	-0.26	0.06	0.00	0.00	20.85
rs809794	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	12	99587748	G	A	8276	0.07	0.02	0.00	0.00	21.74

rs8028787	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	15	57456781	G	A	8276	-0.21	0.05	0.00	0.00	21.49
rs148104145	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	16	56579516	G	C	8276	0.16	0.04	0.00	0.00	19.95
rs149051006	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	17	9883912	A	G	8276	0.28	0.06	0.00	0.00	23.38
rs78878010	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	18	69173533	C	G	8276	-0.18	0.04	0.00	0.00	21.85
rs4987246	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	20	3677978	G	A	8276	0.20	0.04	0.00	0.00	21.69
rs997424	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	20	16876894	T	G	8276	-0.09	0.02	0.00	0.00	26.32
rs77881374	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	20	17531715	C	T	8276	-0.20	0.04	0.00	0.00	20.40
rs7278441	1-palmitoyl-2-palmitoleoyl-gpc (16:0/16:1) levels	GCST90200038	21	32556022	A	G	8276	0.07	0.02	0.00	0.00	20.49
rs140687647	1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	1	43285419	G	C	8241	-0.26	0.06	0.00	0.00	19.64
rs12071585	1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	1	63567377	T	C	8241	-0.10	0.02	0.00	0.00	20.39
rs141089920	1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	1	161486977	T	C	8241	0.49	0.11	0.00	0.00	20.61
rs74149585	1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	1	241020225	G	A	8241	-0.21	0.04	0.00	0.00	22.61
rs200981432	1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	2	12629745	G	A	8241	0.26	0.06	0.00	0.00	19.79
rs1260326	1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	2	27508073	C	T	8241	-0.07	0.02	0.00	0.00	20.01
rs6749880	1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	2	29792205	A	C	8241	0.21	0.04	0.00	0.00	23.71
rs13382655	1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	2	43264911	A	G	8241	0.23	0.05	0.00	0.00	24.27
rs17476817	1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	2	201974743	T	C	8241	0.07	0.02	0.00	0.00	20.40
rs12694261	1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	2	212067236	C	T	8241	0.14	0.03	0.00	0.00	20.30

rs53265426 1	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	3	4367220	T	C	8241	-0.36	0.08	0.00	0.00	20.17
rs14629974 5	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	3	66174334	C	G	8241	0.08	0.02	0.00	0.00	19.87
rs28507255	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	4	17469701	G	T	8241	0.07	0.02	0.00	0.00	19.94
rs73117678	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	4	36302755	C	T	8241	0.14	0.03	0.00	0.00	23.19
rs14564089 2	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	5	108568737	T	C	8241	0.23	0.05	0.00	0.00	20.02
rs41273118	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	6	39104558	A	T	8241	-0.09	0.02	0.00	0.00	21.86
rs829705	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	9	24229979	C	T	8241	-0.08	0.02	0.00	0.00	22.81
rs174553	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	11	61807686	G	A	8241	0.28	0.02	0.00	0.04	315.25
rs14801585 9	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	11	75915060	G	A	8241	0.28	0.06	0.00	0.00	24.57
rs964184	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	11	116778201	C	G	8241	-0.17	0.02	0.00	0.01	55.84
rs17108445	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	12	70629176	C	A	8241	-0.17	0.04	0.00	0.00	19.51
rs14600895 5	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	13	56276734	G	T	8241	0.28	0.06	0.00	0.00	20.63
rs11854242	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	15	58279711	T	C	8241	-0.08	0.02	0.00	0.00	23.56
rs261290	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	15	58386521	C	T	8241	-0.28	0.02	0.00	0.03	295.60
rs633695	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	15	58433640	G	A	8241	0.21	0.02	0.00	0.02	144.87
rs12928099	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	16	15056648	A	C	8241	-0.09	0.02	0.00	0.00	28.84
rs71400124	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	16	80902484	A	G	8241	-0.23	0.05	0.00	0.00	22.30
rs483082	1-stearoyl-2- linoleoyl-GPE (18:0/18:2) levels	GCST90200039	19	44912921	T	G	8241	0.12	0.02	0.00	0.00	41.39

rs204478	1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	19	44976194	T	A	8241	0.10	0.02	0.00	0.00	21.91
rs118025367	1-stearoyl-2-linoleoyl-GPE (18:0/18:2) levels	GCST90200039	20	47516801	T	C	8241	-0.15	0.03	0.00	0.00	19.76
rs74860828	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	1	58621660	T	C	8273	0.11	0.02	0.00	0.00	19.98
rs557026	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	1	94006933	C	T	8273	0.11	0.02	0.00	0.00	20.26
rs78845054	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	1	216527122	A	G	8273	-0.15	0.03	0.00	0.00	20.68
rs1728911	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	2	27427062	G	T	8273	0.07	0.01	0.00	0.00	24.48
rs183342131	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	2	78545480	A	G	8273	-0.41	0.09	0.00	0.00	20.23
rs2972136	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	2	226242319	G	A	8273	-0.07	0.01	0.00	0.00	21.63
rs11097753	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	4	101660721	C	G	8273	-0.07	0.02	0.00	0.00	19.91
rs78146054	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	4	161480649	A	G	8273	-0.17	0.04	0.00	0.00	20.20
rs31468	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	5	93445277	A	G	8273	0.08	0.02	0.00	0.00	22.95
rs142283579	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	5	107335702	T	C	8273	-0.19	0.04	0.00	0.00	19.88
rs115270635	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	6	47511147	A	G	8273	-0.20	0.04	0.00	0.00	20.46
rs3830076	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	6	32128467	T	C	8273	0.14	0.03	0.00	0.00	20.74
rs148236014	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	6	99643992	C	T	8273	-0.28	0.06	0.00	0.00	19.90
rs2315065	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	6	160687112	A	C	8273	0.12	0.03	0.00	0.00	24.31
rs117606026	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	7	89747188	A	T	8273	0.21	0.04	0.00	0.00	22.48
rs9644338	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	8	3321571	G	C	8273	0.07	0.01	0.00	0.00	19.97

rs139374679	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	8	112639073	G	T	8273	-0.12	0.02	0.00	0.00	24.18
rs11784035	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	8	133926774	T	C	8273	-0.19	0.04	0.00	0.00	20.36
rs10758265	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	9	34543606	A	G	8273	-0.07	0.01	0.00	0.00	21.78
rs12342875	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	9	104982677	C	T	8273	-0.09	0.02	0.00	0.00	22.81
rs12220970	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	10	100415512	A	G	8273	0.07	0.02	0.00	0.00	19.76
rs174622	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	11	61864455	A	G	8273	-0.10	0.02	0.00	0.00	34.62
rs10849080	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	12	4469443	T	C	8273	-0.07	0.02	0.00	0.00	19.63
rs61935570	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	12	81731633	C	T	8273	-0.15	0.03	0.00	0.00	22.50
rs4964629	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	12	103828072	T	C	8273	0.07	0.02	0.00	0.00	22.15
rs11065422	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	12	121074345	A	G	8273	-0.07	0.02	0.00	0.00	20.08
rs9514524	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	13	106277900	T	C	8273	-0.08	0.02	0.00	0.00	25.71
rs142306155	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	14	32131808	A	C	8273	0.18	0.04	0.00	0.00	21.15
rs34862991	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	14	45242113	T	C	8273	-0.16	0.03	0.00	0.00	20.43
rs118188822	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	14	66069104	T	C	8273	-0.38	0.08	0.00	0.00	21.10
rs7350789	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	15	58387469	A	G	8273	0.07	0.01	0.00	0.00	20.64
rs116843064	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	19	8364439	A	G	8273	0.22	0.05	0.00	0.00	21.10
rs78200042	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	19	10327587	T	C	8273	0.22	0.05	0.00	0.00	20.73
rs150432220	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	19	29950119	T	G	8273	-0.29	0.07	0.00	0.00	19.68

rs364585	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	20	12982070	G	A	8273	0.07	0.01	0.00	0.00	22.58
rs7280639	Sphingomyelin (d18:2/24:1, d18:1/24:2) levels	GCST90200040	21	31874487	T	C	8273	-0.07	0.02	0.00	0.00	21.60
rs61781291	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	1	39936166	A	T	8271	0.09	0.02	0.00	0.00	25.18
rs10789114	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	1	62568551	C	T	8271	-0.12	0.02	0.00	0.01	59.22
rs673548	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	2	21014672	A	G	8271	-0.09	0.02	0.00	0.00	24.83
rs62175877	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	2	128716286	G	A	8271	-0.32	0.07	0.00	0.00	21.62
rs76913894	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	3	121956917	T	C	8271	-0.23	0.05	0.00	0.00	22.79
rs11577595 1	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	3	139047862	A	G	8271	-0.19	0.04	0.00	0.00	19.77
rs7655585	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	4	179877992	A	G	8271	0.09	0.02	0.00	0.00	19.90
rs404673	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	5	31674985	T	C	8271	0.14	0.03	0.00	0.00	26.08
rs72787439	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	5	125036776	C	T	8271	0.08	0.02	0.00	0.00	19.53
rs14833356 7	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	5	167819201	A	C	8271	-0.21	0.04	0.00	0.00	22.01
rs1368407	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	5	171564138	T	C	8271	0.07	0.02	0.00	0.00	20.19
rs2885557	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	7	78463756	C	T	8271	-0.07	0.02	0.00	0.00	21.04
rs705379	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	7	95324583	A	G	8271	-0.08	0.02	0.00	0.00	26.45
rs79616801	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	7	127878774	C	T	8271	0.18	0.04	0.00	0.00	21.16
rs56327490	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	8	12941020	C	T	8271	-0.07	0.02	0.00	0.00	22.72
rs10957053	1-palmitoyl-2- stearoyl-gpc (16:0/18:0) levels	GCST90200041	8	58401127	T	C	8271	-0.09	0.02	0.00	0.00	20.03

rs17388446	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	8	110288730	G	A	8271	0.20	0.04	0.00	0.00	21.63
rs10810975	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	9	18519315	A	G	8271	0.07	0.02	0.00	0.00	22.40
rs76895855	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	9	89599167	G	C	8271	-0.39	0.08	0.00	0.00	23.21
rs174560	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	11	61814292	C	T	8271	-0.23	0.02	0.00	0.02	198.25
rs964184	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	11	116778201	C	G	8271	-0.15	0.02	0.00	0.01	45.10
rs17236596	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	12	75920513	A	G	8271	0.23	0.05	0.00	0.00	19.67
rs73189870	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	12	103682148	G	C	8271	0.37	0.08	0.00	0.00	20.10
rs10778301	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	12	103893299	A	G	8271	-0.08	0.02	0.00	0.00	25.57
rs139751384	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	12	121338945	G	A	8271	-0.38	0.08	0.00	0.00	20.83
rs3927443	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	13	101816286	G	T	8271	0.09	0.02	0.00	0.00	26.54
rs7320739	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	13	106285700	G	T	8271	-0.11	0.02	0.00	0.00	26.22
rs1741	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	16	15036494	C	G	8271	-0.08	0.02	0.00	0.00	23.22
rs2071390	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	16	30070046	T	G	8271	-0.10	0.02	0.00	0.00	19.84
rs62066827	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	17	41436294	T	G	8271	-0.15	0.03	0.00	0.00	20.72
rs73000915	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	19	14357739	T	A	8271	0.26	0.06	0.00	0.00	19.54
rs4420638	1-palmitoyl-2-stearoyl-gpc (16:0/18:0) levels	GCST90200041	19	44919689	G	A	8271	0.09	0.02	0.00	0.00	20.34
rs10888422	Oleate/vaccenate (18:1) levels	GCST90200042	1	151572020	A	G	8230	-0.13	0.03	0.00	0.00	21.04
rs56214525	Oleate/vaccenate (18:1) levels	GCST90200042	1	206023974	C	G	8230	-0.41	0.09	0.00	0.00	21.45
rs12497825	Oleate/vaccenate (18:1) levels	GCST90200042	3	47628057	T	A	8230	-0.08	0.02	0.00	0.00	23.72

rs952039	Oleate/vaccen ate (18:1) levels	GCST90200042	3	62713343	C	T	8230	-0.07	0.02	0.00	0.00	21.19
rs12493846	Oleate/vaccen ate (18:1) levels	GCST90200042	3	133183209	A	G	8230	0.08	0.02	0.00	0.00	19.73
rs11653075 3	Oleate/vaccen ate (18:1) levels	GCST90200042	4	156785921	A	G	8230	-0.17	0.03	0.00	0.00	24.89
rs76646409	Oleate/vaccen ate (18:1) levels	GCST90200042	4	185629591	A	C	8230	-0.12	0.03	0.00	0.00	21.52
rs79859092	Oleate/vaccen ate (18:1) levels	GCST90200042	5	96814807	C	T	8230	-0.22	0.04	0.00	0.00	28.80
rs19277352 2	Oleate/vaccen ate (18:1) levels	GCST90200042	5	169479865	C	T	8230	-0.86	0.19	0.00	0.00	20.86
rs6916106	Oleate/vaccen ate (18:1) levels	GCST90200042	6	57311692	G	A	8230	0.09	0.02	0.00	0.00	20.24
rs197490	Oleate/vaccen ate (18:1) levels	GCST90200042	6	142741666	C	T	8230	-0.07	0.02	0.00	0.00	19.73
rs7803343	Oleate/vaccen ate (18:1) levels	GCST90200042	7	10226349	A	G	8230	-0.08	0.02	0.00	0.00	25.57
rs12377502	Oleate/vaccen ate (18:1) levels	GCST90200042	9	14171646	G	A	8230	0.10	0.02	0.00	0.00	19.86
rs10993728	Oleate/vaccen ate (18:1) levels	GCST90200042	9	90860956	A	G	8230	0.10	0.02	0.00	0.00	19.96
rs57711118 5	Oleate/vaccen ate (18:1) levels	GCST90200042	10	18344386	C	T	8230	-0.28	0.06	0.00	0.00	25.10
rs79507970	Oleate/vaccen ate (18:1) levels	GCST90200042	12	24993537	C	G	8230	0.25	0.05	0.00	0.00	21.19
rs7338766	Oleate/vaccen ate (18:1) levels	GCST90200042	13	43285847	C	T	8230	0.07	0.02	0.00	0.00	20.75
rs14307206 8	Oleate/vaccen ate (18:1) levels	GCST90200042	13	109276811	C	T	8230	-0.25	0.06	0.00	0.00	19.95
rs72681051	Oleate/vaccen ate (18:1) levels	GCST90200042	14	24680374	A	T	8230	-0.12	0.03	0.00	0.00	23.48
rs11764750 4	Oleate/vaccen ate (18:1) levels	GCST90200042	15	39489740	G	A	8230	-1.47	0.32	0.00	0.00	21.05
rs1160694	Oleate/vaccen ate (18:1) levels	GCST90200042	15	61132751	G	A	8230	-0.07	0.02	0.00	0.00	20.04
rs11654355	Oleate/vaccen ate (18:1) levels	GCST90200042	17	71212825	T	A	8230	0.07	0.02	0.00	0.00	20.82
rs11391569 1	Oleate/vaccen ate (18:1) levels	GCST90200042	19	56248382	A	G	8230	-0.14	0.03	0.00	0.00	21.75
rs80053496	Oleate/vaccen ate (18:1) levels	GCST90200042	21	39201944	A	G	8230	-0.24	0.05	0.00	0.00	21.30
rs80077444	1-palmitoyl-2- docosahexaeno yl-gpc (16:0/22:6) levels	GCST90200043	1	33888570	C	T	8256	-0.17	0.03	0.00	0.00	24.27
rs11207979	1-palmitoyl-2- docosahexaeno yl-gpc (16:0/22:6) levels	GCST90200043	1	62517323	A	G	8256	-0.10	0.02	0.00	0.00	37.95

rs1653774	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	2	23513452	C	G	8256	-0.09	0.02	0.00	0.00	19.81
rs45596438	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	2	60503487	A	C	8256	-0.20	0.04	0.00	0.00	20.15
rs3094415	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	2	129615797	G	T	8256	0.12	0.03	0.00	0.00	19.62
rs72627915	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	2	194428040	A	C	8256	-0.09	0.02	0.00	0.00	19.70
rs375462300	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	3	90224607	T	A	8256	0.24	0.05	0.00	0.00	21.86
rs181815661	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	4	4815749	T	A	8256	-0.40	0.09	0.00	0.00	19.61
rs76138881	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	4	5797343	C	A	8256	-0.14	0.03	0.00	0.00	22.59
rs79511864	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	5	59287972	C	T	8256	0.23	0.05	0.00	0.00	20.49
rs75477351	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	5	98882782	C	A	8256	-0.20	0.05	0.00	0.00	19.89
rs3734398	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	6	10982740	C	T	8256	-0.15	0.02	0.00	0.01	99.18
rs72904150	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	6	51263122	T	C	8256	-0.18	0.04	0.00	0.00	20.75
rs17145750	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	7	73612048	T	C	8256	-0.10	0.02	0.00	0.00	25.16
rs12554087	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	9	37743964	A	G	8256	-0.09	0.02	0.00	0.00	19.76
rs174546	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	11	61802358	T	C	8256	-0.17	0.02	0.00	0.01	110.53

rs964184	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	11	116778201	C	G	8256	-0.12	0.02	0.00	0.00	28.70
rs12425245	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	12	17392168	T	A	8256	-0.18	0.03	0.00	0.00	29.53
rs117740643	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	12	32440459	A	G	8256	0.19	0.04	0.00	0.00	19.85
rs8042993	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	15	87945095	C	G	8256	0.09	0.02	0.00	0.00	22.77
rs7209612	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	17	42727143	C	T	8256	-0.08	0.02	0.00	0.00	25.44
rs6079653	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	20	15079032	G	T	8256	0.08	0.02	0.00	0.00	20.23
rs142800334	1-palmitoyl-2-docosahexaenoyl-gpc (16:0/22:6) levels	GCST90200043	20	59253316	A	G	8256	0.32	0.07	0.00	0.00	23.94
rs3753754	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	1	52604721	T	C	8258	-0.07	0.02	0.00	0.00	20.76
rs140520803	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	1	150630026	A	C	8258	0.30	0.07	0.00	0.00	21.25
rs913057	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	1	153485076	T	C	8258	-0.08	0.02	0.00	0.00	20.68
rs12638256	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	3	142936448	G	A	8258	0.07	0.02	0.00	0.00	19.64
rs115713394	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	3	193125616	A	G	8258	-0.20	0.04	0.00	0.00	22.77
rs116750394	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	4	118063950	A	G	8258	0.22	0.05	0.00	0.00	21.15
rs117090533	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	4	173728655	A	G	8258	0.33	0.07	0.00	0.00	20.39

rs2610941	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	8	21293498	A	G	8258	-0.07	0.02	0.00	0.00	19.56
rs190170851	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	10	121365632	C	T	8258	-0.22	0.05	0.00	0.00	19.85
rs573366662	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	11	11307740	G	A	8258	-0.41	0.08	0.00	0.00	23.11
rs533107131	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	13	63057468	A	G	8258	-0.45	0.09	0.00	0.00	25.11
rs9520481	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	13	107538110	T	G	8258	-0.11	0.02	0.00	0.00	25.27
rs188715140	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	14	20330191	A	G	8258	0.30	0.06	0.00	0.00	23.28
rs76918937	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	15	54465777	G	A	8258	0.28	0.06	0.00	0.00	20.19
rs73243733	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	16	84404524	C	G	8258	-0.25	0.06	0.00	0.00	19.76
rs12918202	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	16	86682833	C	G	8258	0.09	0.02	0.00	0.00	21.40
rs12606866	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	18	13497154	C	A	8258	0.07	0.02	0.00	0.00	20.38
rs73423516	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	18	33391241	C	T	8258	-0.11	0.02	0.00	0.00	24.45
rs141622900	1-(1-enyl-stearoyl)-2-oleoyl-GPE (p-18:0/18:1) levels	GCST90200044	19	44923535	A	G	8258	0.24	0.03	0.00	0.01	53.27
rs3826886	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	19	55229837	A	G	8258	-0.11	0.02	0.00	0.00	28.67
rs780093	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	2	27519736	C	T	8259	-0.07	0.02	0.00	0.00	21.05

rs281584	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	2	132951101	A	G	8259	-0.08	0.02	0.00	0.00	23.52
rs6773745	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	3	29472715	T	C	8259	-0.09	0.02	0.00	0.00	21.27
rs13081352	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	3	136222574	A	C	8259	-0.14	0.02	0.00	0.00	33.48
rs15099889 7	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	4	86113408	A	T	8259	0.25	0.05	0.00	0.00	23.31
rs14069903 4	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	5	7447198	G	A	8259	-0.54	0.11	0.00	0.00	23.48
rs6878680	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	5	156960126	C	G	8259	0.08	0.02	0.00	0.00	23.14
rs72822697	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	6	14551456	C	T	8259	-0.24	0.05	0.00	0.00	20.22
rs441221	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	7	51916901	G	T	8259	0.10	0.02	0.00	0.00	19.83
rs14643334 3	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	7	146966394	T	G	8259	0.26	0.06	0.00	0.00	21.42
rs3133633	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	8	94647123	C	G	8259	0.08	0.02	0.00	0.00	20.10
rs12685522	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	9	14786964	C	T	8259	0.07	0.02	0.00	0.00	20.31
rs1778876	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	10	34166538	A	G	8259	0.08	0.02	0.00	0.00	20.67
rs60061490	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	10	77544860	C	A	8259	0.19	0.04	0.00	0.00	19.87
rs54467162 5	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	10	95015868	G	A	8259	-0.24	0.05	0.00	0.00	20.88

rs174560	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	11	61814292	C	T	8259	-0.23	0.02	0.00	0.02	201.13
rs964184	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	11	116778201	C	G	8259	-0.21	0.02	0.00	0.01	83.08
rs11324199 8	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	12	14103640	T	C	8259	0.20	0.04	0.00	0.00	21.11
rs66559105	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	12	26236943	C	A	8259	-0.13	0.03	0.00	0.00	20.31
rs76607511	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	12	42899366	T	C	8259	0.17	0.04	0.00	0.00	19.79
rs28711911	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	15	26865853	C	G	8259	-0.09	0.02	0.00	0.00	20.93
rs12904367	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	15	58255679	A	G	8259	0.15	0.02	0.00	0.01	44.69
rs1532085	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	15	58391167	G	A	8259	-0.35	0.02	0.00	0.06	519.77
rs1077834	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	15	58431280	C	T	8259	0.36	0.02	0.00	0.04	378.17
rs6078	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	15	58541794	A	G	8259	0.21	0.05	0.00	0.00	20.54
rs62015468	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	16	6538604	C	G	8259	0.12	0.03	0.00	0.00	20.71
rs11866496	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	16	86080627	G	A	8259	0.09	0.02	0.00	0.00	19.75
rs55948557	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	17	13420508	T	G	8259	0.10	0.02	0.00	0.00	21.39
rs55498378 8	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	18	128481	T	C	8259	-0.20	0.04	0.00	0.00	21.13

rs5117	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	19	44915533	C	T	8259	0.12	0.02	0.00	0.01	43.92
rs146171120	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	20	42572567	T	A	8259	-0.32	0.07	0.00	0.00	20.13
rs143492517	1-stearoyl-2-arachidonoyl-GPE (18:0/20:4) levels	GCST90200045	22	50225483	A	G	8259	0.41	0.09	0.00	0.00	19.78
rs6661669	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	1	62720298	C	T	8257	0.07	0.02	0.00	0.00	22.39
rs78319869	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	1	86061593	C	T	8257	-0.23	0.05	0.00	0.00	20.98
rs115372546	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	1	104189295	T	G	8257	-0.34	0.06	0.00	0.00	28.18
rs116206127	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	1	211721640	C	T	8257	0.21	0.04	0.00	0.00	21.67
rs35937064	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	2	5543873	T	A	8257	-0.15	0.03	0.00	0.00	20.55
rs6734073	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	2	64199250	C	A	8257	0.07	0.02	0.00	0.00	20.43
rs569351230	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	2	79107127	T	C	8257	0.19	0.04	0.00	0.00	20.74
rs3108975	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	2	129608160	G	A	8257	-0.13	0.03	0.00	0.00	23.14
rs114902735	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	2	154852221	T	G	8257	-0.23	0.05	0.00	0.00	20.37
rs193111029	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	3	23788721	C	T	8257	0.33	0.07	0.00	0.00	20.35
rs112035391	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	3	94758670	A	G	8257	-0.20	0.04	0.00	0.00	28.25

rs11099675	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	4	148063953	C	T	8257	-0.09	0.02	0.00	0.00	27.71
rs13135538	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	4	160798072	C	G	8257	0.08	0.02	0.00	0.00	20.14
rs9379992	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	6	10984097	A	G	8257	-0.14	0.01	0.00	0.01	84.77
rs3763236	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	6	42934770	C	T	8257	0.08	0.01	0.00	0.00	29.59
rs56045372	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	6	150173371	A	C	8257	-0.27	0.06	0.00	0.00	20.43
rs17145750	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	7	73612048	T	C	8257	-0.11	0.02	0.00	0.00	28.02
rs12530570	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	7	141337318	A	T	8257	0.08	0.02	0.00	0.00	19.61
rs13258132	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	8	3399291	A	G	8257	0.11	0.02	0.00	0.00	22.47
rs71516748	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	8	124529940	G	A	8257	0.09	0.02	0.00	0.00	26.24
rs18917828 4	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	10	121012456	G	A	8257	0.28	0.06	0.00	0.00	19.95
rs174546	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	11	61802358	T	C	8257	-0.25	0.02	0.00	0.03	255.26
rs11302708 6	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	11	95414335	T	C	8257	-0.33	0.07	0.00	0.00	22.01
rs1473423	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	12	21563164	C	T	8257	-0.08	0.02	0.00	0.00	23.86
rs7146861	1-stearoyl-2-docosahexaeno yl-gpc (18:0/22:6) levels	GCST90200046	14	20493533	G	A	8257	0.34	0.07	0.00	0.00	20.23

rs11628713	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	14	73255067	T	C	8257	0.09	0.02	0.00	0.00	22.72
rs750546	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	17	17536144	T	C	8257	-0.09	0.01	0.00	0.00	34.98
rs142800334	1-stearoyl-2-docosahexaenoyl-gpc (18:0/22:6) levels	GCST90200046	20	59253316	A	G	8257	0.31	0.07	0.00	0.00	22.69
rs11576963	Sphingomyelin (d18:1/17:0, d19:1/16:0) levels	GCST90200047	1	21977649	A	T	8252	0.11	0.03	0.00	0.00	20.13
rs11591147	Sphingomyelin (d18:1/17:0, d19:1/16:0) levels	GCST90200047	1	55039974	T	G	8252	-0.28	0.06	0.00	0.00	24.84
rs79111922	Sphingomyelin (d18:1/17:0, d19:1/16:0) levels	GCST90200047	2	27525926	G	T	8252	0.15	0.03	0.00	0.00	21.01
rs9846165	Sphingomyelin (d18:1/17:0, d19:1/16:0) levels	GCST90200047	3	68925401	C	T	8252	-0.08	0.02	0.00	0.00	23.41
rs147729712	Sphingomyelin (d18:1/17:0, d19:1/16:0) levels	GCST90200047	4	83879151	T	C	8252	0.23	0.05	0.00	0.00	19.97
rs6894542	Sphingomyelin (d18:1/17:0, d19:1/16:0) levels	GCST90200047	5	25031664	C	T	8252	-0.07	0.01	0.00	0.00	19.66
rs59949931	Sphingomyelin (d18:1/17:0, d19:1/16:0) levels	GCST90200047	5	172682669	G	A	8252	-0.11	0.02	0.00	0.00	22.02
rs1472632	Sphingomyelin (d18:1/17:0, d19:1/16:0) levels	GCST90200047	6	8262621	T	C	8252	-0.12	0.03	0.00	0.00	20.83
rs55730499	Sphingomyelin (d18:1/17:0, d19:1/16:0) levels	GCST90200047	6	160584578	T	C	8252	0.16	0.03	0.00	0.00	32.61
rs11989411	Sphingomyelin (d18:1/17:0, d19:1/16:0) levels	GCST90200047	8	8533707	A	G	8252	0.09	0.02	0.00	0.00	23.50
rs62491047	Sphingomyelin (d18:1/17:0, d19:1/16:0) levels	GCST90200047	8	26485990	G	A	8252	-0.21	0.05	0.00	0.00	21.21

rs11774283	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	8	41194339	G	T	8252	-0.07	0.02	0.00	0.00	22.06
rs7812898	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	8	112624710	C	T	8252	0.14	0.02	0.00	0.00	35.41
rs16934446	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	9	16325342	T	C	8252	0.21	0.04	0.00	0.00	21.82
rs13988941	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	9	16659254	A	G	8252	-0.30	0.07	0.00	0.00	19.53
rs7019896	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	9	33113198	T	G	8252	-0.15	0.03	0.00	0.00	22.48
rs3025304	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	9	133593649	T	G	8252	-0.28	0.06	0.00	0.00	19.61
rs14315542	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	11	101643378	C	A	8252	-0.07	0.02	0.00	0.00	20.35
rs7965230	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	12	21523105	C	T	8252	0.09	0.02	0.00	0.00	19.98
rs11048239	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	12	25781679	T	C	8252	-0.12	0.03	0.00	0.00	19.63
rs14805869	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	12	31978777	C	G	8252	-0.37	0.08	0.00	0.00	20.37
rs2701180	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	12	121014063	T	C	8252	-0.07	0.02	0.00	0.00	20.34
rs7160525	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	14	63765502	A	G	8252	0.19	0.02	0.00	0.01	88.04
rs11621642	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	14	77845707	A	G	8252	-0.07	0.02	0.00	0.00	21.60
rs34275361	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	18	76557529	A	C	8252	0.18	0.03	0.00	0.00	27.50

rs12972222	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	19	45009206	A	G	8252	0.07	0.02	0.00	0.00	24.08
rs438568	Sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0) levels	GCST90200047	20	12978039	G	A	8252	-0.09	0.02	0.00	0.00	32.39
rs2132421	1-(1-enyl- palmitoyl)-2- arachidonoyl- GPE (p- 16:0/20:4) levels	GCST90200048	1	187356089	T	C	8262	0.09	0.02	0.00	0.00	21.77
rs55670347	1-(1-enyl- palmitoyl)-2- arachidonoyl- GPE (p- 16:0/20:4) levels	GCST90200048	2	123217780	T	A	8262	0.20	0.04	0.00	0.00	25.93
rs77870582	1-(1-enyl- palmitoyl)-2- arachidonoyl- GPE (p- 16:0/20:4) levels	GCST90200048	3	2373202	C	A	8262	-0.24	0.05	0.00	0.00	21.13
rs114234688	1-(1-enyl- palmitoyl)-2- arachidonoyl- GPE (p- 16:0/20:4) levels	GCST90200048	3	14992594	A	G	8262	-0.38	0.08	0.00	0.00	20.49
rs6536059	1-(1-enyl- palmitoyl)-2- arachidonoyl- GPE (p- 16:0/20:4) levels	GCST90200048	4	155084620	G	A	8262	-0.08	0.02	0.00	0.00	20.17
rs111957955	1-(1-enyl- palmitoyl)-2- arachidonoyl- GPE (p- 16:0/20:4) levels	GCST90200048	5	76863664	G	A	8262	0.10	0.02	0.00	0.00	22.67
rs9392567	1-(1-enyl- palmitoyl)-2- arachidonoyl- GPE (p- 16:0/20:4) levels	GCST90200048	6	476126	T	C	8262	0.15	0.03	0.00	0.00	20.08
rs1467085	1-(1-enyl- palmitoyl)-2- arachidonoyl- GPE (p- 16:0/20:4) levels	GCST90200048	6	164753774	A	G	8262	0.08	0.02	0.00	0.00	27.37
rs141278887	1-(1-enyl- palmitoyl)-2- arachidonoyl- GPE (p- 16:0/20:4) levels	GCST90200048	7	119506313	T	A	8262	0.32	0.07	0.00	0.00	20.83
rs1599498	1-(1-enyl- palmitoyl)-2- arachidonoyl- GPE (p- 16:0/20:4) levels	GCST90200048	8	14464557	G	A	8262	0.12	0.03	0.00	0.00	20.60

rs148925249	1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	8	64658703	T	C	8262	0.26	0.06	0.00	0.00	21.50
rs17360104	1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	10	4539501	T	C	8262	0.29	0.06	0.00	0.00	20.98
rs111513900	1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	10	23945053	C	T	8262	0.17	0.04	0.00	0.00	21.80
rs102275	1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	11	61790331	C	T	8262	-0.09	0.02	0.00	0.00	28.12
rs35543645	1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	11	63538784	T	C	8262	0.17	0.04	0.00	0.00	19.57
rs72659972	1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	14	20682658	T	C	8262	0.38	0.08	0.00	0.00	20.03
rs76918937	1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	15	54465777	G	A	8262	0.29	0.06	0.00	0.00	23.24
rs140298870	1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	16	87916112	A	G	8262	0.24	0.05	0.00	0.00	20.38
rs75079924	1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	17	14324687	A	C	8262	0.26	0.06	0.00	0.00	20.27
rs429358	1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	19	44908684	C	T	8262	-0.10	0.02	0.00	0.00	19.62
rs3826884	1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	19	55226813	A	G	8262	-0.20	0.02	0.00	0.01	100.13
rs7499	1-(1-enyl-palmitoyl)-2-arachidonoyl-GPE (p-16:0/20:4) levels	GCST90200048	21	45512414	A	G	8262	-0.07	0.02	0.00	0.00	19.94

rs28370010	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	1	223713508	A	G	8254	0.25	0.06	0.00	0.00	20.58
rs12988381	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	2	2935686	T	C	8254	0.09	0.02	0.00	0.00	20.08
rs78668361	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	2	9033818	G	A	8254	-0.32	0.07	0.00	0.00	22.47
rs9309188	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	2	50689520	G	C	8254	-0.08	0.02	0.00	0.00	19.81
rs15064346 4	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	2	127043524	G	A	8254	-0.19	0.04	0.00	0.00	23.21
rs77325406	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	3	184787418	T	C	8254	0.13	0.03	0.00	0.00	21.87
rs16839821	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	4	7207858	C	A	8254	-0.10	0.02	0.00	0.00	22.00
rs17512296	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	4	40254625	T	C	8254	0.08	0.02	0.00	0.00	20.17
rs14833039 4	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	4	170686333	T	C	8254	-0.22	0.05	0.00	0.00	19.74
rs340079	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	5	78696461	C	A	8254	0.07	0.02	0.00	0.00	19.79
rs14951084 8	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	6	2108848	A	G	8254	-0.33	0.07	0.00	0.00	23.13
rs6933365	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	6	5974530	G	A	8254	-0.42	0.09	0.00	0.00	22.34
rs11762128 2	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	8	4346793	C	T	8254	0.21	0.04	0.00	0.00	26.59
rs2448907	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	8	94313539	C	A	8254	-0.19	0.04	0.00	0.00	21.88

rs71483327	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	10	80917786	T	C	8254	0.33	0.07	0.00	0.00	20.12
rs34847539	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	11	68980534	C	T	8254	0.08	0.02	0.00	0.00	26.08
rs1267212	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	12	27987781	G	T	8254	0.11	0.02	0.00	0.00	20.42
rs11112344	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	12	105050136	T	C	8254	-0.10	0.02	0.00	0.00	19.64
rs9519977	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	13	106183039	A	G	8254	-0.07	0.02	0.00	0.00	20.51
rs10129238	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	14	65869244	T	C	8254	-0.07	0.02	0.00	0.00	19.64
rs4537986	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	15	26498413	C	T	8254	0.11	0.03	0.00	0.00	19.66
rs12437952	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	15	58757147	A	C	8254	0.09	0.02	0.00	0.00	19.54
rs74868722	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	15	68781969	T	C	8254	0.25	0.06	0.00	0.00	20.80
rs62031328	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	16	26853172	T	C	8254	0.07	0.02	0.00	0.00	20.44
rs62066054	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	17	9878711	A	G	8254	-0.07	0.02	0.00	0.00	19.51
rs72908201	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	17	77837306	T	C	8254	-0.12	0.03	0.00	0.00	20.08
rs62094355	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	18	75826312	T	C	8254	0.11	0.02	0.00	0.00	20.96
rs10423572	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	19	6811556	C	T	8254	0.17	0.04	0.00	0.00	23.23

rs13969003 1	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	19	22678826	T	C	8254	-0.30	0.06	0.00	0.00	21.80
rs364585	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	20	12982070	G	A	8254	-0.18	0.02	0.00	0.02	146.54
rs5755708	Myristoyl dihydrosphing omyelin (d18:0/14:0) levels	GCST90200049	22	35367623	C	T	8254	-0.07	0.01	0.00	0.00	20.10
rs2886116	5- hydroxyindole sulfate levels	GCST90200050	1	203091480	G	T	6163	-0.09	0.02	0.00	0.00	19.86
rs55787230	5- hydroxyindole sulfate levels	GCST90200050	2	7395234	T	C	6163	0.20	0.04	0.00	0.00	26.03
rs10179094	5- hydroxyindole sulfate levels	GCST90200050	2	233689179	A	T	6163	-0.11	0.02	0.00	0.01	38.62
rs9847968	5- hydroxyindole sulfate levels	GCST90200050	3	3279152	C	T	6163	-0.13	0.03	0.00	0.00	23.97
rs62318771	5- hydroxyindole sulfate levels	GCST90200050	4	152727851	G	A	6163	-0.20	0.04	0.00	0.00	19.63
rs35207093	5- hydroxyindole sulfate levels	GCST90200050	5	135785764	C	G	6163	-0.10	0.02	0.00	0.00	20.93
rs12672832	5- hydroxyindole sulfate levels	GCST90200050	7	54837818	T	C	6163	0.11	0.02	0.00	0.00	21.17
rs79565340	5- hydroxyindole sulfate levels	GCST90200050	8	74811573	A	T	6163	0.25	0.05	0.00	0.00	21.23
rs324499	5- hydroxyindole sulfate levels	GCST90200050	9	9061283	A	T	6163	-0.11	0.02	0.00	0.00	20.39
rs10993510	5- hydroxyindole sulfate levels	GCST90200050	9	89970510	G	A	6163	0.10	0.02	0.00	0.00	20.21
rs11264949 1	5- hydroxyindole sulfate levels	GCST90200050	10	6369029	T	C	6163	0.35	0.08	0.00	0.00	19.83
rs34447995	5- hydroxyindole sulfate levels	GCST90200050	10	86972141	G	A	6163	0.18	0.04	0.00	0.00	20.53
rs13986974 9	5- hydroxyindole sulfate levels	GCST90200050	11	134499133	T	C	6163	-0.59	0.13	0.00	0.00	22.36
rs73105356	5- hydroxyindole sulfate levels	GCST90200050	12	47425112	G	A	6163	0.24	0.05	0.00	0.00	19.80
rs3803476	5- hydroxyindole sulfate levels	GCST90200050	15	98713341	G	A	6163	-0.09	0.02	0.00	0.00	22.52
rs11187592 2	5- hydroxyindole sulfate levels	GCST90200050	16	28551158	T	C	6163	0.36	0.06	0.00	0.00	30.75
rs34413922	5- hydroxyindole sulfate levels	GCST90200050	16	28560684	T	C	6163	0.29	0.05	0.00	0.01	36.72
rs56113850	5- hydroxyindole sulfate levels	GCST90200050	19	40847202	C	T	6163	-0.09	0.02	0.00	0.00	24.06
rs14263296 4	5- hydroxyindole sulfate levels	GCST90200050	20	45628337	G	C	6163	-0.52	0.12	0.00	0.00	20.01

rs12092541	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	1	62452242	A	G	8230	-0.10	0.02	0.00	0.00	23.49
rs10889518	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	1	65078468	T	A	8230	-0.13	0.03	0.00	0.00	23.03
rs2125126	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	1	91565935	A	G	8230	0.11	0.02	0.00	0.00	27.99
rs72760754	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	1	239921045	C	T	8230	-0.10	0.02	0.00	0.00	20.65
rs62167371	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	2	150305214	T	C	8230	0.11	0.02	0.00	0.00	21.39
rs4858021	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	3	21810647	T	C	8230	0.09	0.02	0.00	0.00	20.55
rs7710861	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	5	106587430	G	T	8230	-0.07	0.02	0.00	0.00	19.52
rs883517	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	5	160477722	C	T	8230	-0.12	0.02	0.00	0.00	27.76
rs11134533	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	5	168804644	G	A	8230	0.08	0.02	0.00	0.00	21.03
rs112024728	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	6	41746030	T	C	8230	-0.25	0.06	0.00	0.00	20.05
rs4711775	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	6	44177444	T	C	8230	-0.09	0.02	0.00	0.00	20.32
rs2817950	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	6	120867489	A	G	8230	0.27	0.06	0.00	0.00	21.80
rs12700519	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	7	24270549	C	G	8230	0.10	0.02	0.00	0.00	20.84
rs854562	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3	GCST90200051	7	95318657	T	C	8230	-0.08	0.02	0.00	0.00	23.72

rs18169873 9	1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	7	130843439	A	G	8230	0.36	0.08	0.00	0.00	20.26
rs2572899	dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	8	142704131	G	A	8230	-0.07	0.02	0.00	0.00	21.96
rs75616347	dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	10	10287610	T	C	8230	0.21	0.05	0.00	0.00	20.01
rs11770122 3	dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	10	14013293	T	C	8230	-0.41	0.09	0.00	0.00	19.94
rs14623758 9	dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	10	92364565	A	T	8230	0.42	0.09	0.00	0.00	22.03
rs174546	dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	11	61802358	T	C	8230	0.33	0.02	0.00	0.05	453.67
rs15022806 2	dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	11	62014741	A	G	8230	-0.17	0.04	0.00	0.00	19.54
rs2417233	dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	12	12772145	G	A	8230	-0.09	0.02	0.00	0.00	21.26
rs1741	dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	16	15036494	C	G	8230	-0.17	0.02	0.00	0.01	102.81
rs72855480	dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	17	79734237	G	C	8230	-0.12	0.03	0.00	0.00	19.88
rs57186849	dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	18	54122539	T	C	8230	-0.14	0.03	0.00	0.00	21.93
rs14611000 3	dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	19	3146703	G	C	8230	-0.33	0.07	0.00	0.00	20.80
rs73092354	dihomo-linolenoyl-GPC (16:0/20:3n3 1-palmitoyl-2-	GCST90200051	20	12767083	A	T	8230	0.30	0.07	0.00	0.00	20.23
rs77881374	dihomo-linolenoyl-GPC (16:0/20:3n3	GCST90200051	20	17531715	C	T	8230	-0.20	0.04	0.00	0.00	21.06

rs12130714	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	1	192809029	T	A	8251	-0.10	0.02	0.00	0.00	22.19
rs1126242	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	1	196029562	T	C	8251	0.12	0.03	0.00	0.00	23.08
rs77772961	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	1	248892962	G	A	8251	0.27	0.06	0.00	0.00	20.40
rs11684134	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	2	27335385	G	A	8251	0.08	0.02	0.00	0.00	23.10
rs112134288	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	2	85284972	A	G	8251	0.23	0.05	0.00	0.00	22.32
rs112946311	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	2	190219719	A	G	8251	-0.33	0.07	0.00	0.00	23.22
rs387779	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	3	13069080	C	T	8251	-0.10	0.02	0.00	0.00	21.43
rs12638225	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	3	111995219	C	T	8251	-0.08	0.02	0.00	0.00	20.78
rs116546840	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	4	57302333	C	A	8251	-0.10	0.02	0.00	0.00	21.84
rs72655034	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	4	80043449	C	T	8251	-0.23	0.05	0.00	0.00	21.27
rs6536059	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	4	155084620	G	A	8251	-0.08	0.02	0.00	0.00	19.98
rs75554919	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	4	185421579	T	C	8251	-0.39	0.08	0.00	0.00	22.08

rs1862568	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	5	62671138	G	C	8251	-0.07	0.02	0.00	0.00	19.93
rs12515709	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	5	118422804	T	G	8251	0.29	0.06	0.00	0.00	19.89
rs116565884	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	5	159866789	A	G	8251	-0.35	0.08	0.00	0.00	20.35
rs1853151	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	6	20385441	T	G	8251	0.08	0.02	0.00	0.00	23.84
rs76747111	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	6	44534640	C	G	8251	-0.19	0.04	0.00	0.00	21.09
rs187260235	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	8	90752789	C	T	8251	-0.31	0.06	0.00	0.00	25.28
rs4368984	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	8	122524776	T	C	8251	0.07	0.02	0.00	0.00	21.00
rs3847305	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	9	104894972	C	G	8251	-0.10	0.02	0.00	0.00	23.22
rs12378769	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	9	110934393	T	G	8251	-0.07	0.02	0.00	0.00	19.76
rs77896676	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	11	35099832	A	G	8251	0.15	0.03	0.00	0.00	21.17
rs102275	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	11	61790331	C	T	8251	-0.48	0.02	0.00	0.11	974.20
rs1801390	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	11	61959966	T	C	8251	-0.21	0.05	0.00	0.00	20.17

rs117382184	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	12	25689025	A	G	8251	-0.16	0.03	0.00	0.00	21.80
rs71420186	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	14	50494200	A	G	8251	0.14	0.03	0.00	0.00	19.84
rs72719193	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	14	67502391	A	G	8251	-0.23	0.02	0.00	0.03	224.73
rs76027443	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	14	67581256	A	G	8251	-0.11	0.02	0.00	0.00	28.58
rs56671758	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	15	38238902	C	T	8251	-0.40	0.09	0.00	0.00	20.84
rs880151	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	15	61816034	C	G	8251	-0.07	0.02	0.00	0.00	20.22
rs12928099	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	16	15056648	A	C	8251	0.11	0.02	0.00	0.00	40.08
rs72786786	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	16	56951602	A	G	8251	0.09	0.02	0.00	0.00	26.30
rs140298870	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	16	87916112	A	G	8251	0.23	0.05	0.00	0.00	19.55
rs75006121	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	17	27382276	T	C	8251	0.14	0.03	0.00	0.00	19.59
rs1529728	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	19	11053221	C	T	8251	-0.07	0.02	0.00	0.00	20.57
rs1065853	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels	GCST90200052	19	44909976	T	G	8251	0.13	0.03	0.00	0.00	21.58

rs3827410	1-(1-enyl-palmitoyl)-2-arachidonoyl-gpc (p-16:0/20:4) levels Sphingomyelin (d18:1/21:0,	GCST90200052	22	46483790	A	C	8251	0.08	0.02	0.00	0.00	22.66
rs62163128	d17:1/22:0, d16:1/23:0) levels Sphingomyelin (d18:1/21:0,	GCST90200053	2	85731522	C	T	8242	-0.12	0.03	0.00	0.00	20.55
rs34946590	d17:1/22:0, d16:1/23:0) levels Sphingomyelin (d18:1/21:0,	GCST90200053	5	36243684	C	T	8242	0.19	0.04	0.00	0.00	22.49
rs12186602	d17:1/22:0, d16:1/23:0) levels Sphingomyelin (d18:1/21:0,	GCST90200053	5	160515514	A	T	8242	-0.09	0.02	0.00	0.00	21.85
rs79911721	d17:1/22:0, d16:1/23:0) levels Sphingomyelin (d18:1/21:0,	GCST90200053	6	103760101	A	G	8242	-0.15	0.03	0.00	0.00	20.28
rs6932353	d17:1/22:0, d16:1/23:0) levels Sphingomyelin (d18:1/21:0,	GCST90200053	6	141397675	T	C	8242	0.08	0.02	0.00	0.00	21.20
rs145676078	d17:1/22:0, d16:1/23:0) levels Sphingomyelin (d18:1/21:0,	GCST90200053	6	159002412	G	A	8242	-0.33	0.07	0.00	0.00	21.72
rs74617384	d17:1/22:0, d16:1/23:0) levels Sphingomyelin (d18:1/21:0,	GCST90200053	6	160576086	T	A	8242	0.13	0.03	0.00	0.00	22.75
rs3923373	d17:1/22:0, d16:1/23:0) levels Sphingomyelin (d18:1/21:0,	GCST90200053	7	156336	A	T	8242	0.07	0.02	0.00	0.00	20.51
rs16934446	d17:1/22:0, d16:1/23:0) levels Sphingomyelin (d18:1/21:0,	GCST90200053	9	16325342	T	C	8242	0.23	0.04	0.00	0.00	28.70
rs3025294	d17:1/22:0, d16:1/23:0) levels Sphingomyelin (d18:1/21:0,	GCST90200053	9	133592380	C	T	8242	-0.07	0.01	0.00	0.00	20.44
rs75957079	d17:1/22:0, d16:1/23:0) levels Sphingomyelin (d18:1/21:0,	GCST90200053	11	1870931	A	G	8242	0.20	0.04	0.00	0.00	21.27
rs10766649	d17:1/22:0, d16:1/23:0) levels Sphingomyelin (d18:1/21:0,	GCST90200053	11	20296847	G	A	8242	0.07	0.02	0.00	0.00	20.55
rs117224623	d17:1/22:0, d16:1/23:0) levels	GCST90200053	13	43530616	G	C	8242	-0.34	0.07	0.00	0.00	22.07

rs7160525	Sphingomyelin (d18:1/21:0, d17:1/22:0, d16:1/23:0) levels	GCST90200053	14	63765502	A	G	8242	0.31	0.02	0.00	0.03	266.88
rs2684631	Sphingomyelin (d18:1/21:0, d17:1/22:0, d16:1/23:0) levels	GCST90200053	17	45433284	G	A	8242	0.08	0.02	0.00	0.00	23.82
rs56057188	Sphingomyelin (d18:1/21:0, d17:1/22:0, d16:1/23:0) levels	GCST90200053	18	72405960	A	G	8242	0.09	0.02	0.00	0.00	20.09
rs14489453 6	Sphingomyelin (d18:1/21:0, d17:1/22:0, d16:1/23:0) levels	GCST90200053	19	32636723	A	C	8242	0.20	0.04	0.00	0.00	24.60
rs12972222	Sphingomyelin (d18:1/21:0, d17:1/22:0, d16:1/23:0) levels	GCST90200053	19	45009206	A	G	8242	0.07	0.01	0.00	0.00	23.06
rs438568	Sphingomyelin (d18:1/21:0, d17:1/22:0, d16:1/23:0) levels	GCST90200053	20	12978039	G	A	8242	-0.16	0.01	0.00	0.01	112.52
rs55661402	1-palmitoyl-2- arachidonoyl- GPE (16:0/20:4) levels	GCST90200054	1	93282661	G	C	8257	0.29	0.06	0.00	0.00	21.35
rs4950876	1-palmitoyl-2- arachidonoyl- GPE (16:0/20:4) levels	GCST90200054	1	203052679	G	A	8257	0.07	0.02	0.00	0.00	21.34
rs13382655	1-palmitoyl-2- arachidonoyl- GPE (16:0/20:4) levels	GCST90200054	2	43264911	A	G	8257	0.22	0.05	0.00	0.00	21.22
rs11547876 6	1-palmitoyl-2- arachidonoyl- GPE (16:0/20:4) levels	GCST90200054	2	108313720	A	G	8257	0.15	0.03	0.00	0.00	20.10
rs281584	1-palmitoyl-2- arachidonoyl- GPE (16:0/20:4) levels	GCST90200054	2	132951101	A	G	8257	-0.09	0.02	0.00	0.00	25.07
rs13081352	1-palmitoyl-2- arachidonoyl- GPE (16:0/20:4) levels	GCST90200054	3	136222574	A	C	8257	-0.13	0.02	0.00	0.00	30.06
rs13107084	1-palmitoyl-2- arachidonoyl- GPE (16:0/20:4) levels	GCST90200054	4	25706370	G	A	8257	0.08	0.02	0.00	0.00	21.59
rs15099889 7	1-palmitoyl-2- arachidonoyl- GPE (16:0/20:4) levels	GCST90200054	4	86113408	A	T	8257	0.25	0.05	0.00	0.00	24.25

rs140699034	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4) levels	GCST90200054	5	7447198	G	A	8257	-0.50	0.11	0.00	0.00	19.83
rs99780	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4) levels	GCST90200054	11	61829161	T	C	8257	-0.14	0.02	0.00	0.01	75.88
rs73502335	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4) levels	GCST90200054	11	64332929	A	G	8257	0.14	0.03	0.00	0.00	19.55
rs7930786	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4) levels	GCST90200054	11	116754011	G	C	8257	-0.19	0.03	0.00	0.00	41.19
rs10484239	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4) levels	GCST90200054	14	43858346	A	C	8257	-0.10	0.02	0.00	0.00	19.55
rs12904367	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4) levels	GCST90200054	15	58255679	A	G	8257	0.14	0.02	0.00	0.00	37.19
rs1532085	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4) levels	GCST90200054	15	58391167	G	A	8257	-0.39	0.02	0.00	0.07	659.98
rs2070895	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4) levels	GCST90200054	15	58431740	A	G	8257	0.40	0.02	0.00	0.06	481.41
rs16950739	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4) levels	GCST90200054	18	49612139	T	C	8257	-0.16	0.03	0.00	0.00	20.77
rs483082	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4) levels	GCST90200054	19	44912921	T	G	8257	0.11	0.02	0.00	0.00	35.24
rs146171120	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4) levels	GCST90200054	20	42572567	T	A	8257	-0.33	0.07	0.00	0.00	21.56
rs11591147	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	1	55039974	T	G	8266	-0.26	0.06	0.00	0.00	19.83
rs75426550	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	1	220113642	T	G	8266	0.15	0.03	0.00	0.00	20.03
rs1260327	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	2	27489026	G	A	8266	0.07	0.02	0.00	0.00	20.68

rs10203174	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	2	43462891	T	C	8266	0.11	0.02	0.00	0.00	19.71
rs17026666	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	2	85847265	C	A	8266	-0.14	0.03	0.00	0.00	19.63
rs2811494	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	3	128638860	G	A	8266	-0.12	0.03	0.00	0.00	20.62
rs7656337	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	4	27256905	T	C	8266	-0.09	0.02	0.00	0.00	24.64
rs59779699	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	5	103979388	C	G	8266	0.09	0.02	0.00	0.00	19.56
rs9402691	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	6	135166364	C	G	8266	-0.10	0.02	0.00	0.00	24.68
rs72997862	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	6	144264841	C	A	8266	0.18	0.04	0.00	0.00	21.34
rs11775560	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	8	60747604	G	A	8266	0.11	0.02	0.00	0.00	31.08
rs4738038	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	8	69855641	G	A	8266	0.10	0.02	0.00	0.01	42.85
rs9656971	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	8	128669685	G	A	8266	-0.07	0.02	0.00	0.00	21.39
rs117617764	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	9	111804228	A	G	8266	-0.35	0.06	0.00	0.00	29.87
rs12413417	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	10	8332850	G	A	8266	0.08	0.02	0.00	0.00	22.21
rs10492646	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	13	106344462	T	C	8266	-0.08	0.02	0.00	0.00	20.88
rs141985371	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	15	62648840	T	C	8266	-0.42	0.09	0.00	0.00	20.14

rs76391629	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	16	11175542	G	T	8266	0.21	0.05	0.00	0.00	22.19
rs12941811	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	17	40003082	C	T	8266	-0.08	0.02	0.00	0.00	23.20
rs117078706	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	17	55471265	C	T	8266	-0.36	0.08	0.00	0.00	22.40
rs116902019	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	17	68914366	A	C	8266	-0.40	0.09	0.00	0.00	20.30
rs4147931	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	19	1064454	C	G	8266	0.17	0.02	0.00	0.01	110.18
rs12151289	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	19	33260946	C	G	8266	0.24	0.05	0.00	0.00	27.27
rs28795074	Lactosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200055	19	44933400	A	G	8266	-0.14	0.03	0.00	0.00	19.94
rs12740374	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	1	109274968	T	G	8274	-0.10	0.02	0.00	0.00	27.01
rs885256	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	1	163798878	C	A	8274	-0.10	0.02	0.00	0.00	29.25
rs79038154	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	1	218537473	T	G	8274	-0.23	0.05	0.00	0.00	23.07
rs28785609	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	1	248462178	C	G	8274	-0.11	0.02	0.00	0.00	21.57
rs2722588	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	2	5805025	T	G	8274	-0.07	0.02	0.00	0.00	20.60
rs6727205	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	2	111719187	C	A	8274	0.16	0.04	0.00	0.00	20.52
rs184304669	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	2	154369103	G	A	8274	-0.36	0.08	0.00	0.00	21.96
rs182573211	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	2	211817531	T	A	8274	-0.21	0.05	0.00	0.00	20.06
rs146985051	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	2	216068221	G	A	8274	-0.22	0.05	0.00	0.00	19.56

rs62274971	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	3	152872903	G	C	8274	-0.15	0.03	0.00	0.00	21.16
rs7665350	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	4	102193865	A	G	8274	-0.10	0.02	0.00	0.00	21.87
rs14821354 8	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	5	16543632	T	C	8274	0.19	0.04	0.00	0.00	25.60
rs4869230	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	5	95065232	C	T	8274	0.15	0.03	0.00	0.00	22.87
rs6890722	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	5	115930377	T	C	8274	-0.08	0.02	0.00	0.00	22.17
rs72643442	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	5	160205036	G	A	8274	0.14	0.03	0.00	0.00	20.27
rs1229670	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	7	26407401	G	A	8274	-0.22	0.04	0.00	0.00	25.10
rs62512740	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	8	33159549	G	A	8274	-0.10	0.02	0.00	0.00	21.08
rs2448907	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	8	94313539	C	A	8274	-0.20	0.04	0.00	0.00	24.17
rs2954038	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	8	125495147	A	C	8274	-0.08	0.02	0.00	0.00	23.35
rs77849541	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	9	19809262	T	C	8274	-0.57	0.12	0.00	0.00	21.50
rs14222083 2	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	9	31557656	C	G	8274	0.28	0.06	0.00	0.00	22.93
rs75070582	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	10	15111656	A	G	8274	-0.10	0.02	0.00	0.00	20.21
rs17113721	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	10	88865511	T	C	8274	-0.13	0.03	0.00	0.00	22.09
rs18486016 4	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	10	103867854	T	C	8274	0.21	0.05	0.00	0.00	19.88
rs174604	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	11	61858798	G	C	8274	-0.07	0.02	0.00	0.00	20.69
rs60479057	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	11	133427084	A	G	8274	-0.09	0.02	0.00	0.00	20.41
rs1169288	levels Sphingomyelin (d18:0/18:0, d19:0/17:0)	GCST90200056	12	120978847	C	A	8274	0.09	0.02	0.00	0.00	28.28

rs8011851	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	14	20412896	C	G	8274	-0.08	0.02	0.00	0.00	20.26
rs77454872	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	17	47432130	A	G	8274	0.07	0.02	0.00	0.00	19.62
rs8072916	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	17	80249735	A	G	8274	-0.26	0.05	0.00	0.00	21.73
rs1139403	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	17	81512766	A	G	8274	0.18	0.04	0.00	0.00	20.08
rs680379	Sphingomyelin (d18:0/18:0, d19:0/17:0) levels	GCST90200056	20	12988752	G	A	8274	-0.13	0.02	0.00	0.01	69.86
rs11573549 4	1-(1-enyl- palmitoyl)-2- oleoyl-gpc (p- 16:0/18:1) levels	GCST90200057	1	245129846	A	G	8222	-0.26	0.06	0.00	0.00	21.40
rs1260338	1-(1-enyl- palmitoyl)-2- oleoyl-gpc (p- 16:0/18:1) levels	GCST90200057	2	27402794	G	A	8222	0.09	0.02	0.00	0.00	38.32
rs28730854	1-(1-enyl- palmitoyl)-2- oleoyl-gpc (p- 16:0/18:1) levels	GCST90200057	2	73452829	T	C	8222	0.18	0.04	0.00	0.00	21.49
rs18334213 1	1-(1-enyl- palmitoyl)-2- oleoyl-gpc (p- 16:0/18:1) levels	GCST90200057	2	78545480	A	G	8222	-0.46	0.10	0.00	0.00	22.26
rs72860096	1-(1-enyl- palmitoyl)-2- oleoyl-gpc (p- 16:0/18:1) levels	GCST90200057	2	126013901	A	T	8222	-0.33	0.07	0.00	0.00	20.05
rs72855738	1-(1-enyl- palmitoyl)-2- oleoyl-gpc (p- 16:0/18:1) levels	GCST90200057	2	150191400	T	C	8222	0.08	0.02	0.00	0.00	22.43
rs12473718	1-(1-enyl- palmitoyl)-2- oleoyl-gpc (p- 16:0/18:1) levels	GCST90200057	2	234223859	A	G	8222	0.07	0.01	0.00	0.00	20.17
rs4547795	1-(1-enyl- palmitoyl)-2- oleoyl-gpc (p- 16:0/18:1) levels	GCST90200057	4	9995436	T	C	8222	-0.08	0.02	0.00	0.00	20.96
rs18442908 5	1-(1-enyl- palmitoyl)-2- oleoyl-gpc (p- 16:0/18:1) levels	GCST90200057	4	182702957	T	C	8222	0.32	0.07	0.00	0.00	20.94
rs35702759	1-(1-enyl- palmitoyl)-2- oleoyl-gpc (p- 16:0/18:1) levels	GCST90200057	5	119613323	T	A	8222	0.07	0.02	0.00	0.00	21.66

rs13179609	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	5	125172154	A	C	8222	-0.07	0.02	0.00	0.00	20.57
rs4334882	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	5	136112004	C	T	8222	-0.14	0.03	0.00	0.00	20.04
rs114982089	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	6	41357003	T	C	8222	-0.37	0.07	0.00	0.00	25.26
rs10275265	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	7	52510325	A	T	8222	-0.08	0.02	0.00	0.00	24.92
rs142728037	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	8	3218666	C	G	8222	0.13	0.03	0.00	0.00	19.86
rs116965082	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	8	122592821	C	T	8222	0.30	0.07	0.00	0.00	19.61
rs116973881	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	9	79698004	T	A	8222	-0.32	0.07	0.00	0.00	21.45
rs102275	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	11	61790331	C	T	8222	-0.12	0.02	0.00	0.01	57.75
rs1077989	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	14	67509105	C	A	8222	-0.10	0.02	0.00	0.01	41.84
rs67996394	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	14	99343641	T	A	8222	-0.19	0.04	0.00	0.00	20.98
rs174418	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	15	58395404	C	T	8222	-0.08	0.02	0.00	0.00	28.53
rs1077834	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	15	58431280	C	T	8222	0.08	0.02	0.00	0.00	21.02
rs3848190	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	15	80311716	T	A	8222	0.08	0.02	0.00	0.00	20.92
rs4843128	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	15	85894538	C	G	8222	-0.19	0.04	0.00	0.00	21.43

rs138733313	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	15	92941697	T	G	8222	-0.39	0.08	0.00	0.00	21.81
rs11508026	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	16	56965416	T	C	8222	0.11	0.02	0.00	0.01	52.05
rs12326614	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	18	8794515	A	G	8222	0.07	0.02	0.00	0.00	19.70
rs7238440	1-(1-enyl-palmitoyl)-2-oleoyl-gpc (p-16:0/18:1) levels	GCST90200057	18	25530765	T	C	8222	0.08	0.02	0.00	0.00	23.44
rs114647087	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	1	16195226	T	C	8254	-0.23	0.05	0.00	0.00	20.23
rs699774	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	1	119352598	T	C	8254	-0.07	0.02	0.00	0.00	21.33
rs77772961	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	1	248892962	G	A	8254	0.27	0.06	0.00	0.00	20.67
rs55927775	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	2	176335673	A	G	8254	0.30	0.06	0.00	0.00	22.23
rs4672993	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	2	221060913	A	G	8254	-0.09	0.02	0.00	0.00	21.08
rs57008796	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	3	2372369	C	A	8254	-0.14	0.03	0.00	0.00	19.97
rs77804880	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	3	66593935	A	G	8254	-0.25	0.06	0.00	0.00	19.75
rs111247721	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	3	82508537	A	C	8254	-0.15	0.03	0.00	0.00	20.46
rs112955950	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	4	124471801	T	C	8254	-0.34	0.08	0.00	0.00	20.67

rs6536059	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	4	155084620	G	A	8254	-0.08	0.02	0.00	0.00	20.78
rs72735701	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	5	4746774	A	G	8254	0.23	0.05	0.00	0.00	21.91
rs31703	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	5	155303903	A	T	8254	0.12	0.03	0.00	0.00	22.86
rs78727203	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	6	166310400	T	C	8254	0.27	0.06	0.00	0.00	22.25
rs11204144	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	8	20972449	T	C	8254	0.20	0.04	0.00	0.00	21.19
rs1322131	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	9	14017186	C	A	8254	0.08	0.02	0.00	0.00	23.55
rs102275	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	11	61790331	C	T	8254	-0.29	0.02	0.00	0.04	332.84
rs183212507	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	13	70458187	T	A	8254	0.22	0.05	0.00	0.00	20.23
rs3811238	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	14	22401277	G	A	8254	-0.08	0.02	0.00	0.00	22.26
rs2018131	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	14	70595715	C	T	8254	0.11	0.03	0.00	0.00	19.70
rs140298870	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	16	87916112	A	G	8254	0.23	0.05	0.00	0.00	19.97
rs11651604	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	17	71440368	C	G	8254	0.09	0.02	0.00	0.00	19.61

rs7412	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	19	44908822	T	C	8254	0.15	0.03	0.00	0.00	30.24
rs3826886	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	19	55229837	A	G	8254	-0.12	0.02	0.00	0.00	30.08
rs118003243	1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	GCST90200058	21	42374946	C	T	8254	-0.14	0.03	0.00	0.00	21.05
rs79004164	Behenoyl dihydrosphingomyelin (d18:0/22:0) levels	GCST90200059	1	62880437	C	G	8275	-0.19	0.04	0.00	0.00	22.60
rs885256	Behenoyl dihydrosphingomyelin (d18:0/22:0) levels	GCST90200059	1	163798878	C	A	8275	-0.10	0.02	0.00	0.00	30.97
rs10799480	Behenoyl dihydrosphingomyelin (d18:0/22:0) levels	GCST90200059	1	224122555	G	A	8275	0.12	0.02	0.00	0.01	62.84
rs114292261	Behenoyl dihydrosphingomyelin (d18:0/22:0) levels	GCST90200059	2	241052975	A	G	8275	-0.21	0.05	0.00	0.00	19.69
rs62274967	Behenoyl dihydrosphingomyelin (d18:0/22:0) levels	GCST90200059	3	152810400	G	A	8275	-0.16	0.03	0.00	0.00	22.85
rs78685292	Behenoyl dihydrosphingomyelin (d18:0/22:0) levels	GCST90200059	4	76621311	A	G	8275	0.23	0.04	0.00	0.00	25.42
rs35491981	Behenoyl dihydrosphingomyelin (d18:0/22:0) levels	GCST90200059	4	99148183	C	T	8275	-0.08	0.02	0.00	0.00	21.92
rs114581254	Behenoyl dihydrosphingomyelin (d18:0/22:0) levels	GCST90200059	4	174454297	C	T	8275	0.40	0.08	0.00	0.00	25.68
rs7692885	Behenoyl dihydrosphingomyelin (d18:0/22:0) levels	GCST90200059	4	179956305	C	G	8275	0.07	0.01	0.00	0.00	20.62
rs4590086	Behenoyl dihydrosphingomyelin (d18:0/22:0) levels	GCST90200059	4	181657527	A	G	8275	-0.07	0.02	0.00	0.00	20.01
rs2187200	Behenoyl dihydrosphingomyelin (d18:0/22:0) levels	GCST90200059	6	162035178	G	T	8275	-0.07	0.02	0.00	0.00	19.98

rs79150190	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	7	35349013	C	G	8275	0.28	0.06	0.00	0.00	20.99
rs4948056	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	7	55664346	A	G	8275	0.07	0.02	0.00	0.00	20.08
rs15061464 5	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	7	105671836	T	G	8275	0.19	0.04	0.00	0.00	21.38
rs6964674	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	7	120613918	G	A	8275	-0.14	0.03	0.00	0.00	19.67
rs2450564	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	8	94312104	G	A	8275	-0.19	0.04	0.00	0.00	19.70
rs7821683	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	8	112375227	G	C	8275	-0.09	0.02	0.00	0.00	21.84
rs2954021	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	8	125469835	G	A	8275	-0.12	0.02	0.00	0.01	61.03
rs1800978	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	9	104903697	G	C	8275	-0.12	0.02	0.00	0.00	26.16
rs11264585 2	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	10	14014054	T	C	8275	0.28	0.06	0.00	0.00	19.65
rs18486016 4	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	10	103867854	T	C	8275	0.23	0.05	0.00	0.00	22.55
rs56238206	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	11	13897042	A	G	8275	0.09	0.02	0.00	0.00	19.90
rs12146558	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	11	14216375	G	T	8275	-0.23	0.05	0.00	0.00	20.69
rs174604	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	11	61858798	G	C	8275	-0.07	0.02	0.00	0.00	21.10
rs20167176 5	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	12	12077303	G	A	8275	-0.14	0.03	0.00	0.00	22.43

rs17482272	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	12	24028846	C	A	8275	0.17	0.04	0.00	0.00	19.66
rs111568909	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	12	59536790	C	T	8275	-0.39	0.08	0.00	0.00	21.92
rs2244608	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	12	120979185	G	A	8275	0.12	0.02	0.00	0.01	53.90
rs2149134	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	13	26744926	C	G	8275	0.08	0.02	0.00	0.00	20.87
rs17101394	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	14	63765668	A	G	8275	-0.10	0.02	0.00	0.00	23.49
rs16970598	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	15	33400645	T	C	8275	-0.27	0.05	0.00	0.00	24.90
rs79391862	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	15	53447229	C	A	8275	-0.30	0.07	0.00	0.00	21.07
rs11870485	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	17	2802607	A	C	8275	-0.10	0.02	0.00	0.00	19.91
rs34460487	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	17	4781933	A	G	8275	0.07	0.02	0.00	0.00	20.71
rs8072916	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	17	80249735	A	G	8275	-0.26	0.05	0.00	0.00	22.82
rs1139403	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	17	81512766	A	G	8275	0.20	0.04	0.00	0.00	26.01
rs372975222	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	18	73377240	A	G	8275	0.09	0.02	0.00	0.00	19.54
rs7256111	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	19	18283951	G	A	8275	-0.07	0.02	0.00	0.00	21.38
rs3212844	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	19	50818458	G	A	8275	0.18	0.04	0.00	0.00	19.90

rs680379	Behenoyl dihydrosphing omyelin (d18:0/22:0) levels	GCST90200059	20	12988752	G	A	8275	-0.08	0.02	0.00	0.00	24.73
rs1845825	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	1	69968038	G	A	8260	0.07	0.02	0.00	0.00	21.01
rs10874876	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	1	94681365	G	A	8260	-0.11	0.02	0.00	0.00	19.85
rs12077013	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	1	213657097	T	C	8260	-0.28	0.06	0.00	0.00	20.06
rs13968169 2	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	1	229455088	C	G	8260	-0.29	0.07	0.00	0.00	19.51
rs72647713	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	1	230280364	T	C	8260	-0.29	0.06	0.00	0.00	21.09
rs1260326	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	2	27508073	C	T	8260	0.09	0.02	0.00	0.00	31.26
rs14039165 5	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	2	192754790	A	C	8260	-0.21	0.05	0.00	0.00	19.60
rs10185688	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	2	238159318	A	T	8260	-0.07	0.02	0.00	0.00	19.53
rs35541133	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	4	134506054	A	C	8260	0.07	0.02	0.00	0.00	19.58
rs35702759	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	5	119613323	T	A	8260	0.08	0.02	0.00	0.00	25.20
rs236389	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	6	36812222	A	T	8260	0.07	0.02	0.00	0.00	21.43
rs12211973	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	6	169327046	C	T	8260	0.07	0.02	0.00	0.00	21.67
rs7796358	1-(1-enyl- palmitoyl)-2- linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	7	3080815	A	G	8260	-0.09	0.02	0.00	0.00	19.84

rs28597716	1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	8	20079176	G	A	8260	0.09	0.02	0.00	0.00	21.12
rs72709026	1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	8	123505167	A	G	8260	-0.22	0.05	0.00	0.00	20.32
rs111436575	1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	9	74275553	C	A	8260	-0.12	0.02	0.00	0.00	22.09
rs2186643	1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	11	64110602	A	G	8260	0.07	0.02	0.00	0.00	20.30
rs964184	1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	11	116778201	C	G	8260	0.12	0.02	0.00	0.00	26.84
rs74605231	1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	13	81303145	A	G	8260	0.15	0.03	0.00	0.00	22.83
rs146677828	1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	14	74728135	A	G	8260	-0.21	0.05	0.00	0.00	21.15
rs4843128	1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	15	85894538	C	G	8260	-0.20	0.04	0.00	0.00	24.23
rs17231506	1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	16	56960616	T	C	8260	0.11	0.02	0.00	0.01	50.03
rs112328492	1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	18	3860783	G	A	8260	-0.41	0.09	0.00	0.00	22.67
rs8106671	1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	19	47978215	T	C	8260	0.07	0.02	0.00	0.00	20.24
rs16997135	1-(1-enyl-palmitoyl)-2-linoleoyl-GPC (p-16:0/18:2) levels	GCST90200060	20	52867319	T	C	8260	-0.21	0.05	0.00	0.00	19.93
rs76236163	oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	1	119623830	C	G	8264	0.10	0.02	0.00	0.00	19.61
rs112876557	oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	1	212196979	A	G	8264	0.09	0.02	0.00	0.00	21.41

rs74962281	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	2	29988165	A	G	8264	-0.15	0.03	0.00	0.00	21.77
rs4664114	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	2	152521945	C	T	8264	0.08	0.02	0.00	0.00	24.04
rs111394663	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	2	206770644	A	G	8264	-0.08	0.02	0.00	0.00	20.75
rs115713394	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	3	193125616	A	G	8264	-0.20	0.04	0.00	0.00	24.38
rs79091672	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	6	11165097	G	C	8264	-0.31	0.07	0.00	0.00	21.14
rs9267920	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	6	32238466	T	C	8264	0.09	0.02	0.00	0.00	19.64
rs12201824	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	6	34615243	C	A	8264	0.10	0.02	0.00	0.00	24.82
rs113874831	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	6	53182555	A	G	8264	-0.20	0.04	0.00	0.00	22.68
rs3778183	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	6	83950315	G	A	8264	-0.19	0.04	0.00	0.00	20.13
rs76015469	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	8	3630579	C	T	8264	-0.16	0.04	0.00	0.00	19.71
rs148925249	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	8	64658703	T	C	8264	0.27	0.06	0.00	0.00	22.54
rs35123073	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	8	128447767	T	A	8264	-0.10	0.02	0.00	0.00	24.39
rs140534187	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	11	63442006	C	A	8264	0.32	0.07	0.00	0.00	19.94
rs1793064	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	11	106673156	T	C	8264	0.08	0.02	0.00	0.00	19.81

rs881084	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	13	27772512	T	C	8264	0.10	0.02	0.00	0.00	20.27
rs140460278	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	13	61400525	T	C	8264	0.35	0.07	0.00	0.00	21.55
rs533107131	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	13	63057468	A	G	8264	-0.45	0.09	0.00	0.00	24.75
rs6572232	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	14	43980389	G	A	8264	-0.10	0.02	0.00	0.00	21.43
rs76954286	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	14	56504560	T	C	8264	-0.17	0.04	0.00	0.00	19.97
rs76918937	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	15	54465777	G	A	8264	0.29	0.06	0.00	0.00	22.58
rs7183707	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	15	90340501	T	G	8264	-0.08	0.02	0.00	0.00	20.36
rs73243733	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	16	84404524	C	G	8264	-0.26	0.06	0.00	0.00	21.25
rs186029333	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	17	59309110	G	A	8264	0.37	0.07	0.00	0.00	24.65
rs73423516	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	18	33391241	C	T	8264	-0.10	0.02	0.00	0.00	20.85
rs190712692	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	19	44921921	A	G	8264	0.16	0.03	0.00	0.00	22.28
rs3826886	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	19	55229837	A	G	8264	-0.16	0.02	0.00	0.01	56.27
rs408006	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	20	57956226	G	A	8264	-0.08	0.02	0.00	0.00	20.83
rs2835216	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	21	35991087	G	A	8264	-0.13	0.03	0.00	0.00	19.90

rs9621844	1-(1-enyl-palmitoyl)-2-oleoyl-GPE (p-16:0/18:1) levels	GCST90200061	22	34085619	T	C	8264	-0.07	0.02	0.00	0.00	20.69
rs10889340	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	1	62546400	C	A	8057	0.11	0.02	0.00	0.01	46.79
rs4846914	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	1	230159944	A	G	8057	0.08	0.02	0.00	0.00	25.58
rs77732096	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	2	51367759	G	A	8057	-0.28	0.06	0.00	0.00	20.58
rs78366066	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	2	211461199	G	T	8057	-0.14	0.03	0.00	0.00	19.53
rs1508735	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	3	3522432	A	G	8057	-0.10	0.02	0.00	0.00	23.61
rs4683709	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	3	142934407	T	G	8057	-0.08	0.02	0.00	0.00	23.18
rs34373785	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	4	96519659	A	G	8057	0.15	0.03	0.00	0.00	20.22
rs140095724	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	4	132609758	G	A	8057	0.46	0.10	0.00	0.00	20.59
rs140033739	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	6	30237375	A	G	8057	-0.16	0.04	0.00	0.00	20.23
rs183019417	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	8	8232211	G	T	8057	-0.42	0.09	0.00	0.00	21.31
rs2623844	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	8	67727598	G	A	8057	0.12	0.02	0.00	0.00	21.93
rs114127069	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	9	20695839	A	G	8057	0.17	0.04	0.00	0.00	19.69
rs174560	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	11	61814292	C	T	8057	-0.16	0.02	0.00	0.01	95.42

rs12823997	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	12	76929980	T	C	8057	0.09	0.02	0.00	0.00	24.59
rs143708413	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	12	110784297	A	G	8057	-0.31	0.07	0.00	0.00	20.12
rs112209914	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	12	113945738	T	C	8057	0.32	0.07	0.00	0.00	19.66
rs1333541	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	13	70716949	A	C	8057	-0.14	0.03	0.00	0.00	20.18
rs2318888	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	14	20201081	T	C	8057	-0.09	0.02	0.00	0.00	23.81
rs72681051	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	14	24680374	A	T	8057	-0.12	0.03	0.00	0.00	19.90
rs10468017	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	15	58386313	T	C	8057	0.08	0.02	0.00	0.00	22.66
rs71400201	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	16	82209703	A	G	8057	-0.21	0.04	0.00	0.00	22.40
rs12963704	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	18	40347890	C	T	8057	0.17	0.04	0.00	0.00	20.18
rs149615216	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	18	49579658	T	C	8057	0.41	0.07	0.00	0.00	31.54
rs8091573	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	18	49593053	C	T	8057	0.13	0.02	0.00	0.00	29.25
rs11671715	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	19	34655321	C	T	8057	-0.07	0.02	0.00	0.00	21.35
rs626283	1-palmitoyl-2-arachidonoyl-GPI (16:0/20:4) levels	GCST90200062	19	54173307	G	C	8057	0.07	0.02	0.00	0.00	21.87
rs72779648	1-palmitoyl-2-docosaheptaenoyl-GPE (16:0/22:6) levels	GCST90200063	2	12622390	A	G	8262	0.27	0.06	0.00	0.00	20.36

rs6753534	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	2	27530004	T	C	8262	-0.08	0.01	0.00	0.00	29.97
rs34968953	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	2	205102116	T	C	8262	0.08	0.02	0.00	0.00	21.83
rs114848860	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	3	36818003	T	A	8262	-0.22	0.05	0.00	0.00	20.87
rs9368512	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	6	10974799	G	C	8262	-0.08	0.01	0.00	0.00	27.64
rs111272355	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	7	43273249	T	C	8262	0.21	0.05	0.00	0.00	21.65
rs6976930	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	7	73471480	A	G	8262	-0.11	0.02	0.00	0.00	30.79
rs1690628	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	10	31005381	C	T	8262	0.07	0.02	0.00	0.00	20.46
rs78750958	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	11	81958515	A	G	8262	-0.10	0.02	0.00	0.00	20.39
rs964184	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	11	116778201	C	G	8262	-0.15	0.02	0.00	0.01	48.69
rs12301312	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	12	1830086	A	C	8262	-0.07	0.01	0.00	0.00	21.68
rs61933473	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	12	114946368	C	T	8262	0.09	0.02	0.00	0.00	20.18
rs4772206	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	13	99462151	G	A	8262	-0.14	0.03	0.00	0.00	19.86
rs1959720	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	14	87740263	A	G	8262	-0.07	0.02	0.00	0.00	20.16
rs10162642	1-palmitoyl-2-docosahexaeno yl-GPE (16:0/22:6) levels	GCST90200063	15	58284964	A	G	8262	-0.17	0.02	0.00	0.01	82.68

rs261291	1-palmitoyl-2-docosahexaenoyl-GPE (16:0/22:6) levels	GCST90200063	15	58387979	C	T	8262	0.40	0.02	0.00	0.08	707.18
rs12914626	1-palmitoyl-2-docosahexaenoyl-GPE (16:0/22:6) levels	GCST90200063	15	58446224	T	C	8262	-0.20	0.02	0.00	0.02	148.41
rs12918215	1-palmitoyl-2-docosahexaenoyl-GPE (16:0/22:6) levels	GCST90200063	16	86086474	G	A	8262	-0.09	0.02	0.00	0.00	25.39
rs62079978	1-palmitoyl-2-docosahexaenoyl-GPE (16:0/22:6) levels	GCST90200063	18	30440206	T	C	8262	-0.09	0.02	0.00	0.00	21.28
rs484195	1-palmitoyl-2-docosahexaenoyl-GPE (16:0/22:6) levels	GCST90200063	19	44918620	G	A	8262	0.08	0.02	0.00	0.00	27.03
rs1168041	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	1	62494579	C	T	8208	0.08	0.02	0.00	0.00	22.11
rs17357686	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	1	86851159	T	C	8208	0.13	0.03	0.00	0.00	19.94
rs148164244	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	2	26991122	C	T	8208	-0.33	0.07	0.00	0.00	19.74
rs17777828	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	3	66585936	G	A	8208	0.15	0.03	0.00	0.00	20.31
rs58441356	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	4	46836354	A	T	8208	0.35	0.08	0.00	0.00	20.13
rs76520868	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	4	89290258	T	C	8208	0.14	0.03	0.00	0.00	21.90
rs186962567	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	7	36088622	T	G	8208	0.59	0.13	0.00	0.00	20.37
rs35969034	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	7	151746041	T	G	8208	-0.12	0.03	0.00	0.00	20.87
rs10503319	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	8	5661177	A	G	8208	-0.12	0.03	0.00	0.00	23.33
rs35757774	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	8	61744263	T	A	8208	0.24	0.05	0.00	0.00	25.91
rs10971934	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	9	34117712	T	C	8208	0.10	0.02	0.00	0.00	22.10
rs7024580	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	9	87836562	T	A	8208	-0.08	0.02	0.00	0.00	23.76

rs116915583	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	9	105984901	T	C	8208	0.33	0.06	0.00	0.00	28.09
rs61904301	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	11	86656249	G	A	8208	0.11	0.02	0.00	0.00	28.09
rs2697073	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	11	91723705	T	C	8208	-0.08	0.02	0.00	0.00	24.78
rs964184	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	11	116778201	C	G	8208	-0.13	0.02	0.00	0.00	33.85
rs17101394	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	14	63765668	A	G	8208	-0.11	0.02	0.00	0.00	29.50
rs112271315	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	17	37712966	A	G	8208	0.25	0.05	0.00	0.00	22.46
rs1139403	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	17	81512766	A	G	8208	0.18	0.04	0.00	0.00	20.48
rs75398805	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	18	69751727	A	G	8208	0.18	0.04	0.00	0.00	21.43
rs2305778	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	19	13933474	A	G	8208	-0.15	0.03	0.00	0.00	21.17
rs1968068	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	19	43133663	T	C	8208	-0.07	0.02	0.00	0.00	19.69
rs7412	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	19	44908822	T	C	8208	0.14	0.03	0.00	0.00	23.84
rs55845370	N-palmitoyl-sphinganine (d18:0/16:0) levels	GCST90200064	20	34845826	G	A	8208	0.09	0.02	0.00	0.00	28.47
rs17367539	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	1	42112696	G	A	8251	-0.16	0.04	0.00	0.00	20.18
rs72779648	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	2	12622390	A	G	8251	0.27	0.06	0.00	0.00	19.78
rs6753534	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	2	27530004	T	C	8251	-0.08	0.02	0.00	0.00	24.87
rs145400890	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	2	105231651	G	A	8251	-0.32	0.07	0.00	0.00	19.89
rs34968953	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	2	205102116	T	C	8251	0.09	0.02	0.00	0.00	22.23

rs114848860	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	3	36818003	T	A	8251	-0.22	0.05	0.00	0.00	20.61
rs9814652	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	3	110361517	T	G	8251	-0.16	0.04	0.00	0.00	19.59
rs79684943	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	4	143609298	A	G	8251	0.28	0.06	0.00	0.00	20.27
rs3734398	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	6	10982740	C	T	8251	-0.08	0.02	0.00	0.00	26.18
rs55929002	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	6	33996068	C	G	8251	0.13	0.03	0.00	0.00	23.51
rs1988696	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	6	102975919	C	G	8251	0.08	0.02	0.00	0.00	20.26
rs7746477	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	6	110532765	G	C	8251	-0.12	0.03	0.00	0.00	20.27
rs9478128	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	6	169437961	G	A	8251	0.12	0.03	0.00	0.00	20.36
rs111272355	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	7	43273249	T	C	8251	0.22	0.05	0.00	0.00	23.69
rs6976930	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	7	73471480	A	G	8251	-0.10	0.02	0.00	0.00	25.49
rs17431062	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	8	117971137	T	C	8251	0.13	0.03	0.00	0.00	19.86
rs117752797	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	10	70304912	T	C	8251	0.14	0.03	0.00	0.00	23.38
rs174574	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	11	61832870	C	A	8251	0.07	0.02	0.00	0.00	21.48
rs10897902	1-stearoyl-2-docosahexaenoyl-GPE (18:0/22:6) levels	GCST90200065	11	81958822	G	T	8251	-0.09	0.02	0.00	0.00	19.92

rs964184	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	11	116778201	C	G	8251	-0.17	0.02	0.00	0.01	57.02
rs61933473	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	12	114946368	C	T	8251	0.10	0.02	0.00	0.00	21.48
rs6574794	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	14	26127459	G	A	8251	0.16	0.04	0.00	0.00	20.39
rs10162642	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	15	58284964	A	G	8251	-0.12	0.02	0.00	0.01	43.74
rs261291	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	15	58387979	C	T	8251	0.30	0.02	0.00	0.04	367.95
rs12914626	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	15	58446224	T	C	8251	-0.15	0.02	0.00	0.01	86.48
rs74710034	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	15	93346765	A	G	8251	0.36	0.08	0.00	0.00	21.30
rs12918215	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	16	86086474	G	A	8251	-0.09	0.02	0.00	0.00	23.98
rs11720927 5	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	17	50390546	C	T	8251	0.31	0.07	0.00	0.00	20.65
rs11081781	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	18	32751216	C	T	8251	0.08	0.02	0.00	0.00	23.75
rs157581	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	19	44892457	C	T	8251	0.10	0.02	0.00	0.00	31.50
rs73055442	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	19	54279838	T	C	8251	0.19	0.04	0.00	0.00	19.54
rs6520011	1-stearoyl-2-docosahexaeno yl-GPE (18:0/22:6) levels	GCST90200065	22	46401434	G	A	8251	0.09	0.02	0.00	0.00	21.37
rs78540919	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	2	68782815	A	G	8231	-0.20	0.04	0.00	0.00	21.10
rs11125675 2	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	2	122659768	A	G	8231	0.17	0.04	0.00	0.00	20.26

rs148120284	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	2	202359473	C	T	8231	0.25	0.05	0.00	0.00	22.73
rs2080109	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	4	27412256	G	C	8231	-0.40	0.09	0.00	0.00	21.72
rs555063748	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	5	85944422	T	A	8231	-0.15	0.03	0.00	0.00	20.09
rs140711410	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	5	134577224	T	C	8231	-0.27	0.06	0.00	0.00	22.73
rs117072139	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	6	144856778	A	T	8231	0.52	0.11	0.00	0.00	21.73
rs117658709	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	7	70260661	C	T	8231	0.28	0.06	0.00	0.00	23.37
rs188663015	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	8	36723664	A	C	8231	-0.30	0.07	0.00	0.00	20.77
rs725088	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	8	136519462	A	G	8231	-0.16	0.04	0.00	0.00	20.95
rs118186988	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	9	78197740	A	G	8231	-0.31	0.07	0.00	0.00	20.21
rs80292350	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	10	126065457	T	C	8231	0.53	0.11	0.00	0.00	21.10
rs11602864	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	11	88077045	C	A	8231	0.07	0.02	0.00	0.00	19.53
rs10895762	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	11	105042871	C	T	8231	0.08	0.02	0.00	0.00	19.69
rs1304802	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	11	127328176	T	C	8231	0.07	0.02	0.00	0.00	20.35
rs7965967	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	12	59950137	C	G	8231	-0.08	0.02	0.00	0.00	21.41
rs443544	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	12	78098591	G	A	8231	0.09	0.02	0.00	0.00	21.40
rs3850072	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	13	80035365	G	A	8231	0.17	0.03	0.00	0.00	23.20
rs811150	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	14	54154690	T	A	8231	0.09	0.02	0.00	0.00	22.82
rs12589625	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	14	101083700	G	C	8231	0.09	0.02	0.00	0.00	19.64

rs844380	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	15	36952715	G	T	8231	0.08	0.02	0.00	0.00	28.75
rs1671035	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	17	75557847	C	T	8231	0.07	0.02	0.00	0.00	19.67
rs35796609	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	18	12257617	A	G	8231	0.08	0.02	0.00	0.00	20.75
rs2108622	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	19	15879621	T	C	8231	0.09	0.02	0.00	0.00	27.17
rs11699994	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	20	1843535	T	G	8231	0.18	0.04	0.00	0.00	19.52
rs5994294	Gamma-tocopherol/beta-tocopherol levels	GCST90200066	22	30362247	T	C	8231	-0.11	0.02	0.00	0.00	28.18
rs1168041	1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	1	62494579	C	T	8113	0.16	0.02	0.00	0.01	98.78
rs77618656	1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	1	235332784	G	T	8113	0.22	0.05	0.00	0.00	20.42
rs78603490	1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	2	57988691	A	G	8113	0.20	0.03	0.00	0.00	32.16
rs62181006	1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	2	187843140	T	C	8113	-0.12	0.03	0.00	0.00	23.60
rs78178193	1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	2	242064839	G	A	8113	0.20	0.04	0.00	0.00	21.38
rs141912254	1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	3	21112425	C	T	8113	-0.22	0.05	0.00	0.00	20.80
rs564005900	1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	3	66901342	C	T	8113	-0.30	0.07	0.00	0.00	19.93
rs1009621	1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	3	148472961	G	A	8113	0.09	0.02	0.00	0.00	28.93
rs3096163	1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	5	54399304	C	T	8113	-0.24	0.05	0.00	0.00	21.42
rs78145195	1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	5	137450212	C	T	8113	-0.30	0.07	0.00	0.00	19.51
rs13178145	1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	5	141694837	C	T	8113	-0.07	0.02	0.00	0.00	21.32
rs444472	1-stearoyl-2-linoleoyl-GPI (18:0/18:2) levels	GCST90200067	6	32218949	A	G	8113	-0.08	0.01	0.00	0.00	27.20

rs9801058	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	7	6493011	T	C	8113	0.07	0.02	0.00	0.00	20.15
rs80233112	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	7	17180858	C	A	8113	0.19	0.04	0.00	0.00	20.84
rs55912803	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	9	3130815	A	G	8113	0.19	0.04	0.00	0.00	19.73
rs12380813	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	9	17607556	A	G	8113	0.08	0.02	0.00	0.00	21.99
rs77790199	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	9	129787755	A	G	8113	0.14	0.03	0.00	0.00	20.40
rs18373968 2	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	10	18610049	A	T	8113	-0.41	0.09	0.00	0.00	21.02
rs174567	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	11	61825533	G	A	8113	0.21	0.02	0.00	0.02	179.95
rs964184	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	11	116778201	C	G	8113	-0.11	0.02	0.00	0.00	24.14
rs7985098	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	13	110734069	A	G	8113	0.08	0.02	0.00	0.00	20.26
rs12437621	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	15	27740468	G	T	8113	0.08	0.01	0.00	0.00	26.77
rs18088093 7	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	16	19369048	A	G	8113	0.29	0.07	0.00	0.00	19.78
rs2870469	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	16	75121386	G	A	8113	0.07	0.02	0.00	0.00	20.56
rs14299645 6	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	18	45077630	A	G	8113	0.30	0.06	0.00	0.00	21.58
rs77960347	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	18	49583585	G	A	8113	0.34	0.06	0.00	0.00	29.38
rs16964099	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	19	30334661	T	C	8113	0.08	0.02	0.00	0.00	20.36
rs440446	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	19	44905910	G	C	8113	0.07	0.02	0.00	0.00	20.61
rs8736	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	19	54173495	C	T	8113	-0.21	0.02	0.00	0.02	191.56
rs2283838	1-stearoyl-2- linoleoyl-GPI (18:0/18:2) levels	GCST90200067	22	26571534	C	T	8113	-0.09	0.02	0.00	0.00	19.98

rs10753629	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	1	163769110	G	T	6804	0.08	0.02	0.00	0.00	21.89
rs6755520	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	2	172330906	C	A	6804	-0.08	0.02	0.00	0.00	20.70
rs10460926	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	3	82438917	T	C	6804	-0.10	0.02	0.00	0.00	19.78
rs18353128 8	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	3	161751307	T	C	6804	-0.25	0.05	0.00	0.00	21.18
rs77475228	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	4	54511621	A	C	6804	0.27	0.06	0.00	0.00	19.86
rs11729226	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	4	181208811	A	G	6804	-0.12	0.03	0.00	0.00	19.95
rs14259087 1	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	5	13617948	G	A	6804	-0.35	0.08	0.00	0.00	21.76
rs14561631 1	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	5	16395709	A	T	6804	0.18	0.04	0.00	0.00	20.48
rs2857607	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	6	31549471	T	C	6804	0.14	0.03	0.00	0.00	20.73
rs11396692 5	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	7	130155762	T	C	6804	0.26	0.05	0.00	0.00	23.77
rs642281	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	9	9540270	A	G	6804	-0.12	0.03	0.00	0.00	20.48
rs18839015 9	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	9	89688004	C	G	6804	-0.43	0.09	0.00	0.00	20.57
rs174547	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	11	61803311	C	T	6804	0.23	0.02	0.00	0.02	173.46
rs74080152	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	12	30044322	C	A	6804	-0.30	0.07	0.00	0.00	20.56
rs14789615 8	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	12	46310957	T	C	6804	-0.15	0.03	0.00	0.00	21.65
rs79989369	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	12	130182436	C	T	6804	-0.20	0.05	0.00	0.00	20.14
rs1855663	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	13	104745778	G	A	6804	0.10	0.02	0.00	0.00	25.62
rs10138588	1,2-dilinoleoyl- GPE (18:2/18:2) levels	GCST90200068	14	25204084	C	A	6804	0.08	0.02	0.00	0.00	20.72

rs13353121	1,2-dilinoleoyl-GPE (18:2/18:2) levels	GCST90200068	14	29967204	C	T	6804	0.12	0.03	0.00	0.00	19.85
rs10138857	1,2-dilinoleoyl-GPE (18:2/18:2) levels	GCST90200068	14	80451174	C	A	6804	0.17	0.04	0.00	0.00	20.07
rs147738078	1,2-dilinoleoyl-GPE (18:2/18:2) levels	GCST90200068	14	98162675	G	A	6804	0.33	0.07	0.00	0.00	20.12
rs2414577	1,2-dilinoleoyl-GPE (18:2/18:2) levels	GCST90200068	15	58388439	C	T	6804	0.12	0.02	0.00	0.01	43.41
rs572410	1,2-dilinoleoyl-GPE (18:2/18:2) levels	GCST90200068	15	58449185	G	C	6804	-0.12	0.02	0.00	0.00	31.33
rs28615345	1,2-dilinoleoyl-GPE (18:2/18:2) levels	GCST90200068	15	84922279	G	A	6804	-0.09	0.02	0.00	0.00	20.29
rs145755349	1,2-dilinoleoyl-GPE (18:2/18:2) levels	GCST90200068	17	3859586	C	T	6804	-0.22	0.05	0.00	0.00	22.04
rs8113105	1,2-dilinoleoyl-GPE (18:2/18:2) levels	GCST90200068	19	4528380	A	G	6804	0.37	0.08	0.00	0.00	20.41
rs34671296	1,2-dilinoleoyl-GPE (18:2/18:2) levels	GCST90200068	19	47064262	G	A	6804	-0.31	0.07	0.00	0.00	19.57
rs2268249	1,2-dilinoleoyl-GPE (18:2/18:2) levels	GCST90200068	21	33816377	T	C	6804	-0.08	0.02	0.00	0.00	19.78
rs16848493	Phenylacetylglutamate levels	GCST90200069	1	201380954	T	C	6227	0.19	0.04	0.00	0.00	22.44
rs35762753	Phenylacetylglutamate levels	GCST90200069	1	221654280	G	T	6227	0.35	0.08	0.00	0.00	20.62
rs76003961	Phenylacetylglutamate levels	GCST90200069	2	80554564	A	G	6227	0.17	0.04	0.00	0.00	21.21
rs12474809	Phenylacetylglutamate levels	GCST90200069	2	134217947	G	A	6227	-0.20	0.04	0.00	0.00	19.73
rs76858033	Phenylacetylglutamate levels	GCST90200069	2	235222195	G	A	6227	0.27	0.06	0.00	0.00	19.94
rs149668593	Phenylacetylglutamate levels	GCST90200069	3	60079734	A	T	6227	-0.25	0.06	0.00	0.00	19.99
rs73179138	Phenylacetylglutamate levels	GCST90200069	3	177982588	A	C	6227	-0.21	0.05	0.00	0.00	21.40
rs73178107	Phenylacetylglutamate levels	GCST90200069	3	185943536	C	T	6227	-0.16	0.03	0.00	0.00	24.34
rs34903233	Phenylacetylglutamate levels	GCST90200069	4	172628490	T	G	6227	-0.14	0.03	0.00	0.00	22.17
rs188476	Phenylacetylglutamate levels	GCST90200069	5	95681853	G	A	6227	0.16	0.04	0.00	0.00	19.55
rs3757131	Phenylacetylglutamate levels	GCST90200069	6	25783681	T	C	6227	0.17	0.02	0.00	0.01	94.45
rs1113666	Phenylacetylglutamate levels	GCST90200069	6	109258520	C	T	6227	0.08	0.02	0.00	0.00	20.25
rs34366459	Phenylacetylglutamate levels	GCST90200069	7	123596	C	T	6227	0.08	0.02	0.00	0.00	20.67
rs117113249	Phenylacetylglutamate levels	GCST90200069	7	55234079	A	G	6227	0.34	0.07	0.00	0.00	22.21
rs10266131	Phenylacetylglutamate levels	GCST90200069	7	106658375	G	C	6227	-0.18	0.04	0.00	0.00	21.86
rs7010461	Phenylacetylglutamate levels	GCST90200069	8	39923925	T	C	6227	0.09	0.02	0.00	0.00	22.76
rs187440405	Phenylacetylglutamate levels	GCST90200069	9	113135808	T	C	6227	-0.54	0.12	0.00	0.00	20.86

rs2170226	Phenylacetylglutamate levels	GCST90200069	9	113701880	T	C	6227	0.11	0.02	0.00	0.00	24.18
rs140287625	Phenylacetylglutamate levels	GCST90200069	10	29173277	A	G	6227	0.36	0.08	0.00	0.00	21.05
rs143470418	Phenylacetylglutamate levels	GCST90200069	13	27395134	G	A	6227	-0.31	0.07	0.00	0.00	22.05
rs1012374	Phenylacetylglutamate levels	GCST90200069	13	47007501	A	T	6227	-0.08	0.02	0.00	0.00	19.54
rs3743625	Phenylacetylglutamate levels	GCST90200069	16	83923238	T	G	6227	-0.10	0.02	0.00	0.00	19.87
rs192123848	Phenylacetylglutamate levels	GCST90200069	17	47936020	A	G	6227	-0.33	0.07	0.00	0.00	22.29
rs117700447	Phenylacetylglutamate levels	GCST90200069	18	72233674	A	G	6227	0.17	0.04	0.00	0.00	20.52
rs10518473	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	1	74686502	C	T	8083	-0.14	0.03	0.00	0.00	24.00
rs72694640	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	1	111979874	C	T	8083	-0.13	0.03	0.00	0.00	21.78
rs1260326	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	2	27508073	C	T	8083	0.10	0.02	0.00	0.00	39.44
rs10197143	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	2	145397779	C	T	8083	0.07	0.02	0.00	0.00	22.44
rs12473718	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	2	234223859	A	G	8083	0.07	0.01	0.00	0.00	23.61
rs67466574	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	2	238779480	A	G	8083	-0.13	0.03	0.00	0.00	24.59
rs854215	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	3	45338105	A	G	8083	-0.07	0.02	0.00	0.00	21.94
rs13112336	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	4	101669882	C	T	8083	-0.12	0.03	0.00	0.00	20.62
rs458334	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	5	1429978	G	A	8083	-0.07	0.02	0.00	0.00	23.10
rs55959162	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	5	2759487	G	T	8083	-0.11	0.02	0.00	0.00	23.04

rs13179609	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	5	125172154	A	C	8083	-0.08	0.02	0.00	0.00	23.24
rs114982089	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	6	41357003	T	C	8083	-0.33	0.07	0.00	0.00	20.16
rs139456381	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	6	114684375	T	C	8083	-0.31	0.07	0.00	0.00	20.12
rs141807714	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	6	150738160	T	C	8083	0.33	0.07	0.00	0.00	22.69
rs10275265	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	7	52510325	A	T	8083	-0.07	0.02	0.00	0.00	20.05
rs13247874	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	7	73596112	T	C	8083	0.09	0.02	0.00	0.00	20.12
rs997597	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	8	87178323	A	G	8083	0.08	0.02	0.00	0.00	20.17
rs1478110	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	9	1721478	C	T	8083	0.07	0.02	0.00	0.00	22.27
rs7868992	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	9	114228791	A	G	8083	0.07	0.02	0.00	0.00	19.93
rs72782793	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	10	8041061	C	T	8083	0.09	0.02	0.00	0.00	20.49
rs112420075	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	10	25497213	T	A	8083	0.28	0.06	0.00	0.00	22.26
rs4418728	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	10	93079967	T	G	8083	0.08	0.01	0.00	0.00	28.25

rs603424	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	10	100315722	A	G	8083	-0.17	0.02	0.00	0.01	77.00
rs102275	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	11	61790331	C	T	8083	-0.11	0.02	0.00	0.01	49.38
rs964184	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	11	116778201	C	G	8083	0.10	0.02	0.00	0.00	21.57
rs4372543	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	12	32206685	G	C	8083	-0.08	0.02	0.00	0.00	24.58
rs7302790	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	12	103869702	A	G	8083	0.14	0.03	0.00	0.00	20.11
rs75489369	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	12	108282504	A	C	8083	-0.15	0.03	0.00	0.00	20.35
rs7332107	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	13	46034756	A	T	8083	0.07	0.02	0.00	0.00	19.78
rs1077989	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	14	67509105	C	A	8083	-0.33	0.01	0.00	0.06	511.60
rs6573781	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	14	67579218	A	G	8083	0.10	0.02	0.00	0.00	27.69
rs174418	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	15	58395404	C	T	8083	-0.09	0.02	0.00	0.00	31.70
rs197055	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	16	1081175	A	C	8083	-0.09	0.02	0.00	0.00	21.03
rs17231506	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	16	56960616	T	C	8083	0.12	0.02	0.00	0.01	61.76

rs58501936	1-(1-enyl-palmitoyl)-2-palmitoleoyl-GPC (P-16:0/16:1) levels	GCST90200070	18	41802232	G	A	8083	-0.16	0.03	0.00	0.00	21.95
rs12408428	Palmitoylcholine levels	GCST90200071	1	65076042	G	T	8209	0.13	0.03	0.00	0.00	20.05
rs9659196	Palmitoylcholine levels	GCST90200071	1	119665492	A	C	8209	-0.10	0.02	0.00	0.00	21.31
rs74814187	Palmitoylcholine levels	GCST90200071	1	177105662	T	C	8209	0.17	0.03	0.00	0.00	25.83
rs142945849	Palmitoylcholine levels	GCST90200071	5	62101998	A	G	8209	-0.51	0.11	0.00	0.00	19.60
rs6916313	Palmitoylcholine levels	GCST90200071	6	6858646	G	T	8209	-0.07	0.02	0.00	0.00	21.93
rs74739396	Palmitoylcholine levels	GCST90200071	7	101999557	A	C	8209	-0.28	0.06	0.00	0.00	20.89
rs62512856	Palmitoylcholine levels	GCST90200071	8	82484617	A	T	8209	0.10	0.02	0.00	0.00	23.37
rs72745600	Palmitoylcholine levels	GCST90200071	9	81569783	A	G	8209	-0.16	0.03	0.00	0.00	21.09
rs34075683	Palmitoylcholine levels	GCST90200071	9	113940486	G	T	8209	0.09	0.02	0.00	0.00	21.88
rs41297215	Palmitoylcholine levels	GCST90200071	9	130355662	T	G	8209	0.26	0.06	0.00	0.00	19.96
rs2016129	Palmitoylcholine levels	GCST90200071	10	28999366	T	C	8209	0.14	0.03	0.00	0.00	21.22
rs117798927	Palmitoylcholine levels	GCST90200071	10	71290109	G	A	8209	0.30	0.07	0.00	0.00	19.94
rs141767821	Palmitoylcholine levels	GCST90200071	11	122733590	G	A	8209	0.27	0.05	0.00	0.00	25.44
rs112526079	Palmitoylcholine levels	GCST90200071	12	27560832	C	T	8209	-0.31	0.07	0.00	0.00	22.47
rs7331503	Palmitoylcholine levels	GCST90200071	13	77603467	A	G	8209	-0.10	0.02	0.00	0.00	22.66
rs1555942	Palmitoylcholine levels	GCST90200071	14	68172250	A	T	8209	0.20	0.04	0.00	0.00	22.87
rs1437468	Palmitoylcholine levels	GCST90200071	15	59840593	C	A	8209	0.19	0.04	0.00	0.00	22.04
rs3743470	Palmitoylcholine levels	GCST90200071	15	92882311	T	C	8209	0.08	0.02	0.00	0.00	20.23
rs16971219	Palmitoylcholine levels	GCST90200071	16	21199718	T	C	8209	-0.29	0.06	0.00	0.00	22.87
rs113336809	Palmitoylcholine levels	GCST90200071	16	88591822	A	T	8209	-0.31	0.07	0.00	0.00	22.11
rs116934369	Palmitoylcholine levels	GCST90200071	17	1658986	A	G	8209	0.32	0.07	0.00	0.00	23.16
rs11653889	Palmitoylcholine levels	GCST90200071	17	3724162	A	T	8209	-0.39	0.08	0.00	0.00	23.15
rs11880992	Palmitoylcholine levels	GCST90200071	19	2176404	A	G	8209	-0.07	0.02	0.00	0.00	21.28
rs6120825	Palmitoylcholine levels	GCST90200071	20	35083338	C	A	8209	-0.10	0.02	0.00	0.00	24.52
rs140374355	Palmitoylcholine levels	GCST90200071	20	61852693	T	C	8209	-0.24	0.05	0.00	0.00	20.35
rs77018784	Thioproline levels	GCST90200072	1	199911351	T	C	8226	-0.25	0.05	0.00	0.00	27.24
rs9821257	Thioproline levels	GCST90200072	3	24017717	G	A	8226	0.07	0.02	0.00	0.00	19.59
rs144482369	Thioproline levels	GCST90200072	3	98550114	A	C	8226	-0.27	0.06	0.00	0.00	19.73
rs7630027	Thioproline levels	GCST90200072	3	113940356	T	C	8226	-0.18	0.04	0.00	0.00	19.86
rs12491205	Thioproline levels	GCST90200072	3	171921708	G	T	8226	0.15	0.03	0.00	0.00	27.13
rs187236431	Thioproline levels	GCST90200072	5	28467022	A	T	8226	0.27	0.06	0.00	0.00	21.96
rs116010464	Thioproline levels	GCST90200072	5	102777521	G	A	8226	-0.31	0.06	0.00	0.00	23.45
rs148318548	Thioproline levels	GCST90200072	6	24951659	G	T	8226	0.38	0.08	0.00	0.00	24.35
rs9295286	Thioproline levels	GCST90200072	6	164753809	G	C	8226	-0.07	0.02	0.00	0.00	21.68

rs13270083	Thioproline levels	GCST90200072	8	73938224	G	A	8226	-0.08	0.02	0.00	0.00	20.49
rs1398270	Thioproline levels	GCST90200072	8	103054777	G	A	8226	-0.09	0.02	0.00	0.00	19.63
rs16931065	Thioproline levels	GCST90200072	9	13879918	G	C	8226	-0.17	0.04	0.00	0.00	20.23
rs4373817	Thioproline levels	GCST90200072	10	5561644	T	C	8226	-0.16	0.04	0.00	0.00	20.44
rs17115660	Thioproline levels	GCST90200072	10	103447905	C	T	8226	0.26	0.06	0.00	0.00	20.78
rs61864006	Thioproline levels	GCST90200072	10	123369111	G	A	8226	0.28	0.06	0.00	0.00	19.72
rs1869251	Thioproline levels	GCST90200072	10	129014291	G	A	8226	-0.07	0.02	0.00	0.00	20.70
rs11041701	Thioproline levels	GCST90200072	11	1892375	G	A	8226	-0.07	0.02	0.00	0.00	20.43
rs4756221	Thioproline levels	GCST90200072	11	35356522	T	C	8226	-0.08	0.02	0.00	0.00	19.52
rs17813381	Thioproline levels	GCST90200072	11	36197107	A	T	8226	0.11	0.03	0.00	0.00	19.87
rs4238083	Thioproline levels	GCST90200072	12	42530967	G	A	8226	0.30	0.06	0.00	0.00	25.16
rs14368870 2	Thioproline levels	GCST90200072	12	116823649	C	A	8226	0.59	0.12	0.00	0.00	22.49
rs55683719	Thioproline levels	GCST90200072	14	94469885	T	G	8226	-0.10	0.02	0.00	0.00	20.22
rs14908287 0	Thioproline levels	GCST90200072	16	89705857	A	G	8226	-0.15	0.03	0.00	0.00	32.59
rs11750814 7	Thioproline levels	GCST90200072	19	4595316	T	C	8226	0.21	0.05	0.00	0.00	19.75
rs62212005	Thioproline levels	GCST90200072	20	33973874	G	C	8226	0.14	0.03	0.00	0.00	21.52
rs4820268	Thioproline levels	GCST90200072	22	37073551	A	G	8226	-0.09	0.02	0.00	0.00	38.33
rs1168041	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	1	62494579	C	T	8063	0.07	0.02	0.00	0.00	19.56
rs34783509	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	1	158915543	C	T	8063	-0.30	0.06	0.00	0.00	21.94
rs4846913	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	1	230158968	A	C	8063	0.08	0.02	0.00	0.00	24.62
rs2127232	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	3	36363582	C	A	8063	0.13	0.03	0.00	0.00	19.58
rs73120749	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	3	63588140	C	G	8063	0.20	0.05	0.00	0.00	20.39
rs75425611	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	4	133341758	A	C	8063	-0.26	0.06	0.00	0.00	19.57
rs75180835	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	5	6117255	T	C	8063	0.22	0.05	0.00	0.00	20.50
rs11167669 7	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	6	11089296	T	G	8063	0.11	0.02	0.00	0.00	38.84

rs141695929	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	6	26541592	T	C	8063	-0.36	0.07	0.00	0.00	24.16
rs184548570	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	7	50510756	T	C	8063	0.32	0.07	0.00	0.00	22.00
rs28601761	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	8	125487789	G	C	8063	-0.09	0.02	0.00	0.00	36.87
rs2281872	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	9	37740640	C	T	8063	-0.08	0.02	0.00	0.00	25.56
rs2417301	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	9	101847867	G	A	8063	0.12	0.03	0.00	0.00	20.93
rs59141993	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	10	131563748	T	A	8063	-0.77	0.15	0.00	0.00	26.57
rs174560	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	11	61814292	C	T	8063	-0.31	0.02	0.00	0.05	381.53
rs11236515	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	11	75740366	G	A	8063	-0.14	0.03	0.00	0.00	28.29
rs79712551	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	11	79899575	A	G	8063	0.13	0.03	0.00	0.00	23.72
rs72987546	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	11	102965751	C	T	8063	-0.09	0.02	0.00	0.00	22.29
rs12317268	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	12	21199607	G	A	8063	0.11	0.02	0.00	0.00	27.46
rs141156905	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	13	103054049	G	C	8063	0.23	0.05	0.00	0.00	21.09
rs111589439	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	15	48353793	C	T	8063	-0.53	0.12	0.00	0.00	20.09
rs2059557	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	15	57785413	A	C	8063	0.07	0.02	0.00	0.00	20.40

rs261342	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	15	58438954	C	G	8063	-0.10	0.02	0.00	0.00	28.50
rs28496041	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	15	78395357	T	C	8063	0.15	0.03	0.00	0.00	21.11
rs4932474	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	15	89127273	T	C	8063	-0.10	0.02	0.00	0.00	38.96
rs17231506	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	16	56960616	T	C	8063	0.10	0.02	0.00	0.00	36.25
rs185767502	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	17	2927368	C	T	8063	-0.33	0.06	0.00	0.00	27.10
rs58542926	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	19	19268740	T	C	8063	-0.27	0.03	0.00	0.01	87.10
rs188247550	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	19	19285807	T	C	8063	-0.35	0.08	0.00	0.00	21.56
rs115735785	1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	GCST90200073	22	17390490	C	T	8063	0.23	0.05	0.00	0.00	22.75
rs115337538	1-linoleoyl-GPG (18:2) levels	GCST90200074	1	181480356	A	G	8115	-0.35	0.07	0.00	0.00	23.25
rs150928213	1-linoleoyl-GPG (18:2) levels	GCST90200074	1	201624439	A	G	8115	0.15	0.03	0.00	0.00	19.91
rs141232285	1-linoleoyl-GPG (18:2) levels	GCST90200074	3	65181063	C	T	8115	-0.58	0.12	0.00	0.00	23.23
rs562059073	1-linoleoyl-GPG (18:2) levels	GCST90200074	4	54193757	C	T	8115	0.46	0.10	0.00	0.00	21.86
rs183666278	1-linoleoyl-GPG (18:2) levels	GCST90200074	4	69725927	T	C	8115	-0.26	0.06	0.00	0.00	21.23
rs149743557	1-linoleoyl-GPG (18:2) levels	GCST90200074	4	85237690	C	T	8115	0.28	0.06	0.00	0.00	21.46
rs141289665	1-linoleoyl-GPG (18:2) levels	GCST90200074	5	73717147	T	C	8115	0.65	0.14	0.00	0.00	20.99
rs331582	1-linoleoyl-GPG (18:2) levels	GCST90200074	5	123737511	C	T	8115	0.07	0.02	0.00	0.00	21.68
rs262462	1-linoleoyl-GPG (18:2) levels	GCST90200074	6	120149124	A	G	8115	0.10	0.02	0.00	0.00	20.27
rs74542614	1-linoleoyl-GPG (18:2) levels	GCST90200074	6	155609703	C	T	8115	0.21	0.04	0.00	0.00	25.03
rs3735782	1-linoleoyl-GPG (18:2) levels	GCST90200074	8	32767339	A	C	8115	-0.08	0.02	0.00	0.00	23.77

rs14245879 7	1-linoleoyl- GPG (18:2) levels	GCST90200074	9	6374323	A	G	8115	-0.42	0.09	0.00	0.00	20.40
rs10511931	1-linoleoyl- GPG (18:2) levels	GCST90200074	9	36697738	G	A	8115	-0.09	0.02	0.00	0.00	21.14
rs894750	1-linoleoyl- GPG (18:2) levels	GCST90200074	11	20604560	G	C	8115	0.08	0.02	0.00	0.00	20.93
rs14916170 2	1-linoleoyl- GPG (18:2) levels	GCST90200074	12	136652	T	C	8115	-0.43	0.09	0.00	0.00	25.33
rs4762697	1-linoleoyl- GPG (18:2) levels	GCST90200074	12	21162039	T	A	8115	0.16	0.02	0.00	0.01	84.43
rs4149056	1-linoleoyl- GPG (18:2) levels	GCST90200074	12	21178615	C	T	8115	0.43	0.02	0.00	0.05	440.56
rs18105443 5	1-linoleoyl- GPG (18:2) levels	GCST90200074	12	80387339	T	C	8115	0.50	0.11	0.00	0.00	20.46
rs13957647 9	1-linoleoyl- GPG (18:2) levels	GCST90200074	14	24504163	C	T	8115	-0.28	0.06	0.00	0.00	20.55
rs261290	1-linoleoyl- GPG (18:2) levels	GCST90200074	15	58386521	C	T	8115	-0.09	0.02	0.00	0.00	29.00
rs14530090 6	1-linoleoyl- GPG (18:2) levels	GCST90200074	17	80673793	G	A	8115	0.39	0.09	0.00	0.00	19.53
rs75837822	1-linoleoyl- GPG (18:2) levels	GCST90200074	19	49244688	A	G	8115	0.26	0.05	0.00	0.00	26.04
rs14229981 2	1-linoleoyl- GPG (18:2) levels	GCST90200074	21	22272396	T	C	8115	-0.14	0.03	0.00	0.00	21.50
rs11764250 3	1-linoleoyl- GPG (18:2) levels	GCST90200074	21	38565723	T	C	8115	-0.24	0.05	0.00	0.00	22.60
rs12627976	1-linoleoyl- GPG (18:2) levels	GCST90200074	22	43586666	C	T	8115	0.09	0.02	0.00	0.00	19.84
rs4970772	1-(1-enyl- palmitoyl)-2- linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	1	109707546	A	G	8254	0.07	0.02	0.00	0.00	20.41
rs11577200	1-(1-enyl- palmitoyl)-2- linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	1	203041124	G	A	8254	0.10	0.02	0.00	0.00	19.96
rs18556800 1	1-(1-enyl- palmitoyl)-2- linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	2	224301319	T	C	8254	0.26	0.06	0.00	0.00	21.14
rs7607256	1-(1-enyl- palmitoyl)-2- linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	2	232620986	A	C	8254	-0.07	0.02	0.00	0.00	19.51
rs1391884	1-(1-enyl- palmitoyl)-2- linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	3	376972	C	T	8254	0.07	0.02	0.00	0.00	19.72
rs74777085	1-(1-enyl- palmitoyl)-2- linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	6	81700520	A	G	8254	-0.16	0.03	0.00	0.00	21.41

rs77930893	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	6	126092626	T	C	8254	-0.22	0.05	0.00	0.00	19.54
rs9365809	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	6	164900859	G	A	8254	0.11	0.02	0.00	0.00	21.35
rs7740635	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	6	165225450	T	G	8254	0.16	0.04	0.00	0.00	21.12
rs115825436	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	8	26598050	T	C	8254	0.22	0.05	0.00	0.00	23.63
rs148925249	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	8	64658703	T	C	8254	0.30	0.06	0.00	0.00	27.76
rs72614220	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	9	14764739	G	A	8254	0.14	0.03	0.00	0.00	22.13
rs57978441	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	10	33737769	A	G	8254	-0.08	0.02	0.00	0.00	19.94
rs174580	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	11	61839170	G	A	8254	0.17	0.02	0.00	0.01	113.80
rs552926633	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	12	65742440	A	G	8254	0.32	0.07	0.00	0.00	20.88
rs73160701	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	13	23962865	G	A	8254	0.13	0.03	0.00	0.00	23.62
rs17114612	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	14	43972538	C	G	8254	-0.12	0.03	0.00	0.00	24.09
rs7412	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	19	44908822	T	C	8254	0.13	0.03	0.00	0.00	20.90
rs3826884	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	19	55226813	A	G	8254	-0.19	0.02	0.00	0.01	88.71
rs74831398	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	19	58408447	T	C	8254	-0.23	0.04	0.00	0.00	25.70

rs3827062	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	20	47015824	G	C	8254	0.12	0.03	0.00	0.00	19.70
rs9621844	1-(1-enyl-palmitoyl)-2-linoleoyl-GPE (p-16:0/18:2) levels	GCST90200075	22	34085619	T	C	8254	-0.08	0.02	0.00	0.00	20.83
rs12144016	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	1	70655100	A	G	8261	0.08	0.02	0.00	0.00	20.83
rs6680184	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	1	213649403	T	C	8261	-0.30	0.06	0.00	0.00	23.96
rs7607256	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	2	232620986	A	C	8261	-0.07	0.02	0.00	0.00	20.65
rs115713394	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	3	193125616	A	G	8261	-0.19	0.04	0.00	0.00	21.81
rs117090533	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	4	173728655	A	G	8261	0.35	0.07	0.00	0.00	23.46
rs3846871	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	6	36846113	C	G	8261	0.07	0.02	0.00	0.00	20.71
rs55738702	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	7	52098722	G	A	8261	0.12	0.03	0.00	0.00	21.76
rs138933367	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	8	15610771	G	A	8261	0.24	0.05	0.00	0.00	20.50
rs148925249	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	8	64658703	T	C	8261	0.27	0.06	0.00	0.00	23.31
rs72614220	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	9	14764739	G	A	8261	0.14	0.03	0.00	0.00	23.43
rs7872580	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	9	15071270	T	C	8261	0.12	0.03	0.00	0.00	20.57
rs77391294	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	9	107167753	T	C	8261	-0.25	0.05	0.00	0.00	24.23

rs174570	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	11	61829740	T	C	8261	0.24	0.02	0.00	0.01	112.77
rs9645777	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	12	96703967	A	G	8261	0.09	0.02	0.00	0.00	20.11
rs142292580	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	13	24831383	A	G	8261	-0.22	0.05	0.00	0.00	20.85
rs77869828	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	15	61607519	C	T	8261	0.37	0.08	0.00	0.00	21.75
rs149183416	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	17	27846230	G	A	8261	0.17	0.04	0.00	0.00	20.68
rs73423516	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	18	33391241	C	T	8261	-0.12	0.02	0.00	0.00	27.88
rs7412	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	19	44908822	T	C	8261	0.22	0.03	0.00	0.01	62.81
rs3826884	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	19	55226813	A	G	8261	-0.12	0.02	0.00	0.00	34.82
rs1340935	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	20	17284502	T	A	8261	-0.15	0.03	0.00	0.00	19.95
rs2145268	1-(1-enyl-stearoyl)-2-linoleoyl-GPE (p-18:0/18:2) levels	GCST90200076	20	61065554	A	G	8261	0.08	0.02	0.00	0.00	20.39
rs1979722	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	1	62474426	A	G	8111	-0.14	0.02	0.00	0.01	81.57
rs12118364	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	1	208813763	G	A	8111	-0.21	0.04	0.00	0.00	21.52
rs432144	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	3	55234532	C	T	8111	-0.08	0.02	0.00	0.00	20.30
rs12638256	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	3	142936448	G	A	8111	0.20	0.02	0.00	0.02	166.43
rs117598084	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	3	195036183	T	C	8111	-0.29	0.06	0.00	0.00	21.29
rs143327346	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	4	22658157	A	C	8111	0.50	0.11	0.00	0.00	20.85

rs149376506	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	5	107563970	A	C	8111	-0.26	0.06	0.00	0.00	21.07
rs3130556	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	6	31126859	T	C	8111	-0.07	0.02	0.00	0.00	20.45
rs73440212	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	6	50439138	G	C	8111	-0.26	0.06	0.00	0.00	21.11
rs11155856	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	6	152508040	T	C	8111	-0.21	0.04	0.00	0.00	21.85
rs2343281	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	7	4470281	C	G	8111	-0.07	0.02	0.00	0.00	19.64
rs10274036	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	7	36237054	C	T	8111	-0.08	0.02	0.00	0.00	19.82
rs113534278	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	7	139410098	A	G	8111	0.27	0.06	0.00	0.00	20.04
rs74671799	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	8	124545517	G	A	8111	-0.50	0.11	0.00	0.00	22.07
rs73343848	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	10	110924110	G	A	8111	-0.15	0.03	0.00	0.00	20.61
rs174567	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	11	61825533	G	A	8111	0.13	0.02	0.00	0.01	67.94
rs964184	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	11	116778201	C	G	8111	-0.13	0.02	0.00	0.00	31.52
rs57859262	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	13	31429815	C	T	8111	0.11	0.02	0.00	0.00	20.50
rs74252684	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	17	9127838	T	C	8111	-0.09	0.02	0.00	0.00	20.65
rs142009207	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	17	42394393	C	G	8111	-0.14	0.03	0.00	0.00	22.77
rs62095825	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	18	12984272	A	G	8111	-0.19	0.04	0.00	0.00	23.95
rs77960347	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	18	49583585	G	A	8111	0.37	0.06	0.00	0.00	32.77
rs190712692	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	19	44921921	A	G	8111	0.17	0.03	0.00	0.00	25.53
rs4806498	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	19	54171009	C	T	8111	-0.16	0.02	0.00	0.01	101.56

rs78910506	1-stearoyl-2-oleoyl-GPI (18:0/18:1) levels	GCST90200077	20	15716649	T	C	8111	0.20	0.04	0.00	0.00	20.05
rs138755169	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	1	1444681	A	G	8264	0.22	0.05	0.00	0.00	20.00
rs116838287	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	1	65095569	A	G	8264	0.19	0.04	0.00	0.00	21.24
rs17363722	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	1	189582840	T	C	8264	-0.09	0.02	0.00	0.00	23.83
rs10493861	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	1	247143615	C	T	8264	0.08	0.02	0.00	0.00	22.62
rs780093	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	2	27519736	C	T	8264	-0.08	0.02	0.00	0.00	25.69
rs75340150	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	2	136236396	A	G	8264	-0.13	0.03	0.00	0.00	21.88
rs4668097	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	2	168666536	G	T	8264	-0.08	0.02	0.00	0.00	20.07
rs6730643	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	2	198094992	G	A	8264	-0.30	0.06	0.00	0.00	22.39
rs7642482	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	3	77668605	G	A	8264	-0.10	0.02	0.00	0.00	21.77
rs56077666	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	3	98422566	A	C	8264	-0.33	0.07	0.00	0.00	20.37
rs1726537	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	3	144530325	T	C	8264	-0.07	0.02	0.00	0.00	22.23
rs79682447	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	4	2260377	A	G	8264	-0.17	0.04	0.00	0.00	21.62
rs10032323	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	4	109646317	A	G	8264	-0.07	0.02	0.00	0.00	23.79
rs111582663	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	5	11294563	A	C	8264	-0.22	0.05	0.00	0.00	22.46

rs7786123	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	7	3056409	G	C	8264	0.07	0.02	0.00	0.00	20.98
rs2458285	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	8	102951650	T	C	8264	0.07	0.01	0.00	0.00	22.59
rs28601761	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	8	125487789	G	C	8264	-0.08	0.02	0.00	0.00	27.83
rs102275	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	11	61790331	C	T	8264	-0.34	0.02	0.00	0.06	500.29
rs75460503	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	13	59266263	G	T	8264	-0.20	0.04	0.00	0.00	22.21
rs56404504	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	16	23839810	T	A	8264	-0.16	0.04	0.00	0.00	20.08
rs141332412	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	18	21438429	T	C	8264	0.10	0.02	0.00	0.00	25.38
rs58542926	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	19	19268740	T	C	8264	-0.20	0.03	0.00	0.01	50.56
rs182611493	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	19	19347579	G	A	8264	-0.39	0.07	0.00	0.00	27.56
rs143871568	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	19	21400447	A	G	8264	0.28	0.06	0.00	0.00	19.71
rs11673095	1-myristoyl-2-arachidonoyl-GPC (14:0/20:4) levels	GCST90200078	19	54937011	A	G	8264	-0.30	0.07	0.00	0.00	19.88
rs144650982	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	1	93087446	T	C	8121	0.29	0.06	0.00	0.00	21.48
rs6692986	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	1	199620606	C	G	8121	0.10	0.02	0.00	0.00	21.28
rs780093	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	2	27519736	C	T	8121	-0.07	0.02	0.00	0.00	19.57

rs281584	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	2	132951101	A	G	8121	-0.08	0.02	0.00	0.00	20.25
rs9821572	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	3	132940313	A	G	8121	0.10	0.02	0.00	0.00	21.06
rs13081352	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	3	136222574	A	C	8121	-0.11	0.02	0.00	0.00	19.62
rs14756526 4	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	5	78858900	G	A	8121	0.31	0.07	0.00	0.00	21.43
rs6878680	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	5	156960126	C	G	8121	0.09	0.02	0.00	0.00	30.70
rs3945981	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	6	11011172	A	G	8121	0.08	0.02	0.00	0.00	29.26
rs376024	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	6	13741284	C	T	8121	-0.08	0.02	0.00	0.00	25.59
rs35330527	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	7	73455877	G	A	8121	-0.11	0.02	0.00	0.00	21.99
rs6995233	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	8	26797336	A	G	8121	-0.08	0.02	0.00	0.00	20.43
rs174566	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	11	61824890	G	A	8121	-0.12	0.02	0.00	0.01	57.26
rs78806542	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	11	99712392	A	G	8121	0.15	0.03	0.00	0.00	20.31
rs7930786	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	11	116754011	G	C	8121	-0.23	0.03	0.00	0.01	59.88
rs11046118	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	12	21556884	C	T	8121	0.08	0.02	0.00	0.00	26.62
rs11612976	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	12	120662997	C	T	8121	-0.28	0.06	0.00	0.00	20.50

rs45561232	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	14	20224824	A	T	8121	-0.39	0.09	0.00	0.00	20.39
rs13329231	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	15	40119895	A	G	8121	-0.26	0.05	0.00	0.00	28.14
rs12904367	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	15	58255679	A	G	8121	0.15	0.02	0.00	0.01	43.08
rs1532085	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	15	58391167	G	A	8121	-0.36	0.02	0.00	0.06	525.38
rs1077834	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	15	58431280	C	T	8121	0.37	0.02	0.00	0.05	398.09
rs4559925	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	16	11457123	T	C	8121	-0.08	0.02	0.00	0.00	24.23
rs12605886	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	18	13611534	T	G	8121	-0.10	0.02	0.00	0.00	19.73
rs188016323	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	18	64333701	T	C	8121	-0.35	0.08	0.00	0.00	19.84
rs59007384	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	19	44893408	T	G	8121	0.12	0.02	0.00	0.00	37.58
rs189120560	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	19	46700115	T	A	8121	0.16	0.04	0.00	0.00	20.80
rs146171120	1-oleoyl-2-arachidonoyl-GPE (18:1/20:4) levels	GCST90200079	20	42572567	T	A	8121	-0.34	0.07	0.00	0.00	23.02
rs12402150	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	1	4690207	A	C	8123	-0.19	0.04	0.00	0.00	20.57
rs10493322	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	1	62440222	T	C	8123	-0.11	0.02	0.00	0.01	46.15
rs66639247	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	1	237879178	G	T	8123	-0.10	0.02	0.00	0.00	20.11
rs79673665	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	2	75074628	C	T	8123	0.18	0.04	0.00	0.00	19.68

rs12638256	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	3	142936448	G	A	8123	0.14	0.02	0.00	0.01	84.98
rs2140199	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	4	180872890	C	T	8123	0.14	0.03	0.00	0.00	23.11
rs140033739	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	6	30237375	A	G	8123	-0.16	0.04	0.00	0.00	20.17
rs116371157	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	6	50104186	A	G	8123	-0.32	0.07	0.00	0.00	21.98
rs34866979	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	6	151282655	G	C	8123	-0.38	0.08	0.00	0.00	20.45
rs11155856	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	6	152508040	T	C	8123	-0.20	0.05	0.00	0.00	20.49
rs78031802	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	7	121372215	T	C	8123	-0.36	0.07	0.00	0.00	24.32
rs12544185	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	8	4954542	A	T	8123	-0.08	0.02	0.00	0.00	20.15
rs3133582	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	8	118817232	C	T	8123	0.09	0.02	0.00	0.00	21.58
rs148865451	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	10	103785660	A	G	8123	0.23	0.05	0.00	0.00	19.64
rs16930187	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	11	37266015	T	A	8123	0.08	0.02	0.00	0.00	21.19
rs505431	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	11	59764599	C	T	8123	-0.10	0.02	0.00	0.00	20.15
rs174564	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	11	61820833	G	A	8123	0.11	0.02	0.00	0.01	43.07
rs512273	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	11	96245648	A	G	8123	0.13	0.03	0.00	0.00	21.29
rs116960969	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	13	56379401	G	T	8123	-0.16	0.04	0.00	0.00	21.33
rs9518568	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	13	101812735	T	C	8123	-0.08	0.02	0.00	0.00	22.97
rs10492817	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	16	72224382	T	C	8123	0.36	0.08	0.00	0.00	21.88
rs721635	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	17	12630379	G	C	8123	-0.07	0.02	0.00	0.00	20.58

rs11872886	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	18	49610022	T	C	8123	0.07	0.02	0.00	0.00	22.29
rs19071269 2	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	19	44921921	A	G	8123	0.16	0.03	0.00	0.00	23.68
rs4806498	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	19	54171009	C	T	8123	-0.18	0.02	0.00	0.02	130.44
rs28428726	1-palmitoyl-2-oleoyl-GPI (16:0/18:1) levels	GCST90200080	21	32151998	C	G	8123	0.09	0.02	0.00	0.00	19.80
rs14724880 2	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	1	8217261	T	G	8267	0.25	0.05	0.00	0.00	21.71
rs7555577	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	1	62568692	C	A	8267	0.07	0.02	0.00	0.00	23.02
rs41264055	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	1	159018673	A	G	8267	-0.31	0.07	0.00	0.00	21.97
rs53184357 1	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	1	207967562	A	G	8267	-0.50	0.10	0.00	0.00	23.73
rs34815086	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	1	237125635	G	A	8267	0.10	0.02	0.00	0.00	20.13
rs35773364	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	2	29966874	A	G	8267	-0.07	0.02	0.00	0.00	20.59
rs250944	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	2	234088574	A	G	8267	-0.07	0.02	0.00	0.00	22.19
rs75301218	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	3	75444625	T	C	8267	0.22	0.05	0.00	0.00	22.17
rs14904560 1	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	3	117384007	T	C	8267	-0.18	0.04	0.00	0.00	22.31
rs585021	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	3	124764022	T	C	8267	-0.11	0.02	0.00	0.00	21.85
rs18944532 3	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	4	30688446	A	G	8267	0.24	0.05	0.00	0.00	22.01

rs1874747	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	4	124717825	C	T	8267	-0.08	0.02	0.00	0.00	25.75
rs147466699	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	4	130731200	C	A	8267	-0.29	0.07	0.00	0.00	20.37
rs248672	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	5	6034402	A	T	8267	0.07	0.02	0.00	0.00	19.54
rs35309	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	5	59248822	C	T	8267	0.08	0.02	0.00	0.00	20.03
rs66464172	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	6	10978785	C	T	8267	-0.10	0.01	0.00	0.01	49.41
rs732675	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	6	33908438	T	C	8267	-0.20	0.04	0.00	0.00	21.33
rs9471968	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	6	42937497	G	A	8267	0.07	0.01	0.00	0.00	21.57
rs17145750	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	7	73612048	T	C	8267	-0.11	0.02	0.00	0.00	28.96
rs56222853	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	9	16188773	A	G	8267	-0.08	0.02	0.00	0.00	21.02
rs141097695	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	9	31229953	A	G	8267	-0.21	0.05	0.00	0.00	20.21
rs7098181	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	10	63267383	T	G	8267	0.07	0.01	0.00	0.00	20.56
rs499974	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	11	75743976	A	C	8267	-0.12	0.02	0.00	0.00	34.72
rs78604078	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	11	111447415	A	T	8267	0.18	0.04	0.00	0.00	20.37
rs964184	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	11	116778201	C	G	8267	-0.12	0.02	0.00	0.00	29.97

rs141392338	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	12	116547527	A	G	8267	0.36	0.08	0.00	0.00	20.93
rs72665086	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	14	26157556	T	C	8267	-0.09	0.02	0.00	0.00	19.54
rs7159441	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	14	56208965	G	C	8267	-0.07	0.01	0.00	0.00	19.93
rs78018924	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	16	121835	T	C	8267	-0.08	0.02	0.00	0.00	23.53
rs118123834	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	16	19567933	C	G	8267	-0.40	0.08	0.00	0.00	23.62
rs11871667	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	17	17574533	T	C	8267	-0.09	0.01	0.00	0.00	40.19
rs2304128	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	19	19635342	T	G	8267	-0.17	0.03	0.00	0.00	36.13
rs429358	1-oleoyl-2-docosahexaenoyl-GPC (18:1/22:6) levels	GCST90200081	19	44908684	C	T	8267	0.11	0.02	0.00	0.00	26.42
rs17457343	linoleoyl-GPE (18:1/18:2) levels	GCST90200082	1	87467146	T	C	8205	-0.23	0.05	0.00	0.00	22.70
rs141089920	linoleoyl-GPE (18:1/18:2) levels	GCST90200082	1	161486977	T	C	8205	0.49	0.11	0.00	0.00	19.87
rs55716461	linoleoyl-GPE (18:1/18:2) levels	GCST90200082	1	230296331	T	C	8205	-0.09	0.02	0.00	0.00	21.75
rs77391663	linoleoyl-GPE (18:1/18:2) levels	GCST90200082	2	4814361	A	G	8205	-0.09	0.02	0.00	0.00	20.32
rs6749880	linoleoyl-GPE (18:1/18:2) levels	GCST90200082	2	29792205	A	C	8205	0.20	0.04	0.00	0.00	20.24
rs1915170	linoleoyl-GPE (18:1/18:2) levels	GCST90200082	2	50416281	G	A	8205	-0.10	0.02	0.00	0.00	20.17
rs10180195	linoleoyl-GPE (18:1/18:2) levels	GCST90200082	2	201974592	C	T	8205	0.07	0.02	0.00	0.00	20.59
rs983106	linoleoyl-GPE (18:1/18:2) levels	GCST90200082	3	72600312	T	C	8205	-0.08	0.02	0.00	0.00	19.94

rs139943078	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	4	68650200	T	G	8205	-0.22	0.05	0.00	0.00	21.57
rs114638467	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	5	20392600	C	T	8205	-0.33	0.07	0.00	0.00	20.12
rs11745394	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	5	179679646	T	C	8205	-0.18	0.04	0.00	0.00	20.56
rs77510307	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	6	13345906	T	C	8205	-0.16	0.04	0.00	0.00	20.48
rs4236106	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	6	52635991	C	T	8205	-0.09	0.02	0.00	0.00	21.33
rs7782319	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	7	18883952	G	A	8205	-0.08	0.02	0.00	0.00	21.20
rs7805845	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	7	29792341	C	G	8205	0.07	0.02	0.00	0.00	20.35
rs74968089	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	7	38855142	A	G	8205	0.17	0.04	0.00	0.00	20.21
rs829705	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	9	24229979	C	T	8205	-0.07	0.02	0.00	0.00	21.04
rs111827738	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	10	119488714	C	T	8205	0.15	0.03	0.00	0.00	20.96
rs174546	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	11	61802358	T	C	8205	0.40	0.02	0.00	0.07	633.88
rs72941170	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	11	80576692	C	G	8205	-0.10	0.02	0.00	0.00	21.12
rs964184	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	11	116778201	C	G	8205	-0.12	0.02	0.00	0.00	27.93
rs73018280	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	11	122751418	A	G	8205	0.32	0.07	0.00	0.00	19.92
rs77660324	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	12	132576118	C	T	8205	-0.39	0.09	0.00	0.00	20.64
rs61949546	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	13	56609230	A	C	8205	-0.14	0.03	0.00	0.00	20.21
rs230722	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	14	64851155	G	T	8205	0.28	0.06	0.00	0.00	26.03
rs2180795	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	14	93771153	T	C	8205	-0.18	0.04	0.00	0.00	23.65

rs10162642	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	15	58284964	A	G	8205	-0.12	0.02	0.00	0.00	39.82
rs261290	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	15	58386521	C	T	8205	-0.25	0.02	0.00	0.03	222.59
rs488490	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	15	58445462	A	C	8205	-0.24	0.02	0.00	0.01	119.23
rs12928099	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	16	15056648	A	C	8205	-0.09	0.02	0.00	0.00	28.20
rs117112830	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	17	14947416	G	A	8205	-0.19	0.04	0.00	0.00	19.62
rs77073981	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	19	23053170	G	A	8205	0.24	0.05	0.00	0.00	20.60
rs483082	1-oleoyl-2-linoleoyl-GPE (18:1/18:2) levels	GCST90200082	19	44912921	T	G	8205	0.10	0.02	0.00	0.00	30.90
rs4528097	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	1	166069558	C	G	8266	0.14	0.03	0.00	0.00	25.90
rs10800887	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	1	202955808	C	T	8266	0.07	0.02	0.00	0.00	21.94
rs1260338	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	2	27402794	G	A	8266	0.09	0.02	0.00	0.00	32.50
rs112774387	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	2	100140656	G	A	8266	-0.31	0.07	0.00	0.00	20.51
rs11725288	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	4	57284038	T	C	8266	-0.10	0.02	0.00	0.00	19.87
rs2254408	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	5	1442859	A	C	8266	0.08	0.02	0.00	0.00	25.73
rs55959162	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	5	2759487	G	T	8266	-0.12	0.02	0.00	0.00	24.44
rs10463719	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	5	119587608	A	G	8266	0.08	0.02	0.00	0.00	22.45
rs13179609	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	5	125172154	A	C	8266	-0.07	0.02	0.00	0.00	20.65

rs111513209	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	5	148571904	C	A	8266	-0.26	0.06	0.00	0.00	19.71
rs35657538	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	5	176578194	T	G	8266	-0.18	0.04	0.00	0.00	21.55
rs115179317	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	6	47476569	C	A	8266	0.26	0.05	0.00	0.00	25.42
rs113965222	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	6	95536861	T	A	8266	0.17	0.04	0.00	0.00	21.15
rs1146040	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	7	40718068	A	G	8266	-0.08	0.02	0.00	0.00	21.55
rs10275265	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	7	52510325	A	T	8266	-0.07	0.02	0.00	0.00	20.25
rs62481805	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	7	147083329	C	T	8266	0.18	0.04	0.00	0.00	20.08
rs12544703	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	8	58397865	G	A	8266	-0.11	0.02	0.00	0.00	32.00
rs3018938	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	8	106862336	G	C	8266	-0.07	0.02	0.00	0.00	19.60
rs112420075	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	10	25497213	T	A	8266	0.27	0.06	0.00	0.00	19.86
rs191264013	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	10	53696440	A	G	8266	0.27	0.06	0.00	0.00	20.07
rs2068888	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	10	93079885	A	G	8266	0.07	0.02	0.00	0.00	22.79
rs55808498	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	10	114989023	T	C	8266	-0.36	0.08	0.00	0.00	20.61
rs102275	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	11	61790331	C	T	8266	-0.17	0.02	0.00	0.01	109.29

rs4372543	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	12	32206685	G	C	8266	-0.08	0.02	0.00	0.00	23.40
rs35831868	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	12	57626577	G	A	8266	0.08	0.02	0.00	0.00	19.75
rs1077989	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	14	67509105	C	A	8266	-0.36	0.01	0.00	0.06	568.71
rs10144151	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	14	67586542	G	T	8266	-0.10	0.02	0.00	0.00	25.81
rs174418	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	15	58395404	C	T	8266	-0.11	0.02	0.00	0.01	46.20
rs2070895	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	15	58431740	A	G	8266	0.11	0.02	0.00	0.00	31.78
rs138733313	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	15	92941697	T	G	8266	-0.39	0.09	0.00	0.00	20.67
rs12149545	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	16	56959249	A	G	8266	0.14	0.02	0.00	0.01	77.43
rs141634832	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	18	15322801	C	T	8266	-0.28	0.06	0.00	0.00	20.25
rs11665175	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	18	44777095	A	C	8266	-0.09	0.02	0.00	0.00	23.66
rs117462679	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	19	55884699	C	T	8266	0.29	0.06	0.00	0.00	22.33
rs310643	1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0) 1-(1-enyl-palmitoyl)-2-palmitoyl-GPC (P-16:0/16:0)	GCST90200083	20	63530360	T	C	8266	-0.13	0.03	0.00	0.00	20.09
rs9659196	Oleoylcholine levels	GCST90200084	1	119665492	A	C	8120	-0.09	0.02	0.00	0.00	20.11
rs74814187	Oleoylcholine levels	GCST90200084	1	177105662	T	C	8120	0.16	0.03	0.00	0.00	21.80
rs6747405	Oleoylcholine levels	GCST90200084	2	211709893	C	A	8120	-0.10	0.02	0.00	0.00	19.52
rs113706697	Oleoylcholine levels	GCST90200084	3	113600228	C	T	8120	0.30	0.07	0.00	0.00	19.58
rs114299311	Oleoylcholine levels	GCST90200084	6	41568508	G	A	8120	-0.17	0.04	0.00	0.00	20.19
rs1492636	Oleoylcholine levels	GCST90200084	8	19697887	T	C	8120	-0.07	0.02	0.00	0.00	20.44
rs76646064	Oleoylcholine levels	GCST90200084	8	57529930	G	A	8120	-0.15	0.03	0.00	0.00	20.97

rs72745600	Oleoylcholine levels	GCST90200084	9	81569783	A	G	8120	-0.16	0.04	0.00	0.00	20.65
rs80072072	Oleoylcholine levels	GCST90200084	9	82957249	A	G	8120	-0.38	0.09	0.00	0.00	19.77
rs34075683	Oleoylcholine levels	GCST90200084	9	113940486	G	T	8120	0.09	0.02	0.00	0.00	26.68
rs2016129	Oleoylcholine levels	GCST90200084	10	28999366	T	C	8120	0.14	0.03	0.00	0.00	20.68
rs14176782	Oleoylcholine levels	GCST90200084	11	122733590	G	A	8120	0.26	0.05	0.00	0.00	23.39
rs112526079	Oleoylcholine levels	GCST90200084	12	27560832	C	T	8120	-0.30	0.07	0.00	0.00	19.74
rs1555942	Oleoylcholine levels	GCST90200084	14	68172250	A	T	8120	0.20	0.04	0.00	0.00	22.38
rs1437468	Oleoylcholine levels	GCST90200084	15	59840593	C	A	8120	0.21	0.04	0.00	0.00	25.71
rs16971219	Oleoylcholine levels	GCST90200084	16	21199718	T	C	8120	-0.31	0.06	0.00	0.00	25.12
rs116934369	Oleoylcholine levels	GCST90200084	17	1658986	A	G	8120	0.30	0.07	0.00	0.00	19.99
rs11658622	Oleoylcholine levels	GCST90200084	17	74729725	A	C	8120	0.09	0.02	0.00	0.00	19.77
rs3746429	Oleoylcholine levels	GCST90200084	20	35115804	T	C	8120	-0.10	0.02	0.00	0.00	20.94
rs138407808	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	1	22149053	T	C	8245	0.28	0.06	0.00	0.00	20.16
rs12021758	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	1	54321376	C	T	8245	-0.09	0.02	0.00	0.00	24.40
rs72832604	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	2	122417687	T	C	8245	0.17	0.04	0.00	0.00	19.82
rs41342544	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	2	168363957	C	T	8245	-0.12	0.02	0.00	0.01	42.62
rs9813179	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	3	11673011	T	C	8245	0.16	0.03	0.00	0.00	23.70
rs7659411	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	4	47411104	T	C	8245	0.12	0.02	0.00	0.01	53.03
rs35818294	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	4	47543124	A	C	8245	0.33	0.02	0.00	0.03	270.87
rs11736427	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	4	48037885	T	A	8245	0.09	0.02	0.00	0.00	29.48
rs142841238	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	5	154181854	T	G	8245	0.22	0.05	0.00	0.00	20.39
rs149902168	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	6	32614984	C	A	8245	-0.24	0.05	0.00	0.00	21.09

rs897737	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	8	58394244	C	G	8245	-0.11	0.02	0.00	0.00	20.31
rs117779137	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	9	8329348	T	C	8245	0.21	0.04	0.00	0.00	29.93
rs117224859	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	11	131806668	C	G	8245	-0.26	0.06	0.00	0.00	21.36
rs150293420	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	12	24991825	A	C	8245	0.22	0.05	0.00	0.00	19.77
rs9592030	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	13	60279972	A	G	8245	-0.10	0.02	0.00	0.00	23.61
rs112319066	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	13	104860727	C	G	8245	-0.27	0.06	0.00	0.00	23.66
rs11070646	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	15	48641624	G	C	8245	-0.10	0.02	0.00	0.00	20.94
rs147739488	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	16	28112089	A	G	8245	0.30	0.06	0.00	0.00	21.41
rs7191805	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	16	65221248	G	A	8245	-0.07	0.02	0.00	0.00	22.23
rs9930727	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	16	83593215	T	C	8245	-0.08	0.02	0.00	0.00	21.79
rs12604329	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	18	37476868	C	T	8245	0.09	0.02	0.00	0.00	19.63
rs2206498	Glycosyl-N-palmitoyl-sphingosine (d18:1/16:0) levels	GCST90200085	20	16984757	C	T	8245	0.12	0.03	0.00	0.00	19.72
rs11185279	Arachidonoylc holine levels	GCST90200086	1	108129839	G	A	8170	0.07	0.02	0.00	0.00	19.84
rs7718402	Arachidonoylc holine levels	GCST90200086	5	4678174	T	C	8170	-0.12	0.03	0.00	0.00	21.86
rs154447	Arachidonoylc holine levels	GCST90200086	5	95862548	A	G	8170	0.07	0.02	0.00	0.00	19.64
rs3914025	Arachidonoylc holine levels	GCST90200086	5	132017592	T	C	8170	0.07	0.02	0.00	0.00	19.96
rs55749434	Arachidonoylc holine levels	GCST90200086	6	150205437	A	C	8170	-0.25	0.06	0.00	0.00	19.86
rs7785866	Arachidonoylc holine levels	GCST90200086	7	36752959	A	G	8170	0.09	0.02	0.00	0.00	19.53
rs74739396	Arachidonoylc holine levels	GCST90200086	7	101999557	A	C	8170	-0.27	0.06	0.00	0.00	19.85

rs56980477	Arachidonoylc holine levels	GCST90200086	9	26451683	C	G	8170	0.28	0.06	0.00	0.00	20.88
rs99780	Arachidonoylc holine levels	GCST90200086	11	61829161	T	C	8170	-0.19	0.02	0.00	0.02	143.98
rs12792825	Arachidonoylc holine levels	GCST90200086	11	83743835	A	G	8170	0.16	0.03	0.00	0.00	21.36
rs14176782 1	Arachidonoylc holine levels	GCST90200086	11	122733590	G	A	8170	0.29	0.05	0.00	0.00	28.78
rs7331503	Arachidonoylc holine levels	GCST90200086	13	77603467	A	G	8170	-0.10	0.02	0.00	0.00	23.09
rs1555942	Arachidonoylc holine levels	GCST90200086	14	68172250	A	T	8170	0.20	0.04	0.00	0.00	22.04
rs776696	Arachidonoylc holine levels	GCST90200086	15	42057149	G	A	8170	-0.09	0.02	0.00	0.00	20.70
rs1437468	Arachidonoylc holine levels	GCST90200086	15	59840593	C	A	8170	0.19	0.04	0.00	0.00	20.66
rs3743470	Arachidonoylc holine levels	GCST90200086	15	92882311	T	C	8170	0.09	0.02	0.00	0.00	25.09
rs16971219	Arachidonoylc holine levels	GCST90200086	16	21199718	T	C	8170	-0.32	0.06	0.00	0.00	27.24
rs6120825	Arachidonoylc holine levels	GCST90200086	20	35083338	C	A	8170	-0.09	0.02	0.00	0.00	23.37
rs71329908	Arachidonoylc holine levels	GCST90200086	21	23280967	G	T	8170	-0.21	0.05	0.00	0.00	20.79
rs78392693	2-methylserine levels	GCST90200087	1	56717638	G	T	7722	-0.25	0.06	0.00	0.00	20.24
rs79079497	2-methylserine levels	GCST90200087	1	84088322	T	C	7722	-1.67	0.37	0.00	0.00	20.24
rs79106678	2-methylserine levels	GCST90200087	1	213551536	G	A	7722	0.33	0.07	0.00	0.00	19.58
rs7560509	2-methylserine levels	GCST90200087	2	48713490	C	A	7722	-0.19	0.04	0.00	0.00	20.54
rs71626890	2-methylserine levels	GCST90200087	3	85734934	A	C	7722	0.09	0.02	0.00	0.00	23.79
rs14547614 7	2-methylserine levels	GCST90200087	3	192816704	G	A	7722	-0.37	0.08	0.00	0.00	20.56
rs11527705 7	2-methylserine levels	GCST90200087	4	68035154	T	C	7722	-0.42	0.09	0.00	0.00	23.15
rs18340042 7	2-methylserine levels	GCST90200087	5	98015531	G	A	7722	0.47	0.10	0.00	0.00	23.83
rs14457261 3	2-methylserine levels	GCST90200087	5	147165476	T	G	7722	0.38	0.08	0.00	0.00	24.21
rs4704764	2-methylserine levels	GCST90200087	5	157971209	T	C	7722	0.08	0.02	0.00	0.00	23.74
rs14190868 0	2-methylserine levels	GCST90200087	6	24406590	G	A	7722	-0.37	0.07	0.00	0.00	24.06
rs11755051	2-methylserine levels	GCST90200087	6	73297152	T	C	7722	-0.15	0.03	0.00	0.00	20.15
rs12206384	2-methylserine levels	GCST90200087	6	93353191	G	A	7722	0.17	0.03	0.00	0.00	27.26
rs14662819 1	2-methylserine levels	GCST90200087	7	150785600	A	G	7722	0.20	0.04	0.00	0.00	19.92
rs73505847	2-methylserine levels	GCST90200087	8	4897035	T	A	7722	0.25	0.06	0.00	0.00	20.22
rs35715593	2-methylserine levels	GCST90200087	8	132514685	T	C	7722	-0.07	0.02	0.00	0.00	20.70
rs35922489	2-methylserine levels	GCST90200087	9	87562945	T	G	7722	-0.25	0.05	0.00	0.00	24.23
rs76689584	2-methylserine levels	GCST90200087	10	93985771	G	T	7722	0.18	0.04	0.00	0.00	21.56
rs7948546	2-methylserine levels	GCST90200087	11	69615226	T	C	7722	0.08	0.02	0.00	0.00	19.82
rs11212752	2-methylserine levels	GCST90200087	11	97794057	C	T	7722	-0.09	0.02	0.00	0.00	19.69
rs53155024 3	2-methylserine levels	GCST90200087	12	43474393	T	C	7722	-0.35	0.08	0.00	0.00	20.36
rs11731820 3	2-methylserine levels	GCST90200087	13	88360022	C	T	7722	-0.19	0.04	0.00	0.00	22.72
rs4982419	2-methylserine levels	GCST90200087	14	21155677	A	G	7722	-0.09	0.02	0.00	0.00	22.13
rs14620558 9	2-methylserine levels	GCST90200087	14	65164671	A	G	7722	-0.26	0.06	0.00	0.00	22.12
rs12915700	2-methylserine levels	GCST90200087	15	94562941	A	G	7722	0.16	0.03	0.00	0.00	23.39

rs9904926	2-methylserine levels (S)-3-	GCST90200087	17	14098472	A	G	7722	-0.10	0.02	0.00	0.00	22.57
rs7541058	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	1	75734132	T	C	8249	0.15	0.02	0.00	0.01	101.53
rs12126156	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	1	201805081	A	T	8249	-0.07	0.01	0.00	0.00	19.74
rs18236746 7	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	2	47690799	C	T	8249	0.20	0.04	0.00	0.00	20.65
rs28884498	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	5	9635774	A	G	8249	0.20	0.05	0.00	0.00	19.92
rs71583465	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	5	132258935	C	G	8249	-0.07	0.02	0.00	0.00	20.51
rs13209735	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	6	9553087	T	G	8249	0.90	0.20	0.00	0.00	20.75
rs77048140	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	6	74753145	C	A	8249	0.33	0.07	0.00	0.00	19.91
rs9320712	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	6	119798808	A	G	8249	0.14	0.03	0.00	0.00	25.87
rs11793882 7	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	6	149582680	G	A	8249	0.28	0.06	0.00	0.00	21.49
rs35890527	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	7	55633221	A	G	8249	0.08	0.02	0.00	0.00	23.57
rs2868547	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	7	68557527	G	C	8249	0.09	0.02	0.00	0.00	19.89
rs13263087	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	8	132983214	A	G	8249	0.11	0.02	0.00	0.00	22.29
rs3750389	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	9	86079264	T	G	8249	-0.11	0.02	0.00	0.00	20.87
rs1171615	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	10	59709332	T	C	8249	0.17	0.02	0.00	0.01	91.68
rs16927332	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	10	70115989	T	C	8249	0.16	0.04	0.00	0.00	20.21
rs75673453	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	12	118551987	A	G	8249	0.15	0.03	0.00	0.00	23.83
rs2781423	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	14	97527817	C	G	8249	0.08	0.02	0.00	0.00	22.93
rs11073185	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	15	29686888	A	C	8249	-0.11	0.02	0.00	0.00	23.18
rs4886485	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	15	76239179	C	A	8249	0.08	0.01	0.00	0.00	29.23
rs73959582	hydroxybutyr ylcarnitine (S)-3-	GCST90200088	18	49622516	C	T	8249	0.12	0.03	0.00	0.00	21.63
rs2409413	hydroxybutyr ylcarnitine	GCST90200088	21	31548493	G	T	8249	-0.07	0.02	0.00	0.00	22.13
rs1799822	Methylsuccino ylcarnitine	GCST90200089	1	53213557	G	A	8004	-0.31	0.02	0.00	0.04	292.86
rs5174	Methylsuccino ylcarnitine	GCST90200089	1	53247055	T	C	8004	0.14	0.02	0.00	0.01	76.94
rs55724377	Methylsuccino ylcarnitine	GCST90200089	1	147401253	T	C	8004	0.08	0.02	0.00	0.00	20.77
rs1375318	Methylsuccino ylcarnitine	GCST90200089	2	167710394	C	T	8004	-0.07	0.02	0.00	0.00	20.37

rs80085952	Methylsuccinoylcarnitine	GCST90200089	2	169414260	G	A	8004	-0.32	0.06	0.00	0.00	25.49
rs73046246	Methylsuccinoylcarnitine	GCST90200089	3	21718059	G	T	8004	0.20	0.05	0.00	0.00	19.52
rs61733800	Methylsuccinoylcarnitine	GCST90200089	3	40487056	A	G	8004	0.32	0.07	0.00	0.00	20.38
rs35494829	Methylsuccinoylcarnitine	GCST90200089	3	67375857	C	T	8004	-0.12	0.02	0.00	0.00	27.13
rs79416917	Methylsuccinoylcarnitine	GCST90200089	3	186862082	T	C	8004	-0.11	0.02	0.00	0.00	19.53
rs1230158	Methylsuccinoylcarnitine	GCST90200089	4	99069035	C	T	8004	0.07	0.02	0.00	0.00	20.06
rs28435958	Methylsuccinoylcarnitine	GCST90200089	4	115515797	A	G	8004	-0.07	0.02	0.00	0.00	21.28
rs3909397	Methylsuccinoylcarnitine	GCST90200089	5	129055536	G	A	8004	-0.21	0.04	0.00	0.00	26.20
rs9471031	Methylsuccinoylcarnitine	GCST90200089	6	39259179	C	G	8004	-0.08	0.02	0.00	0.00	22.56
rs12195358	Methylsuccinoylcarnitine	GCST90200089	6	88929938	C	A	8004	0.25	0.05	0.00	0.00	21.90
rs12208357	Methylsuccinoylcarnitine	GCST90200089	6	160122116	T	C	8004	0.24	0.03	0.00	0.01	63.62
rs11753995	Methylsuccinoylcarnitine	GCST90200089	6	160154334	A	G	8004	0.17	0.02	0.00	0.01	66.52
rs817753	Methylsuccinoylcarnitine	GCST90200089	7	98570774	C	T	8004	-0.12	0.03	0.00	0.00	21.30
rs140843517	Methylsuccinoylcarnitine	GCST90200089	10	19693762	C	T	8004	-0.21	0.05	0.00	0.00	19.79
rs1171615	Methylsuccinoylcarnitine	GCST90200089	10	59709332	T	C	8004	0.10	0.02	0.00	0.00	31.69
rs149173970	Methylsuccinoylcarnitine	GCST90200089	11	58224631	C	T	8004	-0.33	0.07	0.00	0.00	19.61
rs77413249	Methylsuccinoylcarnitine	GCST90200089	11	63403821	C	A	8004	0.21	0.05	0.00	0.00	21.30
rs10893059	Methylsuccinoylcarnitine	GCST90200089	11	123663604	C	T	8004	0.08	0.02	0.00	0.00	20.81
rs1799958	Methylsuccinoylcarnitine	GCST90200089	12	120738280	A	G	8004	0.32	0.02	0.00	0.04	361.69
rs2874718	Methylsuccinoylcarnitine	GCST90200089	13	34476260	G	T	8004	0.11	0.02	0.00	0.00	23.12
rs1408928	Methylsuccinoylcarnitine	GCST90200089	13	75406334	G	C	8004	0.09	0.02	0.00	0.00	20.96
rs1958589	Methylsuccinoylcarnitine	GCST90200089	14	34375170	C	T	8004	0.10	0.02	0.00	0.00	19.88
rs11649804	Methylsuccinoylcarnitine	GCST90200089	17	17793441	A	C	8004	-0.08	0.02	0.00	0.00	21.07
rs7243392	Methylsuccinoylcarnitine	GCST90200089	18	51923175	G	A	8004	0.16	0.03	0.00	0.00	21.83
rs6124830	Methylsuccinoylcarnitine	GCST90200089	20	46608139	C	T	8004	-0.19	0.02	0.00	0.01	89.27
rs55884272	Methylsuccinoylcarnitine	GCST90200089	22	47143943	A	G	8004	0.08	0.02	0.00	0.00	22.85
rs77170495	linolenoyl-choline levels	GCST90200090	1	111847338	A	G	6954	-0.26	0.06	0.00	0.00	21.85
rs74814187	linolenoyl-choline levels	GCST90200090	1	177105662	T	C	6954	0.17	0.04	0.00	0.00	22.16
rs696593	linolenoyl-choline levels	GCST90200090	2	45706362	C	G	6954	0.09	0.02	0.00	0.00	20.49
rs78833617	linolenoyl-choline levels	GCST90200090	2	63805607	T	A	6954	-0.09	0.02	0.00	0.00	21.69
rs1047891	linolenoyl-choline levels	GCST90200090	2	210675783	A	C	6954	-0.10	0.02	0.00	0.00	29.28
rs72617195	linolenoyl-choline levels	GCST90200090	2	234775130	A	G	6954	0.15	0.03	0.00	0.00	22.42
rs17226693	linolenoyl-choline levels	GCST90200090	3	26871093	C	T	6954	0.20	0.04	0.00	0.00	21.25

rs12501880	Dihomo- linolenoyl- choline levels	GCST90200090	4	9716351	T	C	6954	-0.08	0.02	0.00	0.00	20.75
rs14836275 4	Dihomo- linolenoyl- choline levels	GCST90200090	4	180133072	A	G	6954	-0.36	0.08	0.00	0.00	21.86
rs339067	Dihomo- linolenoyl- choline levels	GCST90200090	7	128730139	G	A	6954	0.10	0.02	0.00	0.00	22.38
rs1676936	Dihomo- linolenoyl- choline levels	GCST90200090	8	4740123	C	A	6954	-0.11	0.03	0.00	0.00	20.15
rs16918586	Dihomo- linolenoyl- choline levels	GCST90200090	8	97183626	T	C	6954	0.12	0.03	0.00	0.00	20.07
rs9642893	Dihomo- linolenoyl- choline levels	GCST90200090	8	130538711	A	T	6954	-0.12	0.02	0.00	0.00	22.39
rs1543714	Dihomo- linolenoyl- choline levels	GCST90200090	9	13520225	A	G	6954	0.09	0.02	0.00	0.00	20.28
rs11258289	Dihomo- linolenoyl- choline levels	GCST90200090	10	13246802	C	G	6954	0.17	0.04	0.00	0.00	21.01
rs10827292	Dihomo- linolenoyl- choline levels	GCST90200090	10	33816426	C	T	6954	-0.08	0.02	0.00	0.00	20.34
rs61897795	Dihomo- linolenoyl- choline levels	GCST90200090	11	61850697	G	A	6954	0.12	0.02	0.00	0.00	26.21
rs14176782 1	Dihomo- linolenoyl- choline levels	GCST90200090	11	122733590	G	A	6954	0.26	0.06	0.00	0.00	20.43
rs35852777	Dihomo- linolenoyl- choline levels	GCST90200090	12	130912400	A	C	6954	-0.29	0.06	0.00	0.00	22.52
rs9565358	Dihomo- linolenoyl- choline levels	GCST90200090	13	77605763	C	T	6954	-0.10	0.02	0.00	0.00	20.38
rs13809766 4	Dihomo- linolenoyl- choline levels	GCST90200090	14	100904755	A	G	6954	0.27	0.06	0.00	0.00	21.28
rs2229691	Dihomo- linolenoyl- choline levels	GCST90200090	15	40296801	G	A	6954	0.10	0.02	0.00	0.00	24.04
rs76172202	Dihomo- linolenoyl- choline levels	GCST90200090	15	95288137	A	G	6954	-0.39	0.09	0.00	0.00	19.64
rs4985149	Dihomo- linolenoyl- choline levels	GCST90200090	16	15053481	T	A	6954	-0.09	0.02	0.00	0.00	26.21
rs11256030 6	Dihomo- linolenoyl- choline levels	GCST90200090	16	47230893	T	C	6954	-0.47	0.10	0.00	0.00	21.68
rs77895405	Dihomo- linolenoyl- choline levels	GCST90200090	20	19067434	G	A	6954	-0.18	0.04	0.00	0.00	21.40
rs2829594	Dihomo- linolenoyl- choline levels	GCST90200090	21	25170660	A	T	6954	0.12	0.03	0.00	0.00	20.78
rs12121447	Docosahexaen oylcholine levels	GCST90200091	1	119674348	T	C	7440	-0.11	0.02	0.00	0.00	21.72
rs2054120	Docosahexaen oylcholine levels	GCST90200091	2	63684682	A	G	7440	-0.09	0.02	0.00	0.00	22.50
rs13032126	Docosahexaen oylcholine levels	GCST90200091	2	233199924	A	T	7440	-0.20	0.04	0.00	0.00	19.89
rs17608675	Docosahexaen oylcholine levels	GCST90200091	5	157913764	T	C	7440	0.07	0.02	0.00	0.00	19.91

rs869405	Docosahexaen oylcholine levels	GCST90200091	5	178483929	T	C	7440	-0.30	0.06	0.00	0.00	20.68
rs9461383	Docosahexaen oylcholine levels	GCST90200091	6	10969563	G	A	7440	-0.08	0.02	0.00	0.00	22.52
rs17426755	Docosahexaen oylcholine levels	GCST90200091	7	15808085	A	T	7440	-0.21	0.04	0.00	0.00	23.29
rs73688611	Docosahexaen oylcholine levels	GCST90200091	8	84847131	T	C	7440	-0.11	0.02	0.00	0.00	21.02
rs74704440	Docosahexaen oylcholine levels	GCST90200091	8	91212965	T	C	7440	-0.25	0.05	0.00	0.00	21.21
rs53717812 7	Docosahexaen oylcholine levels	GCST90200091	9	38551720	A	G	7440	0.38	0.08	0.00	0.00	21.48
rs11397116 4	Docosahexaen oylcholine levels	GCST90200091	10	28988383	T	C	7440	0.12	0.03	0.00	0.00	20.46
rs18512119 3	Docosahexaen oylcholine levels	GCST90200091	10	81983982	C	G	7440	0.28	0.06	0.00	0.00	20.89
rs72970471	Docosahexaen oylcholine levels	GCST90200091	11	88418627	A	G	7440	-0.20	0.04	0.00	0.00	20.19
rs14932080 5	Docosahexaen oylcholine levels	GCST90200091	11	102474058	A	G	7440	0.39	0.09	0.00	0.00	20.39
rs1437468	Docosahexaen oylcholine levels	GCST90200091	15	59840593	C	A	7440	0.22	0.04	0.00	0.00	27.02
rs11256030 6	Docosahexaen oylcholine levels	GCST90200091	16	47230893	T	C	7440	-0.43	0.10	0.00	0.00	19.98
rs1942333	Docosahexaen oylcholine levels	GCST90200091	18	57116159	C	T	7440	0.08	0.02	0.00	0.00	19.61
rs11880992	Docosahexaen oylcholine levels	GCST90200091	19	2176404	A	G	7440	-0.07	0.02	0.00	0.00	20.52
rs12480856	Docosahexaen oylcholine levels	GCST90200091	20	19059339	T	C	7440	-0.17	0.04	0.00	0.00	21.70
rs74580783	Docosahexaen oylcholine levels	GCST90200091	20	61972665	G	T	7440	-0.28	0.06	0.00	0.00	22.13
rs4074963	Glycocholate glucuronide (1) levels	GCST90200092	1	7045255	C	G	4381	0.10	0.02	0.00	0.00	19.65
rs1424692	Glycocholate glucuronide (1) levels	GCST90200092	2	27401132	A	C	4381	-0.41	0.08	0.00	0.01	24.04
rs4849135	Glycocholate glucuronide (1) levels	GCST90200092	2	110857502	G	T	4381	0.11	0.02	0.00	0.00	20.17
rs76295700	Glycocholate glucuronide (1) levels	GCST90200092	2	174628042	A	G	4381	0.46	0.10	0.00	0.00	20.35
rs2596930	Glycocholate glucuronide (1) levels	GCST90200092	3	9340310	T	C	4381	0.19	0.04	0.00	0.00	19.59
rs79157883	Glycocholate glucuronide (1) levels	GCST90200092	3	71747541	G	A	4381	0.41	0.08	0.00	0.01	26.32
rs4437279	Glycocholate glucuronide (1) levels	GCST90200092	4	145741134	C	T	4381	-0.11	0.03	0.00	0.00	19.76
rs6827352	Glycocholate glucuronide (1) levels	GCST90200092	4	181432992	A	C	4381	-0.11	0.02	0.00	0.00	20.87

rs7705570	Glycocholate glucuronide (1) levels	GCST90200092	5	79739908	G	A	4381	0.11	0.03	0.00	0.00	19.74
rs78972276	Glycocholate glucuronide (1) levels	GCST90200092	5	121333483	C	T	4381	0.31	0.07	0.00	0.01	22.10
rs1038160	Glycocholate glucuronide (1) levels	GCST90200092	8	89325712	C	T	4381	-0.11	0.02	0.00	0.01	22.99
rs35769796	Glycocholate glucuronide (1) levels	GCST90200092	10	26014785	A	C	4381	0.10	0.02	0.00	0.00	19.97
rs61876778	Glycocholate glucuronide (1) levels	GCST90200092	11	6424992	C	T	4381	0.35	0.08	0.00	0.00	19.97
rs11061837	Glycocholate glucuronide (1) levels	GCST90200092	12	1542407	T	C	4381	0.17	0.04	0.00	0.01	23.04
rs73154142	Glycocholate glucuronide (1) levels	GCST90200092	13	20098883	A	C	4381	0.45	0.09	0.00	0.01	24.10
rs55953622	Glycocholate glucuronide (1) levels	GCST90200092	13	96493354	A	T	4381	-0.41	0.09	0.00	0.00	20.57
rs19136602 3	Glycocholate glucuronide (1) levels	GCST90200092	13	97236131	T	A	4381	0.65	0.14	0.00	0.00	20.21
rs10150725	Glycocholate glucuronide (1) levels	GCST90200092	14	89196908	G	C	4381	-0.12	0.03	0.00	0.00	21.25
rs56076928	Glycocholate glucuronide (1) levels	GCST90200092	15	37894700	A	G	4381	0.33	0.07	0.00	0.00	20.31
rs71375686	Glycocholate glucuronide (1) levels	GCST90200092	16	25101180	C	T	4381	-0.17	0.04	0.00	0.00	20.00
rs14122946 3	Glycocholate glucuronide (1) levels	GCST90200092	17	74370231	T	A	4381	-0.39	0.08	0.00	0.01	22.98
rs76531193	Glycocholate glucuronide (1) levels	GCST90200092	19	47857434	A	T	4381	-0.14	0.03	0.00	0.00	21.53
rs13044046	Glycocholate glucuronide (1) levels	GCST90200092	20	11584916	A	G	4381	-0.10	0.02	0.00	0.00	19.72
rs61775592	Caffeic acid sulfate levels	GCST90200093	1	11000831	C	A	7798	-0.10	0.02	0.00	0.00	23.26
rs12406825	Caffeic acid sulfate levels	GCST90200093	1	232372069	A	T	7798	0.11	0.02	0.00	0.00	22.41
rs35853900	Caffeic acid sulfate levels	GCST90200093	3	62133306	A	G	7798	-0.09	0.02	0.00	0.00	21.21
rs4681361	Caffeic acid sulfate levels	GCST90200093	3	152983627	G	T	7798	-0.08	0.02	0.00	0.00	21.32
rs11595139 0	Caffeic acid sulfate levels	GCST90200093	4	1203167	A	G	7798	0.39	0.09	0.00	0.00	20.89
rs6851994	Caffeic acid sulfate levels	GCST90200093	4	25014448	C	G	7798	-0.08	0.02	0.00	0.00	19.63
rs6855612	Caffeic acid sulfate levels	GCST90200093	4	40558419	T	C	7798	-0.19	0.04	0.00	0.00	20.12
rs11400206 4	Caffeic acid sulfate levels	GCST90200093	4	54359158	T	G	7798	0.20	0.05	0.00	0.00	19.65
rs1383585	Caffeic acid sulfate levels	GCST90200093	4	88098583	G	A	7798	0.15	0.03	0.00	0.00	31.57
rs11162572 6	Caffeic acid sulfate levels	GCST90200093	4	88169202	C	T	7798	-0.08	0.02	0.00	0.00	21.79
rs13138670	Caffeic acid sulfate levels	GCST90200093	4	141822064	A	G	7798	0.19	0.04	0.00	0.00	20.47
rs12186131	Caffeic acid sulfate levels	GCST90200093	4	189146349	T	G	7798	-0.09	0.02	0.00	0.00	21.16
rs11133857	Caffeic acid sulfate levels	GCST90200093	5	16737404	A	G	7798	0.10	0.02	0.00	0.00	21.23
rs14474573 4	Caffeic acid sulfate levels	GCST90200093	5	148559962	G	C	7798	0.33	0.07	0.00	0.00	20.93

rs149899050	Caffeic acid sulfate levels	GCST90200093	5	170746768	A	G	7798	-0.52	0.10	0.00	0.00	24.63
rs1165178	Caffeic acid sulfate levels	GCST90200093	6	25827288	G	A	7798	-0.09	0.02	0.00	0.00	29.96
rs983314	Caffeic acid sulfate levels	GCST90200093	7	8969651	G	A	7798	-0.10	0.02	0.00	0.00	21.14
rs145162581	Caffeic acid sulfate levels	GCST90200093	7	45575661	T	C	7798	-0.41	0.09	0.00	0.00	19.76
rs74380234	Caffeic acid sulfate levels	GCST90200093	10	127100403	A	G	7798	0.17	0.04	0.00	0.00	22.36
rs148694269	Caffeic acid sulfate levels	GCST90200093	11	101232875	A	G	7798	0.40	0.08	0.00	0.00	22.51
rs138282813	Caffeic acid sulfate levels	GCST90200093	12	99099374	C	G	7798	0.20	0.04	0.00	0.00	22.18
rs141893666	Caffeic acid sulfate levels	GCST90200093	14	39323469	G	A	7798	0.34	0.07	0.00	0.00	21.72
rs17106421	Caffeic acid sulfate levels	GCST90200093	14	68867839	G	C	7798	-0.17	0.04	0.00	0.00	23.54
rs16961362	Caffeic acid sulfate levels	GCST90200093	15	35652405	A	G	7798	0.31	0.07	0.00	0.00	19.84
rs117568059	Caffeic acid sulfate levels	GCST90200093	16	89700258	A	C	7798	-0.24	0.05	0.00	0.00	20.38
rs73202698	Caffeic acid sulfate levels	GCST90200093	21	17708731	C	G	7798	-0.17	0.04	0.00	0.00	19.90
rs140229512	Ascorbic acid 2-sulfate levels	GCST90200094	1	73425966	T	A	8089	0.14	0.03	0.00	0.00	19.52
rs2347803	Ascorbic acid 2-sulfate levels	GCST90200094	1	164909643	T	C	8089	0.07	0.02	0.00	0.00	19.70
rs75142236	Ascorbic acid 2-sulfate levels	GCST90200094	2	29497963	T	C	8089	0.11	0.02	0.00	0.00	22.03
rs2016106	Ascorbic acid 2-sulfate levels	GCST90200094	2	239510106	A	G	8089	-0.08	0.02	0.00	0.00	23.22
rs139754472	Ascorbic acid 2-sulfate levels	GCST90200094	3	140721229	T	C	8089	0.37	0.08	0.00	0.00	22.54
rs187825435	Ascorbic acid 2-sulfate levels	GCST90200094	3	196689403	G	A	8089	0.27	0.06	0.00	0.00	19.59
rs1405100	Ascorbic acid 2-sulfate levels	GCST90200094	4	82697049	A	C	8089	-0.10	0.02	0.00	0.00	20.98
rs147620705	Ascorbic acid 2-sulfate levels	GCST90200094	5	141885330	C	T	8089	0.31	0.07	0.00	0.00	20.78
rs115475653	Ascorbic acid 2-sulfate levels	GCST90200094	6	36634902	G	A	8089	-0.25	0.05	0.00	0.00	23.50
rs114665461	Ascorbic acid 2-sulfate levels	GCST90200094	6	38015817	A	G	8089	-0.17	0.04	0.00	0.00	19.78
rs10214728	Ascorbic acid 2-sulfate levels	GCST90200094	6	148266946	T	C	8089	-0.14	0.03	0.00	0.00	20.40
rs35956182	Ascorbic acid 2-sulfate levels	GCST90200094	6	160143584	A	G	8089	-0.35	0.08	0.00	0.00	20.18
rs13227023	Ascorbic acid 2-sulfate levels	GCST90200094	7	86563323	A	G	8089	-0.13	0.03	0.00	0.00	22.04
rs3765159	Ascorbic acid 2-sulfate levels	GCST90200094	10	2500353	A	G	8089	-1.28	0.29	0.00	0.00	19.58
rs10509168	Ascorbic acid 2-sulfate levels	GCST90200094	10	62498069	C	T	8089	0.07	0.02	0.00	0.00	19.56
rs12414218	Ascorbic acid 2-sulfate levels	GCST90200094	10	87722022	A	G	8089	-0.10	0.02	0.00	0.00	36.33
rs2336850	Ascorbic acid 2-sulfate levels	GCST90200094	11	17709937	A	G	8089	-0.28	0.06	0.00	0.00	20.08
rs73143004	Ascorbic acid 2-sulfate levels	GCST90200094	12	99287930	C	A	8089	0.14	0.03	0.00	0.00	19.53
rs4294667	Ascorbic acid 2-sulfate levels	GCST90200094	13	107368585	T	G	8089	-0.09	0.02	0.00	0.00	21.98
rs1468626	Ascorbic acid 2-sulfate levels	GCST90200094	15	96948385	C	T	8089	-0.08	0.02	0.00	0.00	22.58
rs8047170	Ascorbic acid 2-sulfate levels	GCST90200094	16	810258	G	A	8089	0.27	0.06	0.00	0.00	23.24
rs34049928	Ascorbic acid 2-sulfate levels	GCST90200094	16	29971694	G	C	8089	0.19	0.04	0.00	0.00	21.81
rs8050812	Ascorbic acid 2-sulfate levels	GCST90200094	16	30374516	C	T	8089	-0.12	0.02	0.00	0.01	46.40
rs75017029	Ascorbic acid 2-sulfate levels	GCST90200094	16	74159313	C	T	8089	-0.23	0.05	0.00	0.00	21.57
rs78069175	Ascorbic acid 2-sulfate levels	GCST90200094	17	66132894	T	C	8089	-0.33	0.07	0.00	0.00	21.27

rs139448719	Ascorbic acid 2-sulfate levels	GCST90200094	17	75121666	A	G	8089	0.16	0.03	0.00	0.00	23.21
rs513107	Ascorbic acid 2-sulfate levels	GCST90200094	18	66584353	G	A	8089	-0.07	0.02	0.00	0.00	19.60
rs12088521	1-linoleoyl-2-linolenoyl-GPC	GCST90200095	1	206806773	G	T	8188	-0.08	0.02	0.00	0.00	21.41
rs62188519	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	2	221234862	C	T	8188	-0.09	0.02	0.00	0.00	22.10
rs79028060	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	3	13064292	A	G	8188	-0.13	0.03	0.00	0.00	22.09
rs75738537	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	3	173266631	A	G	8188	0.24	0.05	0.00	0.00	20.16
rs3108495	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	4	2444833	T	C	8188	0.08	0.02	0.00	0.00	21.38
rs4395533	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	4	120560795	A	G	8188	-0.07	0.02	0.00	0.00	19.94
rs192540706	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	5	106684389	T	C	8188	-0.23	0.05	0.00	0.00	22.32
rs16889861	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	6	37505299	G	A	8188	-1.24	0.28	0.00	0.00	19.69
rs192322815	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	6	109018571	A	G	8188	-0.41	0.08	0.00	0.00	25.24
rs67170531	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	7	80159659	A	G	8188	-0.09	0.02	0.00	0.00	21.45
rs117387072	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	8	90315467	A	G	8188	-0.18	0.04	0.00	0.00	20.13
rs6987304	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	8	138058583	A	C	8188	-0.09	0.02	0.00	0.00	22.82
rs7869844	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	9	104748608	C	G	8188	0.09	0.02	0.00	0.00	19.59
rs143774075	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	11	14702420	G	A	8188	1.77	0.39	0.00	0.00	20.20
rs174546	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	11	61802358	T	C	8188	0.24	0.02	0.00	0.03	226.58
rs1274214	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	11	123603823	C	T	8188	0.07	0.02	0.00	0.00	22.92
rs147743636	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	13	85088610	T	C	8188	-0.45	0.10	0.00	0.00	19.66

rs61985979	1-linoleoyl-2-linolenoyl-GPC	GCST90200095	14	59101826	G	A	8188	-0.07	0.02	0.00	0.00	20.72
rs2180795	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	14	93771153	T	C	8188	-0.16	0.04	0.00	0.00	21.02
rs293381	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	15	89101707	A	G	8188	-0.07	0.02	0.00	0.00	21.19
rs11508026	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	16	56965416	T	C	8188	0.08	0.02	0.00	0.00	25.03
rs890614	(18:2/18:3) 1-linoleoyl-2-linolenoyl-GPC	GCST90200095	20	17361286	C	T	8188	0.15	0.03	0.00	0.00	22.84
rs2131801	(18:2/18:3) Catechol glucuronide levels	GCST90200096	2	156797659	C	T	4698	0.11	0.02	0.00	0.00	21.17
rs28593138	Catechol glucuronide levels	GCST90200096	3	73917739	C	A	4698	0.20	0.04	0.00	0.00	20.89
rs75069734	Catechol glucuronide levels	GCST90200096	4	13943076	A	G	4698	0.18	0.04	0.00	0.00	20.87
rs573729017	Catechol glucuronide levels	GCST90200096	4	23417848	C	T	4698	0.17	0.04	0.00	0.00	19.84
rs6830244	Catechol glucuronide levels	GCST90200096	4	181508975	G	C	4698	0.26	0.06	0.00	0.00	20.86
rs76193259	Catechol glucuronide levels	GCST90200096	5	11039606	T	G	4698	0.30	0.06	0.00	0.00	22.26
rs58693122	Catechol glucuronide levels	GCST90200096	7	138891629	G	C	4698	0.31	0.07	0.00	0.00	21.21
rs2606201	Catechol glucuronide levels	GCST90200096	8	111477803	A	C	4698	-0.15	0.03	0.00	0.00	23.15
rs10967004	Catechol glucuronide levels	GCST90200096	9	25626956	G	A	4698	-0.21	0.05	0.00	0.00	20.11
rs10781331	Catechol glucuronide levels	GCST90200096	9	76074322	G	A	4698	0.10	0.02	0.00	0.00	20.85
rs35009243	Catechol glucuronide levels	GCST90200096	10	48302771	C	T	4698	0.15	0.03	0.00	0.00	20.92
rs60520527	Catechol glucuronide levels	GCST90200096	10	105108553	G	A	4698	0.15	0.03	0.00	0.00	22.92
rs17610347	Catechol glucuronide levels	GCST90200096	13	99462109	A	G	4698	0.12	0.03	0.00	0.00	20.91
rs1958556	Catechol glucuronide levels	GCST90200096	14	33684036	C	T	4698	-0.10	0.02	0.00	0.00	21.13
rs118183750	Catechol glucuronide levels	GCST90200096	14	64826379	A	C	4698	0.56	0.13	0.00	0.00	19.58
rs138116575	Catechol glucuronide levels	GCST90200096	17	20115943	G	A	4698	0.33	0.07	0.00	0.00	20.01
rs146205295	Catechol glucuronide levels	GCST90200096	17	39364595	T	A	4698	0.23	0.05	0.00	0.00	19.58
rs142822273	Catechol glucuronide levels	GCST90200096	17	45629062	G	A	4698	0.41	0.08	0.00	0.00	23.55

rs7222668	Catechol glucuronide levels	GCST90200096	17	78439692	C	T	4698	-0.17	0.04	0.00	0.00	20.35
rs200297946	Catechol glucuronide levels	GCST90200096	18	70606871	T	G	4698	-0.13	0.03	0.00	0.01	23.66
rs28735376	Catechol glucuronide levels	GCST90200096	21	26056211	T	C	4698	-0.21	0.05	0.00	0.00	19.61
rs149704149	Furaneol sulfate levels	GCST90200097	1	5327426	A	C	5882	-0.53	0.11	0.00	0.00	25.08
rs12141855	Furaneol sulfate levels	GCST90200097	1	201406879	C	G	5882	-0.09	0.02	0.00	0.00	21.27
rs17560823	Furaneol sulfate levels	GCST90200097	2	72515691	A	G	5882	-0.11	0.02	0.00	0.00	20.92
rs61080456	Furaneol sulfate levels	GCST90200097	2	130006167	A	G	5882	-0.66	0.14	0.00	0.00	22.84
rs34841423	Furaneol sulfate levels	GCST90200097	6	66154826	T	G	5882	-0.17	0.04	0.00	0.00	21.09
rs141089846	Furaneol sulfate levels	GCST90200097	7	379913	A	G	5882	0.28	0.06	0.00	0.00	20.56
rs6952103	Furaneol sulfate levels	GCST90200097	7	83556423	T	C	5882	0.15	0.03	0.00	0.00	19.55
rs111741779	Furaneol sulfate levels	GCST90200097	9	8508632	C	G	5882	-0.33	0.07	0.00	0.00	20.54
rs79717950	Furaneol sulfate levels	GCST90200097	11	74211649	T	C	5882	-0.28	0.06	0.00	0.00	25.12
rs731718	Furaneol sulfate levels	GCST90200097	11	96866357	A	C	5882	0.38	0.08	0.00	0.00	24.44
rs12230223	Furaneol sulfate levels	GCST90200097	12	91068951	C	T	5882	-0.10	0.02	0.00	0.00	19.75
rs28623158	Furaneol sulfate levels	GCST90200097	12	132261448	G	T	5882	0.09	0.02	0.00	0.00	20.76
rs73566469	Furaneol sulfate levels	GCST90200097	13	79433337	G	A	5882	-0.34	0.07	0.00	0.00	21.27
rs151232	Furaneol sulfate levels	GCST90200097	16	28569012	C	T	5882	-0.24	0.02	0.00	0.03	176.97
rs2914485	Furaneol sulfate levels	GCST90200097	16	62902644	C	T	5882	0.11	0.02	0.00	0.00	21.44
rs112829124	Furaneol sulfate levels	GCST90200097	17	33975363	T	C	5882	-0.32	0.07	0.00	0.00	21.34
rs11591147	(d18:1/24:1) levels Ceramide	GCST90200098	1	55039974	T	G	8265	-0.31	0.06	0.00	0.00	29.28
rs61814884	(d18:1/24:1) levels Ceramide	GCST90200098	1	152004360	G	A	8265	-0.20	0.04	0.00	0.00	20.80
rs1728911	(d18:1/24:1) levels Ceramide	GCST90200098	2	27427062	G	T	8265	0.10	0.02	0.00	0.00	38.08
rs72823661	(d18:1/24:1) levels Ceramide	GCST90200098	2	102352256	A	G	8265	0.07	0.02	0.00	0.00	21.62
rs62186066	(d18:1/24:1) levels Ceramide	GCST90200098	2	220945936	T	C	8265	-0.11	0.02	0.00	0.00	21.65
rs79740996	(d18:1/24:1) levels Ceramide	GCST90200098	3	4938512	A	C	8265	0.20	0.04	0.00	0.00	26.76
rs116616732	(d18:1/24:1) levels Ceramide	GCST90200098	4	149412113	T	C	8265	-0.14	0.03	0.00	0.00	19.71
rs2398643	(d18:1/24:1) levels Ceramide	GCST90200098	5	3847470	T	C	8265	-0.07	0.02	0.00	0.00	19.53
rs10463719	(d18:1/24:1) levels Ceramide	GCST90200098	5	119587608	A	G	8265	0.07	0.02	0.00	0.00	21.61
rs9378527	(d18:1/24:1) levels Ceramide	GCST90200098	6	8266453	C	T	8265	-0.08	0.02	0.00	0.00	20.16
rs4875412	(d18:1/24:1) levels	GCST90200098	8	3245625	C	A	8265	0.14	0.03	0.00	0.00	20.81

rs11775560	Ceramide (d18:1/24:1) levels	GCST90200098	8	60747604	G	A	8265	0.09	0.02	0.00	0.00	22.33
rs11723618 5	Ceramide (d18:1/24:1) levels	GCST90200098	9	18501141	G	C	8265	-0.28	0.06	0.00	0.00	21.91
rs10965965	Ceramide (d18:1/24:1) levels	GCST90200098	9	23603927	T	C	8265	-0.15	0.03	0.00	0.00	21.49
rs11138350	Ceramide (d18:1/24:1) levels	GCST90200098	9	79744673	C	T	8265	-0.07	0.02	0.00	0.00	20.73
rs12352776	Ceramide (d18:1/24:1) levels	GCST90200098	9	105105569	T	C	8265	0.13	0.02	0.00	0.01	58.27
rs11713065 5	Ceramide (d18:1/24:1) levels	GCST90200098	10	5715526	G	A	8265	-0.26	0.06	0.00	0.00	20.53
rs11726444 1	Ceramide (d18:1/24:1) levels	GCST90200098	10	14351590	C	T	8265	-0.31	0.07	0.00	0.00	19.76
rs72657953	Ceramide (d18:1/24:1) levels	GCST90200098	13	110465726	T	C	8265	-0.13	0.03	0.00	0.00	20.39
rs174418	Ceramide (d18:1/24:1) levels	GCST90200098	15	58395404	C	T	8265	-0.08	0.02	0.00	0.00	24.42
rs247617	Ceramide (d18:1/24:1) levels	GCST90200098	16	56956804	A	C	8265	0.10	0.02	0.00	0.00	38.25
rs67402452	Ceramide (d18:1/24:1) levels	GCST90200098	16	73013058	T	C	8265	-0.10	0.02	0.00	0.00	23.51
rs7232565	Ceramide (d18:1/24:1) levels	GCST90200098	18	25103121	T	A	8265	0.08	0.02	0.00	0.00	26.66
rs11810986 9	Ceramide (d18:1/24:1) levels	GCST90200098	18	31743439	T	C	8265	-0.22	0.05	0.00	0.00	20.84
rs10422209	Ceramide (d18:1/24:1) levels	GCST90200098	19	1026319	G	C	8265	-0.18	0.02	0.00	0.01	68.72
rs3752246	Ceramide (d18:1/24:1) levels	GCST90200098	19	1056493	C	G	8265	0.37	0.02	0.00	0.04	355.16
rs17248720	Ceramide (d18:1/24:1) levels	GCST90200098	19	11087511	T	C	8265	-0.11	0.02	0.00	0.00	21.90
rs28795074	Ceramide (d18:1/24:1) levels	GCST90200098	19	44933400	A	G	8265	-0.14	0.03	0.00	0.00	21.27
rs2743289	Ceramide (d18:1/24:1) levels	GCST90200098	20	45428865	G	A	8265	-0.10	0.02	0.00	0.00	20.33
rs12628919	Ceramide (d18:1/24:1) levels	GCST90200098	22	42698730	A	G	8265	-0.22	0.03	0.00	0.01	67.19
rs324420	N-oleoylserine levels	GCST90200099	1	46405089	A	C	7591	0.23	0.02	0.00	0.02	140.92
rs14415112 1	N-oleoylserine levels	GCST90200099	1	187858834	A	G	7591	-0.18	0.04	0.00	0.00	21.47
rs17040888	N-oleoylserine levels	GCST90200099	2	3148670	G	A	7591	0.32	0.07	0.00	0.00	19.58
rs14792845 5	N-oleoylserine levels	GCST90200099	3	27470982	A	C	7591	0.30	0.07	0.00	0.00	20.54
rs6443962	N-oleoylserine levels	GCST90200099	3	184409102	T	C	7591	0.08	0.02	0.00	0.00	24.38
rs11488777 2	N-oleoylserine levels	GCST90200099	4	59039168	T	C	7591	-0.15	0.03	0.00	0.00	22.59
rs6552728	N-oleoylserine levels	GCST90200099	4	183996004	T	C	7591	-0.08	0.02	0.00	0.00	19.83
rs14431476 4	N-oleoylserine levels	GCST90200099	6	110565766	A	C	7591	0.28	0.06	0.00	0.00	20.17

rs149251905	N-oleoylserine levels	GCST90200099	8	103831106	T	G	7591	-0.36	0.08	0.00	0.00	21.85
rs113826032	N-oleoylserine levels	GCST90200099	9	84249208	T	C	7591	-0.16	0.03	0.00	0.00	23.70
rs10508300	N-oleoylserine levels	GCST90200099	10	6013161	G	C	7591	-0.14	0.03	0.00	0.00	21.63
rs12808813	N-oleoylserine levels	GCST90200099	11	82545541	C	A	7591	0.14	0.03	0.00	0.00	22.55
rs73063122	N-oleoylserine levels	GCST90200099	12	21208279	C	A	7591	0.20	0.02	0.00	0.01	95.64
rs56343750	N-oleoylserine levels	GCST90200099	13	73236213	C	T	7591	0.20	0.04	0.00	0.00	22.93
rs7158233	N-oleoylserine levels	GCST90200099	14	21297337	T	C	7591	-0.08	0.02	0.00	0.00	20.27
rs9972236	N-oleoylserine levels	GCST90200099	14	94104994	T	C	7591	-0.10	0.02	0.00	0.00	19.56
rs143222296	N-oleoylserine levels	GCST90200099	16	5509328	A	G	7591	0.26	0.06	0.00	0.00	19.93
rs185220479	N-oleoylserine levels	GCST90200099	16	70095710	T	A	7591	0.30	0.07	0.00	0.00	20.57
rs16954205	N-oleoylserine levels	GCST90200099	18	8800393	T	A	7591	0.16	0.04	0.00	0.00	21.44
rs2800973	N-oleoylserine levels	GCST90200099	22	19181103	C	T	7591	-0.08	0.02	0.00	0.00	24.90
rs12095065	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	1	172496457	G	A	8218	-0.13	0.03	0.00	0.00	19.66
rs71439202	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	2	25942865	C	T	8218	-0.18	0.04	0.00	0.00	19.85
rs60412748	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	3	86166630	C	T	8218	0.24	0.05	0.00	0.00	20.30
rs141471965	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	4	88125050	T	C	8218	0.15	0.02	0.00	0.01	41.81
rs6935886	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	6	156928844	C	T	8218	0.26	0.06	0.00	0.00	21.55
rs73695648	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	7	49092885	A	C	8218	-0.16	0.04	0.00	0.00	20.50
rs117339273	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	7	50830025	T	C	8218	0.27	0.06	0.00	0.00	20.89
rs117098421	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	8	17602473	A	G	8218	0.26	0.06	0.00	0.00	21.18
rs704016	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	10	79061341	T	C	8218	-0.09	0.02	0.00	0.00	19.77
rs117272002	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	11	55038799	T	G	8218	-1.69	0.37	0.00	0.00	20.77
rs57965817	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	12	49563320	G	A	8218	-0.10	0.02	0.00	0.00	20.98
rs142384244	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	13	84206467	C	T	8218	0.23	0.05	0.00	0.00	20.70
rs142317920	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	15	80543842	A	G	8218	0.18	0.04	0.00	0.00	20.87
rs72771661	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	16	13413231	G	A	8218	-0.16	0.03	0.00	0.00	22.81
rs117568662	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	16	65100809	A	G	8218	-0.19	0.04	0.00	0.00	23.42
rs12607820	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	18	40517565	A	C	8218	-0.07	0.02	0.00	0.00	22.06

rs117814140	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	18	80242969	T	A	8218	-0.21	0.05	0.00	0.00	19.86
rs117249960	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	19	17595167	A	G	8218	-0.12	0.03	0.00	0.00	20.93
rs62120427	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	19	35105129	T	C	8218	0.13	0.03	0.00	0.00	20.39
rs143450669	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	19	50277121	G	A	8218	-0.60	0.13	0.00	0.00	20.00
rs6044671	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	20	17189650	T	G	8218	0.11	0.02	0.00	0.00	21.22
rs73164873	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	22	21051257	T	C	8218	-0.12	0.03	0.00	0.00	21.24
rs9614577	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	22	44840735	G	C	8218	-0.16	0.03	0.00	0.00	19.93
rs112932931	Perfluorooctanesulfonate (PFOS) levels	GCST90200100	22	49271982	A	C	8218	-0.21	0.04	0.00	0.00	21.96
rs7410998	Pimeloylcarnitine/3-methyladipoyl carnitine (C7-DC) levels	GCST90200101	1	928176	A	G	7837	-0.15	0.03	0.00	0.00	23.98
rs12132488	Pimeloylcarnitine/3-methyladipoyl carnitine (C7-DC) levels	GCST90200101	1	46923941	C	T	7837	0.20	0.02	0.00	0.01	73.02
rs2999545	Pimeloylcarnitine/3-methyladipoyl carnitine (C7-DC) levels	GCST90200101	1	151931670	T	A	7837	-0.10	0.02	0.00	0.01	41.22
rs138321943	Pimeloylcarnitine/3-methyladipoyl carnitine (C7-DC) levels	GCST90200101	1	242745717	G	A	7837	0.43	0.09	0.00	0.00	21.00
rs62140628	Pimeloylcarnitine/3-methyladipoyl carnitine (C7-DC) levels	GCST90200101	2	50866064	C	T	7837	0.17	0.04	0.00	0.00	19.81
rs12998050	Pimeloylcarnitine/3-methyladipoyl carnitine (C7-DC) levels	GCST90200101	2	153646797	T	C	7837	0.20	0.04	0.00	0.00	23.89
rs143969294	Pimeloylcarnitine/3-methyladipoyl carnitine (C7-DC) levels	GCST90200101	4	37734320	A	G	7837	-0.24	0.04	0.00	0.00	27.78
rs13355396	Pimeloylcarnitine/3-methyladipoyl carnitine (C7-DC) levels	GCST90200101	5	3617313	G	A	7837	-0.16	0.04	0.00	0.00	20.22
rs62343480	Pimeloylcarnitine/3-methyladipoyl carnitine (C7-DC) levels	GCST90200101	5	4419433	G	T	7837	-0.08	0.02	0.00	0.00	20.65
rs12208357	Pimeloylcarnitine/3-methyladipoyl carnitine (C7-DC) levels	GCST90200101	6	160122116	T	C	7837	0.31	0.03	0.00	0.01	111.30

rs11753995	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	6	160154334	A	G	7837	0.21	0.02	0.00	0.01	102.37
rs139300931	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	6	160206065	T	A	7837	0.32	0.07	0.00	0.00	24.76
rs73045003	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	7	2612362	T	C	7837	-0.10	0.02	0.00	0.00	19.55
rs7788658	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	7	54684693	T	C	7837	0.09	0.02	0.00	0.00	20.95
rs34174649	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	8	6318788	G	A	7837	-0.07	0.02	0.00	0.00	19.67
rs7824299	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	8	82929574	G	A	7837	0.07	0.02	0.00	0.00	22.35
rs7850579	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	9	9571300	A	G	7837	-0.08	0.02	0.00	0.00	24.11
rs7905852	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	10	13408911	G	A	7837	-0.08	0.02	0.00	0.00	20.60
rs4752006	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	10	116724584	T	C	7837	-0.08	0.02	0.00	0.00	20.09
rs2152725	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	13	20926033	C	A	7837	-0.07	0.02	0.00	0.00	19.59
rs8002490	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	13	43683887	A	G	7837	-0.20	0.04	0.00	0.00	20.65
rs78290674	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	13	113364849	C	G	7837	0.16	0.03	0.00	0.00	23.75
rs147722382	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	14	43985091	T	C	7837	-0.32	0.07	0.00	0.00	19.57
rs74931927	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	14	78240921	A	T	7837	-0.38	0.08	0.00	0.00	19.91

	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels												
rs10148392	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	14	100559962	G	A	7837	-0.08	0.02	0.00	0.00	19.92	
rs2214195	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	16	20488075	A	C	7837	-0.09	0.02	0.00	0.00	20.91	
rs75646959	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	16	81796915	T	C	7837	0.32	0.07	0.00	0.00	19.70	
rs7205868	Pimeloylcarnitine/3-methyladipoylcarnitine (C7-DC) levels	GCST90200101	16	84366921	T	C	7837	-0.08	0.02	0.00	0.00	22.09	
rs3766367	1-palmitoleoyl-2-linolenoyl-GPC (16:1/18:3)	GCST90200102	1	160680351	A	G	7540	0.26	0.05	0.00	0.00	22.32	
rs10864726	1-palmitoleoyl-2-linolenoyl-GPC (16:1/18:3)	GCST90200102	1	230160406	T	C	7540	0.09	0.02	0.00	0.00	31.39	
rs183382461	1-palmitoleoyl-2-linolenoyl-GPC (16:1/18:3)	GCST90200102	1	246545017	C	G	7540	0.20	0.04	0.00	0.00	21.58	
rs4665972	1-palmitoleoyl-2-linolenoyl-GPC (16:1/18:3)	GCST90200102	2	27375230	C	T	7540	-0.09	0.02	0.00	0.00	37.22	
rs6414634	1-palmitoleoyl-2-linolenoyl-GPC (16:1/18:3)	GCST90200102	4	7234133	C	T	7540	-0.09	0.02	0.00	0.00	21.26	
rs151128359	1-palmitoleoyl-2-linolenoyl-GPC (16:1/18:3)	GCST90200102	4	178778336	A	G	7540	-0.38	0.08	0.00	0.00	19.86	
rs114681695	1-palmitoleoyl-2-linolenoyl-GPC (16:1/18:3)	GCST90200102	5	177324247	G	A	7540	-0.20	0.04	0.00	0.00	20.62	
rs114690587	1-palmitoleoyl-2-linolenoyl-GPC (16:1/18:3)	GCST90200102	7	10335864	C	T	7540	-0.16	0.04	0.00	0.00	21.00	
rs7836323	1-palmitoleoyl-2-linolenoyl-GPC (16:1/18:3)	GCST90200102	8	130654718	A	G	7540	0.13	0.03	0.00	0.00	23.99	
rs75090039	1-palmitoleoyl-2-linolenoyl-GPC (16:1/18:3)	GCST90200102	10	100437074	T	C	7540	0.11	0.02	0.00	0.00	26.06	

rs174567	1- palmitoleoyl- 2-linolenoyl- GPC (16:1/18:3) 1-	GCST90200102	11	61825533	G	A	7540	0.27	0.02	0.00	0.04	304.05
rs35924669	1- palmitoleoyl- 2-linolenoyl- GPC (16:1/18:3) 1-	GCST90200102	11	94123804	T	C	7540	0.15	0.03	0.00	0.00	19.57
rs78106480	1- palmitoleoyl- 2-linolenoyl- GPC (16:1/18:3) 1-	GCST90200102	13	83990210	G	A	7540	-0.32	0.06	0.00	0.00	27.08
rs4981372	1- palmitoleoyl- 2-linolenoyl- GPC (16:1/18:3) 1-	GCST90200102	14	21459479	C	T	7540	0.10	0.02	0.00	0.00	19.93
rs59478025	1- palmitoleoyl- 2-linolenoyl- GPC (16:1/18:3) 1-	GCST90200102	16	23738795	A	G	7540	0.10	0.02	0.00	0.00	20.02
rs9895209	1- palmitoleoyl- 2-linolenoyl- GPC (16:1/18:3) 1-	GCST90200102	17	76963637	C	A	7540	0.09	0.02	0.00	0.00	24.36
rs11796725 5	1- palmitoleoyl- 2-linolenoyl- GPC (16:1/18:3) 1-	GCST90200102	18	76387345	G	A	7540	-0.21	0.05	0.00	0.00	20.91
rs18261149 3	1- palmitoleoyl- 2-linolenoyl- GPC (16:1/18:3) 1-	GCST90200102	19	19347579	G	A	7540	-0.33	0.07	0.00	0.00	20.28
rs2766649	1- palmitoleoyl- 2-linolenoyl- GPC (16:1/18:3) 1-	GCST90200102	20	53531490	T	C	7540	-0.08	0.02	0.00	0.00	22.37
rs13051941	1- palmitoleoyl- 2-linolenoyl- GPC (16:1/18:3) Linoleoyl-	GCST90200102	21	44844967	C	T	7540	0.13	0.03	0.00	0.00	21.66
rs780108	levels arachidonoyl- glycerol (18:2/20:4) [1] levels Linoleoyl-	GCST90200103	2	27462090	C	T	7731	-0.07	0.02	0.00	0.00	20.30
rs11676333	levels arachidonoyl- glycerol (18:2/20:4) [1] levels Linoleoyl-	GCST90200103	2	107255427	A	G	7731	0.09	0.02	0.00	0.00	21.49
rs11303894 1	levels arachidonoyl- glycerol (18:2/20:4) [1] levels Linoleoyl-	GCST90200103	2	241712700	T	C	7731	0.55	0.12	0.00	0.00	21.66
rs13901019 7	levels arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	4	67944628	C	T	7731	0.23	0.05	0.00	0.00	20.23

rs10223284	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	5	162425010	G	A	7731	1.03	0.22	0.00	0.00	21.44
rs56242241	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	7	103986020	A	G	7731	0.42	0.09	0.00	0.00	19.94
rs56024619	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	7	155883015	T	A	7731	0.11	0.02	0.00	0.00	26.46
rs1983529	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	8	1356567	T	C	7731	-0.09	0.02	0.00	0.00	20.74
rs77237194	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	8	20007944	T	A	7731	-0.12	0.03	0.00	0.00	19.65
rs2954021	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	8	125469835	G	A	7731	-0.07	0.02	0.00	0.00	21.39
rs78719789	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	9	114472814	T	C	7731	0.20	0.04	0.00	0.00	21.45
rs28456	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	11	61822009	G	A	7731	-0.33	0.02	0.00	0.05	373.27
rs964184	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	11	116778201	C	G	7731	-0.12	0.02	0.00	0.00	23.96
rs68030383	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	12	26424618	T	C	7731	-0.08	0.02	0.00	0.00	20.05
rs10849660	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	12	119419608	G	T	7731	0.10	0.02	0.00	0.00	20.79
rs9519271	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	13	104288418	T	C	7731	0.08	0.02	0.00	0.00	22.24
rs261290	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	15	58386521	C	T	7731	-0.08	0.02	0.00	0.00	19.83
rs9947545	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	18	58293039	C	T	7731	0.09	0.02	0.00	0.00	19.52

rs3794991	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	19	19499787	T	C	7731	-0.21	0.03	0.00	0.01	52.53
rs75627662	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	19	44910319	T	C	7731	0.20	0.02	0.00	0.01	101.89
rs75464499	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [1] levels	GCST90200103	20	43456292	T	C	7731	0.15	0.03	0.00	0.00	22.97
rs145376710	Hexadecadien oate (16:2n6) levels	GCST90200104	1	215638718	T	C	8274	-0.14	0.03	0.00	0.00	22.26
rs116802958	Hexadecadien oate (16:2n6) levels	GCST90200104	2	8073320	G	C	8274	0.28	0.06	0.00	0.00	19.91
rs11709316	Hexadecadien oate (16:2n6) levels	GCST90200104	3	71917597	T	C	8274	-0.28	0.06	0.00	0.00	20.67
rs60568302	Hexadecadien oate (16:2n6) levels	GCST90200104	3	196126010	A	G	8274	0.20	0.04	0.00	0.00	22.45
rs12504891	Hexadecadien oate (16:2n6) levels	GCST90200104	4	30032608	C	T	8274	-0.08	0.02	0.00	0.00	19.86
rs116530753	Hexadecadien oate (16:2n6) levels	GCST90200104	4	156785921	A	G	8274	-0.15	0.03	0.00	0.00	20.42
rs10042124	Hexadecadien oate (16:2n6) levels	GCST90200104	5	69362672	A	G	8274	0.07	0.02	0.00	0.00	19.84
rs698057	Hexadecadien oate (16:2n6) levels	GCST90200104	5	87824984	T	C	8274	0.19	0.04	0.00	0.00	21.10
rs113615745	Hexadecadien oate (16:2n6) levels	GCST90200104	7	73952941	T	C	8274	0.16	0.04	0.00	0.00	19.76
rs117966847	Hexadecadien oate (16:2n6) levels	GCST90200104	8	81655670	A	G	8274	-0.19	0.04	0.00	0.00	19.73
rs10491720	Hexadecadien oate (16:2n6) levels	GCST90200104	9	2577039	C	G	8274	0.14	0.03	0.00	0.00	19.55
rs12236927	Hexadecadien oate (16:2n6) levels	GCST90200104	9	29531092	A	T	8274	0.07	0.01	0.00	0.00	21.43
rs58797085	Hexadecadien oate (16:2n6) levels	GCST90200104	10	128246343	C	T	8274	-0.08	0.02	0.00	0.00	20.41
rs10220650	Hexadecadien oate (16:2n6) levels	GCST90200104	14	99923056	T	C	8274	-0.17	0.04	0.00	0.00	20.10
rs8075929	Hexadecadien oate (16:2n6) levels	GCST90200104	17	7850803	A	G	8274	-0.20	0.04	0.00	0.00	20.84
rs113915691	Hexadecadien oate (16:2n6) levels	GCST90200104	19	56248382	A	G	8274	-0.14	0.03	0.00	0.00	21.28
rs566623596	Hexadecadien oate (16:2n6) levels	GCST90200104	20	26237585	C	T	8274	-0.54	0.12	0.00	0.00	21.25
rs80053496	Hexadecadien oate (16:2n6) levels	GCST90200104	21	39201944	A	G	8274	-0.25	0.05	0.00	0.00	25.54
rs7585677	Glycosyl-N- behenoyl- sphingadienin e (d18:2/22:0) levels	GCST90200105	2	183660310	G	A	8232	0.07	0.02	0.00	0.00	20.11

rs9311038	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	3	33924423	T	A	8232	-0.09	0.02	0.00	0.00	22.55
rs7657342	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	4	25628393	T	C	8232	0.08	0.02	0.00	0.00	20.01
rs28416749	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	4	47542615	C	T	8232	0.09	0.02	0.00	0.00	22.58
rs35818294	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	4	47543124	A	C	8232	0.30	0.02	0.00	0.03	228.29
rs11722463	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	4	48036699	A	G	8232	0.16	0.02	0.00	0.01	109.13
rs76560367	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	6	27670965	G	T	8232	-0.26	0.05	0.00	0.00	22.55
rs12193198	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	6	169334316	A	G	8232	0.07	0.02	0.00	0.00	21.68
rs12113068	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	7	155435171	T	G	8232	0.17	0.03	0.00	0.00	24.95
rs728185	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	8	93263749	G	A	8232	-0.13	0.03	0.00	0.00	20.15
rs1784494	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	8	106673844	A	G	8232	-0.07	0.02	0.00	0.00	23.75
rs10511533	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	9	10115598	C	T	8232	-0.18	0.04	0.00	0.00	21.93
rs3750434	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	9	35739879	A	G	8232	0.10	0.02	0.00	0.01	45.59
rs10908901	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	9	89608274	T	C	8232	-0.47	0.10	0.00	0.00	20.97
rs2989751	Glycosyl-N-behenoyl-sphingadienin e (d18:2/22:0) levels	GCST90200105	9	93604365	G	A	8232	-0.08	0.02	0.00	0.00	20.48

rs10823631	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	10	70865984	G	A	8232	0.10	0.02	0.00	0.00	37.42
rs118019327	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	10	129753932	C	A	8232	0.31	0.06	0.00	0.00	22.57
rs1000768	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	11	34492385	T	G	8232	0.07	0.02	0.00	0.00	19.62
rs117394165	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	11	66688931	T	C	8232	0.18	0.04	0.00	0.00	20.53
rs7953249	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	12	120965921	A	G	8232	0.07	0.02	0.00	0.00	21.02
rs7320739	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	13	106285700	G	T	8232	-0.10	0.02	0.00	0.00	21.59
rs139356071	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	14	38158229	A	G	8232	-0.31	0.07	0.00	0.00	22.07
rs76357200	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	14	48676170	C	A	8232	0.24	0.05	0.00	0.00	21.30
rs8037196	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	15	52944405	G	A	8232	0.07	0.02	0.00	0.00	19.96
rs261290	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	15	58386521	C	T	8232	-0.08	0.02	0.00	0.00	21.57
rs11647674	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	16	78358512	T	G	8232	-0.07	0.02	0.00	0.00	21.84
rs73053944	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	19	49427038	G	C	8232	-0.28	0.06	0.00	0.00	21.26
rs191153857	Glycosyl-N-behenoyl-sphingadienine (d18:2/22:0) levels	GCST90200105	22	22441769	A	G	8232	-0.38	0.08	0.00	0.00	22.24
rs116199731	4-hydroxyphenylacetylglutamine levels	GCST90200106	1	67034716	A	C	7752	-0.27	0.06	0.00	0.00	20.44
rs6682605	4-hydroxyphenylacetylglutamine levels	GCST90200106	1	151953981	T	C	7752	0.09	0.02	0.00	0.00	30.22

rs56014394	4-hydroxyphenylacetylglutamine levels	GCST90200106	3	151794923	C	T	7752	0.08	0.02	0.00	0.00	19.79
rs143911730	4-hydroxyphenylacetylglutamine levels	GCST90200106	5	12997683	A	G	7752	0.15	0.03	0.00	0.00	21.18
rs7729164	4-hydroxyphenylacetylglutamine levels	GCST90200106	5	84945056	C	A	7752	0.08	0.02	0.00	0.00	20.76
rs61424527	4-hydroxyphenylacetylglutamine levels	GCST90200106	5	90916875	A	G	7752	-0.08	0.02	0.00	0.00	19.80
rs378971	4-hydroxyphenylacetylglutamine levels	GCST90200106	6	29975206	A	G	7752	-0.07	0.02	0.00	0.00	20.04
rs34488829	4-hydroxyphenylacetylglutamine levels	GCST90200106	6	168103254	C	T	7752	0.10	0.02	0.00	0.00	21.08
rs151123579	4-hydroxyphenylacetylglutamine levels	GCST90200106	8	83182278	T	G	7752	-0.47	0.11	0.00	0.00	20.03
rs11792609	4-hydroxyphenylacetylglutamine levels	GCST90200106	9	77536928	G	T	7752	0.07	0.02	0.00	0.00	21.80
rs77580631	4-hydroxyphenylacetylglutamine levels	GCST90200106	10	51608190	A	C	7752	-0.37	0.08	0.00	0.00	19.63
rs117238102	4-hydroxyphenylacetylglutamine levels	GCST90200106	10	98060881	G	C	7752	0.32	0.07	0.00	0.00	21.98
rs4409767	4-hydroxyphenylacetylglutamine levels	GCST90200106	10	122093708	A	C	7752	0.07	0.02	0.00	0.00	21.65
rs11612103	4-hydroxyphenylacetylglutamine levels	GCST90200106	12	30040456	T	C	7752	-0.08	0.02	0.00	0.00	23.01
rs17042843	4-hydroxyphenylacetylglutamine levels	GCST90200106	12	77072561	G	A	7752	0.12	0.03	0.00	0.00	21.36
rs146199563	4-hydroxyphenylacetylglutamine levels	GCST90200106	13	25387466	T	C	7752	0.43	0.10	0.00	0.00	19.82
rs76978746	4-hydroxyphenylacetylglutamine levels	GCST90200106	13	83633435	C	T	7752	0.17	0.04	0.00	0.00	21.53
rs76304694	4-hydroxyphenylacetylglutamine levels	GCST90200106	15	31822659	T	C	7752	0.27	0.06	0.00	0.00	19.81
rs28415045	4-hydroxyphenylacetylglutamine levels	GCST90200106	15	98759353	A	G	7752	0.10	0.02	0.00	0.00	25.05
rs138591603	4-hydroxyphenylacetylglutamine levels	GCST90200106	16	1161048	G	A	7752	0.26	0.06	0.00	0.00	19.62

rs13333226	4-hydroxyphenylacetylglutamine levels	GCST90200106	16	20354332	G	A	7752	-0.09	0.02	0.00	0.00	23.27
rs12918852	4-hydroxyphenylacetylglutamine levels	GCST90200106	16	20613587	T	C	7752	0.11	0.02	0.00	0.01	49.11
rs143499011	4-hydroxyphenylacetylglutamine levels	GCST90200106	17	63923553	A	T	7752	0.22	0.04	0.00	0.00	25.51
rs35219955	4-hydroxyphenylacetylglutamine levels	GCST90200106	19	3377040	A	T	7752	-0.11	0.02	0.00	0.00	19.53
rs73019238	4-hydroxyphenylacetylglutamine levels	GCST90200106	19	16100775	T	C	7752	0.30	0.07	0.00	0.00	20.60
rs6081085	4-hydroxyphenylacetylglutamine levels	GCST90200106	20	18275127	T	C	7752	-0.08	0.02	0.00	0.00	22.34
rs7527896	Gamma-glutamyl-alpha-lysine levels	GCST90200107	1	30864478	T	C	8250	0.08	0.02	0.00	0.00	19.64
rs2602788	Gamma-glutamyl-alpha-lysine levels	GCST90200107	2	30647384	C	T	8250	0.07	0.02	0.00	0.00	21.39
rs114821088	Gamma-glutamyl-alpha-lysine levels	GCST90200107	3	55516	G	A	8250	-0.30	0.06	0.00	0.00	22.28
rs137975275	Gamma-glutamyl-alpha-lysine levels	GCST90200107	3	21192618	A	G	8250	-0.28	0.06	0.00	0.00	20.02
rs11709019	Gamma-glutamyl-alpha-lysine levels	GCST90200107	3	71078656	A	G	8250	-0.09	0.02	0.00	0.00	23.02
rs58352533	Gamma-glutamyl-alpha-lysine levels	GCST90200107	3	118872891	T	A	8250	0.17	0.03	0.00	0.00	27.81
rs76558830	Gamma-glutamyl-alpha-lysine levels	GCST90200107	4	7514026	A	G	8250	0.25	0.06	0.00	0.00	20.65
rs185568433	Gamma-glutamyl-alpha-lysine levels	GCST90200107	4	17979101	C	T	8250	-0.19	0.04	0.00	0.00	19.55
rs74717771	Gamma-glutamyl-alpha-lysine levels	GCST90200107	5	36241853	C	T	8250	0.07	0.02	0.00	0.00	21.70
rs10943075	Gamma-glutamyl-alpha-lysine levels	GCST90200107	6	73010259	G	A	8250	-0.09	0.02	0.00	0.00	19.70
rs12193858	Gamma-glutamyl-alpha-lysine levels	GCST90200107	6	108956705	T	A	8250	0.12	0.02	0.00	0.00	23.11
rs287924	Gamma-glutamyl-alpha-lysine levels	GCST90200107	6	156850906	A	T	8250	-0.08	0.02	0.00	0.00	24.01

rs18695649	Gamma-glutamyl-alpha-lysine levels	GCST90200107	7	27899522	T	C	8250	-0.80	0.16	0.00	0.00	23.83
rs2299564	Gamma-glutamyl-alpha-lysine levels	GCST90200107	8	17539298	T	G	8250	0.24	0.05	0.00	0.00	19.73
rs189868424	Gamma-glutamyl-alpha-lysine levels	GCST90200107	8	114214436	A	G	8250	-0.26	0.06	0.00	0.00	21.04
rs12375901	Gamma-glutamyl-alpha-lysine levels	GCST90200107	9	23035988	T	C	8250	0.26	0.06	0.00	0.00	21.13
rs60870204	Gamma-glutamyl-alpha-lysine levels	GCST90200107	9	81312231	G	A	8250	0.19	0.04	0.00	0.00	19.79
rs78855118	Gamma-glutamyl-alpha-lysine levels	GCST90200107	12	46797709	T	C	8250	0.13	0.03	0.00	0.00	20.40
rs2010497	Gamma-glutamyl-alpha-lysine levels	GCST90200107	12	122153459	C	A	8250	0.10	0.02	0.00	0.00	20.18
rs150231561	Gamma-glutamyl-alpha-lysine levels	GCST90200107	13	41127909	C	T	8250	0.28	0.06	0.00	0.00	20.16
rs3742581	Gamma-glutamyl-alpha-lysine levels	GCST90200107	14	57754162	C	T	8250	0.08	0.02	0.00	0.00	20.36
rs2738898	Gamma-glutamyl-alpha-lysine levels	GCST90200107	16	1211024	T	C	8250	0.07	0.02	0.00	0.00	22.79
rs181858984	Gamma-glutamyl-alpha-lysine levels	GCST90200107	16	4771273	A	G	8250	0.28	0.06	0.00	0.00	20.19
rs924135	Gamma-glutamyl-alpha-lysine levels	GCST90200107	16	16029602	T	A	8250	0.07	0.02	0.00	0.00	21.30
rs355916	Gamma-glutamyl-alpha-lysine levels	GCST90200107	16	66697727	A	T	8250	-0.27	0.06	0.00	0.00	22.47
rs9925773	Gamma-glutamyl-alpha-lysine levels	GCST90200107	16	68278961	G	A	8250	0.10	0.02	0.00	0.00	30.74
rs141140983	Gamma-glutamyl-alpha-lysine levels	GCST90200107	16	83957508	G	A	8250	-0.39	0.08	0.00	0.00	21.33
rs9893567	Gamma-glutamyl-alpha-lysine levels	GCST90200107	17	9063811	A	G	8250	0.08	0.02	0.00	0.00	19.85
rs72869106	Gamma-glutamyl-alpha-lysine levels	GCST90200107	18	2495899	C	G	8250	-0.35	0.07	0.00	0.00	23.48
rs73050850	Gamma-glutamyl-alpha-lysine levels	GCST90200107	19	51602997	A	T	8250	0.29	0.06	0.00	0.00	21.86

rs34954771	Gamma-glutamyl-alpha-lysine levels	GCST90200107	21	41689424	C	T	8250	0.07	0.02	0.00	0.00	19.71
rs2006092	Gamma-glutamyl-alpha-lysine levels	GCST90200107	22	24599701	G	A	8250	-0.08	0.02	0.00	0.00	25.78
rs60296118	Gamma-glutamyl-alpha-lysine levels	GCST90200107	22	37024849	T	C	8250	-0.23	0.03	0.00	0.01	46.60
rs760488	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	1	175224082	A	G	7805	-0.08	0.02	0.00	0.00	22.16
rs4925622	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	1	247077561	C	T	7805	0.08	0.02	0.00	0.00	21.13
rs1897775	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	2	80001737	T	C	7805	0.08	0.02	0.00	0.00	24.69
rs4491869	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	3	111704566	G	T	7805	-0.10	0.02	0.00	0.00	22.20
rs13102662	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	4	40320215	T	C	7805	-0.09	0.02	0.00	0.00	19.94
rs28719085	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	5	23597774	C	T	7805	0.08	0.02	0.00	0.00	22.70
rs141321313	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	5	32701098	A	G	7805	-0.19	0.04	0.00	0.00	21.91
rs144182717	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	5	67631042	T	C	7805	-0.26	0.06	0.00	0.00	19.52
rs12668269	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	7	66314523	T	A	7805	-0.08	0.02	0.00	0.00	19.96
rs12349302	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	9	7540496	T	G	7805	-0.14	0.03	0.00	0.00	24.47
rs7100448	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	10	60131016	A	T	7805	0.08	0.02	0.00	0.00	21.44
rs4762670	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	12	20754177	A	C	7805	0.08	0.02	0.00	0.00	24.53
rs4771809	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	13	90160333	A	T	7805	0.24	0.05	0.00	0.00	19.81
rs6576477	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	15	25887475	C	T	7805	-0.08	0.02	0.00	0.00	19.84
rs17718270	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	16	5973282	G	A	7805	0.20	0.04	0.00	0.00	21.50

rs11639519	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	16	9751149	A	C	7805	0.09	0.02	0.00	0.00	20.66
rs74742228	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	18	5975657	T	C	7805	-0.38	0.09	0.00	0.00	19.63
rs10426317	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	19	48645524	T	C	7805	0.08	0.02	0.00	0.00	19.80
rs5750353	N-palmitoyl-sphingadienine (d18:2/16:0) levels	GCST90200108	22	36988062	T	G	7805	-0.09	0.02	0.00	0.00	21.26
rs115320665	Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2] levels	GCST90200109	2	2514579	A	T	7744	0.17	0.04	0.00	0.00	21.99
rs4428007	Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2] levels	GCST90200109	2	62496967	C	A	7744	0.09	0.02	0.00	0.00	21.87
rs58288813	Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2] levels	GCST90200109	2	157616496	C	T	7744	-0.16	0.04	0.00	0.00	20.44
rs997467	Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2] levels	GCST90200109	2	198317980	C	T	7744	0.08	0.02	0.00	0.00	21.25
rs3913298	Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2] levels	GCST90200109	3	4103854	A	G	7744	-0.21	0.05	0.00	0.00	19.89
rs1597070	Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2] levels	GCST90200109	3	126253228	T	C	7744	0.14	0.03	0.00	0.00	23.11
rs4374638	Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2] levels	GCST90200109	4	12425965	C	T	7744	0.08	0.02	0.00	0.00	22.66
rs139010197	Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2] levels	GCST90200109	4	67944628	C	T	7744	0.24	0.05	0.00	0.00	21.60
rs17308958	Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2] levels	GCST90200109	4	172683395	G	A	7744	-0.15	0.03	0.00	0.00	20.15
rs4599468	Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2] levels	GCST90200109	4	187919696	A	G	7744	-0.11	0.02	0.00	0.00	21.77
rs1651059	Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2] levels	GCST90200109	5	31674119	G	A	7744	0.18	0.03	0.00	0.00	38.55

rs1820058	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	5	113511974	T	A	7744	-0.30	0.07	0.00	0.00	19.92
rs58844626	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	5	123140888	T	A	7744	0.17	0.04	0.00	0.00	22.81
rs53793814 6	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	7	17569768	G	T	7744	-0.34	0.07	0.00	0.00	21.29
rs6993475	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	8	1233071	T	C	7744	-0.23	0.05	0.00	0.00	20.00
rs11686117 1	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	9	19910912	C	A	7744	-0.19	0.04	0.00	0.00	24.50
rs174564	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	11	61820833	G	A	7744	-0.33	0.02	0.00	0.05	393.78
rs61899030	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	11	84662453	G	T	7744	0.08	0.02	0.00	0.00	20.67
rs2077334	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	11	116635693	A	C	7744	-0.12	0.02	0.00	0.00	26.89
rs2319379	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	14	20651947	G	C	7744	0.14	0.03	0.00	0.00	24.37
rs3007067	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	14	51129702	A	G	7744	0.07	0.02	0.00	0.00	19.58
rs58580571	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	14	85603441	C	A	7744	0.20	0.04	0.00	0.00	20.18
rs2043082	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	15	58382109	A	G	7744	0.09	0.02	0.00	0.00	26.50
rs1077835	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	15	58431227	G	A	7744	0.09	0.02	0.00	0.00	22.02
rs11700754 9	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	15	72282719	G	A	7744	-0.41	0.09	0.00	0.00	20.41

rs13329556	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	15	85846685	G	A	7744	0.15	0.03	0.00	0.00	24.93
rs11333971 9	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	16	54979497	C	G	7744	0.25	0.06	0.00	0.00	19.55
rs212165	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	16	72435564	T	C	7744	-0.12	0.02	0.00	0.00	23.09
rs17673406	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	17	53402969	T	G	7744	-0.32	0.07	0.00	0.00	21.58
rs80291295	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	18	69420027	C	T	7744	-0.29	0.06	0.00	0.00	23.99
rs58542926	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	19	19268740	T	C	7744	-0.21	0.03	0.00	0.01	47.17
rs483082	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	19	44912921	T	G	7744	0.18	0.02	0.00	0.01	92.14
rs79582089	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	20	5080330	G	T	7744	-0.41	0.09	0.00	0.00	21.18
rs11742097 6	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	21	25389789	A	G	7744	-0.32	0.07	0.00	0.00	22.12
rs12168689	Linoleoyl- arachidonoyl- glycerol (18:2/20:4) [2] levels	GCST90200109	22	18054844	C	T	7744	0.17	0.04	0.00	0.00	19.58
rs10888422	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	1	151572020	A	G	8263	-0.12	0.03	0.00	0.00	21.00
rs4666155	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	2	28973683	T	C	8263	0.11	0.02	0.00	0.00	29.50
rs4615111	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	3	117768754	T	G	8263	0.07	0.02	0.00	0.00	20.28
rs73808419	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	4	29921094	C	G	8263	-0.13	0.03	0.00	0.00	20.06
rs62302032	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	4	36913032	C	T	8263	-0.08	0.01	0.00	0.00	26.72
rs710362	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	5	87845250	G	A	8263	0.15	0.03	0.00	0.00	21.53
rs6860806	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	5	132304843	G	A	8263	-0.09	0.01	0.00	0.00	40.43
rs3945239	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	9	11014145	A	G	8263	0.07	0.02	0.00	0.00	20.99

rs603424	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	10	100315722	A	G	8263	-0.13	0.02	0.00	0.01	47.42
rs6584618	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	10	104602187	G	A	8263	-0.28	0.06	0.00	0.00	19.98
rs2114276	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	12	106599731	A	C	8263	0.10	0.02	0.00	0.00	21.46
rs7133712	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	12	118458445	A	T	8263	0.12	0.03	0.00	0.00	20.01
rs74981360	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	13	109345990	C	A	8263	0.20	0.04	0.00	0.00	20.71
rs12147391	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	14	37520377	G	A	8263	-0.17	0.04	0.00	0.00	23.14
rs11216766 6	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	14	50473153	C	T	8263	-0.23	0.05	0.00	0.00	19.96
rs67110178	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	17	5666958	G	T	8263	0.08	0.02	0.00	0.00	20.13
rs77434707	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	17	68347428	T	C	8263	-0.22	0.05	0.00	0.00	21.94
rs11744104 2	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	18	20968464	A	G	8263	-0.35	0.07	0.00	0.00	21.40
rs14182345 9	Palmitoleoylca rnitine (C16:1) levels	GCST90200110	19	31362396	A	T	8263	0.37	0.08	0.00	0.00	21.13
rs11501365 6	N-stearoyl- sphingadienin e (d18:2/18:0) levels	GCST90200111	1	3544235	A	C	7229	-0.22	0.05	0.00	0.00	22.37
rs72718346	N-stearoyl- sphingadienin e (d18:2/18:0) levels	GCST90200111	1	90180403	C	G	7229	0.17	0.04	0.00	0.00	20.98
rs18067617 8	N-stearoyl- sphingadienin e (d18:2/18:0) levels	GCST90200111	1	101278266	C	G	7229	-0.54	0.12	0.00	0.00	19.95
rs926385	N-stearoyl- sphingadienin e (d18:2/18:0) levels	GCST90200111	1	209585387	A	G	7229	-0.35	0.08	0.00	0.00	19.83
rs74141591	N-stearoyl- sphingadienin e (d18:2/18:0) levels	GCST90200111	1	216410856	C	A	7229	-0.36	0.08	0.00	0.00	21.14
rs75107428	N-stearoyl- sphingadienin e (d18:2/18:0) levels	GCST90200111	2	131367556	G	A	7229	-0.98	0.21	0.00	0.00	21.68
rs13186673	N-stearoyl- sphingadienin e (d18:2/18:0) levels	GCST90200111	5	143009249	A	G	7229	0.30	0.07	0.00	0.00	20.74
rs3025015	N-stearoyl- sphingadienin e (d18:2/18:0) levels	GCST90200111	6	43780613	A	G	7229	-0.19	0.04	0.00	0.00	21.51
rs75698091	N-stearoyl- sphingadienin e (d18:2/18:0) levels	GCST90200111	10	2920816	T	C	7229	-0.13	0.03	0.00	0.00	20.13
rs11599730	N-stearoyl- sphingadienin e (d18:2/18:0) levels	GCST90200111	10	44347532	T	C	7229	-0.13	0.03	0.00	0.00	25.34

rs10825823	N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	10	56578664	G	T	7229	0.08	0.02	0.00	0.00	23.17
rs7897470	N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	10	63156304	T	G	7229	-0.10	0.02	0.00	0.00	21.94
rs117914965	N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	10	107730745	T	C	7229	0.33	0.07	0.00	0.00	20.53
rs174460	N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	11	61889638	T	C	7229	0.08	0.02	0.00	0.00	23.06
rs141239430	N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	11	100745986	G	A	7229	0.46	0.10	0.00	0.00	19.96
rs1169306	N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	12	121000508	T	C	7229	-0.08	0.02	0.00	0.00	23.46
rs72698138	N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	14	97504055	C	G	7229	0.12	0.03	0.00	0.00	22.55
rs62007580	N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	15	66833798	A	G	7229	-0.30	0.07	0.00	0.00	19.74
rs60392625	N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	18	4760812	T	A	7229	0.20	0.05	0.00	0.00	19.77
rs56950313	N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	18	57658313	A	G	7229	-0.11	0.02	0.00	0.00	21.75
rs1466448	N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	19	8224635	A	C	7229	0.16	0.02	0.00	0.01	58.35
rs2075650	N-stearoyl-sphingadienine (d18:2/18:0) levels	GCST90200111	19	44892362	G	A	7229	0.10	0.02	0.00	0.00	20.50
rs10210198	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	2	58026287	T	C	8018	-0.13	0.03	0.00	0.00	21.27
rs11713715	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	3	175856757	T	C	8018	-0.24	0.05	0.00	0.00	20.31
rs629542	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	4	17135661	A	C	8018	0.07	0.02	0.00	0.00	20.08
rs75729769	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	4	182091567	G	A	8018	0.15	0.03	0.00	0.00	27.42
rs73175667	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	7	83889617	A	G	8018	0.07	0.02	0.00	0.00	20.24
rs2676654	2-methylbutyrate levels	GCST90200112	8	68390469	A	G	8018	0.11	0.02	0.00	0.00	20.15

rs12684699	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	9	100850066	C	A	8018	0.30	0.06	0.00	0.00	23.95
rs76939265	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	10	85083072	T	C	8018	0.32	0.07	0.00	0.00	19.75
rs533272	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	11	58971902	T	G	8018	-0.07	0.02	0.00	0.00	20.40
rs11220291	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	11	125972164	A	G	8018	0.08	0.02	0.00	0.00	21.28
rs138139955	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	13	113734571	T	G	8018	-0.15	0.03	0.00	0.00	19.77
rs113576138	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	14	69295481	T	A	8018	0.12	0.03	0.00	0.00	21.01
rs2238314	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	15	89186568	G	A	8018	-0.11	0.02	0.00	0.00	21.39
rs74440514	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	15	100254306	A	G	8018	-0.26	0.06	0.00	0.00	22.95
rs150000692	2,3-dihydroxy-2-methylbutyrate levels	GCST90200112	22	32557282	A	G	8018	-0.37	0.08	0.00	0.00	20.84
rs74814187	Stearoylcholine levels	GCST90200113	1	177105662	T	C	7140	0.17	0.04	0.00	0.00	21.51
rs114081814	Stearoylcholine levels	GCST90200113	1	223453805	T	C	7140	-0.32	0.07	0.00	0.00	20.21
rs1047891	Stearoylcholine levels	GCST90200113	2	210675783	A	C	7140	-0.09	0.02	0.00	0.00	25.38
rs115637562	Stearoylcholine levels	GCST90200113	3	146387995	T	C	7140	-0.31	0.06	0.00	0.00	25.93
rs34634630	Stearoylcholine levels	GCST90200113	4	157820547	T	C	7140	-0.11	0.02	0.00	0.00	21.77
rs2179152	Stearoylcholine levels	GCST90200113	6	26325660	C	T	7140	0.08	0.02	0.00	0.00	20.61
rs62417289	Stearoylcholine levels	GCST90200113	6	113606592	A	G	7140	-0.26	0.06	0.00	0.00	20.96
rs113672077	Stearoylcholine levels	GCST90200113	8	10430276	C	T	7140	-0.17	0.04	0.00	0.00	19.75
rs537178127	Stearoylcholine levels	GCST90200113	9	38551720	A	G	7140	0.37	0.08	0.00	0.00	19.64
rs2016129	Stearoylcholine levels	GCST90200113	10	28999366	T	C	7140	0.16	0.03	0.00	0.00	23.78
rs41290942	Stearoylcholine levels	GCST90200113	10	104204165	C	G	7140	-0.33	0.07	0.00	0.00	22.42
rs35852777	Stearoylcholine levels	GCST90200113	12	130912400	A	C	7140	-0.26	0.06	0.00	0.00	20.04
rs1555942	Stearoylcholine levels	GCST90200113	14	68172250	A	T	7140	0.23	0.05	0.00	0.00	25.05
rs1437468	Stearoylcholine levels	GCST90200113	15	59840593	C	A	7140	0.21	0.04	0.00	0.00	23.18
rs12460146	Stearoylcholine levels	GCST90200113	19	13659680	G	T	7140	0.14	0.03	0.00	0.00	20.17
rs2116951	Stearoylcholine levels	GCST90200113	19	15936996	A	G	7140	-0.24	0.05	0.00	0.00	21.07
rs3764545	Stearoylcholine levels	GCST90200113	19	51724678	A	T	7140	0.09	0.02	0.00	0.00	20.36

rs14277139 2	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	1	44096133	C	T	7274	-0.24	0.05	0.00	0.00	22.27
rs4298684	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	1	69655913	G	A	7274	0.07	0.02	0.00	0.00	20.23
rs7529227	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	1	179359991	T	C	7274	0.07	0.02	0.00	0.00	20.35
rs12492244	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	3	72380468	T	C	7274	0.11	0.02	0.00	0.00	20.64
rs9790720	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	4	47552471	A	T	7274	0.23	0.02	0.00	0.02	143.31
rs6836669	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	4	48012960	C	A	7274	-0.08	0.02	0.00	0.00	21.75
rs648658	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	5	32537486	G	A	7274	0.08	0.02	0.00	0.00	25.95
rs12519983	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	5	142869137	A	G	7274	-0.20	0.04	0.00	0.00	20.44
rs58414413	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	7	72429942	A	C	7274	0.44	0.10	0.00	0.00	19.82
rs9644268	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	8	3249536	A	G	7274	0.09	0.02	0.00	0.00	20.18
rs10962813	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	9	17006149	G	T	7274	-0.10	0.02	0.00	0.00	19.52
rs2381400	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	9	35776422	A	G	7274	0.10	0.02	0.00	0.00	33.70
rs12777753	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	10	53337866	G	C	7274	0.23	0.05	0.00	0.00	19.53
rs10762405	Glycosyl-N- tricosanoyl- sphingadienin e (d18:2/23:0) levels	GCST90200114	10	70808679	G	A	7274	0.11	0.02	0.00	0.01	37.88

rs72847468	Glycosyl-N-tricosanoyl-sphingadienine (d18:2/23:0) levels	GCST90200114	11	8002418	A	G	7274	0.23	0.05	0.00	0.00	19.71
rs10833344	Glycosyl-N-tricosanoyl-sphingadienine (d18:2/23:0) levels	GCST90200114	11	20518931	T	G	7274	0.08	0.02	0.00	0.00	21.49
rs10507263	Glycosyl-N-tricosanoyl-sphingadienine (d18:2/23:0) levels	GCST90200114	12	115501562	G	A	7274	0.23	0.05	0.00	0.00	19.71
rs61994170	Glycosyl-N-tricosanoyl-sphingadienine (d18:2/23:0) levels	GCST90200114	14	20437128	C	G	7274	0.13	0.03	0.00	0.00	20.12
rs112135815	Glycosyl-N-tricosanoyl-sphingadienine (d18:2/23:0) levels	GCST90200114	14	20596191	C	G	7274	-0.17	0.04	0.00	0.00	20.85
rs17821316	Glycosyl-N-tricosanoyl-sphingadienine (d18:2/23:0) levels	GCST90200114	15	58410870	C	A	7274	-0.08	0.02	0.00	0.00	21.82
rs1317998	Glycosyl-N-tricosanoyl-sphingadienine (d18:2/23:0) levels	GCST90200114	15	68603680	G	C	7274	-0.11	0.02	0.00	0.00	21.75
rs73516870	Glycosyl-N-tricosanoyl-sphingadienine (d18:2/23:0) levels	GCST90200114	16	4654908	C	T	7274	-0.19	0.04	0.00	0.00	22.26
rs117540983	Glycosyl-N-tricosanoyl-sphingadienine (d18:2/23:0) levels	GCST90200114	18	46188490	T	C	7274	0.27	0.06	0.00	0.00	19.81
rs58899108	Glycosyl-N-tricosanoyl-sphingadienine (d18:2/23:0) levels	GCST90200114	18	64238586	C	G	7274	-0.24	0.05	0.00	0.00	20.35
rs113481357	Glycosyl-N-tricosanoyl-sphingadienine (d18:2/23:0) levels	GCST90200114	21	15950056	A	G	7274	-0.19	0.04	0.00	0.00	20.43
rs1573990	N-palmitoyl-heptadecasphingosine (d17:1/16:0) levels	GCST90200115	2	555344	C	A	7141	0.14	0.03	0.00	0.00	23.00
rs17031350	N-palmitoyl-heptadecasphingosine (d17:1/16:0) levels	GCST90200115	2	66022010	C	T	7141	0.12	0.03	0.00	0.00	19.96
rs72943009	N-palmitoyl-heptadecasphingosine (d17:1/16:0) levels	GCST90200115	2	105240850	T	C	7141	-0.10	0.02	0.00	0.00	19.99

[illegible]

rs182222140	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	11	49691917	A	G	7141	0.12	0.03	0.00	0.00	21.25
rs113061188	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	11	97998828	T	C	7141	0.18	0.04	0.00	0.00	20.13
rs11604424	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	11	116780399	T	C	7141	-0.10	0.02	0.00	0.00	26.64
rs4411320	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	12	20768774	T	G	7141	0.08	0.02	0.00	0.00	22.77
rs61955719	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	13	37889677	T	G	7141	-0.13	0.03	0.00	0.00	24.59
rs77387990	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	14	33224357	C	T	7141	-0.24	0.05	0.00	0.00	22.38
rs7157785	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	14	63768838	T	G	7141	0.26	0.02	0.00	0.02	145.93
rs77106385	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	16	75776586	C	A	7141	0.10	0.02	0.00	0.00	20.88
rs1031556	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	18	9760719	C	G	7141	0.10	0.02	0.00	0.00	20.45
rs364585	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	20	12982070	G	A	7141	-0.10	0.02	0.00	0.01	36.80
rs2824628	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	21	18111410	C	G	7141	0.08	0.02	0.00	0.00	19.67
rs28625148	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	21	39650756	A	G	7141	-0.10	0.02	0.00	0.00	20.17
rs9616420	N-palmitoyl-heptadecasphe ngosine (d17:1/16:0) levels	GCST90200115	22	49052888	C	G	7141	-0.08	0.02	0.00	0.00	20.53
rs11161452	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	1	84780335	T	C	7270	-0.08	0.02	0.00	0.00	22.62
rs12095436	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	1	242914882	T	C	7270	0.10	0.02	0.00	0.00	27.05

rs115270315	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	2	82092170	T	G	7270	0.29	0.06	0.00	0.00	22.76
rs17202705	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	3	111344336	G	A	7270	0.33	0.07	0.00	0.00	19.89
rs13118779	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	4	124545131	G	A	7270	0.14	0.03	0.00	0.00	21.52
rs34482676	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	5	1687964	C	T	7270	-0.08	0.02	0.00	0.00	22.00
rs2364208	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	5	89027679	A	G	7270	-0.08	0.02	0.00	0.00	24.90
rs372778914	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	7	57090957	A	C	7270	-0.18	0.04	0.00	0.00	20.37
rs4595052	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	7	85659199	A	G	7270	-0.11	0.03	0.00	0.00	19.69
rs79015167	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	7	106369986	C	T	7270	-0.14	0.03	0.00	0.00	27.08
rs113385008	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	7	141645682	T	C	7270	-0.25	0.05	0.00	0.00	22.09
rs116882499	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	9	109181271	T	G	7270	-0.18	0.04	0.00	0.00	23.00
rs7903259	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	10	17217643	G	C	7270	0.08	0.02	0.00	0.00	21.20
rs11028188	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	11	3574876	C	A	7270	-0.10	0.02	0.00	0.00	20.16
rs11038261	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	11	45008926	A	G	7270	0.10	0.02	0.00	0.00	27.80
rs519790	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	11	72793096	G	C	7270	-0.08	0.02	0.00	0.00	24.06
rs2601669	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	11	97536844	A	G	7270	0.08	0.02	0.00	0.00	23.49
rs10743983	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	12	12396207	G	A	7270	-0.08	0.02	0.00	0.00	22.05
rs10880961	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	12	46371445	G	C	7270	-0.08	0.02	0.00	0.00	20.48
rs1875141	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	12	117107206	T	A	7270	-0.08	0.02	0.00	0.00	20.61

rs8002828	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	13	43018832	A	C	7270	-0.11	0.02	0.00	0.00	24.02
rs9671590	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	14	41459706	C	T	7270	-0.13	0.03	0.00	0.00	19.68
rs7160525	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	14	63765502	A	G	7270	0.26	0.02	0.00	0.02	142.08
rs13903611 7	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	16	8724009	G	T	7270	-0.18	0.04	0.00	0.00	19.96
rs62039874	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	16	52147751	C	G	7270	0.37	0.08	0.00	0.00	21.70
rs11202943 6	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	16	63361882	T	C	7270	-0.19	0.04	0.00	0.00	20.27
rs1715490	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	17	77283101	T	C	7270	0.10	0.02	0.00	0.00	20.59
rs14687602 0	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	20	8630393	T	G	7270	0.35	0.08	0.00	0.00	20.46
rs360537	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	20	13004004	G	A	7270	-0.10	0.02	0.00	0.00	27.67
rs6079778	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	20	15354243	T	C	7270	-0.08	0.02	0.00	0.00	19.97
rs11752842 4	Ceramide (d18:1/14:0, d16:1/16:0) levels	GCST90200116	22	25092024	T	C	7270	-0.34	0.07	0.00	0.00	22.40
rs11528052 3	Glycosyl-N-(2- hydroxynervo nol)- sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	1	173180248	A	G	8012	-0.22	0.04	0.00	0.00	25.78
rs14380449 4	Glycosyl-N-(2- hydroxynervo nol)- sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	2	23567206	G	A	8012	-0.39	0.08	0.00	0.00	20.96
rs6706144	Glycosyl-N-(2- hydroxynervo nol)- sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	2	48943438	G	A	8012	-0.14	0.03	0.00	0.00	20.50
rs1047891	Glycosyl-N-(2- hydroxynervo nol)- sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	2	210675783	A	C	8012	0.11	0.02	0.00	0.01	46.51
rs4391005	Glycosyl-N-(2- hydroxynervo nol)- sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	4	47543111	G	A	8012	0.09	0.02	0.00	0.00	32.14

rs13116684	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	4	48035909	G	A	8012	0.31	0.02	0.00	0.04	305.67
rs2220910	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	4	89466358	G	A	8012	-0.07	0.01	0.00	0.00	20.99
rs62347983	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	4	164209228	G	C	8012	-0.07	0.01	0.00	0.00	20.14
rs76658205	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	5	61338791	A	G	8012	0.13	0.03	0.00	0.00	19.87
rs561151744	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	5	142061980	T	C	8012	-0.27	0.06	0.00	0.00	20.00
rs60646696	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	5	151053096	C	T	8012	-0.13	0.03	0.00	0.00	24.52
rs2677031	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	7	93682399	C	T	8012	-0.09	0.02	0.00	0.00	19.77
rs4240624	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	8	9326721	A	G	8012	0.13	0.03	0.00	0.00	25.03
rs138659965	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	8	113336716	T	C	8012	0.26	0.06	0.00	0.00	21.42
rs10090415	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	8	116116729	C	T	8012	0.07	0.02	0.00	0.00	19.85
rs13271478	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	8	126909039	G	A	8012	0.07	0.02	0.00	0.00	20.41
rs1570249	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	9	35752255	A	G	8012	0.13	0.01	0.00	0.01	81.29

rs16916456	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	9	111910585	T	C	8012	0.13	0.03	0.00	0.00	25.38
rs11221838	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	11	129784752	G	T	8012	-0.07	0.01	0.00	0.00	24.54
rs558813	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	11	129852658	T	C	8012	0.19	0.02	0.00	0.01	101.12
rs73090746	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	12	32821589	T	C	8012	0.27	0.06	0.00	0.00	20.52
rs17225440	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	12	69654239	G	C	8012	-0.07	0.01	0.00	0.00	20.67
rs12811045	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	12	115089698	G	A	8012	0.10	0.02	0.00	0.00	31.28
rs142072590	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	14	27798065	A	C	8012	-0.25	0.05	0.00	0.00	21.70
rs28929474	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	14	94378610	T	C	8012	0.27	0.06	0.00	0.00	24.61
rs149732175	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	15	89350143	A	G	8012	-0.37	0.08	0.00	0.00	20.33
rs117127635	Glycosyl-N-(2-hydroxynervonoyl)-sphingosine (d18:1/24:1(2 OH)) levels	GCST90200117	18	58463331	T	C	8012	0.19	0.04	0.00	0.00	20.31
rs72654473	Glycosyl ceramide (d18:1/24:1(2 OH)) levels	GCST90200117	19	44911142	A	C	8012	-0.12	0.02	0.00	0.00	26.87
rs58330544	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	1	54349820	A	C	8251	-0.25	0.06	0.00	0.00	19.54

rs61769370	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	1	54900008	C	G	8251	0.20	0.04	0.00	0.00	20.02
rs11591147	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	1	55039974	T	G	8251	-0.26	0.06	0.00	0.00	22.30
rs557026	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	1	94006933	C	T	8251	0.11	0.02	0.00	0.00	20.88
rs78132593	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	1	150895626	A	C	8251	-0.10	0.02	0.00	0.00	26.93
rs4851005	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	2	102395092	T	C	8251	-0.07	0.02	0.00	0.00	22.47
rs6752443	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	2	138047335	A	C	8251	0.07	0.02	0.00	0.00	19.95
rs62177321	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	2	160393518	T	C	8251	-0.16	0.04	0.00	0.00	19.53
rs6795777	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	3	68741067	T	G	8251	0.07	0.02	0.00	0.00	22.71
rs18325837 9	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	3	105510233	T	G	8251	0.38	0.08	0.00	0.00	21.17
rs9880192	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	3	128578726	C	G	8251	-0.07	0.02	0.00	0.00	21.01
rs75522447	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	3	156174210	T	C	8251	0.29	0.07	0.00	0.00	20.08
rs56328310	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	4	10340325	A	G	8251	-0.08	0.02	0.00	0.00	19.81
rs35818294	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	4	47543124	A	C	8251	0.31	0.02	0.00	0.03	255.22
rs6811245	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	4	48026772	G	A	8251	0.12	0.02	0.00	0.01	62.39

rs74318086	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	4	181153672	T	C	8251	0.25	0.06	0.00	0.00	20.35
rs31468	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	5	93445277	A	G	8251	0.08	0.02	0.00	0.00	19.92
rs7835344	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	8	5563684	A	G	8251	-0.07	0.02	0.00	0.00	22.22
rs28597716	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	8	20079176	G	A	8251	0.09	0.02	0.00	0.00	22.86
rs12546225	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	8	58394779	G	A	8251	-0.10	0.02	0.00	0.00	20.62
rs62534654	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	9	9255976	C	G	8251	-0.07	0.02	0.00	0.00	21.41
rs11358779 2	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	9	15751500	C	T	8251	-0.32	0.07	0.00	0.00	21.42
rs10758265	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	9	34543606	A	G	8251	-0.08	0.02	0.00	0.00	26.07
rs3750434	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	9	35739879	A	G	8251	0.09	0.02	0.00	0.00	35.99
rs77654326	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	9	114634474	T	G	8251	-0.23	0.04	0.00	0.00	28.20
rs7093309	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	10	70805480	A	G	8251	0.08	0.02	0.00	0.00	23.67
rs7933103	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	11	8217501	C	T	8251	-0.10	0.02	0.00	0.00	19.72
rs7126829	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	11	123422642	G	A	8251	-0.09	0.02	0.00	0.00	20.37
rs2203544	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	12	73221455	G	C	8251	0.11	0.02	0.00	0.00	20.87

rs73163293	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	13	20594273	G	A	8251	-0.16	0.04	0.00	0.00	21.91
rs4778183	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	15	27816530	T	C	8251	0.08	0.01	0.00	0.00	25.60
rs11858759	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	15	58384622	A	G	8251	0.09	0.02	0.00	0.00	33.48
rs15102926 0	Glycosyl ceramide (d18:2/24:1, d18:1/24:2) levels	GCST90200118	20	10871132	A	G	8251	-0.27	0.06	0.00	0.00	19.77
rs35152564	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	1	39811265	G	A	5309	-0.15	0.03	0.00	0.00	19.68
rs13018667	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	2	41876543	G	C	5309	-0.13	0.03	0.00	0.00	19.53
rs35818294	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	4	47543124	A	C	5309	0.19	0.02	0.00	0.01	58.65
rs13131366	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	4	92836128	G	A	5309	-0.13	0.03	0.00	0.00	19.74
rs7671991	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	4	153377922	C	T	5309	0.11	0.02	0.00	0.00	21.31
rs76165128	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	4	169371923	G	A	5309	-0.31	0.07	0.00	0.00	20.11
rs11748249	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	5	36683786	A	G	5309	-0.13	0.02	0.00	0.01	26.70
rs78877242	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	5	44319248	A	G	5309	-0.46	0.10	0.00	0.00	20.03
rs13154003	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	5	125723535	T	C	5309	-0.09	0.02	0.00	0.00	19.74
rs3895328	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	6	3750489	C	T	5309	0.10	0.02	0.00	0.00	21.69

rs142185350	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	6	41245865	G	A	5309	-0.14	0.03	0.00	0.00	20.07
rs10245174	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	7	71132282	C	G	5309	0.09	0.02	0.00	0.00	21.16
rs77654326	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	9	114634474	T	G	5309	-0.25	0.06	0.00	0.00	19.61
rs2184532	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	10	1908318	G	A	5309	-0.12	0.02	0.00	0.00	22.29
rs41277356	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	10	18002293	G	A	5309	-0.28	0.06	0.00	0.00	20.40
rs139354396	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	10	30049013	G	A	5309	-0.27	0.06	0.00	0.00	22.67
rs11008522	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	10	31543676	G	C	5309	-0.85	0.16	0.00	0.01	28.79
rs7160525	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	14	63765502	A	G	5309	0.16	0.03	0.00	0.01	38.70
rs147755921	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	18	36972085	G	A	5309	-0.39	0.09	0.00	0.00	20.54
rs899211	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	19	8146113	T	C	5309	-0.23	0.05	0.00	0.00	25.12
rs145531276	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	19	40154864	C	A	5309	-0.27	0.06	0.00	0.00	21.71
rs438568	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	20	12978039	G	A	5309	-0.11	0.02	0.00	0.01	32.57
rs1205209	Glycosyl ceramide (d18:1/23:1, d17:1/24:1) levels	GCST90200119	20	18178445	C	G	5309	0.14	0.03	0.00	0.00	19.93
rs191057787	Sphingadienine levels	GCST90200120	1	215918068	G	A	4533	0.64	0.14	0.00	0.00	19.87
rs896759	Sphingadienine levels	GCST90200120	2	11073517	G	A	4533	-0.10	0.02	0.00	0.00	21.82
rs149679349	Sphingadienine levels	GCST90200120	2	60975699	C	T	4533	-0.39	0.09	0.00	0.00	20.26
rs907109	Sphingadienine levels	GCST90200120	2	238657668	T	C	4533	0.13	0.03	0.00	0.00	20.65

rs595213	Sphingadienin e levels	GCST90200120	3	9030444	G	A	4533	-0.11	0.02	0.00	0.00	19.83
rs1354034	Sphingadienin e levels	GCST90200120	3	56815721	C	T	4533	0.14	0.02	0.00	0.01	40.47
rs56872540	Sphingadienin e levels	GCST90200120	3	192786100	A	G	4533	-0.29	0.06	0.00	0.00	21.05
rs249644	Sphingadienin e levels	GCST90200120	5	142208155	T	C	4533	-0.20	0.04	0.00	0.00	20.59
rs6454801	Sphingadienin e levels	GCST90200120	6	90096756	G	T	4533	-0.12	0.03	0.00	0.01	23.02
rs20111248 0	Sphingadienin e levels	GCST90200120	7	76911161	G	C	4533	-0.31	0.07	0.00	0.00	21.15
rs34601117	Sphingadienin e levels	GCST90200120	8	23224751	G	C	4533	-0.49	0.10	0.00	0.01	24.00
rs28509369	Sphingadienin e levels	GCST90200120	8	106342771	A	T	4533	-0.10	0.02	0.00	0.00	22.21
rs1432413	Sphingadienin e levels	GCST90200120	10	62217881	T	A	4533	0.10	0.02	0.00	0.00	20.13
rs845086	Sphingadienin e levels	GCST90200120	10	123454284	C	A	4533	-0.10	0.02	0.00	0.00	21.57
rs55713821	Sphingadienin e levels	GCST90200120	11	247998	T	C	4533	0.16	0.03	0.00	0.00	21.88
rs11074118	Sphingadienin e levels	GCST90200120	15	92905834	A	G	4533	-0.11	0.02	0.00	0.01	23.08
rs4485369	Sphingadienin e levels	GCST90200120	16	8835987	A	G	4533	-0.12	0.03	0.00	0.00	21.72
rs77856647	Sphingadienin e levels	GCST90200120	17	76355436	C	T	4533	-0.18	0.04	0.00	0.00	20.63
rs72865921	Sphingadienin e levels	GCST90200120	18	2403125	G	A	4533	0.24	0.05	0.00	0.00	20.85
rs7257005	Sphingadienin e levels	GCST90200120	19	13858654	C	G	4533	-0.27	0.06	0.00	0.00	19.68
rs35823145	Sphingadienin e levels	GCST90200120	21	39011716	T	C	4533	-0.16	0.04	0.00	0.00	19.69
rs35781710	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	1	69995202	A	C	6073	0.13	0.03	0.00	0.00	20.18
rs75855265	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	1	82735565	C	T	6073	-0.21	0.04	0.00	0.00	22.46
rs17014758	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	1	209565446	A	G	6073	-0.43	0.09	0.00	0.00	25.05
rs6710302	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	2	117106296	C	T	6073	0.11	0.02	0.00	0.00	20.54
rs77517004	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	2	179722328	T	C	6073	-0.18	0.04	0.00	0.00	19.85
rs73122611	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	3	9270674	A	G	6073	-0.47	0.10	0.00	0.00	21.15
rs7656211	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	4	73772232	A	T	6073	0.31	0.07	0.00	0.00	19.89
rs35767836	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	5	38438403	C	G	6073	-0.33	0.07	0.00	0.00	20.09
rs71599732	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	5	164271903	T	A	6073	-0.37	0.08	0.00	0.00	21.40
rs59809020	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	7	90138220	G	A	6073	-0.10	0.02	0.00	0.00	24.53

rs112802874	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	10	87880264	G	T	6073	0.18	0.04	0.00	0.00	20.44
rs57616328	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	11	33852112	T	C	6073	-0.78	0.17	0.00	0.00	21.67
rs11604424	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	11	116780399	T	C	6073	-0.10	0.02	0.00	0.00	21.18
rs113650084	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	12	586110	A	G	6073	-0.48	0.10	0.00	0.00	22.91
rs117916590	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	12	13174789	A	G	6073	0.25	0.05	0.00	0.00	21.21
rs116883956	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	13	29367819	T	C	6073	-0.42	0.09	0.00	0.00	20.38
rs9788374	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	13	78058151	C	T	6073	-0.10	0.02	0.00	0.00	19.64
rs12879147	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	14	63760878	A	G	6073	0.17	0.03	0.00	0.01	42.01
rs149900346	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	14	65308012	T	C	6073	0.23	0.05	0.00	0.00	20.06
rs13335244	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	16	60556837	T	C	6073	-0.12	0.02	0.00	0.00	26.23
rs73444389	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	18	40844702	A	C	6073	0.14	0.03	0.00	0.00	22.34
rs4804286	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	19	8201555	C	G	6073	-0.11	0.02	0.00	0.00	25.89
rs6078868	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	20	12995608	C	A	6073	-0.09	0.02	0.00	0.00	21.65
rs1003023	Ceramide (d18:1/17:0, d17:1/18:0) levels	GCST90200121	22	44615811	C	G	6073	0.25	0.05	0.00	0.00	24.47
rs12062434	Nisinate (24:6n3) levels	GCST90200122	1	165405451	A	G	4765	-0.25	0.05	0.00	0.00	20.17
rs138375255	Nisinate (24:6n3) levels	GCST90200122	1	219381127	T	G	4765	-0.43	0.09	0.00	0.00	21.58
rs151201576	Nisinate (24:6n3) levels	GCST90200122	2	36798645	A	G	4765	-0.33	0.07	0.00	0.00	22.22
rs59644933	Nisinate (24:6n3) levels	GCST90200122	2	71512143	A	G	4765	0.16	0.04	0.00	0.00	20.62
rs114264974	Nisinate (24:6n3) levels	GCST90200122	3	141580492	G	A	4765	0.34	0.08	0.00	0.00	19.51
rs4862485	Nisinate (24:6n3) levels	GCST90200122	4	184991686	A	G	4765	0.09	0.02	0.00	0.00	19.55
rs2295601	Nisinate (24:6n3) levels	GCST90200122	6	11005453	A	G	4765	-0.15	0.02	0.00	0.01	37.92
rs60121735	Nisinate (24:6n3) levels	GCST90200122	6	68572416	C	G	4765	0.17	0.04	0.00	0.00	22.04
rs1525551	Nisinate (24:6n3) levels	GCST90200122	7	3180036	C	A	4765	0.12	0.02	0.00	0.00	22.46

rs35638664	Nisinate (24:6n3) levels	GCST90200122	8	57796789	G	A	4765	0.11	0.02	0.00	0.00	21.45
rs7839760	Nisinate (24:6n3) levels	GCST90200122	8	119409294	C	T	4765	-0.10	0.02	0.00	0.00	19.70
rs76875443	Nisinate (24:6n3) levels	GCST90200122	9	33236681	A	G	4765	0.32	0.07	0.00	0.00	21.92
rs79950608	Nisinate (24:6n3) levels	GCST90200122	9	110873692	T	C	4765	0.22	0.05	0.00	0.00	21.34
rs7080943	Nisinate (24:6n3) levels	GCST90200122	10	89520812	C	T	4765	0.11	0.02	0.00	0.00	20.69
rs174535	Nisinate (24:6n3) levels	GCST90200122	11	61783884	C	T	4765	-0.16	0.02	0.00	0.01	50.27
rs11147620	Nisinate (24:6n3) levels	GCST90200122	13	20296013	G	A	4765	-0.31	0.07	0.00	0.00	19.51
rs78322108	Nisinate (24:6n3) levels	GCST90200122	16	6489046	T	C	4765	0.12	0.03	0.00	0.00	23.26
rs11221862 8	Nisinate (24:6n3) levels Sphingomyelin	GCST90200122	17	37769586	A	G	4765	-0.39	0.09	0.00	0.00	19.63
rs11666570 0	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	1	62889462	A	T	8277	-0.18	0.04	0.00	0.00	19.83
rs12740374	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	1	109274968	T	G	8277	-0.08	0.02	0.00	0.00	21.36
rs885256	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	1	163798878	C	A	8277	-0.10	0.02	0.00	0.00	28.93
rs6682551	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	1	224164556	C	T	8277	-0.12	0.02	0.00	0.01	59.52
rs15074135 3	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	3	127853209	C	T	8277	-0.41	0.09	0.00	0.00	21.25
rs62274967	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	3	152810400	G	A	8277	-0.16	0.03	0.00	0.00	23.65
rs11539671 3	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	3	183451597	A	G	8277	0.17	0.03	0.00	0.00	22.68
rs11580763 7	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	3	192027328	A	G	8277	0.26	0.05	0.00	0.00	23.11
rs11458125 4	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	4	174454297	C	T	8277	0.38	0.08	0.00	0.00	23.26
rs282400	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	5	73966775	T	G	8277	0.51	0.11	0.00	0.00	20.55
rs73358711	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	6	3358045	T	A	8277	-0.15	0.03	0.00	0.00	20.88
rs11236060 8	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	6	142062349	A	G	8277	-0.34	0.08	0.00	0.00	20.28
rs55179385 4	(d18:0/20:0, d16:0/22:0) levels Sphingomyelin	GCST90200123	7	20543131	A	C	8277	-0.25	0.05	0.00	0.00	21.86
rs1229670	(d18:0/20:0, d16:0/22:0) levels	GCST90200123	7	26407401	G	A	8277	-0.20	0.04	0.00	0.00	21.75

rs185199035	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	7	154332139	T	C	8277	-0.21	0.05	0.00	0.00	20.34
rs113928913	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	8	52073216	T	C	8277	-0.30	0.06	0.00	0.00	26.36
rs12549275	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	8	83854796	A	G	8277	0.07	0.02	0.00	0.00	20.93
rs2448907	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	8	94313539	C	A	8277	-0.20	0.04	0.00	0.00	23.46
rs2954021	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	8	125469835	G	A	8277	-0.10	0.02	0.00	0.01	47.00
rs45461899	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	9	92068074	A	C	8277	-0.29	0.05	0.00	0.00	37.85
rs1800978	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	9	104903697	G	C	8277	-0.11	0.02	0.00	0.00	22.97
rs12360465	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	10	69795096	A	G	8277	-0.26	0.06	0.00	0.00	19.99
rs117978826	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	10	76915430	G	A	8277	0.23	0.05	0.00	0.00	20.13
rs71483327	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	10	80917786	T	C	8277	0.36	0.08	0.00	0.00	21.62
rs184860164	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	10	103867854	T	C	8277	0.25	0.05	0.00	0.00	26.72
rs72887200	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	11	5898031	A	T	8277	-0.13	0.03	0.00	0.00	19.54
rs75793118	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	11	79412113	A	G	8277	-0.19	0.04	0.00	0.00	19.77
rs2244608	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	12	120979185	G	A	8277	0.12	0.02	0.00	0.01	50.19
rs9587349	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	13	107319773	T	C	8277	-0.07	0.02	0.00	0.00	20.34
rs7152871	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	14	37780729	A	G	8277	0.10	0.02	0.00	0.00	21.01
rs16970598	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	15	33400645	T	C	8277	-0.26	0.06	0.00	0.00	22.46
rs28403022	Sphingomyelin (d18:0/20:0, d16:0/22:0) levels	GCST90200123	15	47748722	G	A	8277	0.07	0.02	0.00	0.00	20.93

rs79391862	levels Sphingomyelin (d18:0/20:0, d16:0/22:0)	GCST90200123	15	53447229	C	A	8277	-0.29	0.06	0.00	0.00	20.62
rs11870485	levels Sphingomyelin (d18:0/20:0, d16:0/22:0)	GCST90200123	17	2802607	A	C	8277	-0.10	0.02	0.00	0.00	19.79
rs2531890	levels Sphingomyelin (d18:0/20:0, d16:0/22:0)	GCST90200123	17	27846242	T	C	8277	0.32	0.07	0.00	0.00	20.92
rs2586460	levels Sphingomyelin (d18:0/20:0, d16:0/22:0)	GCST90200123	17	50349830	T	C	8277	0.07	0.01	0.00	0.00	21.04
rs111481700	levels Sphingomyelin (d18:0/20:0, d16:0/22:0)	GCST90200123	17	66690649	A	G	8277	-0.22	0.05	0.00	0.00	19.84
rs8072916	levels Sphingomyelin (d18:0/20:0, d16:0/22:0)	GCST90200123	17	80249735	A	G	8277	-0.27	0.05	0.00	0.00	24.50
rs1139403	levels Sphingomyelin (d18:0/20:0, d16:0/22:0)	GCST90200123	17	81512766	A	G	8277	0.19	0.04	0.00	0.00	23.26
rs7246900	levels Sphingomyelin (d18:0/20:0, d16:0/22:0)	GCST90200123	19	44950979	A	G	8277	-0.08	0.02	0.00	0.00	24.35
rs11564584	levels Sphingomyelin (d18:0/20:0, d16:0/22:0)	GCST90200123	19	48085889	G	A	8277	-0.13	0.03	0.00	0.00	20.01
rs364585	levels Sphingomyelin (d18:0/20:0, d16:0/22:0)	GCST90200123	20	12982070	G	A	8277	-0.29	0.02	0.00	0.04	370.96
rs41296243	levels Sphingomyelin (d18:0/20:0, d16:0/22:0)	GCST90200123	22	37725033	T	C	8277	-0.21	0.05	0.00	0.00	19.82
rs557026	levels Sphingomyelin (d18:2/24:2)	GCST90200124	1	94006933	C	T	8140	0.11	0.02	0.00	0.00	23.11
rs140031315	levels Sphingomyelin (d18:2/24:2)	GCST90200124	1	95453650	G	A	8140	-0.23	0.05	0.00	0.00	22.87
rs146383847	levels Sphingomyelin (d18:2/24:2)	GCST90200124	1	172823806	A	G	8140	0.25	0.05	0.00	0.00	22.00
rs494790	levels Sphingomyelin (d18:2/24:2)	GCST90200124	1	207931971	C	T	8140	0.18	0.04	0.00	0.00	22.62
rs11687944	levels Sphingomyelin (d18:2/24:2)	GCST90200124	2	1492650	G	C	8140	-0.14	0.03	0.00	0.00	19.82
rs1728911	levels Sphingomyelin (d18:2/24:2)	GCST90200124	2	27427062	G	T	8140	0.08	0.01	0.00	0.00	27.98
rs149146854	levels Sphingomyelin (d18:2/24:2)	GCST90200124	2	104464151	C	A	8140	0.20	0.04	0.00	0.00	21.87
rs6535998	levels Sphingomyelin (d18:2/24:2)	GCST90200124	4	154349473	G	T	8140	0.14	0.03	0.00	0.00	21.37
rs72800392	levels Sphingomyelin (d18:2/24:2)	GCST90200124	5	135020371	T	C	8140	-0.07	0.02	0.00	0.00	21.98
rs6580355	levels Sphingomyelin (d18:2/24:2)	GCST90200124	5	145205804	T	C	8140	-0.06	0.01	0.00	0.00	19.68

rs6883116	Sphingomyelin (d18:2/24:2) levels	GCST90200124	5	179803321	C	T	8140	0.07	0.01	0.00	0.00	24.63
rs9366722	Sphingomyelin (d18:2/24:2) levels	GCST90200124	6	11087547	T	C	8140	-0.08	0.02	0.00	0.00	22.22
rs17145750	Sphingomyelin (d18:2/24:2) levels	GCST90200124	7	73612048	T	C	8140	0.09	0.02	0.00	0.00	20.81
rs9644338	Sphingomyelin (d18:2/24:2) levels	GCST90200124	8	3321571	G	C	8140	0.06	0.01	0.00	0.00	19.64
rs11784967	Sphingomyelin (d18:2/24:2) levels	GCST90200124	8	26636780	A	G	8140	0.08	0.02	0.00	0.00	20.01
rs7004838	Sphingomyelin (d18:2/24:2) levels	GCST90200124	8	129378325	T	C	8140	-0.07	0.02	0.00	0.00	19.69
rs71509523	Sphingomyelin (d18:2/24:2) levels	GCST90200124	9	120488315	T	C	8140	-0.37	0.08	0.00	0.00	20.73
rs10904088	Sphingomyelin (d18:2/24:2) levels	GCST90200124	10	3744284	G	A	8140	0.07	0.01	0.00	0.00	23.70
rs14375050 4	Sphingomyelin (d18:2/24:2) levels	GCST90200124	10	89083766	T	C	8140	0.20	0.05	0.00	0.00	20.28
rs11788874 0	Sphingomyelin (d18:2/24:2) levels	GCST90200124	11	35011338	C	T	8140	-0.27	0.06	0.00	0.00	23.01
rs964184	Sphingomyelin (d18:2/24:2) levels	GCST90200124	11	116778201	C	G	8140	0.11	0.02	0.00	0.00	29.57
rs4964629	Sphingomyelin (d18:2/24:2) levels	GCST90200124	12	103828072	T	C	8140	0.07	0.02	0.00	0.00	19.67
rs34371091	Sphingomyelin (d18:2/24:2) levels	GCST90200124	14	20826443	T	G	8140	-0.12	0.03	0.00	0.00	19.80
rs34862991	Sphingomyelin (d18:2/24:2) levels	GCST90200124	14	45242113	T	C	8140	-0.17	0.03	0.00	0.00	22.79
rs14833741 2	Sphingomyelin (d17:2/16:0, d18:2/15:0) levels	GCST90200125	1	59749774	T	C	8264	0.27	0.06	0.00	0.00	20.06
rs79168525	Sphingomyelin (d17:2/16:0, d18:2/15:0) levels	GCST90200125	1	243462113	C	T	8264	-0.23	0.05	0.00	0.00	23.62
rs1260338	Sphingomyelin (d17:2/16:0, d18:2/15:0) levels	GCST90200125	2	27402794	G	A	8264	0.06	0.01	0.00	0.00	19.75
rs14719949 2	Sphingomyelin (d17:2/16:0, d18:2/15:0) levels	GCST90200125	2	85732053	T	C	8264	-0.11	0.03	0.00	0.00	20.02
rs11183236 2	Sphingomyelin (d17:2/16:0, d18:2/15:0) levels	GCST90200125	2	145416368	C	G	8264	-0.19	0.04	0.00	0.00	20.01
rs76586755	Sphingomyelin (d17:2/16:0, d18:2/15:0) levels	GCST90200125	3	20717334	G	A	8264	0.15	0.03	0.00	0.00	20.00
rs14340552 3	Sphingomyelin (d17:2/16:0, d18:2/15:0) levels	GCST90200125	3	21248606	T	C	8264	0.29	0.06	0.00	0.00	23.85
rs7651135	Sphingomyelin (d17:2/16:0, d18:2/15:0) levels	GCST90200125	3	33884832	C	A	8264	-0.07	0.01	0.00	0.00	24.59

rs6805378	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	3	143147671	T	G	8264	0.07	0.01	0.00	0.00	24.03
rs1229984	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	4	99318162	C	T	8264	-0.18	0.04	0.00	0.00	20.35
rs11319343 3	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	5	23807500	G	C	8264	0.25	0.06	0.00	0.00	19.74
rs11260996 3	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	5	120491127	T	C	8264	0.08	0.02	0.00	0.00	21.02
rs11593573 5	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	5	162373020	C	T	8264	0.25	0.05	0.00	0.00	21.37
rs15009854 0	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	6	168746013	G	A	8264	0.28	0.06	0.00	0.00	20.39
rs971619	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	8	14403798	C	A	8264	0.07	0.01	0.00	0.00	21.32
rs7009350	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	8	41224229	T	A	8264	-0.07	0.01	0.00	0.00	24.00
rs7812898	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	8	112624710	C	T	8264	0.09	0.02	0.00	0.00	19.99
rs78070419	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	9	122097081	C	T	8264	-0.23	0.05	0.00	0.00	20.05
rs3025294	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	9	133592380	C	T	8264	-0.06	0.01	0.00	0.00	19.91
rs11024617	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	11	1383011	A	G	8264	0.08	0.02	0.00	0.00	24.86
rs174458	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	11	61889523	T	C	8264	0.10	0.01	0.00	0.01	50.56
rs14805869 8	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	12	31978777	C	G	8264	-0.34	0.07	0.00	0.00	20.15
rs76609278	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	12	108915795	T	C	8264	0.21	0.05	0.00	0.00	19.69
rs11493274 0	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	12	124543565	A	G	8264	-0.15	0.03	0.00	0.00	25.89
rs7339393	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	13	60459643	T	C	8264	-0.12	0.03	0.00	0.00	21.59
rs7160525	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	14	63765502	A	G	8264	0.21	0.02	0.00	0.02	142.56

rs7197249	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	16	52703550	C	T	8264	0.19	0.04	0.00	0.00	22.29
rs77200070	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	18	7161693	T	C	8264	-0.23	0.05	0.00	0.00	21.60
rs62093969	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	18	59176394	C	T	8264	0.18	0.04	0.00	0.00	23.01
rs6078878	levels Sphingomyelin (d17:2/16:0, d18:2/15:0)	GCST90200125	20	13013354	G	T	8264	-0.07	0.01	0.00	0.00	23.06
rs184275849	levels Sphingomyelin (d18:2/23:1)	GCST90200126	1	157316478	T	C	8267	-0.32	0.07	0.00	0.00	21.33
rs114186474	levels Sphingomyelin (d18:2/23:1)	GCST90200126	3	39902547	G	C	8267	-0.14	0.03	0.00	0.00	19.64
rs35532899	levels Sphingomyelin (d18:2/23:1)	GCST90200126	4	153443140	G	A	8267	0.08	0.02	0.00	0.00	21.87
rs1472632	levels Sphingomyelin (d18:2/23:1)	GCST90200126	6	8262621	T	C	8267	-0.11	0.02	0.00	0.00	21.35
rs9501176	levels Sphingomyelin (d18:2/23:1)	GCST90200126	6	32319167	C	G	8267	0.15	0.03	0.00	0.00	19.57
rs150098540	levels Sphingomyelin (d18:2/23:1)	GCST90200126	6	168746013	G	A	8267	0.31	0.06	0.00	0.00	25.84
rs72608506	levels Sphingomyelin (d18:2/23:1)	GCST90200126	7	72435589	G	C	8267	0.37	0.08	0.00	0.00	20.50
rs1503277	levels Sphingomyelin (d18:2/23:1)	GCST90200126	8	3307071	A	C	8267	-0.06	0.01	0.00	0.00	21.84
rs7812898	levels Sphingomyelin (d18:2/23:1)	GCST90200126	8	112624710	C	T	8267	0.10	0.02	0.00	0.00	21.64
rs145123877	levels Sphingomyelin (d18:2/23:1)	GCST90200126	9	93077761	T	C	8267	-0.25	0.06	0.00	0.00	19.61
rs10748614	levels Sphingomyelin (d18:2/23:1)	GCST90200126	10	93780015	C	T	8267	0.08	0.02	0.00	0.00	23.90
rs11246045	levels Sphingomyelin (d18:2/23:1)	GCST90200126	11	274780	C	T	8267	0.11	0.02	0.00	0.00	22.61
rs174621	levels Sphingomyelin (d18:2/23:1)	GCST90200126	11	61862632	A	G	8267	-0.08	0.02	0.00	0.00	24.23
rs61888631	levels Sphingomyelin (d18:2/23:1)	GCST90200126	11	81222864	C	T	8267	0.10	0.02	0.00	0.00	20.21
rs573905	levels Sphingomyelin (d18:2/23:1)	GCST90200126	11	118701558	G	A	8267	-0.07	0.01	0.00	0.00	24.49
rs10849080	levels Sphingomyelin (d18:2/23:1)	GCST90200126	12	4469443	T	C	8267	-0.08	0.02	0.00	0.00	26.87
rs869416	levels Sphingomyelin (d18:2/23:1)	GCST90200126	12	30418598	G	C	8267	-0.07	0.01	0.00	0.00	19.82
rs148058698	levels Sphingomyelin (d18:2/23:1)	GCST90200126	12	31978777	C	G	8267	-0.38	0.07	0.00	0.00	26.27
rs4964629	levels Sphingomyelin (d18:2/23:1)	GCST90200126	12	103828072	T	C	8267	0.07	0.01	0.00	0.00	23.08

rs140182208	Sphingomyelin (d18:2/23:1) levels	GCST90200126	12	132686257	C	T	8267	-0.55	0.12	0.00	0.00	20.63
rs7160525	Sphingomyelin (d18:2/23:1) levels	GCST90200126	14	63765502	A	G	8267	0.16	0.02	0.00	0.01	81.30
rs174418	Sphingomyelin (d18:2/23:1) levels	GCST90200126	15	58395404	C	T	8267	-0.06	0.01	0.00	0.00	20.48
rs191055136	Sphingomyelin (d18:2/23:1) levels	GCST90200126	16	81172764	T	G	8267	-0.35	0.08	0.00	0.00	19.52
rs79451015	Sphingomyelin (d18:2/23:1) levels	GCST90200126	17	58039266	A	G	8267	-0.18	0.04	0.00	0.00	22.14
rs117624372	Sphingomyelin (d18:2/23:1) levels	GCST90200126	17	79699253	T	C	8267	-0.22	0.05	0.00	0.00	19.83
rs6078879	Sphingomyelin (d18:2/23:1) levels	GCST90200126	20	13013392	G	C	8267	-0.06	0.01	0.00	0.00	22.76
rs7280639	Sphingomyelin (d18:2/23:1) levels	GCST90200126	21	31874487	T	C	8267	-0.07	0.01	0.00	0.00	20.03
rs7531337	Behenoylcarni tine (C22)	GCST90200127	1	53176239	A	C	7368	0.10	0.02	0.00	0.00	27.06
rs11807602	Behenoylcarni tine (C22)	GCST90200127	1	93073392	G	C	7368	0.10	0.02	0.00	0.00	19.72
rs114483127	Behenoylcarni tine (C22)	GCST90200127	1	160371320	A	G	7368	-0.25	0.05	0.00	0.00	25.00
rs143641556	Behenoylcarni tine (C22)	GCST90200127	1	216396265	G	A	7368	0.34	0.07	0.00	0.00	22.19
rs72761840	Behenoylcarni tine (C22)	GCST90200127	1	224723818	A	G	7368	0.08	0.02	0.00	0.00	19.80
rs16831821	Behenoylcarni tine (C22)	GCST90200127	2	189641087	G	A	7368	-0.11	0.02	0.00	0.00	23.58
rs17065144	Behenoylcarni tine (C22)	GCST90200127	3	61642467	G	A	7368	-0.20	0.04	0.00	0.00	22.45
rs57063692	Behenoylcarni tine (C22)	GCST90200127	3	173801541	C	A	7368	0.79	0.17	0.00	0.00	20.82
rs6824723	Behenoylcarni tine (C22)	GCST90200127	4	82641160	G	A	7368	0.19	0.02	0.00	0.01	84.29
rs10058074	Behenoylcarni tine (C22)	GCST90200127	5	132350453	A	G	7368	-0.09	0.02	0.00	0.00	29.13
rs115011904	Behenoylcarni tine (C22)	GCST90200127	6	51842378	T	C	7368	0.18	0.04	0.00	0.00	22.04
rs6570859	Behenoylcarni tine (C22)	GCST90200127	6	148508169	T	C	7368	0.08	0.02	0.00	0.00	20.85
rs140501782	Behenoylcarni tine (C22)	GCST90200127	7	54321751	G	A	7368	0.26	0.06	0.00	0.00	19.93
rs143766341	Behenoylcarni tine (C22)	GCST90200127	7	123575586	G	A	7368	-0.27	0.06	0.00	0.00	19.51
rs13233487	Behenoylcarni tine (C22)	GCST90200127	7	123930080	C	T	7368	0.15	0.03	0.00	0.00	21.48
rs12544463	Behenoylcarni tine (C22)	GCST90200127	8	86468885	G	A	7368	0.17	0.02	0.00	0.01	86.69
rs147176120	Behenoylcarni tine (C22)	GCST90200127	9	132462641	T	C	7368	0.31	0.06	0.00	0.00	24.58
rs605643	Behenoylcarni tine (C22)	GCST90200127	9	135065361	A	T	7368	0.28	0.06	0.00	0.00	21.44
rs10752124	Behenoylcarni tine (C22)	GCST90200127	10	8004957	C	T	7368	-0.08	0.02	0.00	0.00	23.13
rs4492825	Behenoylcarni tine (C22)	GCST90200127	11	23510008	C	A	7368	0.08	0.02	0.00	0.00	23.31
rs2728811	Behenoylcarni tine (C22)	GCST90200127	12	17534794	G	T	7368	-0.08	0.02	0.00	0.00	20.71
rs59335907	Behenoylcarni tine (C22)	GCST90200127	12	54442498	T	C	7368	-0.17	0.04	0.00	0.00	20.15
rs61985537	Behenoylcarni tine (C22)	GCST90200127	14	50853342	A	T	7368	-0.14	0.03	0.00	0.00	20.16
rs56080129	Behenoylcarni tine (C22)	GCST90200127	15	33358580	T	C	7368	0.17	0.03	0.00	0.00	24.77
rs75062282	Behenoylcarni tine (C22)	GCST90200127	15	85570549	C	A	7368	0.29	0.05	0.00	0.00	31.05

rs56089822	Behenoylcarni tine (C22)	GCST90200127	15	92524684	C	G	7368	0.20	0.04	0.00	0.00	19.99
rs12912674	Behenoylcarni tine (C22)	GCST90200127	15	98565368	A	G	7368	0.09	0.02	0.00	0.00	23.65
rs55909305	Behenoylcarni tine (C22)	GCST90200127	20	17343039	T	C	7368	0.09	0.02	0.00	0.00	21.60
rs72652637	Sphingomyelin (d18:2/18:1)	GCST90200128	1	29510450	C	T	8253	-0.24	0.05	0.00	0.00	22.78
rs13789299 5	levels Sphingomyelin (d18:2/18:1)	GCST90200128	1	240929017	C	T	8253	-0.32	0.07	0.00	0.00	19.67
rs18085560 3	levels Sphingomyelin (d18:2/18:1)	GCST90200128	2	4112063	A	G	8253	0.33	0.07	0.00	0.00	22.53
rs72780737	levels Sphingomyelin (d18:2/18:1)	GCST90200128	2	18959749	T	C	8253	0.25	0.05	0.00	0.00	23.18
rs9824979	levels Sphingomyelin (d18:2/18:1)	GCST90200128	3	68908343	C	G	8253	-0.07	0.02	0.00	0.00	20.25
rs11397684 0	levels Sphingomyelin (d18:2/18:1)	GCST90200128	3	111703216	A	G	8253	-0.26	0.06	0.00	0.00	19.77
rs13837675 4	levels Sphingomyelin (d18:2/18:1)	GCST90200128	4	8039630	A	C	8253	0.36	0.08	0.00	0.00	22.89
rs13937467 9	levels Sphingomyelin (d18:2/18:1)	GCST90200128	8	112639073	G	T	8253	-0.11	0.02	0.00	0.00	19.80
rs9666067	levels Sphingomyelin (d18:2/18:1)	GCST90200128	11	63825915	T	C	8253	0.39	0.09	0.00	0.00	20.46
rs34743519	levels Sphingomyelin (d18:2/18:1)	GCST90200128	11	125483367	G	A	8253	-0.11	0.02	0.00	0.00	24.48
rs61926890	levels Sphingomyelin (d18:2/18:1)	GCST90200128	12	69151626	T	C	8253	0.14	0.03	0.00	0.00	21.11
rs3025280	levels Sphingomyelin (d18:2/18:1)	GCST90200128	17	32994765	T	C	8253	-0.14	0.03	0.00	0.00	19.61
rs14656731 7	levels Sphingomyelin (d18:2/18:1)	GCST90200128	17	83095380	A	G	8253	-0.29	0.06	0.00	0.00	21.43
rs53959122 1	levels Sphingomyelin (d18:2/18:1)	GCST90200128	18	34667656	T	G	8253	-0.21	0.05	0.00	0.00	21.30
rs78311337	levels Sphingomyelin (d18:2/18:1)	GCST90200128	19	16743515	A	C	8253	-0.37	0.08	0.00	0.00	20.21
rs14158484 4	levels Sphingomyelin (d18:2/18:1)	GCST90200128	20	31930021	T	G	8253	-0.29	0.06	0.00	0.00	22.89
rs6023469	levels Sphingomyelin (d18:2/18:1)	GCST90200128	20	54658733	G	C	8253	0.10	0.02	0.00	0.00	21.67
rs61766443	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	1	84304284	G	A	8260	-0.11	0.02	0.00	0.00	20.93
rs18742345 3	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	1	243168803	C	G	8260	-0.20	0.04	0.00	0.00	20.22
rs15056353 8	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	1	244348722	C	T	8260	-0.22	0.05	0.00	0.00	20.61
rs18085560 3	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	2	4112063	A	G	8260	0.28	0.06	0.00	0.00	21.05

rs1047891	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	2	210675783	A	C	8260	0.08	0.01	0.00	0.00	29.94
rs76586755	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	3	20717334	G	A	8260	0.14	0.03	0.00	0.00	21.09
rs4858570	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	3	23995370	T	A	8260	0.27	0.06	0.00	0.00	19.90
rs11337908 3	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	4	20847118	A	G	8260	-0.28	0.06	0.00	0.00	19.54
rs1381957	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	4	87875547	G	A	8260	-0.08	0.02	0.00	0.00	20.87
rs1229984	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	4	99318162	C	T	8260	-0.17	0.04	0.00	0.00	20.37
rs10805776	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	5	25255090	T	C	8260	0.08	0.02	0.00	0.00	20.86
rs11428783 1	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	5	155342175	G	A	8260	-0.15	0.03	0.00	0.00	19.53
rs14170075 3	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	6	6674249	T	C	8260	-0.19	0.04	0.00	0.00	22.47
rs36229526	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	6	32852879	T	G	8260	0.12	0.03	0.00	0.00	20.91
rs7756308	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	6	138141336	G	A	8260	-0.06	0.01	0.00	0.00	21.45
rs15009854 0	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	6	168746013	G	A	8260	0.32	0.06	0.00	0.00	29.94
rs11779417 6	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	8	38049530	A	G	8260	-0.25	0.06	0.00	0.00	19.79
rs7812898	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	8	112624710	C	T	8260	0.09	0.02	0.00	0.00	19.98
rs7838715	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	8	135750342	A	G	8260	0.06	0.01	0.00	0.00	22.35
rs12349302	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	9	7540496	T	G	8260	-0.11	0.02	0.00	0.00	20.75
rs7043494	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	9	87800563	T	G	8260	0.06	0.01	0.00	0.00	20.05
rs12414585	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	10	765936	A	G	8260	-0.07	0.01	0.00	0.00	26.08

rs11246045	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	11	274780	C	T	8260	0.11	0.02	0.00	0.00	25.17
rs174548	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	11	61803876	G	C	8260	-0.10	0.01	0.00	0.01	50.10
rs10892689	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	11	121217449	G	A	8260	-0.06	0.01	0.00	0.00	20.07
rs14805869 8	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	12	31978777	C	G	8260	-0.31	0.07	0.00	0.00	19.64
rs1458165	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	12	41428397	A	G	8260	0.06	0.01	0.00	0.00	22.05
rs76609278	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	12	108915795	T	C	8260	0.20	0.04	0.00	0.00	21.25
rs1169296	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	12	120990604	G	A	8260	-0.07	0.01	0.00	0.00	26.24
rs7160525	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	14	63765502	A	G	8260	0.19	0.02	0.00	0.02	127.41
rs17736811	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	14	84870617	A	G	8260	0.07	0.02	0.00	0.00	19.67
rs7143466	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	14	104877256	G	A	8260	0.06	0.01	0.00	0.00	23.78
rs11762437 2	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	17	79699253	T	C	8260	-0.22	0.05	0.00	0.00	23.47
rs62124543	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	19	8198249	A	G	8260	-0.09	0.01	0.00	0.00	41.17
rs438568	levels Sphingomyelin (d18:2/21:0, d16:2/23:0)	GCST90200129	20	12978039	G	A	8260	-0.07	0.01	0.00	0.00	25.39
rs74814187	levels Linoleoylcholine levels	GCST90200130	1	177105662	T	C	8193	0.18	0.03	0.00	0.00	27.89
rs72617195	levels Linoleoylcholine levels	GCST90200130	2	234775130	A	G	8193	0.13	0.03	0.00	0.00	19.89
rs17021458	levels Linoleoylcholine levels	GCST90200130	3	84354842	A	G	8193	0.08	0.02	0.00	0.00	21.55
rs736879	levels Linoleoylcholine levels	GCST90200130	4	186892255	C	T	8193	-0.11	0.02	0.00	0.00	19.94
rs11295322 6	levels Linoleoylcholine levels	GCST90200130	5	128938723	T	G	8193	0.08	0.02	0.00	0.00	21.22
rs7813127	levels Linoleoylcholine levels	GCST90200130	8	6522591	C	T	8193	-0.11	0.03	0.00	0.00	20.19
rs58671463	levels Linoleoylcholine levels	GCST90200130	8	57491698	A	G	8193	-0.10	0.02	0.00	0.00	20.99
rs62512856	levels Linoleoylcholine levels	GCST90200130	8	82484617	A	T	8193	0.10	0.02	0.00	0.00	22.27
rs2016129	levels Linoleoylcholine levels	GCST90200130	10	28999366	T	C	8193	0.14	0.03	0.00	0.00	19.58
rs174541	levels Linoleoylcholine levels	GCST90200130	11	61798436	C	T	8193	0.08	0.02	0.00	0.00	22.13
rs14176782 1	levels Linoleoylcholine levels	GCST90200130	11	122733590	G	A	8193	0.25	0.05	0.00	0.00	22.34

rs112526079	Linoleoylcholine levels	GCST90200130	12	27560832	C	T	8193	-0.34	0.07	0.00	0.00	26.33
rs1937378	Linoleoylcholine levels	GCST90200130	13	77655210	T	C	8193	0.10	0.02	0.00	0.00	20.82
rs1555942	Linoleoylcholine levels	GCST90200130	14	68172250	A	T	8193	0.20	0.04	0.00	0.00	20.98
rs1437468	Linoleoylcholine levels	GCST90200130	15	59840593	C	A	8193	0.20	0.04	0.00	0.00	23.93
rs17706989	Linoleoylcholine levels	GCST90200130	16	78536060	G	C	8193	-0.18	0.04	0.00	0.00	22.52
rs116934369	Linoleoylcholine levels	GCST90200130	17	1658986	A	G	8193	0.32	0.07	0.00	0.00	23.15
rs11653889	Linoleoylcholine levels	GCST90200130	17	3724162	A	T	8193	-0.42	0.08	0.00	0.00	26.64
rs11880992	Linoleoylcholine levels	GCST90200130	19	2176404	A	G	8193	-0.07	0.02	0.00	0.00	21.23
rs6120819	Linoleoylcholine levels	GCST90200130	20	35065235	C	T	8193	-0.09	0.02	0.00	0.00	20.56
rs140374355	Linoleoylcholine levels	GCST90200130	20	61852693	T	C	8193	-0.25	0.05	0.00	0.00	22.16
rs10932472	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	2	213173578	G	A	8256	-0.13	0.03	0.00	0.00	19.91
rs150435334	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	4	4934913	C	G	8256	0.64	0.14	0.00	0.00	19.58
rs138579830	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	4	85502420	C	A	8256	-0.08	0.02	0.00	0.00	20.69
rs55757096	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	4	146488033	A	T	8256	-0.18	0.04	0.00	0.00	24.70
rs11722845	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	4	161877062	C	T	8256	-0.07	0.01	0.00	0.00	23.20
rs336010	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	4	172442487	T	C	8256	0.11	0.02	0.00	0.00	25.49
rs111241800	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	5	98714384	T	G	8256	-0.12	0.03	0.00	0.00	20.04
rs55730499	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	6	160584578	T	C	8256	0.15	0.03	0.00	0.00	28.85
rs73712409	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	7	93786522	C	A	8256	-0.11	0.03	0.00	0.00	19.69
rs7461602	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	8	21864072	G	A	8256	-0.07	0.02	0.00	0.00	21.26
rs2448907	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	8	94313539	C	A	8256	-0.18	0.04	0.00	0.00	19.94
rs7812898	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	8	112624710	C	T	8256	0.11	0.02	0.00	0.00	24.74
rs117236806	Sphingomyelin (d18:1/19:0, d19:1/18:0) levels	GCST90200131	8	132416862	A	T	8256	-0.20	0.04	0.00	0.00	23.00

rs45461899	levels Sphingomyelin (d18:1/19:0, d19:1/18:0)	GCST90200131	9	92068074	A	C	8256	-0.25	0.05	0.00	0.00	29.94
rs3824477	levels Sphingomyelin (d18:1/19:0, d19:1/18:0)	GCST90200131	9	104826047	A	G	8256	0.19	0.04	0.00	0.00	20.34
rs11006485	levels Sphingomyelin (d18:1/19:0, d19:1/18:0)	GCST90200131	10	59432878	C	G	8256	0.36	0.08	0.00	0.00	22.97
rs11246043	levels Sphingomyelin (d18:1/19:0, d19:1/18:0)	GCST90200131	11	274188	G	A	8256	0.12	0.02	0.00	0.00	23.51
rs17749202	levels Sphingomyelin (d18:1/19:0, d19:1/18:0)	GCST90200131	11	76186330	C	T	8256	0.07	0.02	0.00	0.00	22.35
rs76834834	levels Sphingomyelin (d18:1/19:0, d19:1/18:0)	GCST90200131	13	20167904	T	C	8256	0.12	0.03	0.00	0.00	19.56
rs7157785	levels Sphingomyelin (d18:1/19:0, d19:1/18:0)	GCST90200131	14	63768838	T	G	8256	0.25	0.02	0.00	0.02	174.37
rs11762437 2	levels Sphingomyelin (d18:1/19:0, d19:1/18:0)	GCST90200131	17	79699253	T	C	8256	-0.23	0.05	0.00	0.00	20.17
rs1466448	levels Sphingomyelin (d18:1/19:0, d19:1/18:0)	GCST90200131	19	8224635	A	C	8256	0.19	0.02	0.00	0.01	111.93
rs445925	levels Sphingomyelin (d18:1/19:0, d19:1/18:0)	GCST90200131	19	44912383	A	G	8256	-0.11	0.02	0.00	0.00	22.65
rs2287717	levels Sphingomyelin (d18:1/19:0, d19:1/18:0)	GCST90200131	19	46755585	T	C	8256	0.10	0.02	0.00	0.00	23.04
rs438568	levels Sphingomyelin (d18:1/19:0, d19:1/18:0)	GCST90200131	20	12978039	G	A	8256	-0.20	0.01	0.00	0.02	185.29
rs76790643	levels Linolenoylcar nitine (C18:3)	GCST90200132	1	59047279	T	C	8195	-0.20	0.04	0.00	0.00	22.22
rs18690470 9	levels Linolenoylcar nitine (C18:3)	GCST90200132	1	104601958	G	A	8195	-0.30	0.07	0.00	0.00	20.97
rs13872714 7	levels Linolenoylcar nitine (C18:3)	GCST90200132	1	181568885	T	C	8195	0.48	0.10	0.00	0.00	21.53
rs11660253 8	levels Linolenoylcar nitine (C18:3)	GCST90200132	1	219706511	A	G	8195	0.30	0.06	0.00	0.00	22.34
rs6547670	levels Linolenoylcar nitine (C18:3)	GCST90200132	2	21614545	G	A	8195	0.20	0.04	0.00	0.00	20.39
rs10176315	levels Linolenoylcar nitine (C18:3)	GCST90200132	2	211576871	C	T	8195	0.09	0.02	0.00	0.00	23.52
rs55581438 5	levels Linolenoylcar nitine (C18:3)	GCST90200132	3	196243633	C	G	8195	-0.42	0.08	0.00	0.00	30.16
rs71619014	levels Linolenoylcar nitine (C18:3)	GCST90200132	4	180440797	T	C	8195	-0.24	0.05	0.00	0.00	21.16

rs13962198	Linolenoylcar nitine (C18:3) levels	GCST90200132	5	16600192	T	G	8195	0.10	0.02	0.00	0.00	20.69
rs2631367	Linolenoylcar nitine (C18:3) levels	GCST90200132	5	132369766	G	C	8195	0.10	0.02	0.00	0.01	46.08
rs12210538	Linolenoylcar nitine (C18:3) levels	GCST90200132	6	110438805	G	A	8195	-0.18	0.02	0.00	0.01	109.31
rs2275215	Linolenoylcar nitine (C18:3) levels	GCST90200132	6	129540247	C	T	8195	-0.08	0.02	0.00	0.00	20.56
rs2107268	Linolenoylcar nitine (C18:3) levels	GCST90200132	7	15620862	G	A	8195	-0.08	0.02	0.00	0.00	20.50
rs73129568	Linolenoylcar nitine (C18:3) levels	GCST90200132	7	72287864	A	C	8195	-0.11	0.02	0.00	0.00	21.56
rs28538374	Linolenoylcar nitine (C18:3) levels	GCST90200132	8	9886576	A	T	8195	0.16	0.03	0.00	0.00	22.96
rs966785	Linolenoylcar nitine (C18:3) levels	GCST90200132	8	11885024	G	C	8195	0.08	0.02	0.00	0.00	23.53
rs7864348	Linolenoylcar nitine (C18:3) levels	GCST90200132	9	72475436	C	T	8195	-0.07	0.02	0.00	0.00	22.00
rs1171618	Linolenoylcar nitine (C18:3) levels	GCST90200132	10	59706183	C	T	8195	0.08	0.02	0.00	0.00	28.89
rs4149056	Linolenoylcar nitine (C18:3) levels	GCST90200132	12	21178615	C	T	8195	0.11	0.02	0.00	0.00	30.14
rs10506339	Linolenoylcar nitine (C18:3) levels	GCST90200132	12	55036618	G	A	8195	-0.33	0.07	0.00	0.00	20.88
rs14926669	Linolenoylcar nitine (C18:3) levels	GCST90200132	16	6187042	G	A	8195	-0.23	0.05	0.00	0.00	19.67
rs280976	Linolenoylcar nitine (C18:3) levels	GCST90200132	18	4446528	G	A	8195	-0.10	0.02	0.00	0.00	22.30
rs7229639	Linolenoylcar nitine (C18:3) levels	GCST90200132	18	48924606	G	A	8195	0.13	0.03	0.00	0.00	22.49
rs79397326	Linolenoylcar nitine (C18:3) levels	GCST90200132	20	14359702	G	C	8195	-0.17	0.04	0.00	0.00	20.07
rs7278441	Linolenoylcar nitine (C18:3) levels	GCST90200132	21	32556022	A	G	8195	-0.08	0.02	0.00	0.00	22.00
rs13814042	Heneicosapent aenoate (21:5n3) levels	GCST90200133	1	164384751	T	C	4827	0.53	0.12	0.00	0.00	20.15
rs11124140	Heneicosapent aenoate (21:5n3) levels	GCST90200133	1	233119592	C	A	4827	0.78	0.17	0.00	0.00	20.32
rs14374694	Heneicosapent aenoate (21:5n3) levels	GCST90200133	2	221177034	C	T	4827	-0.45	0.10	0.00	0.00	19.70
rs1447734	Heneicosapent aenoate (21:5n3) levels	GCST90200133	3	139848055	G	A	4827	0.10	0.02	0.00	0.00	21.81
rs74905107	Heneicosapent aenoate (21:5n3) levels	GCST90200133	5	76928779	T	C	4827	-0.26	0.06	0.00	0.00	20.50
rs53493458	Heneicosapent aenoate (21:5n3) levels	GCST90200133	5	142413996	A	T	4827	1.32	0.28	0.00	0.00	21.95
rs73104817	Heneicosapent aenoate (21:5n3) levels	GCST90200133	7	34447398	C	T	4827	0.32	0.07	0.00	0.00	20.58

rs71543373	Heneicosapent aenoate	GCST90200133	7	140405978	T	C	4827	0.37	0.08	0.00	0.00	19.84
rs117759043	(21:5n3) levels Heneicosapent aenoate	GCST90200133	8	18303344	G	C	4827	0.38	0.08	0.00	0.00	20.31
rs4736156	(21:5n3) levels Heneicosapent aenoate	GCST90200133	8	140249830	G	A	4827	-0.12	0.03	0.00	0.00	20.24
rs3753124	(21:5n3) levels Heneicosapent aenoate	GCST90200133	8	142845687	A	T	4827	0.24	0.05	0.00	0.00	23.25
rs76467692	(21:5n3) levels Heneicosapent aenoate	GCST90200133	10	2519589	G	T	4827	0.19	0.04	0.00	0.00	21.28
rs35193692	(21:5n3) levels Heneicosapent aenoate	GCST90200133	10	53076986	T	A	4827	-0.35	0.07	0.00	0.00	22.18
rs118090914	(21:5n3) levels Heneicosapent aenoate	GCST90200133	11	102729366	C	G	4827	0.23	0.05	0.00	0.01	24.37
rs7336821	(21:5n3) levels Heneicosapent aenoate	GCST90200133	13	68947775	A	G	4827	-0.11	0.02	0.00	0.01	24.43
rs933566	(21:5n3) levels Heneicosapent aenoate	GCST90200133	16	50608290	C	G	4827	0.09	0.02	0.00	0.00	20.20
rs12924774	(21:5n3) levels Heneicosapent aenoate	GCST90200133	16	85970198	C	G	4827	-0.10	0.02	0.00	0.00	19.74
rs34674242	(21:5n3) levels Heneicosapent aenoate	GCST90200133	17	6258893	A	G	4827	-0.10	0.02	0.00	0.00	23.04
rs117609343	(21:5n3) levels Heneicosapent aenoate	GCST90200133	17	79454108	T	C	4827	0.22	0.05	0.00	0.00	19.79
rs2299733	(21:5n3) levels Heneicosapent aenoate	GCST90200133	20	53968363	C	T	4827	0.45	0.10	0.00	0.00	21.26
rs1260338	(21:5n3) levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	2	27402794	G	A	8126	0.07	0.02	0.00	0.00	22.96
rs150462890	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	2	122668332	G	A	8126	-0.31	0.07	0.00	0.00	21.67
rs7575843	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	2	170491434	T	C	8126	-0.27	0.06	0.00	0.00	20.65
rs567845315	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	2	185015513	T	A	8126	-0.22	0.05	0.00	0.00	20.70
rs4132483	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	3	33889541	C	A	8126	-0.07	0.02	0.00	0.00	19.54

rs150435334	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	4	4934913	C	G	8126	0.70	0.15	0.00	0.00	21.08
rs16871130	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	5	3127161	T	C	8126	0.07	0.02	0.00	0.00	20.66
rs6881187	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	5	178797381	C	T	8126	0.07	0.02	0.00	0.00	19.83
rs795216	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	6	4361657	A	G	8126	0.12	0.03	0.00	0.00	20.25
rs17059258	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	6	99217652	G	A	8126	0.08	0.02	0.00	0.00	24.99
rs35009005	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	6	134097589	T	C	8126	0.14	0.03	0.00	0.00	21.30
rs2273897	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	6	154962860	C	T	8126	-0.07	0.02	0.00	0.00	20.80
rs143153915	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	7	46522636	A	G	8126	0.28	0.06	0.00	0.00	21.91
rs74863673	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	8	13230616	C	A	8126	0.13	0.03	0.00	0.00	20.18
rs1550734	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	8	79707644	G	A	8126	-0.07	0.02	0.00	0.00	21.85
rs7812898	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	8	112624710	C	T	8126	0.11	0.02	0.00	0.00	21.15
rs16934446	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	9	16325342	T	C	8126	0.22	0.05	0.00	0.00	23.84

rs45461899	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	9	92068074	A	C	8126	-0.32	0.05	0.00	0.01	43.19
rs733552	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	10	66982043	A	G	8126	-0.09	0.02	0.00	0.00	20.45
rs573905	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	11	118701558	G	A	8126	-0.07	0.02	0.00	0.00	20.20
rs11618188	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	13	72571809	T	C	8126	-0.27	0.06	0.00	0.00	21.36
rs62001419	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	15	41420738	A	C	8126	-0.16	0.03	0.00	0.00	22.02
rs11809812 2	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	15	100926035	G	C	8126	0.36	0.07	0.00	0.00	24.20
rs2883249	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	16	19383110	G	T	8126	0.11	0.02	0.00	0.00	22.93
rs34460487	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	17	4781933	A	G	8126	0.08	0.02	0.00	0.00	25.43
rs4924991	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	17	19437492	G	A	8126	-0.14	0.03	0.00	0.00	23.08
rs56057188	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	18	72405960	A	G	8126	0.10	0.02	0.00	0.00	24.09
rs12610725	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	19	2343847	T	C	8126	0.11	0.02	0.00	0.00	19.61
rs14489453 6	levels Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)	GCST90200134	19	32636723	A	C	8126	0.20	0.04	0.00	0.00	21.01

rs9749077	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	19	45011443	G	T	8126	0.09	0.02	0.00	0.00	32.83
rs364585	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	20	12982070	G	A	8126	-0.38	0.02	0.00	0.07	626.90
rs1431431	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	20	13054945	T	C	8126	-0.10	0.02	0.00	0.01	41.50
rs62207091	Sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0) levels	GCST90200134	20	61965769	A	T	8126	0.07	0.02	0.00	0.00	20.16
rs4654926	Arachidoylcar nitine (C20) levels	GCST90200135	1	19901505	C	T	7682	-0.11	0.03	0.00	0.00	19.82
rs77692382	Arachidoylcar nitine (C20) levels	GCST90200135	1	39941043	T	C	7682	0.10	0.02	0.00	0.00	29.49
rs1134688	Arachidoylcar nitine (C20) levels	GCST90200135	1	53216027	G	T	7682	0.09	0.02	0.00	0.00	20.68
rs72751790	Arachidoylcar nitine (C20) levels	GCST90200135	1	233910422	A	G	7682	0.34	0.07	0.00	0.00	21.74
rs11503521 2	Arachidoylcar nitine (C20) levels	GCST90200135	2	24075437	T	C	7682	0.35	0.07	0.00	0.00	24.72
rs72806758	Arachidoylcar nitine (C20) levels	GCST90200135	2	46065077	T	C	7682	0.38	0.08	0.00	0.00	22.44
rs18391969 2	Arachidoylcar nitine (C20) levels	GCST90200135	2	223390259	G	T	7682	-0.35	0.08	0.00	0.00	20.08
rs9861567	Arachidoylcar nitine (C20) levels	GCST90200135	3	16099324	G	A	7682	0.08	0.02	0.00	0.00	19.59
rs53085135 0	Arachidoylcar nitine (C20) levels	GCST90200135	3	77877315	A	G	7682	0.27	0.06	0.00	0.00	21.85
rs73201492	Arachidoylcar nitine (C20) levels	GCST90200135	3	128430877	T	C	7682	-0.39	0.09	0.00	0.00	20.53
rs14051063 7	Arachidoylcar nitine (C20) levels	GCST90200135	3	155524592	G	A	7682	-0.40	0.09	0.00	0.00	20.46
rs1533090	Arachidoylcar nitine (C20) levels	GCST90200135	4	24233379	C	T	7682	0.11	0.02	0.00	0.00	20.01
rs11594540 3	Arachidoylcar nitine (C20) levels	GCST90200135	5	13576404	T	C	7682	0.15	0.03	0.00	0.00	22.16
rs6860806	Arachidoylcar nitine (C20) levels	GCST90200135	5	132304843	G	A	7682	-0.13	0.02	0.00	0.01	63.46
rs351260	Arachidoylcar nitine (C20) levels	GCST90200135	5	141930259	A	G	7682	0.11	0.02	0.00	0.01	41.54
rs12210538	Arachidoylcar nitine (C20) levels	GCST90200135	6	110438805	G	A	7682	-0.09	0.02	0.00	0.00	23.75

rs12537295	Arachidoylcar nitine (C20) levels	GCST90200135	7	21839587	G	A	7682	-0.07	0.02	0.00	0.00	20.09
rs77348347	Arachidoylcar nitine (C20) levels	GCST90200135	8	58385387	T	A	7682	0.13	0.03	0.00	0.00	20.20
rs11539113	Arachidoylcar nitine (C20) levels	GCST90200135	8	86484947	A	G	7682	0.14	0.02	0.00	0.01	65.12
rs1124120	Arachidoylcar nitine (C20) levels	GCST90200135	10	24857568	T	C	7682	0.09	0.02	0.00	0.00	22.59
rs2495725	Arachidoylcar nitine (C20) levels	GCST90200135	10	100604247	G	A	7682	-0.07	0.02	0.00	0.00	20.17
rs11603033	Arachidoylcar nitine (C20) levels	GCST90200135	11	67681269	G	A	7682	0.10	0.02	0.00	0.00	21.06
rs14214514 2	Arachidoylcar nitine (C20) levels	GCST90200135	11	115691088	A	G	7682	0.52	0.12	0.00	0.00	20.25
rs72685162	Arachidoylcar nitine (C20) levels	GCST90200135	14	38553781	G	C	7682	0.09	0.02	0.00	0.00	19.75
rs15014101 7	Arachidoylcar nitine (C20) levels	GCST90200135	14	43617753	C	A	7682	0.23	0.05	0.00	0.00	20.59
rs14463442 9	Arachidoylcar nitine (C20) levels	GCST90200135	14	68464305	G	C	7682	-0.22	0.05	0.00	0.00	21.59
rs72732168	Arachidoylcar nitine (C20) levels	GCST90200135	14	74682483	T	C	7682	-0.22	0.04	0.00	0.00	25.43
rs74965068	Arachidoylcar nitine (C20) levels	GCST90200135	17	49893242	T	C	7682	0.17	0.04	0.00	0.00	20.50
rs604216	Arachidoylcar nitine (C20) levels	GCST90200135	19	55112438	T	C	7682	0.08	0.02	0.00	0.00	21.24
rs6078493	Arachidoylcar nitine (C20) levels	GCST90200135	20	1296455	A	G	7682	0.11	0.02	0.00	0.00	21.33
rs14904607 9	Arachidoylcar nitine (C20) levels	GCST90200135	20	47874188	G	A	7682	-0.23	0.05	0.00	0.00	20.86
rs14083643 6	Arachidoylcar nitine (C20) levels	GCST90200135	22	30026468	A	G	7682	-0.61	0.11	0.00	0.00	30.38
rs74071929	Cerotoylcarnit ine (C26)	GCST90200136	1	43526440	A	T	8266	-0.72	0.09	0.00	0.01	67.96
rs1056438	Cerotoylcarnit ine (C26)	GCST90200136	1	53214206	C	T	8266	-0.11	0.02	0.00	0.01	50.47
rs2243874	Cerotoylcarnit ine (C26)	GCST90200136	1	61291352	G	A	8266	0.08	0.02	0.00	0.00	20.01
rs902039	Cerotoylcarnit ine (C26)	GCST90200136	1	164796329	G	T	8266	0.08	0.02	0.00	0.00	22.88
rs13894517 6	Cerotoylcarnit ine (C26)	GCST90200136	2	45520796	T	C	8266	0.26	0.06	0.00	0.00	20.80
rs79642742	Cerotoylcarnit ine (C26)	GCST90200136	3	50438392	C	G	8266	0.21	0.04	0.00	0.00	22.82
rs14691805 6	Cerotoylcarnit ine (C26)	GCST90200136	4	54500596	T	G	8266	-0.50	0.11	0.00	0.00	20.55
rs62318132	Cerotoylcarnit ine (C26)	GCST90200136	4	132431359	T	C	8266	-0.20	0.04	0.00	0.00	21.41
rs4629389	Cerotoylcarnit ine (C26)	GCST90200136	4	144284093	C	T	8266	0.07	0.01	0.00	0.00	19.66
rs11242109	Cerotoylcarnit ine (C26)	GCST90200136	5	132341354	T	G	8266	-0.13	0.02	0.00	0.01	79.31
rs3115667	Cerotoylcarnit ine (C26)	GCST90200136	6	31675622	C	T	8266	-0.09	0.02	0.00	0.00	25.75
rs2294866	Cerotoylcarnit ine (C26)	GCST90200136	6	53288916	A	C	8266	0.09	0.02	0.00	0.00	30.73
rs12210538	Cerotoylcarnit ine (C26)	GCST90200136	6	110438805	G	A	8266	-0.25	0.02	0.00	0.02	201.97

rs672985	Cerotoylcarnitine (C26)	GCST90200136	6	142690430	C	G	8266	0.07	0.02	0.00	0.00	22.19
rs10243781	Cerotoylcarnitine (C26)	GCST90200136	7	905237	A	G	8266	0.11	0.02	0.00	0.00	20.36
rs4726923	Cerotoylcarnitine (C26)	GCST90200136	7	148113930	T	C	8266	-0.08	0.02	0.00	0.00	21.11
rs13267782	Cerotoylcarnitine (C26)	GCST90200136	8	86469658	T	G	8266	0.19	0.02	0.00	0.01	124.29
rs113937933	Cerotoylcarnitine (C26)	GCST90200136	9	130299622	A	T	8266	-0.12	0.03	0.00	0.00	22.86
rs2988567	Cerotoylcarnitine (C26)	GCST90200136	9	133025312	A	G	8266	-0.07	0.02	0.00	0.00	20.91
rs11244061	Cerotoylcarnitine (C26)	GCST90200136	9	133278537	T	C	8266	-0.12	0.02	0.00	0.00	27.55
rs78467981	Cerotoylcarnitine (C26)	GCST90200136	10	90376055	C	T	8266	0.11	0.02	0.00	0.00	21.18
rs146873857	Cerotoylcarnitine (C26)	GCST90200136	11	11279046	A	G	8266	-0.19	0.04	0.00	0.00	22.45
rs102275	Cerotoylcarnitine (C26)	GCST90200136	11	61790331	C	T	8266	-0.07	0.02	0.00	0.00	21.74
rs148813381	Cerotoylcarnitine (C26)	GCST90200136	11	68352093	T	C	8266	-0.25	0.05	0.00	0.00	20.04
rs75202638	Cerotoylcarnitine (C26)	GCST90200136	11	68442953	T	C	8266	-0.13	0.02	0.00	0.00	35.36
rs112549564	Cerotoylcarnitine (C26)	GCST90200136	11	68631341	T	C	8266	0.29	0.02	0.00	0.02	149.57
rs12230719	Cerotoylcarnitine (C26)	GCST90200136	12	98848598	A	G	8266	-0.26	0.06	0.00	0.00	20.93
rs34687040	Cerotoylcarnitine (C26)	GCST90200136	12	130429956	C	T	8266	0.09	0.02	0.00	0.00	19.89
rs11070559	Cerotoylcarnitine (C26)	GCST90200136	15	46959592	A	G	8266	0.08	0.02	0.00	0.00	22.41
rs112062465	Cerotoylcarnitine (C26)	GCST90200136	16	88888983	A	G	8266	-0.35	0.08	0.00	0.00	20.25
rs3745647	Cerotoylcarnitine (C26)	GCST90200136	19	12891570	C	T	8266	0.17	0.04	0.00	0.00	19.55
rs58368959	Cerotoylcarnitine (C26)	GCST90200136	20	59106150	G	T	8266	-0.15	0.03	0.00	0.00	21.36
rs7549319	Lignoceroylcarnitine (C24) levels	GCST90200137	1	53191895	T	C	8238	-0.11	0.02	0.00	0.01	43.39
rs77038961	Lignoceroylcarnitine (C24) levels	GCST90200137	1	172668049	T	C	8238	0.11	0.02	0.00	0.00	20.49
rs7524203	Lignoceroylcarnitine (C24) levels	GCST90200137	1	212838470	C	G	8238	0.07	0.02	0.00	0.00	20.37
rs73006716	Lignoceroylcarnitine (C24) levels	GCST90200137	3	5264433	G	C	8238	0.25	0.05	0.00	0.00	20.03
rs17076998	Lignoceroylcarnitine (C24) levels	GCST90200137	3	44876358	A	C	8238	0.10	0.02	0.00	0.00	20.08
rs13068631	Lignoceroylcarnitine (C24) levels	GCST90200137	3	51956914	C	G	8238	-0.08	0.02	0.00	0.00	21.07
rs142058487	Lignoceroylcarnitine (C24) levels	GCST90200137	3	164203585	T	C	8238	-0.24	0.05	0.00	0.00	22.04
rs12503922	Lignoceroylcarnitine (C24) levels	GCST90200137	4	27698366	G	A	8238	-0.47	0.10	0.00	0.00	20.09
rs187997613	Lignoceroylcarnitine (C24) levels	GCST90200137	4	63013903	T	A	8238	-0.45	0.10	0.00	0.00	19.80
rs112822586	Lignoceroylcarnitine (C24) levels	GCST90200137	4	70017629	A	G	8238	0.23	0.05	0.00	0.00	22.12
rs7656006	Lignoceroylcarnitine (C24) levels	GCST90200137	4	82633714	C	T	8238	0.25	0.02	0.00	0.02	160.71
rs72795121	Lignoceroylcarnitine (C24) levels	GCST90200137	5	132302631	A	T	8238	-0.11	0.02	0.00	0.01	53.64

rs9274662	Lignoceroylca rnitine (C24) levels	GCST90200137	6	32668717	C	T	8238	-0.07	0.02	0.00	0.00	21.50
rs11693776 2	Lignoceroylca rnitine (C24) levels	GCST90200137	7	14879610	C	T	8238	0.23	0.05	0.00	0.00	20.44
rs854562	Lignoceroylca rnitine (C24) levels	GCST90200137	7	95318657	T	C	8238	-0.08	0.02	0.00	0.00	21.27
rs56298325	Lignoceroylca rnitine (C24) levels	GCST90200137	8	5186818	A	T	8238	-0.20	0.05	0.00	0.00	20.34
rs13249753	Lignoceroylca rnitine (C24) levels	GCST90200137	8	86500987	G	A	8238	0.31	0.02	0.00	0.04	317.02
rs442622	Lignoceroylca rnitine (C24) levels	GCST90200137	9	90226496	C	T	8238	0.14	0.03	0.00	0.00	20.65
rs73522247	Lignoceroylca rnitine (C24) levels	GCST90200137	9	93625249	C	T	8238	0.11	0.02	0.00	0.00	19.72
rs692594	Lignoceroylca rnitine (C24) levels	GCST90200137	10	17976964	C	G	8238	0.07	0.02	0.00	0.00	20.89
rs2229738	Lignoceroylca rnitine (C24) levels	GCST90200137	11	68794860	T	C	8238	0.19	0.03	0.00	0.00	39.43
rs11062450	Lignoceroylca rnitine (C24) levels	GCST90200137	12	3000881	T	C	8238	-0.08	0.02	0.00	0.00	20.35
rs7303100	Lignoceroylca rnitine (C24) levels	GCST90200137	12	39351355	T	C	8238	0.28	0.06	0.00	0.00	25.36
rs62621131	Lignoceroylca rnitine (C24) levels	GCST90200137	12	128944332	T	C	8238	0.21	0.05	0.00	0.00	20.27
rs11758148 1	Lignoceroylca rnitine (C24) levels	GCST90200137	15	85790111	T	C	8238	0.23	0.05	0.00	0.00	22.61
rs55660509	Lignoceroylca rnitine (C24) levels	GCST90200137	15	92524537	A	G	8238	0.19	0.04	0.00	0.00	25.02
rs4572500	Lignoceroylca rnitine (C24) levels	GCST90200137	18	73326374	C	T	8238	-0.13	0.03	0.00	0.00	24.10
rs14372901 5	Lignoceroylca rnitine (C24) levels	GCST90200137	19	19019941	A	G	8238	-0.18	0.04	0.00	0.00	22.25
rs2618583	Lignoceroylca rnitine (C24) levels	GCST90200137	20	17854138	T	A	8238	0.13	0.03	0.00	0.00	23.76
rs13922893 9	Lignoceroylca rnitine (C24) levels	GCST90200137	20	36521380	A	G	8238	-0.36	0.08	0.00	0.00	22.43
rs72892220	Docosatrienoa te (22:3n6) levels	GCST90200138	1	1115321	C	G	5398	0.29	0.06	0.00	0.00	23.06
rs56365156	Docosatrienoa te (22:3n6) levels	GCST90200138	1	37588539	A	G	5398	-0.25	0.05	0.00	0.00	25.84
rs34379782	Docosatrienoa te (22:3n6) levels	GCST90200138	1	243249971	T	C	5398	0.32	0.07	0.00	0.00	20.18
rs76945758	Docosatrienoa te (22:3n6) levels	GCST90200138	2	131018296	T	C	5398	-0.22	0.05	0.00	0.00	22.00
rs6764394	Docosatrienoa te (22:3n6) levels	GCST90200138	3	8158044	C	T	5398	0.16	0.04	0.00	0.00	20.00
rs77207094	Docosatrienoa te (22:3n6) levels	GCST90200138	5	11520799	C	T	5398	-0.33	0.07	0.00	0.00	23.13

rs61003774	Docosatrienoate (22:3n6) levels	GCST90200138	7	40232751	T	G	5398	-0.10	0.02	0.00	0.00	26.14
rs75168837	Docosatrienoate (22:3n6) levels	GCST90200138	7	113189209	G	C	5398	0.15	0.03	0.00	0.00	22.75
rs4740820	Docosatrienoate (22:3n6) levels	GCST90200138	9	5610381	T	C	5398	0.11	0.02	0.00	0.00	24.85
rs35063547	Docosatrienoate (22:3n6) levels	GCST90200138	9	103440735	T	C	5398	0.16	0.03	0.00	0.00	20.53
rs4540472	Docosatrienoate (22:3n6) levels	GCST90200138	9	119358277	A	C	5398	-0.09	0.02	0.00	0.00	22.12
rs116905900	Docosatrienoate (22:3n6) levels	GCST90200138	10	114821450	T	G	5398	-0.24	0.05	0.00	0.00	21.95
rs174533	Docosatrienoate (22:3n6) levels	GCST90200138	11	61781553	A	G	5398	-0.19	0.02	0.00	0.01	81.80
rs4924401	Docosatrienoate (22:3n6) levels	GCST90200138	15	39924953	A	T	5398	-0.12	0.03	0.00	0.00	19.60
rs8024121	Docosatrienoate (22:3n6) levels	GCST90200138	15	88327421	G	T	5398	-0.11	0.02	0.00	0.00	23.62
rs11659899	Docosatrienoate (22:3n6) levels	GCST90200138	18	24118952	T	G	5398	-0.17	0.04	0.00	0.00	20.04
rs58966590	Dihomo-linolenoylcarnitine (C20:3n3 or 6) levels	GCST90200139	1	54077129	G	A	8092	-0.11	0.02	0.00	0.00	21.27
rs12470864	Dihomo-linolenoylcarnitine (C20:3n3 or 6) levels	GCST90200139	2	102309902	A	G	8092	-0.08	0.02	0.00	0.00	28.53
rs17016718	Dihomo-linolenoylcarnitine (C20:3n3 or 6) levels	GCST90200139	3	25544615	C	T	8092	0.09	0.02	0.00	0.00	19.63
rs56108492	Dihomo-linolenoylcarnitine (C20:3n3 or 6) levels	GCST90200139	3	45162943	T	C	8092	0.07	0.02	0.00	0.00	20.35
rs36115125	Dihomo-linolenoylcarnitine (C20:3n3 or 6) levels	GCST90200139	3	108050472	C	A	8092	0.11	0.02	0.00	0.00	21.10
rs114963323	Dihomo-linolenoylcarnitine (C20:3n3 or 6) levels	GCST90200139	3	159767834	T	C	8092	0.47	0.10	0.00	0.00	22.52
rs35162446	Dihomo-linolenoylcarnitine (C20:3n3 or 6) levels	GCST90200139	4	104385736	G	C	8092	0.14	0.03	0.00	0.00	23.36
rs4305469	Dihomo-linolenoylcarnitine (C20:3n3 or 6) levels	GCST90200139	4	144227812	G	A	8092	0.07	0.02	0.00	0.00	22.87
rs139514195	Dihomo-linolenoylcarnitine (C20:3n3 or 6) levels	GCST90200139	5	15218272	G	A	8092	-0.29	0.06	0.00	0.00	22.50
rs3114516	Dihomo-linolenoylcarnitine (C20:3n3 or 6) levels	GCST90200139	5	29707031	C	T	8092	-0.07	0.02	0.00	0.00	19.56
rs79997895	Dihomo-linolenoylcarnitine (C20:3n3 or 6) levels	GCST90200139	5	98691859	C	T	8092	-0.12	0.03	0.00	0.00	21.23

rs14834013	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	5	132348317	G	A	8092	-0.29	0.06	0.00	0.00	22.48
rs274556	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	5	132386383	G	A	8092	0.25	0.02	0.00	0.03	225.74
rs149235996	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	5	151340348	G	A	8092	-0.40	0.07	0.00	0.00	34.05
rs2894189	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	6	31250038	C	A	8092	-0.07	0.02	0.00	0.00	19.76
rs12662018	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	6	68375804	T	C	8092	-0.07	0.02	0.00	0.00	19.57
rs12210538	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	6	110438805	G	A	8092	-0.46	0.02	0.00	0.08	746.52
rs36086584	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	7	30666576	G	C	8092	0.10	0.02	0.00	0.00	22.37
rs142914789	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	7	101214897	T	C	8092	0.28	0.06	0.00	0.00	20.02
rs11774894	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	8	48920718	A	G	8092	0.15	0.03	0.00	0.00	20.36
rs76541600	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	8	60692609	C	T	8092	0.13	0.03	0.00	0.00	22.48
rs7020195	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	9	93426367	A	T	8092	-0.21	0.05	0.00	0.00	21.53
rs7097880	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	10	2687638	G	C	8092	-0.08	0.02	0.00	0.00	20.34
rs35131026	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	10	45519311	A	G	8092	0.29	0.03	0.00	0.01	90.44
rs1171617	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	10	59707424	T	G	8092	0.14	0.02	0.00	0.01	56.61
rs149540758	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	10	133574158	T	G	8092	0.52	0.11	0.00	0.00	20.72
rs61897793	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	11	61831875	A	G	8092	0.24	0.02	0.00	0.02	148.79
rs2229738	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	11	68794860	T	C	8092	0.22	0.03	0.00	0.01	54.62
rs4980865	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	12	209048	T	C	8092	-0.07	0.02	0.00	0.00	20.25

rs2199680	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	12	21262562	T	A	8092	0.14	0.02	0.00	0.01	44.24
rs4359307	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	13	110387437	C	G	8092	0.08	0.02	0.00	0.00	21.61
rs35094810	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	15	54472443	A	G	8092	-0.07	0.02	0.00	0.00	19.54
rs4985124	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	16	15031584	G	T	8092	-0.14	0.02	0.00	0.01	70.14
rs14948595	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	17	7452517	A	G	8092	-0.41	0.09	0.00	0.00	19.81
rs2024635	Dihomo- linolenoylcarni tine (C20:3n3 or 6) levels	GCST90200139	20	34834811	A	G	8092	-0.09	0.02	0.00	0.00	30.18
rs13786575	Carotene diol (2) levels	GCST90200140	1	27088569	A	T	8196	0.35	0.08	0.00	0.00	20.01
rs6800209	Carotene diol (2) levels	GCST90200140	3	39330021	A	G	8196	0.14	0.03	0.00	0.00	20.42
rs78189623	Carotene diol (2) levels	GCST90200140	3	197311012	A	G	8196	0.38	0.08	0.00	0.00	21.75
rs14639653	Carotene diol (2) levels	GCST90200140	4	91711694	G	C	8196	-0.27	0.06	0.00	0.00	22.07
rs17597733	Carotene diol (2) levels	GCST90200140	4	166738163	C	T	8196	-0.18	0.04	0.00	0.00	20.22
rs77387803	Carotene diol (2) levels	GCST90200140	5	83283744	G	A	8196	-0.19	0.04	0.00	0.00	19.98
rs15091295	Carotene diol (2) levels	GCST90200140	5	86848308	T	G	8196	0.14	0.03	0.00	0.00	20.70
rs1102568	Carotene diol (2) levels	GCST90200140	6	27208595	A	C	8196	0.40	0.09	0.00	0.00	21.37
rs6950910	Carotene diol (2) levels	GCST90200140	7	129583834	T	C	8196	-0.09	0.02	0.00	0.00	19.55
rs814415	Carotene diol (2) levels	GCST90200140	8	10078584	T	C	8196	-0.10	0.02	0.00	0.00	25.11
rs11766606	Carotene diol (2) levels	GCST90200140	9	14869270	A	T	8196	-0.31	0.07	0.00	0.00	21.44
rs11244061	Carotene diol (2) levels	GCST90200140	9	133278537	T	C	8196	0.11	0.02	0.00	0.00	22.48
rs2526680	Carotene diol (2) levels	GCST90200140	11	61843744	T	C	8196	0.14	0.03	0.00	0.00	24.05
rs14170097	Carotene diol (2) levels	GCST90200140	11	124195279	G	A	8196	0.25	0.05	0.00	0.00	21.04
rs10846744	Carotene diol (2) levels	GCST90200140	12	124827879	C	G	8196	0.14	0.02	0.00	0.01	42.16
rs55999243	Carotene diol (2) levels	GCST90200140	14	68653389	A	C	8196	0.11	0.02	0.00	0.00	22.89
rs711752	Carotene diol (2) levels	GCST90200140	16	56962299	A	G	8196	0.08	0.02	0.00	0.00	28.15
rs12927647	Carotene diol (2) levels	GCST90200140	16	81226288	C	A	8196	-0.23	0.02	0.00	0.03	224.03
rs11672721	Carotene diol (2) levels	GCST90200140	17	79452203	A	G	8196	0.11	0.02	0.00	0.00	21.40
rs55208293	Carotene diol (2) levels	GCST90200140	18	4754119	T	C	8196	-0.43	0.09	0.00	0.00	21.24
rs54201407	Carotene diol (2) levels	GCST90200140	18	27902543	T	A	8196	0.29	0.06	0.00	0.00	20.21
rs11082040	Carotene diol (2) levels	GCST90200140	18	38029317	G	A	8196	-0.16	0.03	0.00	0.00	25.70
rs8140287	Carotene diol (2) levels	GCST90200140	22	35082536	A	G	8196	0.16	0.03	0.00	0.00	21.45
rs4554693	Ethyl alpha- glucopyranosi de levels	GCST90200141	1	4724790	T	C	6620	-0.23	0.05	0.00	0.00	23.74

rs223661	Ethyl alpha-glucopyranoside levels	GCST90200141	2	31791920	A	G	6620	-0.08	0.02	0.00	0.00	20.27
rs7576413	Ethyl alpha-glucopyranoside levels	GCST90200141	2	105924350	T	C	6620	-0.14	0.03	0.00	0.00	22.08
rs7423317	Ethyl alpha-glucopyranoside levels	GCST90200141	2	126968192	A	G	6620	-0.15	0.03	0.00	0.00	20.71
rs7572513	Ethyl alpha-glucopyranoside levels	GCST90200141	2	235918447	C	T	6620	0.09	0.02	0.00	0.00	23.14
rs57546471	Ethyl alpha-glucopyranoside levels	GCST90200141	3	32844944	G	T	6620	0.08	0.02	0.00	0.00	21.22
rs79325776	Ethyl alpha-glucopyranoside levels	GCST90200141	3	69365044	G	A	6620	0.27	0.06	0.00	0.00	21.30
rs34191913	Ethyl alpha-glucopyranoside levels	GCST90200141	3	175862513	G	T	6620	0.13	0.03	0.00	0.00	22.28
rs358241	Ethyl alpha-glucopyranoside levels	GCST90200141	4	22805614	G	A	6620	-0.11	0.02	0.00	0.00	20.72
rs2621447	Ethyl alpha-glucopyranoside levels	GCST90200141	4	95347569	A	C	6620	0.08	0.02	0.00	0.00	19.56
rs35162819	Ethyl alpha-glucopyranoside levels	GCST90200141	4	168006685	A	G	6620	-0.16	0.04	0.00	0.00	21.58
rs10042017	Ethyl alpha-glucopyranoside levels	GCST90200141	5	105168678	T	A	6620	0.11	0.02	0.00	0.00	24.27
rs12660664	Ethyl alpha-glucopyranoside levels	GCST90200141	6	53694529	A	G	6620	-0.08	0.02	0.00	0.00	21.34
rs10224999	Ethyl alpha-glucopyranoside levels	GCST90200141	7	148998888	A	C	6620	0.08	0.02	0.00	0.00	20.50
rs144094744	Ethyl alpha-glucopyranoside levels	GCST90200141	7	155666196	G	A	6620	0.43	0.09	0.00	0.00	24.82
rs116923340	Ethyl alpha-glucopyranoside levels	GCST90200141	8	62363004	G	T	6620	0.24	0.05	0.00	0.00	20.93
rs140618621	Ethyl alpha-glucopyranoside levels	GCST90200141	9	23069595	T	C	6620	0.24	0.05	0.00	0.00	20.37
rs140190426	Ethyl alpha-glucopyranoside levels	GCST90200141	9	98261423	T	C	6620	0.45	0.10	0.00	0.00	19.88
rs117092865	Ethyl alpha-glucopyranoside levels	GCST90200141	9	108748119	A	G	6620	0.19	0.04	0.00	0.00	20.05
rs148049960	Ethyl alpha-glucopyranoside levels	GCST90200141	10	112364837	C	T	6620	-0.44	0.10	0.00	0.00	20.90
rs2433640	Ethyl alpha-glucopyranoside levels	GCST90200141	12	22905981	G	A	6620	0.09	0.02	0.00	0.00	25.64
rs145129354	Ethyl alpha-glucopyranoside levels	GCST90200141	12	38155052	A	G	6620	0.36	0.08	0.00	0.00	20.09
rs4759712	Ethyl alpha-glucopyranoside levels	GCST90200141	12	130527039	C	T	6620	0.08	0.02	0.00	0.00	20.06
rs12429969	Ethyl alpha-glucopyranoside levels	GCST90200141	13	41545706	C	T	6620	-0.16	0.03	0.00	0.00	24.01
rs117314683	Ethyl alpha-glucopyranoside levels	GCST90200141	14	87810040	A	G	6620	0.14	0.03	0.00	0.00	21.77

rs74707563	Ethyl alpha-glucopyranoside levels	GCST90200141	15	37119439	C	T	6620	-0.19	0.04	0.00	0.00	19.67
rs1808919	Ethyl alpha-glucopyranoside levels	GCST90200141	17	68820724	A	G	6620	0.09	0.02	0.00	0.00	19.62
rs17446308	Ethyl alpha-glucopyranoside levels	GCST90200141	20	8718872	C	T	6620	-0.11	0.02	0.00	0.00	21.98
rs14483388	Ethyl alpha-glucopyranoside levels	GCST90200141	21	44076727	T	G	6620	-0.36	0.08	0.00	0.00	20.16
rs164877	Carotene diol (1) levels	GCST90200142	1	91069509	T	C	8256	-0.13	0.03	0.00	0.00	22.43
rs72815251	Carotene diol (1) levels	GCST90200142	2	26536712	A	G	8256	0.08	0.02	0.00	0.00	19.65
rs45578136	Carotene diol (1) levels	GCST90200142	2	60515915	A	G	8256	-0.26	0.06	0.00	0.00	21.17
rs72836142	Carotene diol (1) levels	GCST90200142	2	118954446	T	C	8256	0.27	0.05	0.00	0.00	27.09
rs1424674	Carotene diol (1) levels	GCST90200142	2	154082478	T	C	8256	-0.30	0.07	0.00	0.00	20.07
rs62288767	Carotene diol (1) levels	GCST90200142	3	183691779	C	A	8256	0.12	0.03	0.00	0.00	19.58
rs14639653	Carotene diol (1) levels	GCST90200142	4	91711694	G	C	8256	-0.29	0.06	0.00	0.00	25.58
rs2562568	Carotene diol (1) levels	GCST90200142	5	36593498	G	A	8256	0.09	0.02	0.00	0.00	19.85
rs77387803	Carotene diol (1) levels	GCST90200142	5	83283744	G	A	8256	-0.19	0.04	0.00	0.00	21.74
rs58413464	Carotene diol (1) levels	GCST90200142	5	121315265	C	G	8256	0.11	0.02	0.00	0.00	19.95
rs14587494	Carotene diol (1) levels	GCST90200142	5	147394724	T	C	8256	-0.34	0.07	0.00	0.00	21.03
rs77055596	Carotene diol (1) levels	GCST90200142	5	158993910	A	G	8256	-0.27	0.06	0.00	0.00	21.63
rs1102568	Carotene diol (1) levels	GCST90200142	6	27208595	A	C	8256	0.44	0.09	0.00	0.00	26.63
rs814415	Carotene diol (1) levels	GCST90200142	8	10078584	T	C	8256	-0.11	0.02	0.00	0.00	28.55
rs4379435	Carotene diol (1) levels	GCST90200142	8	58386587	C	T	8256	-0.07	0.02	0.00	0.00	20.18
rs11244061	Carotene diol (1) levels	GCST90200142	9	133278537	T	C	8256	0.11	0.02	0.00	0.00	21.93
rs72781626	Carotene diol (1) levels	GCST90200142	10	34695570	T	C	8256	-0.31	0.07	0.00	0.00	19.93
rs56299828	Carotene diol (1) levels	GCST90200142	11	23184036	T	C	8256	-0.09	0.02	0.00	0.00	20.59
rs11769367	Carotene diol (1) levels	GCST90200142	12	116601058	A	G	8256	-0.20	0.05	0.00	0.00	19.52
rs10846742	Carotene diol (1) levels	GCST90200142	12	124824136	A	G	8256	-0.14	0.02	0.00	0.01	47.55
rs11619193	Carotene diol (1) levels	GCST90200142	13	23445600	A	G	8256	-0.08	0.02	0.00	0.00	20.30
rs14576661	Carotene diol (1) levels	GCST90200142	13	46983458	C	T	8256	0.22	0.05	0.00	0.00	22.64
rs7148662	Carotene diol (1) levels	GCST90200142	14	38244313	G	A	8256	0.09	0.02	0.00	0.00	19.88
rs55999243	Carotene diol (1) levels	GCST90200142	14	68653389	A	C	8256	0.11	0.02	0.00	0.00	21.67
rs14048686	Carotene diol (1) levels	GCST90200142	14	83531951	C	A	8256	-0.42	0.09	0.00	0.00	22.17
rs14838788	Carotene diol (1) levels	GCST90200142	15	24794818	G	A	8256	0.19	0.04	0.00	0.00	20.65
rs9302368	Carotene diol (1) levels	GCST90200142	15	93317263	G	T	8256	0.11	0.02	0.00	0.00	20.58
rs76042989	Carotene diol (1) levels	GCST90200142	16	19443632	T	G	8256	0.30	0.06	0.00	0.00	22.45
rs12720926	Carotene diol (1) levels	GCST90200142	16	56965006	G	A	8256	0.07	0.02	0.00	0.00	22.20
rs11532089	Carotene diol (1) levels	GCST90200142	16	74901128	C	G	8256	0.35	0.08	0.00	0.00	21.56
rs9708919	Carotene diol (1) levels	GCST90200142	16	81227181	T	C	8256	0.25	0.02	0.00	0.03	258.80

rs12454503	Carotene diol (1) levels	GCST90200142	18	38100517	A	G	8256	-0.12	0.02	0.00	0.00	23.17
rs8140287	Carotene diol (1) levels	GCST90200142	22	35082536	A	G	8256	0.18	0.03	0.00	0.00	27.00
rs17785370	Nervonoylcarn itine (C24:1) levels	GCST90200143	1	53239502	T	A	7880	-0.13	0.02	0.00	0.01	61.15
rs150284928	Nervonoylcarn itine (C24:1) levels	GCST90200143	1	78395365	A	T	7880	-0.22	0.05	0.00	0.00	19.59
rs1653760	Nervonoylcarn itine (C24:1) levels	GCST90200143	2	23501194	A	G	7880	-0.07	0.02	0.00	0.00	22.23
rs13009754	Nervonoylcarn itine (C24:1) levels	GCST90200143	2	227807020	C	T	7880	-0.11	0.02	0.00	0.00	21.55
rs79220702	Nervonoylcarn itine (C24:1) levels	GCST90200143	3	29121919	A	G	7880	-0.13	0.03	0.00	0.00	19.93
rs6549601	Nervonoylcarn itine (C24:1) levels	GCST90200143	3	74476036	T	C	7880	0.08	0.02	0.00	0.00	20.71
rs140786980	Nervonoylcarn itine (C24:1) levels	GCST90200143	3	175252671	C	A	7880	0.67	0.13	0.00	0.00	25.96
rs1529269	Nervonoylcarn itine (C24:1) levels	GCST90200143	3	180027575	T	C	7880	-0.09	0.02	0.00	0.00	21.36
rs77124842	Nervonoylcarn itine (C24:1) levels	GCST90200143	3	195098630	G	A	7880	-0.10	0.02	0.00	0.00	20.95
rs1541458	Nervonoylcarn itine (C24:1) levels	GCST90200143	4	15965217	C	T	7880	-0.13	0.03	0.00	0.00	22.64
rs7656006	Nervonoylcarn itine (C24:1) levels	GCST90200143	4	82633714	C	T	7880	0.23	0.02	0.00	0.02	138.36
rs2434213	Nervonoylcarn itine (C24:1) levels	GCST90200143	5	73902647	G	A	7880	-0.20	0.04	0.00	0.00	21.03
rs11242109	Nervonoylcarn itine (C24:1) levels	GCST90200143	5	132341354	T	G	7880	-0.13	0.02	0.00	0.01	65.80
rs13359903	Nervonoylcarn itine (C24:1) levels	GCST90200143	5	148548336	C	T	7880	0.11	0.02	0.00	0.00	20.64
rs77010315	Nervonoylcarn itine (C24:1) levels	GCST90200143	5	151343594	A	C	7880	-0.34	0.07	0.00	0.00	23.11
rs75184378	Nervonoylcarn itine (C24:1) levels	GCST90200143	6	130232575	T	C	7880	-0.10	0.02	0.00	0.00	19.63
rs2464921	Nervonoylcarn itine (C24:1) levels	GCST90200143	7	9453594	A	G	7880	-0.09	0.02	0.00	0.00	19.84
rs66808088	Nervonoylcarn itine (C24:1) levels	GCST90200143	8	86508983	T	C	7880	0.21	0.02	0.00	0.02	144.41
rs1171623	Nervonoylcarn itine (C24:1) levels	GCST90200143	10	59703726	T	G	7880	0.10	0.02	0.00	0.00	27.81
rs2229738	Nervonoylcarn itine (C24:1) levels	GCST90200143	11	68794860	T	C	7880	0.20	0.03	0.00	0.01	43.03
rs11611053	Nervonoylcarn itine (C24:1) levels	GCST90200143	12	31640618	C	T	7880	-0.08	0.02	0.00	0.00	22.72
rs149642592	Nervonoylcarn itine (C24:1) levels	GCST90200143	15	46492255	A	G	7880	0.37	0.08	0.00	0.00	20.35
rs8112276	Nervonoylcarn itine (C24:1) levels	GCST90200143	19	50862696	A	G	7880	-0.07	0.02	0.00	0.00	21.59

rs56150901	Nervonoylcarnitine (C24:1) levels	GCST90200143	20	21517398	G	T	7880	-0.08	0.02	0.00	0.00	20.69
rs6123039	Nervonoylcarnitine (C24:1) levels	GCST90200143	20	51482248	G	A	7880	-0.07	0.02	0.00	0.00	20.62
rs74573500	Nervonoylcarnitine (C24:1) levels	GCST90200143	22	48901516	A	G	7880	0.21	0.05	0.00	0.00	20.57
rs61781290	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	1	39927488	G	A	7887	0.09	0.02	0.00	0.00	24.95
rs2346569	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	2	18960558	C	T	7887	-0.08	0.02	0.00	0.00	21.01
rs12470864	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	2	102309902	A	G	7887	-0.08	0.02	0.00	0.00	28.38
rs59541669	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	2	160220569	T	A	7887	0.07	0.02	0.00	0.00	22.36
rs11709130	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	3	8689031	A	G	7887	0.25	0.06	0.00	0.00	20.03
rs113486494	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	4	100021601	A	G	7887	-0.28	0.06	0.00	0.00	20.57
rs35162446	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	4	104385736	G	C	7887	0.16	0.03	0.00	0.00	27.72
rs139288035	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	5	2239710	T	C	7887	-0.47	0.11	0.00	0.00	19.94
rs6890486	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	5	54062147	G	A	7887	0.09	0.02	0.00	0.00	19.78
rs7712578	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	5	79549255	A	G	7887	-0.13	0.03	0.00	0.00	20.01
rs156403	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	5	132360627	G	A	7887	-0.17	0.02	0.00	0.01	100.48
rs147000073	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	5	151329150	G	C	7887	-0.36	0.07	0.00	0.00	25.35
rs12522503	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	5	178704413	A	C	7887	0.18	0.04	0.00	0.00	21.46
rs143694088	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	6	3529223	T	G	7887	0.44	0.09	0.00	0.00	22.58
rs12191987	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	6	21301771	A	G	7887	-0.24	0.05	0.00	0.00	19.88
rs12110470	Dihomo-linoleoylcarnitine (C20:2) levels	GCST90200144	6	31030039	T	G	7887	0.09	0.02	0.00	0.00	19.69

rs12210538	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	6	110438805	G	A	7887	-0.32	0.02	0.00	0.04	322.64
rs4841133	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	8	9326154	G	A	7887	0.12	0.03	0.00	0.00	20.65
rs75598434	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	8	114202801	T	C	7887	0.16	0.03	0.00	0.00	21.67
rs1033831	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	9	908606	T	C	7887	-0.10	0.02	0.00	0.00	25.44
rs10122720	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	9	29503852	G	C	7887	0.07	0.02	0.00	0.00	20.10
rs2692768	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	10	7169103	A	C	7887	0.12	0.03	0.00	0.00	22.61
rs11239541	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	10	45506418	T	C	7887	0.09	0.02	0.00	0.00	31.90
rs1171618	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	10	59706183	C	T	7887	0.09	0.02	0.00	0.00	29.14
rs58310495	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	12	21204777	T	C	7887	0.14	0.02	0.00	0.01	45.93
rs55726556	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	13	23427907	G	A	7887	0.31	0.07	0.00	0.00	19.62
rs11719669 7	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	13	90638584	C	A	7887	-0.18	0.04	0.00	0.00	21.21
rs62086647	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	18	8853209	G	A	7887	0.24	0.05	0.00	0.00	19.85
rs2457971	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	18	50213261	T	C	7887	0.08	0.02	0.00	0.00	25.25
rs75551193	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	18	75076513	A	G	7887	0.24	0.05	0.00	0.00	22.80
rs12975050	Dihomo- linoleoylcarnit ine (C20:2) levels	GCST90200144	19	14345668	C	G	7887	-0.08	0.02	0.00	0.00	19.84
rs14024031 2	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	1	196090093	G	A	8259	-0.30	0.06	0.00	0.00	23.19
rs1162704	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	3	9233211	A	G	8259	0.12	0.03	0.00	0.00	20.83

rs17283318	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	3	152031985	T	C	8259	0.25	0.06	0.00	0.00	19.55
rs28416749	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	4	47542615	C	T	8259	0.09	0.02	0.00	0.00	23.60
rs35818294	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	4	47543124	A	C	8259	0.30	0.02	0.00	0.03	222.65
rs11736427	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	4	48037885	T	A	8259	0.12	0.02	0.00	0.01	60.05
rs2714341	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	6	7253498	T	G	8259	0.07	0.02	0.00	0.00	21.64
rs75859381	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	6	132889222	C	T	8259	0.21	0.04	0.00	0.00	22.42
rs18479213 7	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	7	52180118	T	C	8259	-0.34	0.07	0.00	0.00	22.62
rs700317	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	7	147709918	A	G	8259	0.07	0.02	0.00	0.00	19.69
rs765590	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	7	155437486	C	A	8259	0.17	0.03	0.00	0.00	22.90
rs728185	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	8	93263749	G	A	8259	-0.13	0.03	0.00	0.00	19.55
rs56400540	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	9	1996560	C	G	8259	0.10	0.02	0.00	0.00	20.09
rs3750434	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	9	35739879	A	G	8259	0.12	0.02	0.00	0.01	59.31
rs2575876	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	9	104903458	A	G	8259	-0.08	0.02	0.00	0.00	20.78
rs7860208	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	9	111937477	C	T	8259	0.07	0.02	0.00	0.00	22.37

rs2474612	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	10	50425366	C	T	8259	-0.08	0.02	0.00	0.00	25.30
rs4752487	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	10	120976908	T	C	8259	0.14	0.03	0.00	0.00	20.97
rs7320739	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	13	106285700	G	T	8259	-0.10	0.02	0.00	0.00	21.98
rs7160525	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	14	63765502	A	G	8259	0.16	0.02	0.00	0.01	60.92
rs11699673 7	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	14	100222902	A	G	8259	-0.19	0.04	0.00	0.00	20.01
rs2005418	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	14	101076426	G	C	8259	0.07	0.02	0.00	0.00	21.39
rs1548373	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	16	73025962	A	G	8259	-0.08	0.02	0.00	0.00	21.73
rs6564030	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	16	84398207	G	A	8259	-0.25	0.05	0.00	0.00	21.76
rs14200920 7	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	17	42394393	C	G	8259	-0.13	0.03	0.00	0.00	20.70
rs12955402	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	18	57643966	A	G	8259	-0.10	0.02	0.00	0.00	20.12
rs11688879 0	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	18	68261143	T	C	8259	-0.34	0.08	0.00	0.00	19.74
rs56791787	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	18	73984629	C	G	8259	0.18	0.04	0.00	0.00	21.45
rs2003933	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	19	8167023	A	G	8259	-0.11	0.02	0.00	0.00	25.11
rs1871194	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	19	8218935	A	C	8259	0.18	0.02	0.00	0.02	132.63

rs59141216	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	19	8257176	C	T	8259	-0.25	0.06	0.00	0.00	19.60
rs438568	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	20	12978039	G	A	8259	-0.12	0.02	0.00	0.01	54.65
rs14406442 3	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	21	17272455	T	A	8259	0.26	0.06	0.00	0.00	20.29
rs73443906	Glycosyl ceramide (d18:1/20:0, d16:1/22:0) levels	GCST90200145	22	49880645	G	A	8259	0.15	0.03	0.00	0.00	23.89
rs12728884	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	1	199630191	G	C	6287	0.48	0.10	0.00	0.00	23.58
rs11684855	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	2	10271612	C	T	6287	-0.10	0.02	0.00	0.00	22.96
rs7603906	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	2	21207269	G	A	6287	0.20	0.04	0.00	0.00	27.04
rs77044013	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	2	47037718	T	C	6287	0.16	0.03	0.00	0.00	20.24
rs4444550	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	2	104422057	A	C	6287	-0.09	0.02	0.00	0.00	23.20
rs77066924	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	2	146335377	C	T	6287	-0.18	0.04	0.00	0.00	22.71
rs73148052	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	3	82355943	T	C	6287	-0.30	0.07	0.00	0.00	21.18
rs6842797	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	4	143595961	A	T	6287	0.08	0.02	0.00	0.00	22.40
rs270607	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	5	132313493	G	A	6287	-0.11	0.02	0.00	0.01	37.44
rs1746764	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	6	10948633	A	G	6287	0.10	0.02	0.00	0.00	30.64
rs59682554	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	6	27184154	C	T	6287	-0.26	0.06	0.00	0.00	20.54
rs57724827 1	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	6	103005277	C	A	6287	0.24	0.05	0.00	0.00	19.82
rs2011082	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	6	110413796	T	G	6287	0.11	0.02	0.00	0.00	27.32
rs12208357	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	6	160122116	T	C	6287	0.18	0.03	0.00	0.00	30.45
rs2277088	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	6	168546858	C	T	6287	-0.20	0.04	0.00	0.00	19.86
rs57011651	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	7	19813771	T	A	6287	-0.21	0.04	0.00	0.00	25.67
rs11258509 2	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	7	29646260	G	T	6287	0.29	0.06	0.00	0.00	20.84
rs14840566 1	Docosaehxaen oylcarnitine (C22:6) levels	GCST90200146	8	5847953	G	A	6287	0.36	0.07	0.00	0.00	24.76

rs79335572	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	9	88851642	C	T	6287	-0.32	0.07	0.00	0.00	22.34
rs1171618	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	10	59706183	C	T	6287	0.09	0.02	0.00	0.00	26.07
rs12577284	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	11	48129267	T	G	6287	0.11	0.02	0.00	0.00	23.85
rs174538	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	11	61792609	A	G	6287	-0.10	0.02	0.00	0.00	28.45
rs76999571	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	11	106383480	T	C	6287	0.26	0.05	0.00	0.00	21.72
rs58487503	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	12	21227046	A	G	6287	0.12	0.02	0.00	0.00	27.34
rs35861740	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	13	65701717	T	G	6287	0.34	0.08	0.00	0.00	19.58
rs112892478	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	13	89871153	A	G	6287	0.39	0.08	0.00	0.00	21.52
rs113936021	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	13	106832333	G	A	6287	-0.16	0.04	0.00	0.00	20.75
rs554509114	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	15	30711919	T	C	6287	0.34	0.08	0.00	0.00	20.24
rs8080565	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	17	13496836	A	G	6287	-0.17	0.03	0.00	0.00	22.80
rs76723717	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	18	62010436	C	T	6287	0.29	0.06	0.00	0.00	20.62
rs202371	Docosahexaen oylcarnitine (C22:6) levels	GCST90200146	20	46548354	A	G	6287	-0.29	0.06	0.00	0.00	21.48
rs72696919	N,N,N-trimethyl-5-aminovale- rate levels	GCST90200147	1	152048802	A	C	8214	0.07	0.02	0.00	0.00	20.30
rs2501339	N,N,N-trimethyl-5-aminovale- rate levels	GCST90200147	1	159855271	C	G	8214	0.07	0.02	0.00	0.00	19.57
rs62133969	N,N,N-trimethyl-5-aminovale- rate levels	GCST90200147	2	69676444	G	A	8214	0.08	0.02	0.00	0.00	20.38
rs75041978	N,N,N-trimethyl-5-aminovale- rate levels	GCST90200147	2	116551836	T	C	8214	-0.23	0.05	0.00	0.00	21.53
rs114092500	N,N,N-trimethyl-5-aminovale- rate levels	GCST90200147	3	85031810	G	A	8214	-0.19	0.04	0.00	0.00	21.80
rs116741547	N,N,N-trimethyl-5-aminovale- rate levels	GCST90200147	3	161811879	T	C	8214	0.09	0.02	0.00	0.00	21.14
rs35652985	N,N,N-trimethyl-5-aminovale- rate levels	GCST90200147	3	185878164	C	T	8214	0.15	0.03	0.00	0.00	27.49
rs13124155	N,N,N-trimethyl-5-aminovale- rate levels	GCST90200147	4	75882518	T	G	8214	-0.07	0.01	0.00	0.00	21.16

rs10019927	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	4	170733032	A	G	8214	0.10	0.02	0.00	0.00	22.62
rs13357247	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	5	130801664	T	C	8214	-0.24	0.03	0.00	0.01	48.11
rs272857	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	5	132349604	A	G	8214	-0.18	0.02	0.00	0.02	135.91
rs115855008	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	5	168085894	C	A	8214	-0.26	0.05	0.00	0.00	27.99
rs9382940	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	6	14133342	T	C	8214	0.11	0.02	0.00	0.00	30.67
rs77656158	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	6	153544384	G	A	8214	-0.10	0.02	0.00	0.00	20.23
rs8191944	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	6	160102283	T	C	8214	-0.43	0.10	0.00	0.00	19.53
rs112201728	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	6	160130454	T	C	8214	0.18	0.03	0.00	0.00	35.64
rs192570103	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	7	45381219	G	T	8214	0.15	0.03	0.00	0.00	20.57
rs72654913	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	8	66854558	C	T	8214	0.18	0.04	0.00	0.00	23.89
rs139673448	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	8	110947911	C	A	8214	-0.26	0.06	0.00	0.00	21.62
rs6999538	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	8	122136055	T	A	8214	-0.19	0.04	0.00	0.00	22.54
rs76127293	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	9	21286305	A	G	8214	-0.21	0.05	0.00	0.00	19.62
rs11239528	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	10	45459588	G	A	8214	-0.11	0.02	0.00	0.01	43.55
rs17576821	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	11	107117546	A	G	8214	0.12	0.03	0.00	0.00	20.34
rs75441519	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	12	117847519	A	G	8214	0.12	0.02	0.00	0.00	23.52
rs530572750	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	13	37941942	T	G	8214	-0.32	0.07	0.00	0.00	21.99
rs12433003	N,N,N-trimethyl-5-aminovaleate levels	GCST90200147	14	22748616	C	T	8214	0.10	0.02	0.00	0.00	21.51

rs12895751	N,N,N-trimethyl-5-aminovalerate levels	GCST90200147	14	39139978	A	G	8214	0.08	0.02	0.00	0.00	20.77
rs8033451	N,N,N-trimethyl-5-aminovalerate levels	GCST90200147	15	82095586	C	A	8214	-0.15	0.03	0.00	0.00	20.30
rs13336225	N,N,N-trimethyl-5-aminovalerate levels	GCST90200147	16	4231942	G	A	8214	0.08	0.02	0.00	0.00	19.89
rs258332	N,N,N-trimethyl-5-aminovalerate levels	GCST90200147	16	89661275	A	G	8214	-0.08	0.02	0.00	0.00	29.60
rs11871125	N,N,N-trimethyl-5-aminovalerate levels	GCST90200147	17	19529080	T	C	8214	0.11	0.02	0.00	0.01	53.65
rs117505483	N,N,N-trimethyl-5-aminovalerate levels	GCST90200147	17	72962266	G	A	8214	0.23	0.05	0.00	0.00	21.60
rs56012365	N,N,N-trimethyl-5-aminovalerate levels	GCST90200147	19	43971486	A	G	8214	0.13	0.03	0.00	0.00	22.51
rs133839	N,N,N-trimethyl-5-aminovalerate levels	GCST90200147	22	25727521	T	C	8214	-0.20	0.04	0.00	0.00	21.20
rs180837049	Eicosenoylcar nitine (C20:1) levels	GCST90200148	1	3656062	T	G	8145	0.42	0.09	0.00	0.00	21.50
rs112118255	Eicosenoylcar nitine (C20:1) levels	GCST90200148	1	19652896	A	G	8145	0.20	0.04	0.00	0.00	20.40
rs77320796	Eicosenoylcar nitine (C20:1) levels	GCST90200148	1	39929523	G	A	8145	0.10	0.02	0.00	0.00	31.39
rs4233731	Eicosenoylcar nitine (C20:1) levels	GCST90200148	2	28938144	A	G	8145	-0.14	0.03	0.00	0.00	21.54
rs6716947	Eicosenoylcar nitine (C20:1) levels	GCST90200148	2	56821319	C	A	8145	-0.08	0.02	0.00	0.00	21.31
rs115362213	Eicosenoylcar nitine (C20:1) levels	GCST90200148	3	170171917	C	G	8145	-0.30	0.07	0.00	0.00	20.27
rs74490628	Eicosenoylcar nitine (C20:1) levels	GCST90200148	3	196349220	T	C	8145	-0.31	0.06	0.00	0.00	24.71
rs4637388	Eicosenoylcar nitine (C20:1) levels	GCST90200148	4	23869967	G	A	8145	-0.09	0.02	0.00	0.00	21.00
rs111632193	Eicosenoylcar nitine (C20:1) levels	GCST90200148	4	56832359	A	C	8145	-0.10	0.02	0.00	0.00	23.18
rs112390731	Eicosenoylcar nitine (C20:1) levels	GCST90200148	4	108786842	A	G	8145	0.25	0.05	0.00	0.00	20.49
rs7678967	Eicosenoylcar nitine (C20:1) levels	GCST90200148	4	136502801	G	A	8145	0.11	0.02	0.00	0.00	21.14
rs17035869	Eicosenoylcar nitine (C20:1) levels	GCST90200148	4	157194612	A	G	8145	-0.16	0.03	0.00	0.00	23.56
rs16869186	Eicosenoylcar nitine (C20:1) levels	GCST90200148	5	16864832	T	C	8145	0.15	0.03	0.00	0.00	23.58
rs152965	Eicosenoylcar nitine (C20:1) levels	GCST90200148	5	98572670	C	T	8145	-0.07	0.02	0.00	0.00	23.48

rs4705933	Eicosenoylcar nitine (C20:1) levels	GCST90200148	5	132342719	A	G	8145	-0.11	0.02	0.00	0.01	52.60
rs12210538	Eicosenoylcar nitine (C20:1) levels	GCST90200148	6	110438805	G	A	8145	-0.16	0.02	0.00	0.01	82.96
rs7817446	Eicosenoylcar nitine (C20:1) levels	GCST90200148	8	68273243	C	A	8145	0.07	0.02	0.00	0.00	20.98
rs18496271 0	Eicosenoylcar nitine (C20:1) levels	GCST90200148	9	113320903	T	G	8145	0.26	0.06	0.00	0.00	19.97
rs12356275	Eicosenoylcar nitine (C20:1) levels	GCST90200148	10	117556594	C	T	8145	-0.09	0.02	0.00	0.00	26.47
rs2900478	Eicosenoylcar nitine (C20:1) levels	GCST90200148	12	21215863	A	T	8145	0.11	0.02	0.00	0.00	28.05
rs77759872	Eicosenoylcar nitine (C20:1) levels	GCST90200148	13	52764924	A	T	8145	0.10	0.02	0.00	0.00	20.67
rs11249390 2	Eicosenoylcar nitine (C20:1) levels	GCST90200148	16	3268782	T	C	8145	0.30	0.06	0.00	0.00	24.61
rs78791450	Eicosenoylcar nitine (C20:1) levels	GCST90200148	16	28078866	T	C	8145	-0.26	0.05	0.00	0.00	28.20
rs2301865	Eicosenoylcar nitine (C20:1) levels	GCST90200148	16	74716507	A	G	8145	-0.09	0.02	0.00	0.00	22.33
rs17772609	Eicosenoylcar nitine (C20:1) levels	GCST90200148	16	77595993	G	A	8145	-0.17	0.04	0.00	0.00	19.92
rs11653718	Eicosenoylcar nitine (C20:1) levels	GCST90200148	17	6063494	T	G	8145	0.26	0.05	0.00	0.00	25.19
rs14687843 5	Eicosenoylcar nitine (C20:1) levels	GCST90200148	17	34701915	C	T	8145	-0.34	0.08	0.00	0.00	20.21
rs17773854	Eicosenoylcar nitine (C20:1) levels	GCST90200148	17	78139331	T	G	8145	0.07	0.02	0.00	0.00	23.56
rs11086004	Eicosenoylcar nitine (C20:1) levels	GCST90200148	19	15864082	G	A	8145	0.07	0.02	0.00	0.00	21.78
rs769449	Eicosenoylcar nitine (C20:1) levels	GCST90200148	19	44906745	A	G	8145	0.10	0.02	0.00	0.00	19.86
rs3091985	Eicosenoylcar nitine (C20:1) levels	GCST90200148	20	47169366	C	G	8145	-0.07	0.02	0.00	0.00	19.80
rs73167023	Eicosenoylcar nitine (C20:1) levels	GCST90200148	22	40403950	C	T	8145	-0.10	0.02	0.00	0.00	19.62
rs11245352 9	Ximenoylcarni tine (C26:1) levels	GCST90200149	1	27524776	T	C	8260	-0.29	0.06	0.00	0.00	19.85
rs74071929	Ximenoylcarni tine (C26:1) levels	GCST90200149	1	43526440	A	T	8260	-0.66	0.09	0.00	0.01	55.21
rs12737375	Ximenoylcarni tine (C26:1) levels	GCST90200149	1	53209860	C	T	8260	-0.23	0.02	0.00	0.02	203.69
rs1168041	Ximenoylcarni tine (C26:1) levels	GCST90200149	1	62494579	C	T	8260	0.07	0.02	0.00	0.00	20.49
rs13023194	Ximenoylcarni tine (C26:1) levels	GCST90200149	2	27744393	C	G	8260	0.09	0.02	0.00	0.00	20.62
rs12613526	Ximenoylcarni tine (C26:1) levels	GCST90200149	2	46328124	G	A	8260	0.07	0.02	0.00	0.00	22.79

rs14713400 2	Ximenoylcarni tine (C26:1) levels	GCST90200149	2	75025208	A	G	8260	0.29	0.06	0.00	0.00	20.26
rs75166659	Ximenoylcarni tine (C26:1) levels	GCST90200149	3	93828459	C	T	8260	-0.19	0.04	0.00	0.00	20.95
rs388891	Ximenoylcarni tine (C26:1) levels	GCST90200149	5	132365102	G	C	8260	-0.16	0.02	0.00	0.01	97.52
rs77234766	Ximenoylcarni tine (C26:1) levels	GCST90200149	5	156380184	T	G	8260	0.14	0.03	0.00	0.00	22.02
rs12210538	Ximenoylcarni tine (C26:1) levels	GCST90200149	6	110438805	G	A	8260	-0.21	0.02	0.00	0.02	136.27
rs9484661	Ximenoylcarni tine (C26:1) levels	GCST90200149	6	142660763	T	C	8260	-0.08	0.02	0.00	0.00	22.16
rs10243781	Ximenoylcarni tine (C26:1) levels	GCST90200149	7	905237	A	G	8260	0.11	0.02	0.00	0.00	19.92
rs35398290	Ximenoylcarni tine (C26:1) levels	GCST90200149	7	44239069	C	T	8260	0.08	0.02	0.00	0.00	24.71
rs11771014 2	Ximenoylcarni tine (C26:1) levels	GCST90200149	8	4624954	T	C	8260	-0.22	0.05	0.00	0.00	20.31
rs28673132	Ximenoylcarni tine (C26:1) levels	GCST90200149	8	5100136	C	T	8260	-0.12	0.03	0.00	0.00	20.36
rs18451045 2	Ximenoylcarni tine (C26:1) levels	GCST90200149	8	39187563	A	G	8260	0.30	0.06	0.00	0.00	21.82
rs12544463	Ximenoylcarni tine (C26:1) levels	GCST90200149	8	86468885	G	A	8260	0.15	0.02	0.00	0.01	79.07
rs12549248	Ximenoylcarni tine (C26:1) levels	GCST90200149	8	95845740	G	C	8260	-0.07	0.02	0.00	0.00	19.70
rs19098266 7	Ximenoylcarni tine (C26:1) levels	GCST90200149	10	10558536	T	G	8260	0.22	0.05	0.00	0.00	19.83
rs15073993 6	Ximenoylcarni tine (C26:1) levels	GCST90200149	10	42654386	C	G	8260	0.41	0.09	0.00	0.00	19.75
rs77433727	Ximenoylcarni tine (C26:1) levels	GCST90200149	11	11280635	T	C	8260	-0.19	0.04	0.00	0.00	20.83
rs2510374	Ximenoylcarni tine (C26:1) levels	GCST90200149	11	68633911	G	A	8260	0.30	0.02	0.00	0.02	159.39
rs7101947	Ximenoylcarni tine (C26:1) levels	GCST90200149	11	68684660	T	C	8260	0.11	0.02	0.00	0.00	39.64
rs73079476	Ximenoylcarni tine (C26:1) levels	GCST90200149	12	21190899	C	A	8260	0.10	0.02	0.00	0.00	24.31
rs1629047	Ximenoylcarni tine (C26:1) levels	GCST90200149	13	67413167	G	A	8260	-0.15	0.03	0.00	0.00	21.67
rs57650608 9	Ximenoylcarni tine (C26:1) levels	GCST90200149	13	70339748	C	T	8260	-0.31	0.07	0.00	0.00	20.68
rs14003770 8	Ximenoylcarni tine (C26:1) levels	GCST90200149	16	11408753	C	G	8260	0.20	0.05	0.00	0.00	19.51
rs15062686 7	Ximenoylcarni tine (C26:1) levels	GCST90200149	16	49916589	A	G	8260	-0.31	0.06	0.00	0.00	24.26
rs11318308 4	Ximenoylcarni tine (C26:1) levels	GCST90200149	19	11391194	T	C	8260	-0.22	0.05	0.00	0.00	23.44

rs157595	Ximenoylcarni tine (C26:1) levels	GCST90200149	19	44922203	G	A	8260	0.07	0.02	0.00	0.00	22.01
rs112423370	Ximenoylcarni tine (C26:1) levels	GCST90200149	20	61882821	G	A	8260	-0.25	0.05	0.00	0.00	24.22
rs1988711	Ximenoylcarni tine (C26:1) levels	GCST90200149	22	48040536	A	G	8260	-0.08	0.02	0.00	0.00	20.91
rs58966590	Arachidonoylc arnitine (C20:4) levels	GCST90200150	1	54077129	G	A	8202	-0.11	0.02	0.00	0.00	25.68
rs7544618	Arachidonoylc arnitine (C20:4) levels	GCST90200150	1	103120396	T	C	8202	0.22	0.04	0.00	0.00	23.60
rs1420104	Arachidonoylc arnitine (C20:4) levels	GCST90200150	2	102332010	A	G	8202	-0.07	0.02	0.00	0.00	20.48
rs115424615	Arachidonoylc arnitine (C20:4) levels	GCST90200150	3	36675203	A	G	8202	0.29	0.06	0.00	0.00	20.33
rs13097416	Arachidonoylc arnitine (C20:4) levels	GCST90200150	3	62360550	A	C	8202	0.09	0.02	0.00	0.00	23.92
rs141873775	Arachidonoylc arnitine (C20:4) levels	GCST90200150	3	179414784	T	C	8202	0.23	0.05	0.00	0.00	21.11
rs141255814	Arachidonoylc arnitine (C20:4) levels	GCST90200150	4	106806157	G	A	8202	-0.36	0.08	0.00	0.00	20.09
rs7685385	Arachidonoylc arnitine (C20:4) levels	GCST90200150	4	144029851	A	C	8202	0.07	0.02	0.00	0.00	20.04
rs1507497	Arachidonoylc arnitine (C20:4) levels	GCST90200150	4	147177173	C	G	8202	-0.07	0.02	0.00	0.00	21.37
rs139514195	Arachidonoylc arnitine (C20:4) levels	GCST90200150	5	15218272	G	A	8202	-0.32	0.06	0.00	0.00	27.39
rs72812719	Arachidonoylc arnitine (C20:4) levels	GCST90200150	5	116544502	A	T	8202	-0.12	0.03	0.00	0.00	20.31
rs635619	Arachidonoylc arnitine (C20:4) levels	GCST90200150	5	132384573	A	G	8202	0.25	0.02	0.00	0.03	237.50
rs143370068	Arachidonoylc arnitine (C20:4) levels	GCST90200150	5	151384678	T	C	8202	-0.36	0.07	0.00	0.00	27.71
rs78695436	Arachidonoylc arnitine (C20:4) levels	GCST90200150	6	19456099	A	G	8202	-0.32	0.07	0.00	0.00	19.71
rs12210538	Arachidonoylc arnitine (C20:4) levels	GCST90200150	6	110438805	G	A	8202	-0.47	0.02	0.00	0.09	790.26
rs13241452	Arachidonoylc arnitine (C20:4) levels	GCST90200150	7	73640245	A	T	8202	-0.08	0.02	0.00	0.00	21.17
rs2267812	Arachidonoylc arnitine (C20:4) levels	GCST90200150	7	74723788	A	C	8202	-0.08	0.02	0.00	0.00	21.50
rs73193723	Arachidonoylc arnitine (C20:4) levels	GCST90200150	7	107868137	C	A	8202	-0.16	0.04	0.00	0.00	20.22
rs71496604	Arachidonoylc arnitine (C20:4) levels	GCST90200150	10	45512385	G	A	8202	0.30	0.03	0.00	0.01	103.33
rs1171614	Arachidonoylc arnitine (C20:4) levels	GCST90200150	10	59709780	C	T	8202	0.16	0.02	0.00	0.01	78.46
rs149540758	Arachidonoylc arnitine (C20:4) levels	GCST90200150	10	133574158	T	G	8202	0.53	0.11	0.00	0.00	22.54

rs61870520	Arachidonoylc arnitine (C20:4) levels	GCST90200150	11	3226421	A	G	8202	0.08	0.02	0.00	0.00	20.47
rs10835056	Arachidonoylc arnitine (C20:4) levels	GCST90200150	11	26675470	G	T	8202	0.08	0.02	0.00	0.00	21.81
rs174554	Arachidonoylc arnitine (C20:4) levels	GCST90200150	11	61811991	G	A	8202	-0.27	0.02	0.00	0.04	301.46
rs2229738	Arachidonoylc arnitine (C20:4) levels	GCST90200150	11	68794860	T	C	8202	0.24	0.03	0.00	0.01	68.40
rs4980865	Arachidonoylc arnitine (C20:4) levels	GCST90200150	12	209048	T	C	8202	-0.07	0.01	0.00	0.00	21.62
rs2199680	Arachidonoylc arnitine (C20:4) levels	GCST90200150	12	21262562	T	A	8202	0.14	0.02	0.00	0.01	46.84
rs72720363	Arachidonoylc arnitine (C20:4) levels	GCST90200150	14	64175649	T	G	8202	-0.09	0.02	0.00	0.00	22.48
rs4641682	Arachidonoylc arnitine (C20:4) levels	GCST90200150	15	54479682	G	T	8202	-0.07	0.02	0.00	0.00	20.35
rs11707465 8	Arachidonoylc arnitine (C20:4) levels	GCST90200150	16	12561512	T	C	8202	0.29	0.07	0.00	0.00	19.82
rs4500751	Arachidonoylc arnitine (C20:4) levels	GCST90200150	16	15046354	T	C	8202	-0.09	0.02	0.00	0.00	33.66
rs11804068 9	Arachidonoylc arnitine (C20:4) levels	GCST90200150	17	80360408	A	G	8202	-0.20	0.04	0.00	0.00	19.63
rs11668716	Arachidonoylc arnitine (C20:4) levels	GCST90200150	19	49888757	A	T	8202	-0.09	0.02	0.00	0.00	21.10
rs2024635	Arachidonoylc arnitine (C20:4) levels	GCST90200150	20	34834811	A	G	8202	-0.09	0.02	0.00	0.00	36.15
rs6000488	Arachidonoylc arnitine (C20:4) levels	GCST90200150	22	36925818	A	G	8202	-0.12	0.02	0.00	0.00	22.55
rs4650136	dodecenoylcarnitine (C12:1) levels	GCST90200151	1	69219367	A	G	7899	-0.07	0.02	0.00	0.00	22.18
rs12136754	dodecenoylcarnitine (C12:1) levels	GCST90200151	1	75764547	A	C	7899	-0.09	0.02	0.00	0.00	30.36
rs36012907	dodecenoylcarnitine (C12:1) levels	GCST90200151	1	204619938	T	C	7899	0.12	0.03	0.00	0.00	20.27
rs12613519	dodecenoylcarnitine (C12:1) levels	GCST90200151	2	46328082	G	A	7899	0.07	0.02	0.00	0.00	20.99
rs1391967	dodecenoylcarnitine (C12:1) levels	GCST90200151	3	1322878	G	A	7899	-0.09	0.02	0.00	0.00	23.07
rs80146814	dodecenoylcarnitine (C12:1) levels	GCST90200151	4	139505061	A	G	7899	0.14	0.03	0.00	0.00	19.64
rs78049380	dodecenoylcarnitine (C12:1) levels	GCST90200151	5	36571420	G	T	7899	0.20	0.04	0.00	0.00	23.08
rs76612333	dodecenoylcarnitine (C12:1) levels	GCST90200151	5	111300957	A	T	7899	-0.08	0.02	0.00	0.00	21.73

rs530338959	5- dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	5	136301390	A	C	7899	0.14	0.03	0.00	0.00	20.85
rs9395112	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	6	45715069	G	A	7899	-0.10	0.02	0.00	0.00	21.84
rs74907759	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	6	160436161	G	A	7899	-0.36	0.08	0.00	0.00	23.08
rs12536168	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	7	36958560	G	T	7899	0.10	0.02	0.00	0.00	20.49
rs34204327	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	10	14015591	G	A	7899	-0.08	0.02	0.00	0.00	19.97
rs603424	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	10	100315722	A	G	7899	-0.13	0.02	0.00	0.01	45.27
rs790644	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	10	105019100	A	G	7899	0.08	0.02	0.00	0.00	24.89
rs140293381	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	10	109425591	G	A	7899	-0.21	0.05	0.00	0.00	21.07
rs11022949	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	11	13746514	A	C	7899	-0.20	0.05	0.00	0.00	20.59
rs117414974	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	13	19141643	G	C	7899	0.25	0.06	0.00	0.00	19.55
rs11616775	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	13	60762221	T	C	7899	0.37	0.08	0.00	0.00	22.03
rs111545172	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	13	92339304	T	C	7899	0.18	0.04	0.00	0.00	22.93
rs74981360	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	13	109345990	C	A	7899	0.22	0.05	0.00	0.00	21.80
rs140077939	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	15	61055528	T	G	7899	-0.17	0.04	0.00	0.00	19.79
rs55825142	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	15	67130597	G	A	7899	0.17	0.04	0.00	0.00	19.88
rs2562070	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	16	87568272	G	A	7899	0.08	0.02	0.00	0.00	20.78
rs149340696	dodecenoylcar nitine (C12:1) levels 5-	GCST90200151	18	21339055	T	C	7899	-0.39	0.08	0.00	0.00	22.48
rs2828573	dodecenoylcar nitine (C12:1) levels	GCST90200151	21	23869385	A	T	7899	0.17	0.04	0.00	0.00	22.53

rs10908367	2- butenoylglycin e levels	GCST90200152	1	37668934	C	A	6253	0.10	0.02	0.00	0.00	20.59
rs381231	2- butenoylglycin e levels	GCST90200152	1	40391252	G	A	6253	0.14	0.03	0.00	0.00	19.64
rs7524467	2- butenoylglycin e levels	GCST90200152	1	75728369	G	C	6253	0.13	0.02	0.00	0.01	52.04
rs14958067 1	2- butenoylglycin e levels	GCST90200152	1	199641514	A	G	6253	-0.33	0.07	0.00	0.00	21.90
rs59164865	2- butenoylglycin e levels	GCST90200152	2	10846728	A	G	6253	-0.12	0.03	0.00	0.00	21.79
rs1047891	2- butenoylglycin e levels	GCST90200152	2	210675783	A	C	6253	0.26	0.02	0.00	0.03	210.16
rs67922543	2- butenoylglycin e levels	GCST90200152	3	191134147	C	T	6253	0.11	0.03	0.00	0.00	19.58
rs61179915	2- butenoylglycin e levels	GCST90200152	4	26841651	A	G	6253	-0.30	0.07	0.00	0.00	19.61
rs17007085	2- butenoylglycin e levels	GCST90200152	4	83657525	T	C	6253	-0.10	0.02	0.00	0.00	22.33
rs14644635 5	2- butenoylglycin e levels	GCST90200152	4	104842373	T	G	6253	-0.45	0.09	0.00	0.00	24.66
rs76293759	2- butenoylglycin e levels	GCST90200152	4	150199316	T	C	6253	0.17	0.03	0.00	0.00	24.58
rs2194080	2- butenoylglycin e levels	GCST90200152	5	127298752	G	C	6253	0.20	0.04	0.00	0.00	22.58
rs14598051 2	2- butenoylglycin e levels	GCST90200152	5	153012701	A	G	6253	0.16	0.04	0.00	0.00	19.56
rs7797966	2- butenoylglycin e levels	GCST90200152	7	103735399	A	C	6253	-0.24	0.05	0.00	0.00	21.41
rs10736991	2- butenoylglycin e levels	GCST90200152	10	4766994	C	T	6253	-0.25	0.06	0.00	0.00	19.53
rs1418075	2- butenoylglycin e levels	GCST90200152	10	20953122	T	C	6253	-0.13	0.03	0.00	0.00	20.65
rs11232477 4	2- butenoylglycin e levels	GCST90200152	10	33476250	C	T	6253	0.15	0.03	0.00	0.00	20.03
rs10160757	2- butenoylglycin e levels	GCST90200152	11	3088196	C	T	6253	0.10	0.02	0.00	0.00	21.62
rs74730364	2- butenoylglycin e levels	GCST90200152	11	20032201	T	G	6253	-0.22	0.05	0.00	0.00	20.20
rs596603	2- butenoylglycin e levels	GCST90200152	11	67592132	G	T	6253	-0.14	0.02	0.00	0.01	66.67
rs57704355	2- butenoylglycin e levels	GCST90200152	12	58078939	C	A	6253	0.08	0.02	0.00	0.00	20.12
rs75143249	2- butenoylglycin e levels	GCST90200152	12	90689993	T	C	6253	0.41	0.08	0.00	0.00	23.14
rs11796867 6	2- butenoylglycin e levels	GCST90200152	14	96720761	A	G	6253	-0.21	0.04	0.00	0.00	23.34
rs11576650 4	2- butenoylglycin e levels	GCST90200152	16	60541398	G	A	6253	0.34	0.07	0.00	0.00	24.48

rs55810147	2- butenoylglycin e levels	GCST90200152	16	85186022	T	C	6253	0.10	0.02	0.00	0.00	21.00
rs199493	2- butenoylglycin e levels	GCST90200152	17	46791946	A	G	6253	0.12	0.03	0.00	0.00	21.64
rs11754855 5	2- butenoylglycin e levels	GCST90200152	21	15730718	A	G	6253	0.27	0.06	0.00	0.00	21.65
rs11318276 2	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	1	192959902	C	T	8219	0.21	0.04	0.00	0.00	22.93
rs12750633	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	1	240444264	A	G	8219	0.08	0.02	0.00	0.00	19.64
rs62140395	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	2	28022059	C	G	8219	-0.11	0.02	0.00	0.00	22.98
rs35711692	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	3	194497918	T	A	8219	0.14	0.03	0.00	0.00	20.42
rs1187208	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	4	86707772	G	A	8219	0.13	0.02	0.00	0.00	31.37
rs1916687	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	4	118341449	A	G	8219	0.15	0.03	0.00	0.00	24.23
rs62377688	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	5	147270668	A	C	8219	-0.11	0.02	0.00	0.00	19.71
rs36215963	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	6	166507687	G	C	8219	0.10	0.02	0.00	0.00	20.18
rs12154893	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	7	51539764	G	A	8219	-0.22	0.05	0.00	0.00	20.14
rs13225947	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	7	81416452	A	G	8219	0.10	0.02	0.00	0.00	20.73
rs19072705 7	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	7	135216484	A	G	8219	-0.18	0.04	0.00	0.00	20.97
rs12668631	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	7	150798309	C	T	8219	0.10	0.02	0.00	0.00	27.85
rs62492368	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	7	150840547	A	G	8219	-0.26	0.02	0.00	0.03	267.16
rs11981217	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	7	150859064	A	G	8219	0.22	0.02	0.00	0.01	90.77
rs12548660	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	8	144923320	T	C	8219	0.08	0.02	0.00	0.00	21.49
rs14467426 8	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	9	77191603	A	G	8219	-0.38	0.08	0.00	0.00	23.97
rs4744000	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	9	90655961	C	T	8219	-0.08	0.02	0.00	0.00	26.49
rs11594830	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	10	34143074	A	C	8219	0.08	0.02	0.00	0.00	21.16
rs2420767	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	10	120654573	A	G	8219	0.07	0.02	0.00	0.00	20.66
rs59540563	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	10	133144983	T	C	8219	0.11	0.02	0.00	0.00	29.95
rs4240520	(N(1) + N(8))- acetylspemidi ne levels	GCST90200153	10	133383915	A	G	8219	-0.26	0.02	0.00	0.02	137.18

rs12576570	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	11	8221455	A	G	8219	0.11	0.02	0.00	0.00	19.60
rs56316161	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	11	116090833	T	C	8219	-0.14	0.03	0.00	0.00	20.99
rs11753449 7	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	11	119955097	G	A	8219	-0.21	0.04	0.00	0.00	23.08
rs1874349	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	12	25962574	G	C	8219	0.07	0.02	0.00	0.00	19.92
rs56401602	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	12	61293021	A	G	8219	-0.15	0.03	0.00	0.00	21.84
rs76561032	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	13	41605743	G	C	8219	0.27	0.06	0.00	0.00	20.49
rs14821965 1	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	13	63322569	T	C	8219	-0.38	0.08	0.00	0.00	22.84
rs13997667 4	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	14	33734014	G	A	8219	0.34	0.08	0.00	0.00	20.07
rs9671429	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	14	94550144	G	A	8219	0.26	0.06	0.00	0.00	21.17
rs77170582	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	15	75646605	T	C	8219	-0.08	0.02	0.00	0.00	20.41
rs9900207	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	17	78268490	G	T	8219	-0.22	0.05	0.00	0.00	19.64
rs16975921	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	18	42334905	T	A	8219	-0.07	0.02	0.00	0.00	20.08
rs12982415	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	19	38206600	T	C	8219	0.20	0.05	0.00	0.00	20.43
rs4821526	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	22	36788159	T	G	8219	0.08	0.02	0.00	0.00	24.42
rs34453049	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	22	45177163	C	G	8219	0.31	0.06	0.00	0.00	25.50
rs14838195 3	(N(1) + N(8))- acetylspermidi ne levels	GCST90200153	22	50123655	G	A	8219	0.79	0.06	0.00	0.02	202.68
rs4661320	Hydroxy-cmpf levels	GCST90200154	1	15113741	C	A	8254	0.07	0.02	0.00	0.00	19.55
rs17042314	Hydroxy-cmpf levels	GCST90200154	2	661188	C	T	8254	0.11	0.02	0.00	0.00	21.54
rs79212225	Hydroxy-cmpf levels	GCST90200154	2	76451125	T	A	8254	0.17	0.04	0.00	0.00	20.12
rs78844916	Hydroxy-cmpf levels	GCST90200154	3	95316755	T	C	8254	-0.12	0.03	0.00	0.00	19.79
rs80096050	Hydroxy-cmpf levels	GCST90200154	5	146221779	G	A	8254	-0.12	0.02	0.00	0.00	23.24
rs1177442	Hydroxy-cmpf levels	GCST90200154	6	25808841	G	A	8254	-0.11	0.02	0.00	0.01	51.15
rs12661589	Hydroxy-cmpf levels	GCST90200154	6	99753285	G	C	8254	0.22	0.05	0.00	0.00	20.95
rs9458273	Hydroxy-cmpf levels	GCST90200154	6	161470166	G	A	8254	0.08	0.02	0.00	0.00	20.26
rs1581690	Hydroxy-cmpf levels	GCST90200154	7	21994516	A	G	8254	0.08	0.02	0.00	0.00	19.95
rs18372648 8	Hydroxy-cmpf levels	GCST90200154	8	52172951	C	T	8254	-0.32	0.07	0.00	0.00	20.21
rs2293210	Hydroxy-cmpf levels	GCST90200154	8	133019408	T	C	8254	-0.11	0.02	0.00	0.00	25.58
rs7039675	Hydroxy-cmpf levels	GCST90200154	9	2278436	T	C	8254	0.10	0.02	0.00	0.00	20.92
rs1934982	Hydroxy-cmpf levels	GCST90200154	10	95042367	C	A	8254	-0.08	0.02	0.00	0.00	21.21

rs117877291	Hydroxy-cmpf levels	GCST90200154	11	41729189	T	C	8254	0.30	0.06	0.00	0.00	21.36
rs476378	Hydroxy-cmpf levels	GCST90200154	11	131929631	A	G	8254	-0.08	0.02	0.00	0.00	20.66
rs188461099	Hydroxy-cmpf levels	GCST90200154	12	65959897	A	T	8254	-0.27	0.06	0.00	0.00	19.88
rs117385587	Hydroxy-cmpf levels	GCST90200154	15	25871897	G	A	8254	0.22	0.04	0.00	0.00	24.23
rs12446415	Hydroxy-cmpf levels	GCST90200154	16	6310448	A	G	8254	-0.09	0.02	0.00	0.00	23.16
rs140597795	Hydroxy-cmpf levels	GCST90200154	16	23490224	T	C	8254	0.34	0.07	0.00	0.00	22.47
rs34674242	Hydroxy-cmpf levels	GCST90200154	17	6258893	A	G	8254	-0.07	0.02	0.00	0.00	19.55
rs733392	Hydroxy-cmpf levels	GCST90200154	17	50659042	A	G	8254	0.08	0.02	0.00	0.00	20.41
rs55789411	furoylcarnitine levels	GCST90200155	1	96645081	T	C	6448	0.08	0.02	0.00	0.00	19.83
rs10900463	furoylcarnitine levels	GCST90200155	1	203762556	T	C	6448	0.08	0.02	0.00	0.00	20.23
rs576046618	furoylcarnitine levels	GCST90200155	4	53828326	T	C	6448	-0.21	0.05	0.00	0.00	20.60
rs76815286	furoylcarnitine levels	GCST90200155	6	22961125	T	C	6448	-0.30	0.07	0.00	0.00	20.10
rs9369064	furoylcarnitine levels	GCST90200155	6	38506362	C	T	6448	-0.16	0.03	0.00	0.00	23.19
rs3813673	furoylcarnitine levels	GCST90200155	6	148134317	C	G	6448	-0.36	0.07	0.00	0.00	25.44
rs316023	furoylcarnitine levels	GCST90200155	6	160260282	C	T	6448	-0.08	0.02	0.00	0.00	22.96
rs17493738	furoylcarnitine levels	GCST90200155	8	81126711	C	G	6448	0.08	0.02	0.00	0.00	20.36
rs147050620	furoylcarnitine levels	GCST90200155	9	130392803	C	T	6448	0.26	0.06	0.00	0.00	20.36
rs142109544	furoylcarnitine levels	GCST90200155	10	88910845	A	T	6448	0.48	0.10	0.00	0.00	21.82
rs7095676	furoylcarnitine levels	GCST90200155	10	126865285	C	T	6448	0.08	0.02	0.00	0.00	20.02
rs117490375	furoylcarnitine levels	GCST90200155	11	77811290	C	A	6448	0.27	0.06	0.00	0.00	20.66
rs17758249	furoylcarnitine levels	GCST90200155	12	12581986	A	G	6448	0.26	0.05	0.00	0.00	22.15
rs16933302	furoylcarnitine levels	GCST90200155	12	28801401	G	A	6448	-0.17	0.04	0.00	0.00	20.21
rs78113681	furoylcarnitine levels	GCST90200155	12	48010760	T	A	6448	-0.19	0.04	0.00	0.00	19.64
rs1257512	furoylcarnitine levels	GCST90200155	14	99122665	T	C	6448	0.10	0.02	0.00	0.00	23.07
rs7161784	furoylcarnitine levels	GCST90200155	15	61462100	T	C	6448	0.09	0.02	0.00	0.00	20.74
rs2472297	furoylcarnitine levels	GCST90200155	15	74735539	T	C	6448	0.09	0.02	0.00	0.00	21.81
rs9935503	furoylcarnitine levels	GCST90200155	16	55455111	G	A	6448	0.08	0.02	0.00	0.00	19.83

rs116888293	2-furoylcarnitine levels	GCST90200155	17	18783816	A	C	6448	-0.44	0.09	0.00	0.00	21.96
rs10412211	2-furoylcarnitine levels	GCST90200155	19	13480728	T	G	6448	0.08	0.02	0.00	0.00	20.26
rs16996107	2-furoylcarnitine levels	GCST90200155	20	15602871	A	G	6448	-0.28	0.06	0.00	0.00	21.35
rs12091842	Cortolone glucuronide (1) levels	GCST90200156	1	168284594	A	G	8152	-0.18	0.04	0.00	0.00	21.82
rs79244823	Cortolone glucuronide (1) levels	GCST90200156	1	201688722	T	C	8152	-0.14	0.03	0.00	0.00	21.47
rs149215842	Cortolone glucuronide (1) levels	GCST90200156	4	57538051	T	C	8152	-0.31	0.07	0.00	0.00	22.11
rs9994887	Cortolone glucuronide (1) levels	GCST90200156	4	68671757	G	A	8152	0.11	0.01	0.00	0.01	51.41
rs9999076	Cortolone glucuronide (1) levels	GCST90200156	4	69115590	G	A	8152	0.08	0.01	0.00	0.00	27.36
rs4639218	Cortolone glucuronide (1) levels	GCST90200156	5	138162784	T	C	8152	0.07	0.02	0.00	0.00	23.28
rs1040519	Cortolone glucuronide (1) levels	GCST90200156	6	9542333	G	A	8152	-0.08	0.02	0.00	0.00	21.80
rs6456501	Cortolone glucuronide (1) levels	GCST90200156	6	22677213	A	G	8152	-0.43	0.09	0.00	0.00	24.17
rs1417998	Cortolone glucuronide (1) levels	GCST90200156	6	26161791	A	T	8152	0.11	0.02	0.00	0.00	24.42
rs112720528	Cortolone glucuronide (1) levels	GCST90200156	6	123320750	A	T	8152	0.40	0.09	0.00	0.00	19.88
rs118168183	Cortolone glucuronide (1) levels	GCST90200156	7	99693521	A	G	8152	-0.23	0.05	0.00	0.00	24.21
rs74556999	Cortolone glucuronide (1) levels	GCST90200156	8	8690949	T	C	8152	0.09	0.02	0.00	0.00	22.89
rs6982234	Cortolone glucuronide (1) levels	GCST90200156	8	21453959	G	A	8152	-0.08	0.02	0.00	0.00	20.11
rs142112014	Cortolone glucuronide (1) levels	GCST90200156	8	128288325	T	G	8152	-0.37	0.08	0.00	0.00	20.45
rs4385791	Cortolone glucuronide (1) levels	GCST90200156	10	4858917	G	T	8152	0.08	0.02	0.00	0.00	24.91
rs11252866	Cortolone glucuronide (1) levels	GCST90200156	10	4988075	T	C	8152	-0.30	0.03	0.00	0.02	133.73
rs117012332	Cortolone glucuronide (1) levels	GCST90200156	10	78690255	A	G	8152	-0.23	0.05	0.00	0.00	19.74
rs34269134	Cortolone glucuronide (1) levels	GCST90200156	10	125737378	G	C	8152	-0.31	0.07	0.00	0.00	21.99
rs2769428	Cortolone glucuronide (1) levels	GCST90200156	12	95399247	T	C	8152	0.31	0.07	0.00	0.00	19.79
rs4259955	Cortolone glucuronide (1) levels	GCST90200156	14	43643714	A	G	8152	-0.07	0.02	0.00	0.00	21.64
rs138130674	Cortolone glucuronide (1) levels	GCST90200156	15	26137128	G	A	8152	-0.39	0.08	0.00	0.00	27.69

rs28833516	Cortolone glucuronide (1) levels	GCST90200156	15	101623352	G	A	8152	-0.14	0.03	0.00	0.00	19.74
rs75030426	Cortolone glucuronide (1) levels	GCST90200156	17	53508673	G	A	8152	-0.15	0.03	0.00	0.00	21.23
rs11771176 4	Cortolone glucuronide (1) levels	GCST90200156	18	2362860	A	G	8152	-0.31	0.06	0.00	0.00	22.84
rs11543691 6	Cortolone glucuronide (1) levels	GCST90200156	19	9041507	T	C	8152	-0.20	0.04	0.00	0.00	22.60
rs11723305 2	Cortolone glucuronide (1) levels	GCST90200156	22	24629852	A	C	8152	0.26	0.06	0.00	0.00	20.64
rs469773	Carotene diol (3) levels	GCST90200157	1	91064702	T	C	7650	-0.09	0.02	0.00	0.00	20.45
rs17015613	Carotene diol (3) levels	GCST90200157	1	105278920	G	A	7650	-0.12	0.03	0.00	0.00	21.19
rs2877606	Carotene diol (3) levels	GCST90200157	1	181432358	C	T	7650	0.07	0.02	0.00	0.00	20.56
rs6753534	Carotene diol (3) levels	GCST90200157	2	27530004	T	C	7650	0.08	0.02	0.00	0.00	24.62
rs14825698 2	Carotene diol (3) levels	GCST90200157	4	24519106	A	G	7650	0.31	0.07	0.00	0.00	20.30
rs4487396	Carotene diol (3) levels	GCST90200157	4	185774054	T	C	7650	0.07	0.02	0.00	0.00	20.20
rs6865739	Carotene diol (3) levels	GCST90200157	5	10106599	A	G	7650	0.09	0.02	0.00	0.00	22.75
rs10062766	Carotene diol (3) levels	GCST90200157	5	36590098	G	A	7650	0.08	0.02	0.00	0.00	20.04
rs77387803	Carotene diol (3) levels	GCST90200157	5	83283744	G	A	7650	-0.21	0.04	0.00	0.00	23.17
rs14125884 9	Carotene diol (3) levels	GCST90200157	6	150301514	A	T	7650	-0.29	0.06	0.00	0.00	20.90
rs6956343	Carotene diol (3) levels	GCST90200157	7	5251769	T	C	7650	-0.11	0.02	0.00	0.00	21.73
rs79121461	Carotene diol (3) levels	GCST90200157	7	20600576	G	T	7650	0.18	0.04	0.00	0.00	19.69
rs13967423 2	Carotene diol (3) levels	GCST90200157	7	54563673	C	G	7650	-0.52	0.10	0.00	0.00	24.67
rs10503398	Carotene diol (3) levels	GCST90200157	8	9956976	C	T	7650	-0.17	0.04	0.00	0.00	19.62
rs10956962	Carotene diol (3) levels	GCST90200157	8	95628209	C	A	7650	0.08	0.02	0.00	0.00	22.88
rs14891524 4	Carotene diol (3) levels	GCST90200157	9	8804137	A	G	7650	-0.51	0.11	0.00	0.00	20.82
rs10786662	Carotene diol (3) levels	GCST90200157	10	102230055	C	G	7650	-0.07	0.02	0.00	0.00	21.13
rs16910761	Carotene diol (3) levels	GCST90200157	11	23170842	A	T	7650	-0.09	0.02	0.00	0.00	20.42
rs7975551	Carotene diol (3) levels	GCST90200157	12	11603457	G	A	7650	-0.09	0.02	0.00	0.00	19.78
rs11801810 3	Carotene diol (3) levels	GCST90200157	12	61701453	C	T	7650	-0.23	0.05	0.00	0.00	22.07
rs11769367 1	Carotene diol (3) levels	GCST90200157	12	116601058	A	G	7650	-0.23	0.05	0.00	0.00	22.39
rs10846742	Carotene diol (3) levels	GCST90200157	12	124824136	A	G	7650	-0.11	0.02	0.00	0.00	26.73
rs10148224	Carotene diol (3) levels	GCST90200157	14	78086678	T	G	7650	-0.09	0.02	0.00	0.00	21.37
rs14838788 8	Carotene diol (3) levels	GCST90200157	15	24794818	G	A	7650	0.19	0.04	0.00	0.00	19.93
rs79970796	Carotene diol (3) levels	GCST90200157	16	53905682	A	G	7650	-0.23	0.05	0.00	0.00	22.10
rs12927647	Carotene diol (3) levels	GCST90200157	16	81226288	C	A	7650	-0.21	0.02	0.00	0.02	167.12
rs9966765	Carotene diol (3) levels	GCST90200157	18	58449558	G	C	7650	0.09	0.02	0.00	0.00	21.00
rs76136186 3-	Carotene diol (3) levels	GCST90200157	20	58090878	A	C	7650	0.23	0.05	0.00	0.00	21.91
rs11572582	hydroxyoleoyl carnitine levels	GCST90200158	1	216823797	C	A	7532	0.30	0.06	0.00	0.00	27.46

rs2075209	3- hydroxyoleoyl carnitine levels	GCST90200158	2	65018989	A	G	7532	0.10	0.02	0.00	0.00	22.34
rs17018346	3- hydroxyoleoyl carnitine levels	GCST90200158	2	79969861	C	T	7532	0.09	0.02	0.00	0.00	22.76
rs7560143	3- hydroxyoleoyl carnitine levels	GCST90200158	2	151367866	T	A	7532	0.10	0.02	0.00	0.00	22.49
rs18867031 1	3- hydroxyoleoyl carnitine levels	GCST90200158	2	206764159	G	A	7532	0.26	0.06	0.00	0.00	20.10
rs10934968	3- hydroxyoleoyl carnitine levels	GCST90200158	3	131400166	A	G	7532	-0.11	0.02	0.00	0.00	20.46
rs11284513 1	3- hydroxyoleoyl carnitine levels	GCST90200158	3	144385482	T	A	7532	0.33	0.07	0.00	0.00	22.62
rs1401868	3- hydroxyoleoyl carnitine levels	GCST90200158	3	166939902	A	G	7532	0.08	0.02	0.00	0.00	19.78
rs28752105	3- hydroxyoleoyl carnitine levels	GCST90200158	4	56618630	A	T	7532	-0.33	0.07	0.00	0.00	19.58
rs72663981	3- hydroxyoleoyl carnitine levels	GCST90200158	4	86405587	A	C	7532	0.16	0.04	0.00	0.00	19.62
rs73741599	3- hydroxyoleoyl carnitine levels	GCST90200158	5	21623642	C	T	7532	-0.12	0.02	0.00	0.00	26.64
rs7727038	3- hydroxyoleoyl carnitine levels	GCST90200158	5	132254564	T	C	7532	-0.12	0.02	0.00	0.01	58.41
rs79685841	3- hydroxyoleoyl carnitine levels	GCST90200158	5	136590231	C	T	7532	0.17	0.04	0.00	0.00	21.17
rs9368892	3- hydroxyoleoyl carnitine levels	GCST90200158	6	11803204	C	A	7532	-0.07	0.02	0.00	0.00	19.53
rs14911403 6	3- hydroxyoleoyl carnitine levels	GCST90200158	6	158619833	T	C	7532	-0.15	0.03	0.00	0.00	20.00
rs13281473	3- hydroxyoleoyl carnitine levels	GCST90200158	8	72005208	A	G	7532	0.19	0.04	0.00	0.00	22.96
rs3118530	3- hydroxyoleoyl carnitine levels	GCST90200158	9	134483709	G	A	7532	-0.07	0.02	0.00	0.00	19.60
rs12765902	3- hydroxyoleoyl carnitine levels	GCST90200158	10	14026150	G	C	7532	-0.08	0.02	0.00	0.00	20.49
rs57711118 5	3- hydroxyoleoyl carnitine levels	GCST90200158	10	18344386	C	T	7532	-0.27	0.06	0.00	0.00	21.53
rs7096699	3- hydroxyoleoyl carnitine levels	GCST90200158	10	50699563	A	G	7532	-0.11	0.02	0.00	0.00	22.99
rs1171614	3- hydroxyoleoyl carnitine levels	GCST90200158	10	59709780	C	T	7532	0.09	0.02	0.00	0.00	21.13
rs74533261	3- hydroxyoleoyl carnitine levels	GCST90200158	10	62389753	A	G	7532	0.47	0.10	0.00	0.00	20.42
rs34794719	3- hydroxyoleoyl carnitine levels	GCST90200158	10	127029467	A	G	7532	-0.19	0.04	0.00	0.00	21.50
rs78045544	3- hydroxyoleoyl carnitine levels	GCST90200158	11	34211243	A	G	7532	0.16	0.03	0.00	0.00	20.70
rs1216003	3- hydroxyoleoyl carnitine levels	GCST90200158	12	106796152	G	T	7532	-0.12	0.02	0.00	0.00	25.98

rs12592822	3-hydroxyoleoyl carnitine levels	GCST90200158	15	100236456	C	T	7532	-0.07	0.02	0.00	0.00	21.42
rs58238534	3-hydroxyoleoyl carnitine levels	GCST90200158	16	6070826	C	A	7532	0.19	0.04	0.00	0.00	21.30
rs11641963	3-hydroxyoleoyl carnitine levels	GCST90200158	16	89682836	G	C	7532	-0.17	0.04	0.00	0.00	20.02
rs57818555 2	3-hydroxyoleoyl carnitine levels	GCST90200158	17	59394186	C	G	7532	-0.14	0.03	0.00	0.00	23.02
rs78348761	3-hydroxyoleoyl carnitine levels	GCST90200158	18	24871670	T	A	7532	-0.33	0.07	0.00	0.00	19.92
rs11585983	Dodecenedioate levels	GCST90200159	1	46927092	C	T	8217	0.13	0.02	0.00	0.01	49.35
rs28460841	Dodecenedioate levels	GCST90200159	1	241948609	A	G	8217	-0.11	0.02	0.00	0.00	21.75
rs11354507 2	Dodecenedioate levels	GCST90200159	2	1621292	A	G	8217	-0.29	0.06	0.00	0.00	20.73
rs1263613	Dodecenedioate levels	GCST90200159	2	207095936	C	T	8217	0.08	0.02	0.00	0.00	21.52
rs55958922	Dodecenedioate levels	GCST90200159	3	15735840	C	T	8217	0.20	0.04	0.00	0.00	23.49
rs11366561 9	Dodecenedioate levels	GCST90200159	4	7683776	C	A	8217	0.33	0.07	0.00	0.00	22.40
rs13839679 0	Dodecenedioate levels	GCST90200159	4	73903012	A	C	8217	0.33	0.07	0.00	0.00	20.13
rs4554032	Dodecenedioate levels	GCST90200159	4	88376289	G	A	8217	-0.07	0.02	0.00	0.00	22.99
rs17779334	Dodecenedioate levels	GCST90200159	5	100808145	T	C	8217	0.15	0.03	0.00	0.00	26.93
rs11953916	Dodecenedioate levels	GCST90200159	5	142472493	T	C	8217	0.16	0.04	0.00	0.00	20.18
rs200257	Dodecenedioate levels	GCST90200159	6	50442969	T	C	8217	-0.12	0.02	0.00	0.00	22.21
rs9459497	Dodecenedioate levels	GCST90200159	6	165725498	C	T	8217	0.08	0.02	0.00	0.00	24.30
rs34736275	Dodecenedioate levels	GCST90200159	7	80571027	A	G	8217	0.07	0.02	0.00	0.00	19.89
rs79775388	Dodecenedioate levels	GCST90200159	7	88876647	C	T	8217	-0.22	0.05	0.00	0.00	20.51
rs53218788 9	Dodecenedioate levels	GCST90200159	10	120661749	G	A	8217	-0.24	0.05	0.00	0.00	23.01
rs61911181	Dodecenedioate levels	GCST90200159	11	39974854	C	T	8217	0.14	0.03	0.00	0.00	24.04
rs11626972	Dodecenedioate levels	GCST90200159	14	73566890	G	A	8217	-0.19	0.02	0.00	0.02	158.40
rs14120630 6	Dodecenedioate levels	GCST90200159	16	2246876	T	C	8217	0.31	0.07	0.00	0.00	19.51
rs78755500	Dodecenedioate levels	GCST90200159	17	12617363	C	T	8217	0.15	0.03	0.00	0.00	21.81

rs14600475	Dodecenedioate (C12:1-DC) levels	GCST90200159	17	18940432	A	G	8217	0.17	0.04	0.00	0.00	21.04
rs11706887	Dodecenedioate (C12:1-DC) levels	GCST90200159	18	59816187	T	A	8217	0.42	0.09	0.00	0.00	23.79
rs507908	Trans-2-hexenoylglycine levels	GCST90200160	1	24386232	T	C	6545	0.08	0.02	0.00	0.00	20.54
rs2050931	Trans-2-hexenoylglycine levels	GCST90200160	1	203335551	T	C	6545	-0.17	0.04	0.00	0.00	21.17
rs78028500	Trans-2-hexenoylglycine levels	GCST90200160	2	75345738	G	T	6545	0.24	0.05	0.00	0.00	20.32
rs77860241	Trans-2-hexenoylglycine levels	GCST90200160	2	112871252	T	G	6545	0.16	0.03	0.00	0.00	21.78
rs1047891	Trans-2-hexenoylglycine levels	GCST90200160	2	210675783	A	C	6545	0.25	0.02	0.00	0.03	196.69
rs137973732	Trans-2-hexenoylglycine levels	GCST90200160	2	234773056	A	T	6545	-0.44	0.10	0.00	0.00	20.53
rs1502463	Trans-2-hexenoylglycine levels	GCST90200160	3	173689026	G	T	6545	0.12	0.03	0.00	0.00	22.22
rs146170086	Trans-2-hexenoylglycine levels	GCST90200160	3	191049461	T	C	6545	0.23	0.05	0.00	0.00	21.22
rs6858243	Trans-2-hexenoylglycine levels	GCST90200160	4	140097196	A	G	6545	0.08	0.02	0.00	0.00	20.23
rs4696616	Trans-2-hexenoylglycine levels	GCST90200160	4	154879887	A	T	6545	0.09	0.02	0.00	0.00	20.33
rs4624628	Trans-2-hexenoylglycine levels	GCST90200160	4	171878950	C	T	6545	0.16	0.04	0.00	0.00	20.40
rs4253242	Trans-2-hexenoylglycine levels	GCST90200160	4	186229906	T	C	6545	0.21	0.05	0.00	0.00	20.42
rs77119174	Trans-2-hexenoylglycine levels	GCST90200160	5	68232521	T	C	6545	0.32	0.07	0.00	0.00	21.19
rs114168731	Trans-2-hexenoylglycine levels	GCST90200160	5	100581409	C	G	6545	-0.18	0.04	0.00	0.00	21.01
rs144685910	Trans-2-hexenoylglycine levels	GCST90200160	5	171582683	G	C	6545	-0.33	0.07	0.00	0.00	21.42
rs7760028	Trans-2-hexenoylglycine levels	GCST90200160	6	153973938	G	A	6545	-0.10	0.02	0.00	0.00	20.17
rs74885559	Trans-2-hexenoylglycine levels	GCST90200160	7	25638146	A	G	6545	0.28	0.06	0.00	0.00	22.64
rs10974156	Trans-2-hexenoylglycine levels	GCST90200160	9	3921435	T	C	6545	-0.25	0.06	0.00	0.00	19.61
rs4642734	Trans-2-hexenoylglycine levels	GCST90200160	9	29590528	T	A	6545	0.09	0.02	0.00	0.00	21.62
rs11598339	Trans-2-hexenoylglycine levels	GCST90200160	10	3072042	G	A	6545	0.08	0.02	0.00	0.00	23.33
rs35354362	Trans-2-hexenoylglycine levels	GCST90200160	10	22509884	A	G	6545	0.08	0.02	0.00	0.00	19.82
rs596603	Trans-2-hexenoylglycine levels	GCST90200160	11	67592132	G	T	6545	-0.12	0.02	0.00	0.01	53.53

rs12830062	Trans-2- hexenoylglycin e levels	GCST90200160	12	80280484	A	G	6545	0.41	0.09	0.00	0.00	20.00
rs5012152	Trans-2- hexenoylglycin e levels	GCST90200160	12	129824095	A	G	6545	0.14	0.03	0.00	0.00	19.66
rs9554312	Trans-2- hexenoylglycin e levels	GCST90200160	13	28300125	G	A	6545	-0.16	0.04	0.00	0.00	20.23
rs8002379	Trans-2- hexenoylglycin e levels	GCST90200160	13	78398455	C	T	6545	-0.07	0.02	0.00	0.00	20.20
rs117932087	Trans-2- hexenoylglycin e levels	GCST90200160	14	96989720	G	A	6545	-0.20	0.04	0.00	0.00	20.50
rs72777960	Trans-2- hexenoylglycin e levels	GCST90200160	16	23878603	T	C	6545	0.41	0.09	0.00	0.00	19.96
rs117913008	Trans-2- hexenoylglycin e levels	GCST90200160	18	45134375	T	A	6545	0.30	0.06	0.00	0.00	27.87
rs75129628	Trans-2- hexenoylglycin e levels	GCST90200160	19	43275002	C	T	6545	0.37	0.08	0.00	0.00	21.30
rs75724755	2- hydroxyarachi date levels	GCST90200161	1	19828435	A	G	8170	-0.23	0.05	0.00	0.00	19.81
rs10204080	2- hydroxyarachi date levels	GCST90200161	2	49734952	T	C	8170	0.07	0.02	0.00	0.00	20.46
rs7570971	2- hydroxyarachi date levels	GCST90200161	2	135080336	A	C	8170	-0.08	0.02	0.00	0.00	25.39
rs58951102	2- hydroxyarachi date levels	GCST90200161	3	176680201	T	C	8170	-0.09	0.02	0.00	0.00	22.41
rs7635560	2- hydroxyarachi date levels	GCST90200161	3	183011505	C	A	8170	-0.15	0.03	0.00	0.00	21.38
rs74368616	2- hydroxyarachi date levels	GCST90200161	4	38365123	A	G	8170	-0.25	0.06	0.00	0.00	20.42
rs2367288	2- hydroxyarachi date levels	GCST90200161	4	73848381	A	G	8170	0.08	0.02	0.00	0.00	19.85
rs13126149	2- hydroxyarachi date levels	GCST90200161	4	189514090	G	A	8170	0.11	0.02	0.00	0.00	19.62
rs143841240	2- hydroxyarachi date levels	GCST90200161	5	6855119	G	A	8170	-0.17	0.04	0.00	0.00	23.11
rs111388296	2- hydroxyarachi date levels	GCST90200161	5	104786910	A	G	8170	-0.23	0.05	0.00	0.00	20.62
rs184382445	2- hydroxyarachi date levels	GCST90200161	5	117831307	T	C	8170	-0.37	0.08	0.00	0.00	20.54
rs2055428	2- hydroxyarachi date levels	GCST90200161	5	161125047	C	T	8170	0.17	0.04	0.00	0.00	20.37
rs150870340	2- hydroxyarachi date levels	GCST90200161	6	130114539	T	G	8170	0.35	0.08	0.00	0.00	19.74
rs7779972	2- hydroxyarachi date levels	GCST90200161	7	139062006	G	A	8170	0.08	0.02	0.00	0.00	19.78
rs28502343	2- hydroxyarachi date levels	GCST90200161	9	38743326	C	T	8170	-0.12	0.03	0.00	0.00	20.03
rs4459242	2- hydroxyarachi date levels	GCST90200161	10	58035319	T	C	8170	-0.08	0.02	0.00	0.00	20.06

rs11754746 4	2- hydroxyarachi date levels	GCST90200161	10	130407256	A	G	8170	-0.22	0.05	0.00	0.00	21.77
rs12797855	2- hydroxyarachi date levels	GCST90200161	11	27849996	T	C	8170	-0.15	0.03	0.00	0.00	20.12
rs11122787 2	2- hydroxyarachi date levels	GCST90200161	11	128420747	A	G	8170	0.29	0.07	0.00	0.00	19.57
rs72795669	2- hydroxyarachi date levels	GCST90200161	16	79077809	C	G	8170	-0.11	0.03	0.00	0.00	20.74
rs16947301	2- hydroxyarachi date levels	GCST90200161	17	13184119	C	T	8170	0.21	0.05	0.00	0.00	20.41
rs79938962	2- hydroxyarachi date levels	GCST90200161	18	1759188	A	G	8170	-0.23	0.05	0.00	0.00	25.02
rs11813119 3	2- hydroxyarachi date levels	GCST90200161	21	46341172	T	C	8170	1.66	0.35	0.00	0.00	22.36
rs10798793	3- hydroxypheny lactoylglutam ine levels	GCST90200162	1	180830520	G	C	5371	0.08	0.02	0.00	0.00	19.87
rs14552896 0	3- hydroxypheny lactoylglutam ine levels	GCST90200162	1	229112617	A	G	5371	0.18	0.04	0.00	0.00	19.55
rs11380444 2	3- hydroxypheny lactoylglutam ine levels	GCST90200162	3	60399554	T	C	5371	0.46	0.10	0.00	0.00	19.53
rs14700026 6	3- hydroxypheny lactoylglutam ine levels	GCST90200162	4	97918867	T	C	5371	0.23	0.05	0.00	0.00	19.69
rs18419214 7	3- hydroxypheny lactoylglutam ine levels	GCST90200162	4	119255776	G	A	5371	0.59	0.11	0.00	0.01	29.00
rs10250888	3- hydroxypheny lactoylglutam ine levels	GCST90200162	7	43612551	A	T	5371	0.26	0.06	0.00	0.00	20.57
rs35492365	3- hydroxypheny lactoylglutam ine levels	GCST90200162	7	56603170	A	G	5371	-0.27	0.06	0.00	0.00	20.76
rs13939715 9	3- hydroxypheny lactoylglutam ine levels	GCST90200162	8	58589908	A	G	5371	-0.51	0.11	0.00	0.00	22.60
rs14907665 4	3- hydroxypheny lactoylglutam ine levels	GCST90200162	8	102387474	A	G	5371	0.34	0.07	0.00	0.00	22.59
rs11795869 3	3- hydroxypheny lactoylglutam ine levels	GCST90200162	9	81765989	C	T	5371	-0.37	0.08	0.00	0.00	21.40
rs11229374 2	3- hydroxypheny lactoylglutam ine levels	GCST90200162	10	85227371	T	C	5371	0.14	0.03	0.00	0.00	20.21
rs7295104	3- hydroxypheny lactoylglutam ine levels	GCST90200162	12	5751445	T	C	5371	-0.13	0.03	0.00	0.00	20.46
rs4769620	3- hydroxypheny lactoylglutam ine levels	GCST90200162	13	28610813	C	T	5371	-0.11	0.02	0.00	0.00	20.80

rs76584751	3-hydroxyphenyl acetylglutamine levels	GCST90200162	14	76270398	G	A	5371	0.53	0.12	0.00	0.00	20.99
rs12908137	3-hydroxyphenyl acetylglutamine levels	GCST90200162	15	94328587	G	T	5371	-0.09	0.02	0.00	0.00	20.75
rs11869451	3-hydroxyphenyl acetylglutamine levels	GCST90200162	17	1668609	A	G	5371	-0.18	0.04	0.00	0.00	20.03
rs55848889	3-hydroxyphenyl acetylglutamine levels	GCST90200162	18	4768273	A	G	5371	0.11	0.02	0.00	0.00	19.57
rs4810550	3-hydroxyphenyl acetylglutamine levels	GCST90200162	20	46752098	T	C	5371	0.09	0.02	0.00	0.00	20.53
rs142370265	Heptenedioate (C7:1-DC) levels	GCST90200163	1	103485310	T	C	8128	-0.18	0.04	0.00	0.00	19.73
rs10798284	Heptenedioate (C7:1-DC) levels	GCST90200163	1	173532718	T	C	8128	0.09	0.02	0.00	0.00	21.83
rs112390194	Heptenedioate (C7:1-DC) levels	GCST90200163	2	14512557	G	A	8128	0.18	0.04	0.00	0.00	21.94
rs112559960	Heptenedioate (C7:1-DC) levels	GCST90200163	2	42221936	G	A	8128	-0.21	0.05	0.00	0.00	20.52
rs1979528	Heptenedioate (C7:1-DC) levels	GCST90200163	3	128898947	G	T	8128	-0.23	0.05	0.00	0.00	21.31
rs11933956	Heptenedioate (C7:1-DC) levels	GCST90200163	4	173553446	T	C	8128	-0.08	0.02	0.00	0.00	19.86
rs142210908	Heptenedioate (C7:1-DC) levels	GCST90200163	4	177541617	T	G	8128	0.23	0.05	0.00	0.00	21.10
rs73869702	Heptenedioate (C7:1-DC) levels	GCST90200163	4	182160661	C	G	8128	-0.10	0.02	0.00	0.00	20.81
rs11242437	Heptenedioate (C7:1-DC) levels	GCST90200163	5	138658930	A	C	8128	0.09	0.02	0.00	0.00	21.65
rs141974639	Heptenedioate (C7:1-DC) levels	GCST90200163	5	155373496	A	G	8128	0.18	0.04	0.00	0.00	20.40
rs17504230	Heptenedioate (C7:1-DC) levels	GCST90200163	6	158492220	G	A	8128	-0.11	0.02	0.00	0.00	22.18
rs73232559	Heptenedioate (C7:1-DC) levels	GCST90200163	7	96078676	T	C	8128	-0.10	0.02	0.00	0.00	20.47
rs144251288	Heptenedioate (C7:1-DC) levels	GCST90200163	11	8259194	T	C	8128	-0.30	0.07	0.00	0.00	20.34
rs45625132	Heptenedioate (C7:1-DC) levels	GCST90200163	11	115377397	C	T	8128	-0.27	0.06	0.00	0.00	20.88
rs112216464	Heptenedioate (C7:1-DC) levels	GCST90200163	12	61653366	A	G	8128	-0.33	0.07	0.00	0.00	20.61
rs113484345	Heptenedioate (C7:1-DC) levels	GCST90200163	18	41814507	C	G	8128	-0.23	0.05	0.00	0.00	21.35
rs28451040	Hexadecenedioate (C16:1-DC) levels	GCST90200164	1	46934295	A	G	8248	-0.09	0.02	0.00	0.00	25.17
rs74122805	Hexadecenedioate (C16:1-DC) levels	GCST90200164	1	159248249	G	T	8248	0.25	0.05	0.00	0.00	19.97

rs2039538	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	1	178945926	G	A	8248	0.08	0.02	0.00	0.00	20.20
rs12143851	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	1	210328840	T	G	8248	0.10	0.02	0.00	0.00	21.36
rs77008678	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	1	233411262	T	G	8248	-0.10	0.02	0.00	0.00	22.06
rs2288101	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	2	30912318	T	G	8248	0.08	0.02	0.00	0.00	19.51
rs114938779	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	2	206899855	A	G	8248	0.21	0.05	0.00	0.00	21.82
rs9869552	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	3	6060966	A	T	8248	-0.41	0.08	0.00	0.00	27.08
rs35746477	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	3	143090720	G	C	8248	-0.08	0.02	0.00	0.00	21.56
rs13141870	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	4	124808537	A	G	8248	0.16	0.03	0.00	0.00	22.41
rs149454134	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	4	164941620	T	C	8248	0.20	0.04	0.00	0.00	19.61
rs10070196	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	5	13939721	C	A	8248	0.08	0.02	0.00	0.00	22.20
rs55771465	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	5	173213460	C	G	8248	0.12	0.02	0.00	0.00	24.13
rs79869988	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	6	163334359	T	G	8248	-0.27	0.06	0.00	0.00	20.67
rs28455942	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	6	165720202	A	G	8248	0.07	0.02	0.00	0.00	19.53
rs17137711	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	7	104448189	C	T	8248	0.07	0.02	0.00	0.00	20.53
rs4128297	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	8	11966092	A	T	8248	0.09	0.02	0.00	0.00	20.10
rs76348818	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	8	40199348	A	G	8248	-0.10	0.02	0.00	0.00	21.07
rs118046378	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	9	562504	A	G	8248	0.25	0.05	0.00	0.00	22.37
rs74994041	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	10	9246133	G	C	8248	-0.17	0.04	0.00	0.00	21.91
rs4762697	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	12	21162039	T	A	8248	0.26	0.02	0.00	0.03	242.47
rs4149056	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	12	21178615	C	T	8248	0.64	0.02	0.00	0.11	#####
rs78295748	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	12	21634298	T	C	8248	-0.27	0.06	0.00	0.00	20.63
rs79007128	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	13	30030369	C	T	8248	0.29	0.06	0.00	0.00	21.89
rs17548667	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	13	106681074	T	C	8248	-0.15	0.03	0.00	0.00	28.39
rs58231493	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	14	73565418	T	C	8248	-0.07	0.02	0.00	0.00	21.28

rs8041483	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	15	50173024	G	A	8248	0.08	0.02	0.00	0.00	23.06
rs4786851	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	16	6305299	C	A	8248	-0.08	0.02	0.00	0.00	23.99
rs4558437	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	16	11364404	T	G	8248	0.08	0.02	0.00	0.00	19.98
rs79400241	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	19	15873592	G	C	8248	-0.08	0.02	0.00	0.00	25.25
rs79028957	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	19	57008135	C	A	8248	0.20	0.04	0.00	0.00	20.08
rs2425637	Hexadecenedi oate (C16:1- DC) levels	GCST90200164	20	44395409	T	G	8248	-0.07	0.02	0.00	0.00	20.43
rs79666851	Octadecenedio ate (C18:1- DC) levels	GCST90200165	1	158880977	A	T	8267	0.31	0.06	0.00	0.00	22.73
rs12617756	Octadecenedio ate (C18:1- DC) levels	GCST90200165	2	30891317	C	A	8267	0.07	0.02	0.00	0.00	20.67
rs11690688	Octadecenedio ate (C18:1- DC) levels	GCST90200165	2	231958128	A	G	8267	0.13	0.03	0.00	0.00	26.86
rs432685	Octadecenedio ate (C18:1- DC) levels	GCST90200165	3	256488	T	C	8267	0.07	0.02	0.00	0.00	20.37
rs73165446	Octadecenedio ate (C18:1- DC) levels	GCST90200165	3	153286530	G	A	8267	0.15	0.03	0.00	0.00	24.00
rs13945240 7	Octadecenedio ate (C18:1- DC) levels	GCST90200165	4	13020728	C	T	8267	-0.23	0.05	0.00	0.00	19.62
rs14178160 5	Octadecenedio ate (C18:1- DC) levels	GCST90200165	6	22894779	A	T	8267	-0.32	0.07	0.00	0.00	22.00
rs60319887	Octadecenedio ate (C18:1- DC) levels	GCST90200165	6	70107304	A	C	8267	-0.10	0.02	0.00	0.00	23.16
rs79239612	Octadecenedio ate (C18:1- DC) levels	GCST90200165	6	156793706	A	G	8267	-0.13	0.03	0.00	0.00	21.01
rs35461919	Octadecenedio ate (C18:1- DC) levels	GCST90200165	8	5948246	T	G	8267	-0.16	0.03	0.00	0.00	21.60
rs14774566 4	Octadecenedio ate (C18:1- DC) levels	GCST90200165	8	59698863	T	C	8267	0.25	0.06	0.00	0.00	20.21
rs80085661	Octadecenedio ate (C18:1- DC) levels	GCST90200165	9	69017960	A	G	8267	0.17	0.04	0.00	0.00	21.46
rs11758827 1	Octadecenedio ate (C18:1- DC) levels	GCST90200165	11	34317693	T	C	8267	0.17	0.04	0.00	0.00	22.96
rs4762697	Octadecenedio ate (C18:1- DC) levels	GCST90200165	12	21162039	T	A	8267	0.20	0.02	0.00	0.02	143.61
rs4149056	Octadecenedio ate (C18:1- DC) levels	GCST90200165	12	21178615	C	T	8267	0.48	0.02	0.00	0.06	573.36
rs67521432	Octadecenedio ate (C18:1- DC) levels	GCST90200165	12	113331295	G	T	8267	0.11	0.02	0.00	0.00	20.24
rs7151628	Octadecenedio ate (C18:1- DC) levels	GCST90200165	14	64537029	T	A	8267	0.08	0.02	0.00	0.00	21.77
rs2803945	Octadecenedio ate (C18:1- DC) levels	GCST90200165	14	72590494	A	G	8267	0.09	0.02	0.00	0.00	22.35

rs112152354	Octadecenedio ate (C18:1- DC) levels	GCST90200165	17	80396348	A	G	8267	-0.16	0.04	0.00	0.00	19.57
rs4797835	Octadecenedio ate (C18:1- DC) levels	GCST90200165	18	13928180	C	T	8267	0.07	0.02	0.00	0.00	20.23
rs147509526	Octadecenedio ate (C18:1- DC) levels	GCST90200165	19	15665520	T	C	8267	0.35	0.07	0.00	0.00	28.87
rs62107766	Octadecenedio ate (C18:1- DC) levels	GCST90200165	19	15872675	A	T	8267	-0.16	0.02	0.00	0.01	99.95
rs130766	Octadecenedio ate (C18:1- DC) levels	GCST90200165	22	48379903	A	G	8267	0.32	0.07	0.00	0.00	20.51
rs191236722	Dihydroferulic acid sulfate levels	GCST90200166	1	23494135	T	C	5188	-0.35	0.07	0.00	0.01	27.42
rs11586678	Dihydroferulic acid sulfate levels	GCST90200166	1	48650218	T	C	5188	0.25	0.05	0.00	0.00	23.89
rs74404158	Dihydroferulic acid sulfate levels	GCST90200166	1	180938933	T	C	5188	0.30	0.06	0.00	0.01	28.02
rs181285351	Dihydroferulic acid sulfate levels	GCST90200166	1	214136188	C	T	5188	-0.71	0.14	0.00	0.00	23.88
rs79830703	Dihydroferulic acid sulfate levels	GCST90200166	1	230652569	A	G	5188	0.29	0.06	0.00	0.00	22.92
rs140852147	Dihydroferulic acid sulfate levels	GCST90200166	2	39224846	C	T	5188	0.47	0.10	0.00	0.00	20.47
rs62183069	Dihydroferulic acid sulfate levels	GCST90200166	2	180537379	T	A	5188	0.28	0.06	0.00	0.00	20.66
rs56095266	Dihydroferulic acid sulfate levels	GCST90200166	3	123714177	C	T	5188	0.17	0.04	0.00	0.00	19.57
rs58086316	Dihydroferulic acid sulfate levels	GCST90200166	5	139868516	G	A	5188	0.12	0.03	0.00	0.00	22.41
rs72819999	Dihydroferulic acid sulfate levels	GCST90200166	6	5722629	T	A	5188	0.14	0.03	0.00	0.00	21.84
rs2806719	Dihydroferulic acid sulfate levels	GCST90200166	6	116498461	C	T	5188	-0.10	0.02	0.00	0.00	21.51
rs139353153	Dihydroferulic acid sulfate levels	GCST90200166	7	71382741	A	G	5188	0.50	0.11	0.00	0.00	19.72
rs145537306	Dihydroferulic acid sulfate levels	GCST90200166	7	111941766	C	T	5188	1.01	0.20	0.00	0.00	24.66
rs73201277	Dihydroferulic acid sulfate levels	GCST90200166	8	14849925	A	C	5188	0.41	0.08	0.00	0.01	26.76
rs6994103	Dihydroferulic acid sulfate levels	GCST90200166	8	90178596	C	T	5188	0.09	0.02	0.00	0.00	19.52
rs143796249	Dihydroferulic acid sulfate levels	GCST90200166	9	4150061	C	G	5188	0.52	0.11	0.00	0.00	21.15
rs74844988	Dihydroferulic acid sulfate levels	GCST90200166	9	76273185	T	C	5188	0.26	0.05	0.00	0.00	24.74
rs17054004	Dihydroferulic acid sulfate levels	GCST90200166	9	88236967	A	G	5188	0.16	0.03	0.00	0.00	24.94
rs12262912	Dihydroferulic acid sulfate levels	GCST90200166	10	24061648	C	A	5188	-0.12	0.03	0.00	0.00	19.72

rs14060959	Dihydroferulic acid sulfate levels	GCST90200166	10	36437117	A	G	5188	1.23	0.23	0.00	0.01	28.70
rs7076968	Dihydroferulic acid sulfate levels	GCST90200166	10	79476059	T	C	5188	0.33	0.07	0.00	0.00	21.65
rs7928718	Dihydroferulic acid sulfate levels	GCST90200166	11	14156444	G	T	5188	-0.15	0.03	0.00	0.00	21.26
rs35813597	Dihydroferulic acid sulfate levels	GCST90200166	11	44983492	A	G	5188	0.19	0.04	0.00	0.00	23.08
rs61929187	Dihydroferulic acid sulfate levels	GCST90200166	12	53081590	G	C	5188	0.26	0.06	0.00	0.00	21.59
rs10879512	Dihydroferulic acid sulfate levels	GCST90200166	12	72858375	T	C	5188	-0.10	0.02	0.00	0.00	20.49
rs79875445	Dihydroferulic acid sulfate levels	GCST90200166	12	101633153	G	T	5188	0.36	0.07	0.00	0.00	22.81
rs117257636	Dihydroferulic acid sulfate levels	GCST90200166	12	115115564	T	C	5188	-0.26	0.06	0.00	0.00	19.86
rs28396192	Dihydroferulic acid sulfate levels	GCST90200166	15	92345612	G	T	5188	0.09	0.02	0.00	0.00	20.12
rs3803988	Dihydroferulic acid sulfate levels	GCST90200166	20	44749868	T	G	5188	0.13	0.03	0.00	0.00	21.46
rs150404394	Glutamine conjugate of C7H12O2 levels	GCST90200167	1	75701297	G	C	7881	0.11	0.02	0.00	0.01	51.20
rs1214071	Glutamine conjugate of C7H12O2 levels	GCST90200167	2	123910798	A	G	7881	-0.07	0.02	0.00	0.00	22.01
rs10207924	Glutamine conjugate of C7H12O2 levels	GCST90200167	2	215257210	G	A	7881	-0.07	0.02	0.00	0.00	21.93
rs9310212	Glutamine conjugate of C7H12O2 levels	GCST90200167	3	71238377	G	A	7881	-0.13	0.03	0.00	0.00	19.51
rs185853925	Glutamine conjugate of C7H12O2 levels	GCST90200167	4	156651330	T	C	7881	0.29	0.07	0.00	0.00	19.91
rs114922228	Glutamine conjugate of C7H12O2 levels	GCST90200167	5	33567226	A	G	7881	0.16	0.04	0.00	0.00	19.82
rs17812505	Glutamine conjugate of C7H12O2 levels	GCST90200167	5	65158955	A	T	7881	-0.25	0.05	0.00	0.00	23.74
rs181629526	Glutamine conjugate of C7H12O2 levels	GCST90200167	5	82015329	G	A	7881	0.27	0.06	0.00	0.00	19.88
rs7734589	Glutamine conjugate of C7H12O2 levels	GCST90200167	5	173226943	T	C	7881	0.11	0.02	0.00	0.00	22.12
rs6900629	Glutamine conjugate of C7H12O2 levels	GCST90200167	6	39428308	C	T	7881	-0.23	0.05	0.00	0.00	23.28
rs4871304	Glutamine conjugate of C7H12O2 levels	GCST90200167	8	122789018	C	T	7881	-0.07	0.02	0.00	0.00	21.15

rs4742235	Glutamine conjugate of C7H12O2 levels	GCST90200167	9	6651494	A	G	7881	-0.09	0.02	0.00	0.00	19.86
rs55674412	Glutamine conjugate of C7H12O2 levels	GCST90200167	9	130531579	T	A	7881	-0.14	0.03	0.00	0.00	20.16
rs7922582	Glutamine conjugate of C7H12O2 levels	GCST90200167	10	14007575	G	A	7881	-0.09	0.02	0.00	0.00	24.63
rs14016549 0	Glutamine conjugate of C7H12O2 levels	GCST90200167	11	5163198	G	A	7881	-0.22	0.05	0.00	0.00	20.67
rs78045544	Glutamine conjugate of C7H12O2 levels	GCST90200167	11	34211243	A	G	7881	0.15	0.03	0.00	0.00	20.05
rs4935863	Glutamine conjugate of C7H12O2 levels	GCST90200167	11	124133089	C	T	7881	-0.07	0.02	0.00	0.00	21.23
rs73165491	Glutamine conjugate of C7H12O2 levels	GCST90200167	13	20698549	A	C	7881	-0.12	0.03	0.00	0.00	19.91
rs76224155	Glutamine conjugate of C7H12O2 levels	GCST90200167	13	56604922	A	T	7881	0.18	0.03	0.00	0.00	26.59
rs1875884	Glutamine conjugate of C7H12O2 levels	GCST90200167	15	76345820	T	C	7881	0.07	0.02	0.00	0.00	19.96
rs1604118	Glutamine conjugate of C7H12O2 levels	GCST90200167	16	59630051	A	C	7881	-0.23	0.05	0.00	0.00	22.46
rs9928522	Glutamine conjugate of C7H12O2 levels	GCST90200167	16	79477002	T	C	7881	0.13	0.03	0.00	0.00	23.62
rs35638164	Glutamine conjugate of C7H12O2 levels	GCST90200167	17	7066299	A	G	7881	-0.27	0.06	0.00	0.00	19.69
rs758434	Glutamine conjugate of C7H12O2 levels	GCST90200167	17	11276623	A	C	7881	0.21	0.05	0.00	0.00	19.58
rs74925517	Glutamine conjugate of C7H12O2 levels	GCST90200167	18	9061078	G	A	7881	-0.18	0.04	0.00	0.00	20.20
rs11753184 9	Glutamine conjugate of C7H12O2 levels	GCST90200167	18	77828176	C	A	7881	0.30	0.06	0.00	0.00	21.96
rs19157096 0	Glutamine conjugate of C7H12O2 levels	GCST90200167	19	4558546	A	C	7881	-0.28	0.06	0.00	0.00	20.31
rs4805942	Glutamine conjugate of C7H12O2 levels	GCST90200167	19	33887228	G	C	7881	0.11	0.02	0.00	0.00	20.71
rs10414334	Glutamine conjugate of C7H12O2 levels	GCST90200167	19	50865491	A	C	7881	-0.20	0.04	0.00	0.00	22.92

rs59166675	Glutamine conjugate of C7H12O2 levels	GCST90200167	19	51405223	A	G	7881	-0.08	0.02	0.00	0.00	22.13
rs6007547	Glutamine conjugate of C7H12O2 levels	GCST90200167	22	45261632	A	G	7881	0.21	0.05	0.00	0.00	20.82
rs11657852 8	Hydroxyaspar agine levels	GCST90200168	1	42665810	A	C	8206	-0.26	0.06	0.00	0.00	20.40
rs75063835	Hydroxyaspar agine levels	GCST90200168	1	116669956	A	G	8206	-0.17	0.04	0.00	0.00	19.87
rs14597907 4	Hydroxyaspar agine levels	GCST90200168	1	212147459	T	C	8206	0.34	0.07	0.00	0.00	22.98
rs17030870	Hydroxyaspar agine levels	GCST90200168	2	43470750	A	G	8206	-0.24	0.05	0.00	0.00	20.88
rs2059409	Hydroxyaspar agine levels	GCST90200168	2	217855319	T	C	8206	0.14	0.03	0.00	0.00	23.02
rs7654754	Hydroxyaspar agine levels	GCST90200168	4	76488642	A	G	8206	0.07	0.01	0.00	0.00	25.31
rs11455839 9	Hydroxyaspar agine levels	GCST90200168	4	91708311	A	G	8206	-0.27	0.05	0.00	0.00	26.97
rs19036740 3	Hydroxyaspar agine levels	GCST90200168	4	162181355	A	G	8206	0.16	0.03	0.00	0.00	20.54
rs7757300	Hydroxyaspar agine levels	GCST90200168	6	9543911	A	C	8206	-0.07	0.01	0.00	0.00	23.63
rs12665436	Hydroxyaspar agine levels	GCST90200168	6	121031028	T	C	8206	0.09	0.02	0.00	0.00	20.53
rs1304116	Hydroxyaspar agine levels	GCST90200168	8	5096256	C	T	8206	-0.07	0.02	0.00	0.00	19.86
rs14635432 6	Hydroxyaspar agine levels	GCST90200168	8	48210903	C	T	8206	0.10	0.02	0.00	0.00	22.56
rs60918373	Hydroxyaspar agine levels	GCST90200168	10	17004642	A	T	8206	0.08	0.02	0.00	0.00	21.72
rs61873708	Hydroxyaspar agine levels	GCST90200168	10	98073444	C	T	8206	0.23	0.05	0.00	0.00	19.71
rs9323181	Hydroxyaspar agine levels	GCST90200168	14	50051938	A	G	8206	0.07	0.01	0.00	0.00	22.05
rs1077697	Hydroxyaspar agine levels	GCST90200168	14	90676435	T	C	8206	0.08	0.01	0.00	0.00	28.85
rs7495057	Hydroxyaspar agine levels	GCST90200168	15	49942966	T	C	8206	-0.09	0.02	0.00	0.00	19.78
rs77924615	Hydroxyaspar agine levels	GCST90200168	16	20381010	A	G	8206	-0.09	0.02	0.00	0.00	28.22
rs55116797 9	Hydroxyaspar agine levels	GCST90200168	16	62619298	G	A	8206	0.25	0.05	0.00	0.00	20.47
rs56311231	Hydroxyaspar agine levels	GCST90200168	16	73024524	A	G	8206	-0.08	0.02	0.00	0.00	22.77
rs1474521	Hydroxyaspar agine levels	GCST90200168	21	21097414	T	C	8206	0.16	0.03	0.00	0.00	21.21
rs13982746 0	(d17:1/14:0, d16:1/15:0) levels	GCST90200169	1	22201581	T	C	8267	0.23	0.05	0.00	0.00	20.96
rs71632331	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	1	167884720	T	C	8267	0.09	0.02	0.00	0.00	23.34
rs6705772	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	2	33204981	C	A	8267	-0.07	0.01	0.00	0.00	22.30
rs14719949 2	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	2	85732053	T	C	8267	-0.12	0.03	0.00	0.00	20.36
rs62174648	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	2	172968150	G	A	8267	-0.24	0.05	0.00	0.00	20.24
rs14340552 3	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	3	21248606	T	C	8267	0.29	0.06	0.00	0.00	21.23

rs7661627	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	4	39282939	G	C	8267	-0.07	0.01	0.00	0.00	19.69
rs1229984	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	4	99318162	C	T	8267	-0.19	0.04	0.00	0.00	21.89
rs14928486 8	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	5	12759134	G	A	8267	0.29	0.06	0.00	0.00	20.69
rs62389801	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	5	175038252	T	C	8267	-0.18	0.04	0.00	0.00	19.96
rs58783426	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	6	8276191	C	G	8267	-0.09	0.02	0.00	0.00	24.17
rs11692692 2	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	6	159958678	T	G	8267	0.19	0.04	0.00	0.00	22.84
rs11726867 3	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	7	28833858	T	C	8267	0.18	0.04	0.00	0.00	19.71
rs56223345 9	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	7	116414790	T	C	8267	-0.25	0.05	0.00	0.00	24.36
rs194151	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	7	139858148	T	C	8267	0.06	0.01	0.00	0.00	19.75
rs16934446	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	9	16325342	T	C	8267	0.20	0.04	0.00	0.00	22.55
rs14512387 7	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	9	93077761	T	C	8267	-0.26	0.06	0.00	0.00	19.53
rs2437818	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	9	104913141	C	G	8267	0.15	0.03	0.00	0.00	20.91
rs13820878 5	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	9	131171682	G	T	8267	-0.10	0.02	0.00	0.00	21.43
rs529026	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	9	132356890	C	T	8267	-0.09	0.02	0.00	0.00	21.45
rs11493274 0	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	12	124543565	A	G	8267	-0.15	0.03	0.00	0.00	23.80
rs77779118	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	14	39563447	C	T	8267	0.39	0.08	0.00	0.00	23.84
rs7160525	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	14	63765502	A	G	8267	0.20	0.02	0.00	0.01	117.82
rs7199490	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	16	74682128	A	G	8267	0.07	0.01	0.00	0.00	21.10

rs6563994	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	16	84045615	T	G	8267	-0.13	0.03	0.00	0.00	22.19
rs1321940	Sphingomyelin (d17:1/14:0, d16:1/15:0) levels	GCST90200169	20	12979237	G	A	8267	-0.08	0.01	0.00	0.00	31.73
rs10864271	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	1	7075208	G	A	8231	0.07	0.02	0.00	0.00	20.95
rs11811808	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	1	76676557	C	T	8231	-0.18	0.04	0.00	0.00	19.57
rs11240109	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	1	147038298	G	T	8231	0.07	0.02	0.00	0.00	19.88
rs10196818	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	2	37349709	G	A	8231	-0.07	0.02	0.00	0.00	20.58
rs2371482	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	2	212393694	A	G	8231	-0.08	0.02	0.00	0.00	24.06
rs11690688	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	2	231958128	A	G	8231	0.12	0.03	0.00	0.00	21.75
rs11478226 1	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	3	25861548	C	G	8231	0.27	0.06	0.00	0.00	19.94
rs740836	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	3	43753068	G	A	8231	-0.10	0.02	0.00	0.00	19.91
rs13071278	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	3	81970952	G	T	8231	-0.07	0.02	0.00	0.00	20.21
rs28710927	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	3	135031419	A	C	8231	-0.12	0.03	0.00	0.00	22.47
rs4437118	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	3	153474131	G	A	8231	-0.07	0.02	0.00	0.00	21.86
rs62284719	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	3	174665426	A	G	8231	-0.35	0.08	0.00	0.00	19.51
rs73804751	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	4	28789137	A	G	8231	-0.09	0.02	0.00	0.00	21.05
rs13114109	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	4	120600988	C	T	8231	-0.10	0.02	0.00	0.00	19.67
rs11455939 0	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	4	165940305	C	A	8231	-0.45	0.10	0.00	0.00	19.73
rs923895	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	5	2859239	A	G	8231	-0.12	0.03	0.00	0.00	19.75
rs78231576	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	6	82025442	T	C	8231	-0.26	0.06	0.00	0.00	20.78
rs1726599	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	7	18608803	T	G	8231	0.11	0.02	0.00	0.00	20.53
rs73116809	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	7	50662494	C	G	8231	0.07	0.02	0.00	0.00	20.69
rs12539900	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	7	156253239	A	G	8231	0.08	0.02	0.00	0.00	21.59
rs80085661	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	9	69017960	A	G	8231	0.17	0.04	0.00	0.00	20.05
rs13793518 4	Octadecadiene dioate (C18:2- DC) levels	GCST90200170	9	96363053	A	G	8231	-0.27	0.06	0.00	0.00	19.87

rs116427628	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	9	135973011	T	C	8231	-0.30	0.07	0.00	0.00	19.85
rs143354606	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	10	12299257	T	C	8231	1.70	0.37	0.00	0.00	21.07
rs76407070	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	10	121210070	G	A	8231	0.19	0.04	0.00	0.00	23.22
rs2186580	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	11	101654142	A	C	8231	0.13	0.03	0.00	0.00	26.80
rs4762697	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	12	21162039	T	A	8231	0.24	0.02	0.00	0.02	195.04
rs4149056	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	12	21178615	C	T	8231	0.56	0.02	0.00	0.09	774.95
rs41317915	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	12	47987262	T	C	8231	0.26	0.06	0.00	0.00	21.36
rs149130507	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	12	112456191	G	T	8231	0.42	0.09	0.00	0.00	20.40
rs147015789	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	17	3803993	T	C	8231	-0.23	0.05	0.00	0.00	21.53
rs3760775	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	19	5841345	T	G	8231	0.16	0.03	0.00	0.00	25.46
rs147509526	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	19	15665520	T	C	8231	0.39	0.07	0.00	0.00	34.85
rs2108622	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	19	15879621	T	C	8231	-0.17	0.02	0.00	0.01	104.94
rs6034564	Octadecadiene dioate (C18:2-DC) levels	GCST90200170	20	16664517	A	G	8231	-0.07	0.02	0.00	0.00	19.64
rs17124071	Perfluoroocta noate (PFOA) levels	GCST90200171	1	62937349	G	A	8199	-0.07	0.02	0.00	0.00	20.39
rs34427182	Perfluoroocta noate (PFOA) levels	GCST90200171	1	76569409	T	A	8199	0.14	0.03	0.00	0.00	22.57
rs3795737	Perfluoroocta noate (PFOA) levels	GCST90200171	1	156727264	C	T	8199	-0.16	0.03	0.00	0.00	23.81
rs114686372	Perfluoroocta noate (PFOA) levels	GCST90200171	2	212506784	C	T	8199	0.25	0.05	0.00	0.00	26.19
rs9809948	Perfluoroocta noate (PFOA) levels	GCST90200171	3	38459156	G	C	8199	0.14	0.03	0.00	0.00	20.06
rs931382	Perfluoroocta noate (PFOA) levels	GCST90200171	3	157680698	G	A	8199	0.07	0.02	0.00	0.00	20.27
rs7668556	Perfluoroocta noate (PFOA) levels	GCST90200171	4	69164555	G	A	8199	-0.07	0.02	0.00	0.00	19.56
rs45499402	Perfluoroocta noate (PFOA) levels	GCST90200171	4	88122482	C	G	8199	0.13	0.02	0.00	0.00	28.19
rs3822433	Perfluoroocta noate (PFOA) levels	GCST90200171	5	6600751	C	T	8199	0.07	0.02	0.00	0.00	19.80
rs2306053	Perfluoroocta noate (PFOA) levels	GCST90200171	5	7784583	G	A	8199	-0.10	0.02	0.00	0.00	19.60
rs9501929	Perfluoroocta noate (PFOA) levels	GCST90200171	6	3157620	C	T	8199	-0.18	0.04	0.00	0.00	24.46

rs396050	Perfluoroocta noate (PFOA) levels	GCST90200171	6	25479571	C	T	8199	-0.08	0.02	0.00	0.00	22.03
rs75640656	Perfluoroocta noate (PFOA) levels	GCST90200171	7	31153356	G	A	8199	-0.21	0.05	0.00	0.00	20.93
rs7788282	Perfluoroocta noate (PFOA) levels	GCST90200171	7	78051952	C	G	8199	0.12	0.03	0.00	0.00	20.84
rs11691405 8	Perfluoroocta noate (PFOA) levels	GCST90200171	8	18388948	C	G	8199	0.17	0.04	0.00	0.00	19.89
rs74811952	Perfluoroocta noate (PFOA) levels	GCST90200171	8	50555771	C	T	8199	-0.22	0.05	0.00	0.00	19.88
rs62541425	Perfluoroocta noate (PFOA) levels	GCST90200171	9	38569030	A	G	8199	0.16	0.03	0.00	0.00	21.52
rs9420708	Perfluoroocta noate (PFOA) levels	GCST90200171	10	97158385	C	G	8199	0.07	0.02	0.00	0.00	21.72
rs18203601 4	Perfluoroocta noate (PFOA) levels	GCST90200171	11	64454510	T	C	8199	-0.35	0.07	0.00	0.00	24.65
rs2369463	Perfluoroocta noate (PFOA) levels	GCST90200171	12	77038743	C	T	8199	-0.09	0.02	0.00	0.00	20.76
rs71439517	Perfluoroocta noate (PFOA) levels	GCST90200171	13	54144287	C	T	8199	-0.39	0.09	0.00	0.00	20.43
rs6572264	Perfluoroocta noate (PFOA) levels	GCST90200171	14	44547401	C	A	8199	-0.07	0.02	0.00	0.00	20.12
rs7219584	Perfluoroocta noate (PFOA) levels	GCST90200171	17	77645834	C	T	8199	0.16	0.03	0.00	0.00	26.16
rs11357994 2	Perfluoroocta noate (PFOA) levels	GCST90200171	22	44650691	A	G	8199	0.20	0.04	0.00	0.00	22.66
rs14226179 3	3-carboxy-4- methyl-5- pentyl-2- furanpropiona te (3-CMPFP) levels	GCST90200172	2	38623160	A	G	8234	0.21	0.05	0.00	0.00	19.87
rs11360333 2	3-carboxy-4- methyl-5- pentyl-2- furanpropiona te (3-CMPFP) levels	GCST90200172	2	60320926	C	A	8234	0.33	0.07	0.00	0.00	20.08
rs10496176	3-carboxy-4- methyl-5- pentyl-2- furanpropiona te (3-CMPFP) levels	GCST90200172	2	69946497	C	T	8234	0.10	0.02	0.00	0.00	20.13
rs14875081 5	3-carboxy-4- methyl-5- pentyl-2- furanpropiona te (3-CMPFP) levels	GCST90200172	2	213721391	A	G	8234	-0.43	0.08	0.00	0.00	27.44
rs72551330	3-carboxy-4- methyl-5- pentyl-2- furanpropiona te (3-CMPFP) levels	GCST90200172	2	233672032	C	T	8234	0.62	0.06	0.00	0.01	95.60

rs77758940	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levole	GCST90200172	3	142168469	G	A	8234	-0.20	0.05	0.00	0.00	20.19
rs62278565	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levole	GCST90200172	3	190142908	A	G	8234	0.22	0.05	0.00	0.00	19.82
rs62366353	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levole	GCST90200172	5	74591103	A	C	8234	-0.24	0.05	0.00	0.00	26.23
rs56075878	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levole	GCST90200172	5	80991395	G	A	8234	0.07	0.02	0.00	0.00	21.73
rs1179381	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levole	GCST90200172	6	39260886	A	G	8234	-0.07	0.02	0.00	0.00	20.63
rs117693676	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levole	GCST90200172	7	52815813	A	G	8234	-0.23	0.05	0.00	0.00	22.37
rs55671363	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levole	GCST90200172	7	76164087	C	T	8234	-0.11	0.02	0.00	0.00	34.87
rs117893056	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levole	GCST90200172	8	84374539	T	C	8234	0.09	0.02	0.00	0.00	20.12
rs10818896	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levole	GCST90200172	9	98411906	C	T	8234	-0.12	0.03	0.00	0.00	22.21
rs72760820	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levole	GCST90200172	9	135118203	A	G	8234	-0.08	0.02	0.00	0.00	21.63
rs75659579	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levole	GCST90200172	10	65736827	T	C	8234	0.24	0.05	0.00	0.00	21.45
rs1341164	levole	GCST90200172	10	95041116	C	T	8234	0.20	0.02	0.00	0.02	142.72

rs113513789	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levels	GCST90200172	10	99849162	A	G	8234	0.20	0.03	0.00	0.00	38.81
rs12280571	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levels	GCST90200172	11	25759482	A	C	8234	-0.10	0.02	0.00	0.00	20.53
rs61967766	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levels	GCST90200172	13	80512037	G	A	8234	-0.22	0.04	0.00	0.00	27.10
rs3783738	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levels	GCST90200172	14	63504036	T	A	8234	-0.12	0.03	0.00	0.00	20.51
rs4383083	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levels	GCST90200172	15	62788243	A	G	8234	-0.08	0.02	0.00	0.00	21.46
rs117524497	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levels	GCST90200172	16	6329917	A	G	8234	-0.28	0.06	0.00	0.00	19.91
rs4889183	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levels	GCST90200172	16	80642023	C	T	8234	-0.11	0.02	0.00	0.00	21.06
rs151108194	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levels	GCST90200172	17	51186543	A	G	8234	-0.28	0.06	0.00	0.00	21.80
rs6069979	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levels	GCST90200172	20	57086493	A	G	8234	-0.07	0.02	0.00	0.00	22.57
rs11907696	3-carboxy-4-methyl-5-pentyl-2-furanpropionate (3-CMPFP) levels	GCST90200172	20	64272376	T	C	8234	-0.09	0.02	0.00	0.00	20.34
rs148681765	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	1	18281920	T	G	8233	0.20	0.05	0.00	0.00	19.58
rs61783093	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	1	46544144	A	C	8233	0.23	0.05	0.00	0.00	20.76
rs1890452	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	1	75726823	A	G	8233	0.13	0.02	0.00	0.01	69.61

rs7560143	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	2	151367866	T	A	8233	0.09	0.02	0.00	0.00	20.21
rs34282712	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	2	235653381	G	A	8233	0.08	0.02	0.00	0.00	21.96
rs9816125	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	3	170504890	T	C	8233	0.07	0.02	0.00	0.00	20.33
rs14861767 6	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	5	143992274	T	G	8233	0.32	0.06	0.00	0.00	25.67
rs2071303	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	6	26091108	C	T	8233	0.07	0.02	0.00	0.00	20.28
rs75888373	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	8	61374451	T	A	8233	-0.24	0.05	0.00	0.00	22.07
rs55674412	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	9	130531579	T	A	8233	-0.15	0.03	0.00	0.00	22.05
rs80004680	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	13	56626634	A	C	8233	0.16	0.03	0.00	0.00	22.07
rs62021171	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	15	84585319	A	G	8233	-0.08	0.02	0.00	0.00	19.72
rs1604118	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	16	59630051	A	C	8233	-0.22	0.05	0.00	0.00	20.80
rs57306765	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	16	79483820	G	T	8233	0.10	0.02	0.00	0.00	19.87
rs1421269	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	18	56749233	A	G	8233	0.08	0.02	0.00	0.00	25.28
rs11882311	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	19	52691091	T	C	8233	0.11	0.02	0.00	0.00	20.15
rs2833444	Glutamine conjugate of C6H10O2 (2) levels	GCST90200173	21	31547272	T	G	8233	-0.07	0.02	0.00	0.00	22.03
rs7541058	3- hydroxybutyr ovlglycine	GCST90200174	1	75734132	T	C	8171	0.16	0.02	0.00	0.01	104.72
rs34754258	3- hydroxybutyr ovlglycine	GCST90200174	1	81006131	T	G	8171	0.20	0.04	0.00	0.00	20.99
rs80036225	3- hydroxybutyr ovlglycine	GCST90200174	1	168730068	C	A	8171	0.25	0.05	0.00	0.00	22.02
rs12035103	3- hydroxybutyr ovlglycine	GCST90200174	1	215863134	A	G	8171	0.10	0.02	0.00	0.00	19.73
rs13001307	3- hydroxybutyr ovlglycine	GCST90200174	2	82788789	C	A	8171	0.14	0.03	0.00	0.00	19.57
rs11899123	3- hydroxybutyr ovlglycine	GCST90200174	2	154541787	C	T	8171	-0.17	0.04	0.00	0.00	20.42

rs1047891	3- hydroxybutyr ovlglycine	GCST90200174	2	210675783	A	C	8171	0.32	0.02	0.00	0.05	445.51
rs75137368	3- hydroxybutyr ovlglycine	GCST90200174	2	229124993	A	G	8171	0.21	0.05	0.00	0.00	21.78
rs14792845 5	3- hydroxybutyr ovlglycine	GCST90200174	3	27470982	A	C	8171	0.27	0.06	0.00	0.00	20.25
rs292488	3- hydroxybutyr ovlglycine	GCST90200174	5	168682254	G	A	8171	0.09	0.02	0.00	0.00	21.95
rs11321377 9	3- hydroxybutyr ovlglycine	GCST90200174	6	39316602	T	C	8171	-0.19	0.04	0.00	0.00	19.88
rs79385407	3- hydroxybutyr ovlglycine	GCST90200174	6	119293232	G	A	8171	0.26	0.05	0.00	0.00	23.65
rs13930093 1	3- hydroxybutyr ovlglycine	GCST90200174	6	160206065	T	A	8171	0.29	0.06	0.00	0.00	22.42
rs61833539	3- hydroxybutyr ovlglycine	GCST90200174	10	8106879	T	G	8171	0.14	0.03	0.00	0.00	20.71
rs11728521 1	3- hydroxybutyr ovlglycine	GCST90200174	11	41721463	A	G	8171	-0.36	0.08	0.00	0.00	21.65
rs596603	3- hydroxybutyr ovlglycine	GCST90200174	11	67592132	G	T	8171	-0.10	0.01	0.00	0.01	49.89
rs6590359	3- hydroxybutyr ovlglycine	GCST90200174	11	128935919	A	C	8171	-0.10	0.02	0.00	0.00	19.57
rs2970531	3- hydroxybutyr ovlglycine	GCST90200174	12	25254791	T	G	8171	0.18	0.04	0.00	0.00	19.72
rs14670888 4	3- hydroxybutyr ovlglycine	GCST90200174	12	32896558	A	C	8171	0.60	0.13	0.00	0.00	21.57
rs79530644	3- hydroxybutyr ovlglycine	GCST90200174	12	97215141	A	G	8171	-0.23	0.05	0.00	0.00	21.94
rs61962904	3- hydroxybutyr ovlglycine	GCST90200174	13	56949485	C	T	8171	0.15	0.03	0.00	0.00	21.69
rs9583102	3- hydroxybutyr ovlglycine	GCST90200174	13	106619356	T	G	8171	0.08	0.02	0.00	0.00	20.27
rs10131689	3- hydroxybutyr ovlglycine	GCST90200174	14	85841134	G	A	8171	-0.13	0.03	0.00	0.00	20.70
rs7163036	3- hydroxybutyr ovlglycine	GCST90200174	15	76179470	C	G	8171	0.07	0.01	0.00	0.00	22.41
rs14849491 0	3- hydroxybutyr ovlglycine	GCST90200174	18	7131869	T	C	8171	0.34	0.07	0.00	0.00	25.09
rs11720673 9	3- hydroxybutyr ovlglycine	GCST90200174	18	45172745	T	C	8171	0.24	0.05	0.00	0.00	21.04
rs11671377	3- hydroxybutyr ovlglycine Glycine	GCST90200174	19	17651189	C	A	8171	0.07	0.01	0.00	0.00	22.22
rs12566735	conjugate of C10H14O2 (1) levels Glycine	GCST90200175	1	46841665	T	C	8128	0.21	0.02	0.00	0.01	75.82
rs2130525	conjugate of C10H14O2 (1) levels	GCST90200175	1	151929625	C	T	8128	-0.12	0.02	0.00	0.01	57.17

rs148571314	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	2	40301521	C	T	8128	0.21	0.05	0.00	0.00	19.75
rs62140816	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	2	52261883	C	A	8128	0.07	0.02	0.00	0.00	19.95
rs13431728	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	2	126640182	T	C	8128	-0.20	0.04	0.00	0.00	32.39
rs1549203	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	5	139132655	T	C	8128	0.08	0.02	0.00	0.00	24.77
rs1165189	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	6	25849551	C	A	8128	0.09	0.02	0.00	0.00	24.26
rs34395699	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	7	8037257	C	A	8128	-0.11	0.03	0.00	0.00	19.53
rs76021834	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	7	75977837	G	A	8128	-0.08	0.02	0.00	0.00	22.58
rs35843228	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	8	19841725	A	T	8128	-0.08	0.02	0.00	0.00	21.59
rs58595014	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	8	58075317	C	T	8128	-0.19	0.04	0.00	0.00	19.71
rs140121824	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	8	95946707	A	C	8128	0.27	0.06	0.00	0.00	19.93
rs4442446	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	10	2750952	T	C	8128	-0.34	0.07	0.00	0.00	22.50
rs12413868	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	10	55899862	T	C	8128	0.18	0.04	0.00	0.00	20.16
rs143966491	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	10	94700521	A	G	8128	0.40	0.03	0.00	0.02	154.36
rs74381874	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	11	113559110	C	G	8128	-0.19	0.04	0.00	0.00	19.59
rs73187034	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	12	75648357	G	A	8128	0.09	0.02	0.00	0.00	19.96
rs4762373	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	12	97201706	A	G	8128	-0.12	0.03	0.00	0.00	23.37
rs9544232	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	13	76251549	T	A	8128	-0.08	0.02	0.00	0.00	20.82
rs9590116	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	13	94912600	C	G	8128	0.09	0.02	0.00	0.00	23.59

rs11694699 7	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	14	102566580	C	T	8128	0.41	0.09	0.00	0.00	20.78
rs55845908	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	15	51235300	A	G	8128	0.12	0.03	0.00	0.00	19.74
rs74606645	Glycine conjugate of C10H14O2 (1) levels	GCST90200175	20	40507614	A	G	8128	-0.14	0.03	0.00	0.00	19.88
rs1890452	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	1	75726823	A	G	7980	0.14	0.02	0.00	0.01	78.22
rs14850602 2	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	2	104853785	A	C	7980	0.15	0.03	0.00	0.00	20.44
rs10755046	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	2	227123681	A	T	7980	0.08	0.02	0.00	0.00	23.51
rs2858088	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	4	3266983	G	A	7980	-0.07	0.02	0.00	0.00	19.75
rs14861767 6	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	5	143992274	T	G	7980	0.29	0.06	0.00	0.00	20.19
rs1179087	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	6	25858476	T	G	7980	0.09	0.02	0.00	0.00	25.25
rs34130495	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	6	160139792	A	G	7980	0.24	0.05	0.00	0.00	27.21
rs77188171	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	7	20077357	G	A	7980	0.17	0.04	0.00	0.00	20.16
rs55674412	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	9	130531579	T	A	7980	-0.15	0.03	0.00	0.00	21.79
rs7074945	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	10	14009352	G	A	7980	-0.09	0.02	0.00	0.00	21.00
rs2933243	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	12	56466793	A	G	7980	-0.09	0.02	0.00	0.00	23.75
rs76224155	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	13	56604922	A	T	7980	0.16	0.03	0.00	0.00	21.95
rs78066978	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	13	102098739	T	C	7980	-0.16	0.03	0.00	0.00	21.64
rs4932481	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	15	89180768	G	C	7980	0.07	0.02	0.00	0.00	20.78
rs75030426	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	17	53508673	G	A	7980	-0.15	0.03	0.00	0.00	19.84

rs1421269	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	18	56749233	A	G	7980	0.07	0.02	0.00	0.00	20.82
rs4810162	Glutamine conjugate of C6H10O2 (1) levels	GCST90200176	20	59225269	C	T	7980	-0.11	0.02	0.00	0.00	20.17
rs11622495 7	N- methylhydrox yproline levels	GCST90200177	1	91218222	G	C	6902	-0.24	0.05	0.00	0.00	20.02
rs53202423 8	N- methylhydrox yproline levels	GCST90200177	1	243099267	A	G	6902	0.24	0.05	0.00	0.00	19.75
rs79188300	N- methylhydrox yproline levels	GCST90200177	2	70736005	C	T	6902	-0.26	0.06	0.00	0.00	21.09
rs18723441 4	N- methylhydrox yproline levels	GCST90200177	2	133719704	T	C	6902	0.39	0.09	0.00	0.00	20.26
rs56307779 2	N- methylhydrox yproline levels	GCST90200177	2	203769394	C	G	6902	-0.36	0.08	0.00	0.00	22.81
rs248386	N- methylhydrox yproline levels	GCST90200177	5	79034404	A	C	6902	0.10	0.02	0.00	0.00	19.68
rs74319599	N- methylhydrox yproline levels	GCST90200177	8	34849206	C	T	6902	-0.33	0.07	0.00	0.00	26.07
rs9693739	N- methylhydrox yproline levels	GCST90200177	8	138811374	T	C	6902	0.10	0.02	0.00	0.00	26.36
rs62545037	N- methylhydrox yproline levels	GCST90200177	9	71374901	A	C	6902	0.09	0.02	0.00	0.00	20.52
rs57671466	N- methylhydrox yproline levels	GCST90200177	10	30219733	A	G	6902	-0.26	0.06	0.00	0.00	20.59
rs14426853 8	N- methylhydrox yproline levels	GCST90200177	11	3499666	A	C	6902	-0.12	0.03	0.00	0.00	21.19
rs28501211	N- methylhydrox yproline levels	GCST90200177	15	34709893	A	G	6902	0.15	0.03	0.00	0.00	27.16
rs77678880	N- methylhydrox yproline levels	GCST90200177	18	71458426	C	G	6902	-0.28	0.06	0.00	0.00	19.82
rs14174535 3	N- methylhydrox yproline levels	GCST90200177	18	74505162	T	C	6902	0.24	0.05	0.00	0.00	19.88
rs78223725	N- methylhydrox yproline levels	GCST90200177	19	7572513	A	G	6902	0.36	0.08	0.00	0.00	22.30
rs763987	N- methylhydrox yproline levels	GCST90200177	20	12509509	G	C	6902	-0.20	0.04	0.00	0.00	22.08
rs6111747	N- methylhydrox yproline levels	GCST90200177	20	17938926	G	A	6902	0.08	0.02	0.00	0.00	19.75
rs12124066	Glucuronide of C10H18O2 (7) levels	GCST90200178	1	170767223	A	T	6090	0.15	0.03	0.00	0.00	20.29
rs78408670	Glucuronide of C10H18O2 (7) levels	GCST90200178	3	153373243	A	G	6090	0.27	0.06	0.00	0.00	19.98
rs4689734	Glucuronide of C10H18O2 (7) levels	GCST90200178	4	7407812	C	A	6090	-0.09	0.02	0.00	0.00	21.71
rs806971	Glucuronide of C10H18O2 (7) levels	GCST90200178	6	26144563	G	T	6090	0.35	0.08	0.00	0.00	19.93
rs79887198	Glucuronide of C10H18O2 (7) levels	GCST90200178	6	128739829	C	T	6090	0.39	0.09	0.00	0.00	20.81

rs1997340	Glucuronide of C10H18O2 (7) levels	GCST90200178	6	147023312	T	G	6090	0.15	0.03	0.00	0.00	22.23
rs740512	Glucuronide of C10H18O2 (7) levels	GCST90200178	7	151387704	G	A	6090	-0.09	0.02	0.00	0.00	22.24
rs74455617	Glucuronide of C10H18O2 (7) levels	GCST90200178	8	2164884	T	C	6090	0.42	0.09	0.00	0.00	21.64
rs9298323	Glucuronide of C10H18O2 (7) levels	GCST90200178	8	50422442	T	G	6090	-0.21	0.04	0.00	0.00	22.45
rs13266546	Glucuronide of C10H18O2 (7) levels	GCST90200178	8	121287779	T	G	6090	0.10	0.02	0.00	0.00	27.64
rs11340033 7	Glucuronide of C10H18O2 (7) levels	GCST90200178	9	15360064	T	C	6090	0.15	0.03	0.00	0.00	21.65
rs13891043 2	Glucuronide of C10H18O2 (7) levels	GCST90200178	9	121415549	T	C	6090	-0.18	0.04	0.00	0.00	19.79
rs76621799	Glucuronide of C10H18O2 (7) levels	GCST90200178	10	13698664	A	G	6090	-0.16	0.04	0.00	0.00	19.68
rs14436488 9	Glucuronide of C10H18O2 (7) levels	GCST90200178	10	86535782	C	A	6090	0.21	0.05	0.00	0.00	20.45
rs14341325 8	Glucuronide of C10H18O2 (7) levels	GCST90200178	11	97779590	A	C	6090	0.31	0.07	0.00	0.00	20.75
rs1464515	Glucuronide of C10H18O2 (7) levels	GCST90200178	12	120684858	A	C	6090	0.09	0.02	0.00	0.00	20.94
rs9524398	Glucuronide of C10H18O2 (7) levels	GCST90200178	13	94277766	T	C	6090	-0.08	0.02	0.00	0.00	20.44
rs14737749 0	Glucuronide of C10H18O2 (7) levels	GCST90200178	14	104899012	G	A	6090	0.40	0.09	0.00	0.00	21.91
rs11797798 6	Glucuronide of C10H18O2 (7) levels	GCST90200178	15	35078710	T	G	6090	0.21	0.04	0.00	0.00	26.31
rs6505301	Glucuronide of C10H18O2 (7) levels	GCST90200178	17	32542987	G	A	6090	0.08	0.02	0.00	0.00	19.74
rs14967867 8	Glucuronide of C10H18O2 (7) levels	GCST90200178	19	47485244	G	A	6090	0.77	0.14	0.00	0.01	32.21
rs2299724	Glucuronide of C10H18O2 (7) levels	GCST90200178	20	53993466	T	C	6090	0.32	0.06	0.00	0.00	27.88
rs625226	Glyco-beta- muricholate levels	GCST90200179	1	181531188	C	T	7206	0.11	0.02	0.00	0.00	19.83
rs14151125 5	Glyco-beta- muricholate levels	GCST90200179	1	188666952	T	C	7206	0.23	0.05	0.00	0.00	23.07
rs11361556 1	Glyco-beta- muricholate levels	GCST90200179	3	13828683	A	G	7206	-0.28	0.06	0.00	0.00	19.79
rs35228298	Glyco-beta- muricholate levels	GCST90200179	3	85343732	G	A	7206	0.09	0.02	0.00	0.00	19.98
rs11577857 8	Glyco-beta- muricholate levels	GCST90200179	3	188578136	C	T	7206	0.30	0.06	0.00	0.00	21.42
rs14777125 8	Glyco-beta- muricholate levels	GCST90200179	5	27225251	C	A	7206	0.50	0.11	0.00	0.00	21.35
rs14315381 5	Glyco-beta- muricholate levels	GCST90200179	5	117395600	C	T	7206	0.27	0.06	0.00	0.00	19.55

rs14093900	Glyco-beta-muricholate levels	GCST90200179	6	66058006	T	C	7206	0.26	0.05	0.00	0.00	25.96
rs3949447	Glyco-beta-muricholate levels	GCST90200179	6	154482077	A	G	7206	0.10	0.02	0.00	0.00	20.43
rs14898237	Glyco-beta-muricholate levels	GCST90200179	7	99477415	C	T	7206	0.89	0.04	0.00	0.06	433.33
rs62471929	Glyco-beta-muricholate levels	GCST90200179	7	99676693	G	A	7206	-0.25	0.04	0.00	0.01	43.57
rs117209214	Glyco-beta-muricholate levels	GCST90200179	7	100396354	A	G	7206	0.52	0.09	0.00	0.00	31.71
rs193057285	Glyco-beta-muricholate levels	GCST90200179	7	138349507	A	G	7206	0.77	0.17	0.00	0.00	19.58
rs6477396	Glyco-beta-muricholate levels	GCST90200179	9	9418642	T	C	7206	0.10	0.02	0.00	0.00	29.61
rs11144582	Glyco-beta-muricholate levels	GCST90200179	9	75696343	T	A	7206	0.11	0.02	0.00	0.00	23.19
rs143592666	Glyco-beta-muricholate levels	GCST90200179	10	125811225	G	A	7206	0.28	0.06	0.00	0.00	19.53
rs75664649	Glyco-beta-muricholate levels	GCST90200179	12	52554713	T	C	7206	-0.22	0.05	0.00	0.00	19.75
rs17227535	Glyco-beta-muricholate levels	GCST90200179	12	98376431	T	C	7206	0.11	0.02	0.00	0.00	23.22
rs7996573	Glyco-beta-muricholate levels	GCST90200179	13	62643308	A	T	7206	0.16	0.03	0.00	0.00	22.63
rs117503177	Glyco-beta-muricholate levels	GCST90200179	13	103083325	A	G	7206	-0.19	0.04	0.00	0.00	23.12
rs722241	Glyco-beta-muricholate levels	GCST90200179	16	13839543	G	T	7206	0.11	0.02	0.00	0.00	28.40
rs247897	Glyco-beta-muricholate levels	GCST90200179	16	84442594	T	A	7206	-0.08	0.02	0.00	0.00	21.90
rs9916811	Glyco-beta-muricholate levels	GCST90200179	17	76753191	T	C	7206	0.08	0.02	0.00	0.00	19.94
rs12965214	Glyco-beta-muricholate levels	GCST90200179	18	25229883	G	A	7206	0.35	0.08	0.00	0.00	19.83
rs9612733	Glyco-beta-muricholate levels	GCST90200179	22	24676786	G	T	7206	-0.15	0.03	0.00	0.00	29.52
rs41269797	of C12H22O4 (1) levels	GCST90200180	1	13769091	C	T	5831	-0.27	0.06	0.00	0.00	21.01
rs7535988	Glucuronide of C12H22O4 (1) levels	GCST90200180	1	212096869	A	G	5831	-0.20	0.04	0.00	0.00	23.76
rs6792367	Glucuronide of C12H22O4 (1) levels	GCST90200180	3	1129253	T	A	5831	0.08	0.02	0.00	0.00	20.73
rs12491981	Glucuronide of C12H22O4 (1) levels	GCST90200180	3	122339026	C	T	5831	0.17	0.03	0.00	0.01	30.06
rs77128843	Glucuronide of C12H22O4 (1) levels	GCST90200180	4	54498742	G	A	5831	-0.18	0.04	0.00	0.00	21.29
rs10016748	Glucuronide of C12H22O4 (1) levels	GCST90200180	4	97067683	C	T	5831	-0.10	0.02	0.00	0.00	24.89

rs6811622	Glucuronide of C12H22O4 (1) levels	GCST90200180	4	175135351	T	G	5831	0.08	0.02	0.00	0.00	19.65
rs926396	Glucuronide of C12H22O4 (1) levels	GCST90200180	6	22337302	A	G	5831	-0.09	0.02	0.00	0.00	20.75
rs11756443 8	Glucuronide of C12H22O4 (1) levels	GCST90200180	6	170533211	C	T	5831	-0.38	0.08	0.00	0.00	19.70
rs11765210	Glucuronide of C12H22O4 (1) levels	GCST90200180	7	69227459	T	C	5831	-0.08	0.02	0.00	0.00	19.67
rs19072283 6	Glucuronide of C12H22O4 (1) levels	GCST90200180	9	1556253	C	T	5831	0.49	0.11	0.00	0.00	20.25
rs10901664	Glucuronide of C12H22O4 (1) levels	GCST90200180	10	126702362	G	C	5831	-0.10	0.02	0.00	0.00	23.65
rs78074146	Glucuronide of C12H22O4 (1) levels	GCST90200180	10	132108586	A	G	5831	-0.16	0.03	0.00	0.00	28.45
rs10500601	Glucuronide of C12H22O4 (1) levels	GCST90200180	11	4434725	C	T	5831	-0.09	0.02	0.00	0.00	20.41
rs11755422 7	Glucuronide of C12H22O4 (1) levels	GCST90200180	14	37232305	A	G	5831	0.19	0.04	0.00	0.00	19.82
rs1813918	Glucuronide of C12H22O4 (1) levels	GCST90200180	14	81327107	G	A	5831	0.10	0.02	0.00	0.00	19.58
rs322566	Glucuronide of C12H22O4 (1) levels	GCST90200180	16	63897753	C	T	5831	-0.10	0.02	0.00	0.00	22.39
rs11861635	Glucuronide of C12H22O4 (1) levels	GCST90200180	16	82509773	G	C	5831	0.24	0.05	0.00	0.00	20.03
rs12938103	Glucuronide of C12H22O4 (1) levels	GCST90200180	17	21458773	G	A	5831	0.29	0.06	0.00	0.00	21.56
rs135068	Glucuronide of C12H22O4 (1) levels	GCST90200180	22	43436926	C	T	5831	-0.15	0.03	0.00	0.00	20.21
rs15117146 2	N,n,n- trimethyl- alanylproline betaine (tmap) levels	GCST90200181	1	103549059	A	G	8220	0.23	0.05	0.00	0.00	20.35
rs17673189	N,n,n- trimethyl- alanylproline betaine (tmap) levels	GCST90200181	1	216680483	A	G	8220	0.17	0.04	0.00	0.00	19.94
rs80231137	N,n,n- trimethyl- alanylproline betaine (tmap) levels	GCST90200181	1	232436616	T	C	8220	0.23	0.05	0.00	0.00	19.59
rs72759275	N,n,n- trimethyl- alanylproline betaine (tmap) levels	GCST90200181	1	238398743	G	A	8220	0.10	0.02	0.00	0.00	25.94
rs11676195	N,n,n- trimethyl- alanylproline betaine (tmap) levels	GCST90200181	2	64736839	G	A	8220	0.17	0.04	0.00	0.00	19.57
rs71597556	N,n,n- trimethyl- alanylproline betaine (tmap) levels	GCST90200181	4	14778496	A	C	8220	-0.08	0.02	0.00	0.00	20.23

rs270457	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	4	58042969	G	A	8220	-0.08	0.02	0.00	0.00	19.56
rs2870326	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	4	91523611	G	A	8220	-0.25	0.05	0.00	0.00	21.11
rs13108872	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	4	180599250	C	T	8220	-0.13	0.03	0.00	0.00	21.51
rs555470	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	5	80925178	C	T	8220	-0.09	0.02	0.00	0.00	19.80
rs10039449	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	5	139060827	G	A	8220	-0.10	0.02	0.00	0.00	19.68
rs1808650	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	5	172431114	G	A	8220	0.06	0.01	0.00	0.00	19.52
rs1569733	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	6	11825631	C	T	8220	-0.09	0.02	0.00	0.00	22.93
rs9320618	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	6	117656030	G	A	8220	-0.07	0.02	0.00	0.00	20.14
rs13204123	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	6	135166661	A	T	8220	-0.13	0.03	0.00	0.00	22.26
rs117050209	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	6	147224087	G	A	8220	-0.24	0.04	0.00	0.00	30.70
rs13261710	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	8	7043805	G	C	8220	-0.06	0.01	0.00	0.00	19.52
rs72761290	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	9	130403493	A	C	8220	0.12	0.03	0.00	0.00	19.97
rs113221897	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	11	29065619	A	G	8220	0.11	0.02	0.00	0.00	21.86
rs59479333	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	12	66688666	T	A	8220	-0.10	0.02	0.00	0.00	20.15

rs9524960	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	13	95389137	C	T	8220	0.09	0.02	0.00	0.00	26.44
rs1077697	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	14	90676435	T	C	8220	0.07	0.02	0.00	0.00	23.13
rs35863761	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	15	53860353	A	C	8220	0.06	0.01	0.00	0.00	20.34
rs13329952	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	16	20355185	C	T	8220	-0.09	0.02	0.00	0.00	27.99
rs77952405	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	18	10331691	A	G	8220	0.10	0.02	0.00	0.00	21.30
rs2215209	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	19	28519597	T	C	8220	0.06	0.01	0.00	0.00	21.07
rs7510223	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	21	21088972	G	A	8220	0.15	0.03	0.00	0.00	19.55
rs35057984	N,n,n-trimethyl-alanylproline betaine (tmap) levels	GCST90200181	22	30601758	G	C	8220	-0.09	0.02	0.00	0.00	24.49
rs6681683	Glycine conjugate of C10H12O2 levels	GCST90200182	1	24561056	A	G	6177	-0.10	0.02	0.00	0.00	22.48
rs2065996	Glycine conjugate of C10H12O2 levels	GCST90200182	1	46809569	A	G	6177	0.15	0.02	0.00	0.01	40.89
rs151329373	Glycine conjugate of C10H12O2 levels	GCST90200182	1	102541547	A	G	6177	-0.33	0.07	0.00	0.00	20.45
rs2130525	Glycine conjugate of C10H12O2 levels	GCST90200182	1	151929625	C	T	6177	-0.11	0.02	0.00	0.01	35.28
rs145833568	Glycine conjugate of C10H12O2 levels	GCST90200182	1	159856733	A	G	6177	-0.32	0.07	0.00	0.00	21.15
rs9809791	Glycine conjugate of C10H12O2 levels	GCST90200182	3	64737956	C	G	6177	-0.20	0.04	0.00	0.00	20.90
rs7620808	Glycine conjugate of C10H12O2 levels	GCST90200182	3	156197632	T	C	6177	0.08	0.02	0.00	0.00	19.53
rs74650632	Glycine conjugate of C10H12O2 levels	GCST90200182	4	22459963	T	C	6177	-0.25	0.06	0.00	0.00	19.93

rs10022440	Glycine conjugate of C10H12O2 levels	GCST90200182	4	69108008	A	G	6177	-0.15	0.03	0.00	0.00	20.32
rs35677007	Glycine conjugate of C10H12O2 levels	GCST90200182	5	6904368	A	G	6177	-0.19	0.04	0.00	0.00	22.03
rs13200784	Glycine conjugate of C10H12O2 levels	GCST90200182	6	25829405	T	A	6177	0.13	0.02	0.00	0.01	39.72
rs54304866 6	Glycine conjugate of C10H12O2 levels	GCST90200182	6	91168963	A	T	6177	-1.25	0.28	0.00	0.00	19.51
rs62481458	Glycine conjugate of C10H12O2 levels	GCST90200182	7	146904770	T	C	6177	-0.24	0.05	0.00	0.00	20.74
rs7820200	Glycine conjugate of C10H12O2 levels	GCST90200182	8	18703972	T	C	6177	-0.16	0.04	0.00	0.00	20.43
rs79374531	Glycine conjugate of C10H12O2 levels	GCST90200182	8	98424972	T	C	6177	0.25	0.05	0.00	0.00	20.85
rs62579131	Glycine conjugate of C10H12O2 levels	GCST90200182	9	100908982	A	G	6177	0.18	0.04	0.00	0.00	19.81
rs10817103	Glycine conjugate of C10H12O2 levels	GCST90200182	9	110887222	T	C	6177	0.12	0.03	0.00	0.00	19.97
rs526484	Glycine conjugate of C10H12O2 levels	GCST90200182	11	114245458	T	G	6177	0.08	0.02	0.00	0.00	19.79
rs4762373	Glycine conjugate of C10H12O2 levels	GCST90200182	12	97201706	A	G	6177	-0.14	0.03	0.00	0.00	21.42
rs9573827	Glycine conjugate of C10H12O2 levels	GCST90200182	13	76276140	C	T	6177	-0.08	0.02	0.00	0.00	19.75
rs11790639 1	Glycine conjugate of C10H12O2 levels	GCST90200182	14	102588097	T	C	6177	0.46	0.10	0.00	0.00	21.13
rs62010506	Glycine conjugate of C10H12O2 levels	GCST90200182	15	33637492	A	G	6177	-0.16	0.04	0.00	0.00	19.76
rs606511	Glycine conjugate of C10H12O2 levels	GCST90200182	15	101671451	C	T	6177	-0.08	0.02	0.00	0.00	21.22
rs9923144	Glycine conjugate of C10H12O2 levels	GCST90200182	16	14031656	C	T	6177	-0.10	0.02	0.00	0.00	22.31
rs11079433	Glycine conjugate of C10H12O2 levels	GCST90200182	17	61507528	A	G	6177	-0.20	0.04	0.00	0.00	22.13
rs12984891	Glycine conjugate of C10H12O2 levels	GCST90200182	19	49815868	T	C	6177	0.09	0.02	0.00	0.00	20.58

rs144444233	Glycine conjugate of C10H12O2 levels N-acetyl-2-aminooctanoate	GCST90200182	21	26879723	A	G	6177	0.10	0.02	0.00	0.00	19.70
rs13408433	e levels N-acetyl-2-aminooctanoate	GCST90200183	2	73655945	A	G	8253	0.55	0.02	0.00	0.12	#####
rs57555583	e levels N-acetyl-2-aminooctanoate	GCST90200183	2	217078482	T	C	8253	0.08	0.02	0.00	0.00	19.94
rs2470528	e levels N-acetyl-2-aminooctanoate	GCST90200183	3	15643959	G	T	8253	0.21	0.03	0.00	0.00	39.76
rs76408153	e levels N-acetyl-2-aminooctanoate	GCST90200183	3	113157832	G	A	8253	0.32	0.06	0.00	0.00	26.49
rs116927146	e levels N-acetyl-2-aminooctanoate	GCST90200183	3	152546498	T	C	8253	0.27	0.06	0.00	0.00	20.86
rs114916669	e levels N-acetyl-2-aminooctanoate	GCST90200183	4	121372060	C	G	8253	-0.24	0.05	0.00	0.00	20.08
rs72978427	e levels N-acetyl-2-aminooctanoate	GCST90200183	4	157035741	C	G	8253	-0.12	0.03	0.00	0.00	21.04
rs11745810	e levels N-acetyl-2-aminooctanoate	GCST90200183	5	43124827	G	C	8253	0.14	0.03	0.00	0.00	20.13
rs4505973	e levels N-acetyl-2-aminooctanoate	GCST90200183	5	173283741	G	A	8253	0.12	0.03	0.00	0.00	20.84
rs3799354	e levels N-acetyl-2-aminooctanoate	GCST90200183	6	25829810	A	C	8253	0.11	0.02	0.00	0.00	22.02
rs13204709	e levels N-acetyl-2-aminooctanoate	GCST90200183	6	148308604	C	G	8253	0.08	0.02	0.00	0.00	21.20
rs4727383	e levels N-acetyl-2-aminooctanoate	GCST90200183	7	97941373	A	G	8253	-0.09	0.02	0.00	0.00	20.68
rs117433038	e levels N-acetyl-2-aminooctanoate	GCST90200183	8	1948751	T	C	8253	0.16	0.03	0.00	0.00	22.27
rs72609930	e levels N-acetyl-2-aminooctanoate	GCST90200183	8	23831544	A	C	8253	-0.21	0.04	0.00	0.00	24.04
rs10100444	e levels N-acetyl-2-aminooctanoate	GCST90200183	8	32874819	G	A	8253	-0.15	0.03	0.00	0.00	20.41
rs3781713	e levels N-acetyl-2-aminooctanoate	GCST90200183	11	49026646	C	T	8253	-0.09	0.02	0.00	0.00	20.67
rs73079476	e levels N-acetyl-2-aminooctanoate	GCST90200183	12	21190899	C	A	8253	-0.10	0.02	0.00	0.00	25.91
rs4261347	e levels N-acetyl-2-aminooctanoate	GCST90200183	12	80921546	G	A	8253	-0.09	0.02	0.00	0.00	21.31
rs17579354	e levels N-acetyl-2-aminooctanoate	GCST90200183	13	100724883	T	A	8253	0.26	0.06	0.00	0.00	20.06
rs380342	e levels N-acetyl-2-aminooctanoate	GCST90200183	14	60146689	A	G	8253	0.12	0.02	0.00	0.00	37.01
rs11623044	e levels N-acetyl-2-aminooctanoate	GCST90200183	14	65906970	G	A	8253	-0.12	0.02	0.00	0.00	21.92
rs67241126	e levels N-acetyl-2-aminooctanoate	GCST90200183	15	76151897	A	G	8253	-0.12	0.02	0.00	0.00	26.54
rs1388264	e levels N-acetyl-2-aminooctanoate	GCST90200183	15	97841673	C	T	8253	-0.08	0.02	0.00	0.00	19.98

rs138595696	N-acetyl-2-aminooctanoate levels	GCST90200183	16	5090538	T	C	8253	0.30	0.07	0.00	0.00	20.44
rs144025042	N-acetyl-2-aminooctanoate levels	GCST90200183	16	75114533	A	G	8253	-0.42	0.07	0.00	0.00	32.31
rs144856635	N-acetyl-2-aminooctanoate levels	GCST90200183	18	21310308	C	T	8253	-0.32	0.07	0.00	0.00	20.17
rs34538684	N-acetyl-2-aminooctanoate levels	GCST90200183	19	653468	C	T	8253	0.08	0.02	0.00	0.00	24.03
rs58604542	N-acetyl-2-aminooctanoate levels	GCST90200183	21	20444067	T	C	8253	-0.16	0.03	0.00	0.00	20.91
rs61814130	3-formylindole levels	GCST90200184	1	170902364	C	G	8256	-0.21	0.05	0.00	0.00	21.48
rs1431143	3-formylindole levels	GCST90200184	1	190966147	G	A	8256	0.07	0.02	0.00	0.00	21.07
rs76466844	3-formylindole levels	GCST90200184	2	118663146	C	T	8256	0.23	0.05	0.00	0.00	20.31
rs4444498	3-formylindole levels	GCST90200184	2	216946465	T	C	8256	-0.27	0.06	0.00	0.00	20.09
rs149767042	3-formylindole levels	GCST90200184	2	233612128	A	G	8256	0.21	0.05	0.00	0.00	20.11
rs510402	3-formylindole levels	GCST90200184	3	8134053	A	G	8256	-0.20	0.04	0.00	0.00	23.78
rs73141535	3-formylindole levels	GCST90200184	3	85603547	C	T	8256	0.09	0.02	0.00	0.00	19.90
rs182215158	3-formylindole levels	GCST90200184	3	119331046	C	T	8256	0.33	0.07	0.00	0.00	22.92
rs10000291	3-formylindole levels	GCST90200184	4	170113591	T	C	8256	0.10	0.02	0.00	0.00	39.67
rs1165211	3-formylindole levels	GCST90200184	6	25800694	C	T	8256	0.10	0.02	0.00	0.00	39.28
rs1230319	3-formylindole levels	GCST90200184	6	163477765	G	A	8256	-0.20	0.04	0.00	0.00	19.66
rs58487738	3-formylindole levels	GCST90200184	7	146353044	A	G	8256	0.16	0.03	0.00	0.00	23.00
rs7842755	3-formylindole levels	GCST90200184	8	6892248	C	A	8256	0.08	0.02	0.00	0.00	19.82
rs139251025	3-formylindole levels	GCST90200184	8	122442778	C	A	8256	-0.29	0.06	0.00	0.00	22.05
rs57909274	3-formylindole levels	GCST90200184	8	134228552	A	C	8256	-0.08	0.02	0.00	0.00	20.46
rs2977995	3-formylindole levels	GCST90200184	9	128821966	G	A	8256	0.28	0.02	0.00	0.03	278.69
rs142582686	3-formylindole levels	GCST90200184	10	101005147	T	G	8256	0.17	0.04	0.00	0.00	21.32
rs10839612	3-formylindole levels	GCST90200184	11	6761207	T	C	8256	0.07	0.01	0.00	0.00	20.07
rs11056372	3-formylindole levels	GCST90200184	12	15149903	A	G	8256	-0.17	0.04	0.00	0.00	21.92
rs77904614	3-formylindole levels	GCST90200184	12	131731799	G	A	8256	-0.11	0.02	0.00	0.00	20.44
rs72674255	3-formylindole levels	GCST90200184	14	37596847	C	T	8256	0.26	0.05	0.00	0.00	27.27
rs55973025	3-formylindole levels	GCST90200184	15	26578052	A	G	8256	-0.12	0.03	0.00	0.00	19.80
rs74805272	3-formylindole levels	GCST90200184	15	87567177	C	G	8256	0.27	0.06	0.00	0.00	20.64
rs77599898	3-formylindole levels	GCST90200184	16	9810871	A	G	8256	0.16	0.04	0.00	0.00	19.88
rs11647808	3-formylindole levels	GCST90200184	16	58736977	A	C	8256	0.18	0.03	0.00	0.01	43.90
rs4502257	3-formylindole levels	GCST90200184	17	66417278	T	C	8256	0.15	0.03	0.00	0.00	20.12
rs678624	3-formylindole levels	GCST90200184	17	77249227	A	G	8256	0.08	0.02	0.00	0.00	21.30
rs143393480	3-formylindole levels	GCST90200184	18	58422626	T	G	8256	0.38	0.08	0.00	0.00	24.11
rs1007889	3-formylindole levels	GCST90200184	22	23897056	G	T	8256	0.07	0.02	0.00	0.00	22.84

rs5751777	3-formylindole levels Gamma-	GCST90200184	22	23924860	T	C	8256	0.38	0.01	0.00	0.08	727.84
rs12024558	glutamylcitrull ine levels Gamma-	GCST90200185	1	16192253	A	T	8163	-0.07	0.02	0.00	0.00	19.91
rs34973445	glutamylcitrull ine levels Gamma-	GCST90200185	1	117939526	T	C	8163	0.12	0.03	0.00	0.00	19.65
rs55729296	glutamylcitrull ine levels Gamma-	GCST90200185	2	22922125	A	C	8163	0.24	0.05	0.00	0.00	23.11
rs1313566	glutamylcitrull ine levels Gamma-	GCST90200185	2	27526037	A	G	8163	0.07	0.02	0.00	0.00	21.06
rs77577361	glutamylcitrull ine levels Gamma-	GCST90200185	2	52081390	A	G	8163	-0.19	0.04	0.00	0.00	22.69
rs10184886	glutamylcitrull ine levels Gamma-	GCST90200185	2	123991318	A	G	8163	-0.10	0.02	0.00	0.00	22.57
rs3732055	glutamylcitrull ine levels Gamma-	GCST90200185	2	210469984	C	A	8163	0.10	0.02	0.00	0.01	41.23
rs7639882	glutamylcitrull ine levels Gamma-	GCST90200185	3	16943780	T	C	8163	-0.09	0.02	0.00	0.00	24.96
rs7612314	glutamylcitrull ine levels Gamma-	GCST90200185	3	74746034	C	G	8163	0.07	0.02	0.00	0.00	23.24
rs56032645	glutamylcitrull ine levels Gamma-	GCST90200185	3	122872935	C	A	8163	-0.15	0.03	0.00	0.00	23.09
rs14330960 0	glutamylcitrull ine levels Gamma-	GCST90200185	5	17717724	C	A	8163	-1.14	0.26	0.00	0.00	19.59
rs6866203	glutamylcitrull ine levels Gamma-	GCST90200185	5	124982848	T	C	8163	0.08	0.02	0.00	0.00	20.94
rs76094274	glutamylcitrull ine levels Gamma-	GCST90200185	5	145477442	G	A	8163	-0.14	0.03	0.00	0.00	20.20
rs72830003	glutamylcitrull ine levels Gamma-	GCST90200185	6	12257880	T	C	8163	0.19	0.04	0.00	0.00	21.28
rs14644003 1	glutamylcitrull ine levels Gamma-	GCST90200185	6	150879498	G	A	8163	0.11	0.02	0.00	0.00	21.42
rs17144483	glutamylcitrull ine levels Gamma-	GCST90200185	7	21470127	C	T	8163	-0.21	0.04	0.00	0.00	25.10
rs73142873	glutamylcitrull ine levels Gamma-	GCST90200185	7	65310230	A	C	8163	0.18	0.04	0.00	0.00	20.09
rs4875227	glutamylcitrull ine levels Gamma-	GCST90200185	8	6097665	G	C	8163	-0.23	0.05	0.00	0.00	19.55
rs17536777	glutamylcitrull ine levels Gamma-	GCST90200185	8	6425958	G	A	8163	-0.12	0.02	0.00	0.00	31.69
rs14288477 5	glutamylcitrull ine levels Gamma-	GCST90200185	9	4764601	T	C	8163	-0.16	0.03	0.00	0.00	21.36
rs11789634	glutamylcitrull ine levels Gamma-	GCST90200185	9	101911263	T	C	8163	-0.09	0.02	0.00	0.00	21.12
rs10901047	glutamylcitrull ine levels Gamma-	GCST90200185	9	130448288	C	T	8163	0.10	0.02	0.00	0.00	35.00
rs2933243	glutamylcitrull ine levels Gamma-	GCST90200185	12	56466793	A	G	8163	-0.10	0.02	0.00	0.00	25.25
rs73607053	glutamylcitrull ine levels	GCST90200185	13	109669356	G	T	8163	-0.17	0.04	0.00	0.00	22.50

rs2693467	Gamma-glutamylcitru line levels	GCST90200185	15	52403871	C	T	8163	-0.13	0.03	0.00	0.00	25.00
rs35594	Gamma-glutamylcitru line levels	GCST90200185	16	16055069	A	G	8163	-0.12	0.02	0.00	0.01	43.98
rs72818836	Gamma-glutamylcitru line levels	GCST90200185	16	79229254	G	A	8163	-0.24	0.05	0.00	0.00	20.53
rs34173160	Gamma-glutamylcitru line levels	GCST90200185	19	13373023	C	T	8163	0.12	0.03	0.00	0.00	20.50
rs6106592	Gamma-glutamylcitru line levels	GCST90200185	20	23017997	T	C	8163	0.11	0.02	0.00	0.00	20.12
rs11590237	8-methoxykynur enate levels	GCST90200186	1	201639802	G	C	6938	0.12	0.03	0.00	0.00	20.41
rs12755613	8-methoxykynur enate levels	GCST90200186	1	242963453	A	G	6938	0.08	0.02	0.00	0.00	19.91
rs4148324	8-methoxykynur enate levels	GCST90200186	2	233764076	G	T	6938	0.11	0.02	0.00	0.01	35.92
rs62244402	8-methoxykynur enate levels	GCST90200186	3	31994922	A	C	6938	-0.19	0.04	0.00	0.00	21.79
rs150629880	8-methoxykynur enate levels	GCST90200186	3	67986314	A	G	6938	-0.41	0.09	0.00	0.00	20.43
rs6783893	8-methoxykynur enate levels	GCST90200186	3	80290124	C	T	6938	0.09	0.02	0.00	0.00	20.24
rs114534035	8-methoxykynur enate levels	GCST90200186	3	84698073	G	A	6938	-0.23	0.05	0.00	0.00	23.32
rs73251787	8-methoxykynur enate levels	GCST90200186	4	27066357	G	A	6938	0.13	0.03	0.00	0.00	20.34
rs67235003	8-methoxykynur enate levels	GCST90200186	4	31434713	G	A	6938	-0.10	0.02	0.00	0.00	22.22
rs2560611	8-methoxykynur enate levels	GCST90200186	5	117384045	T	C	6938	-0.15	0.03	0.00	0.00	22.75
rs10039028	8-methoxykynur enate levels	GCST90200186	5	133699061	G	C	6938	-0.09	0.02	0.00	0.00	19.62
rs6869382	8-methoxykynur enate levels	GCST90200186	5	145942508	T	C	6938	0.08	0.02	0.00	0.00	20.94
rs4464786	8-methoxykynur enate levels	GCST90200186	6	25695592	C	T	6938	0.10	0.02	0.00	0.00	34.78
rs9365507	8-methoxykynur enate levels	GCST90200186	6	162930781	G	A	6938	-0.08	0.02	0.00	0.00	19.79
rs138218402	8-methoxykynur enate levels	GCST90200186	7	994187	G	T	6938	-0.28	0.06	0.00	0.00	19.94
rs112372943	8-methoxykynur enate levels	GCST90200186	7	7746977	C	G	6938	0.14	0.03	0.00	0.00	19.58
rs139503849	8-methoxykynur enate levels	GCST90200186	7	138115353	A	G	6938	-0.43	0.10	0.00	0.00	20.02
rs150769889	8-methoxykynur enate levels	GCST90200186	7	148059747	T	C	6938	0.21	0.04	0.00	0.00	28.96
rs72790786	8-methoxykynur enate levels	GCST90200186	10	19163525	G	A	6938	0.12	0.03	0.00	0.00	20.22

rs56241897	8-methoxykynurenate levels	GCST90200186	11	86855442	T	C	6938	-0.16	0.03	0.00	0.00	25.12
rs117758483	8-methoxykynurenate levels	GCST90200186	12	19627219	A	G	6938	-0.18	0.04	0.00	0.00	19.54
rs59567925	8-methoxykynurenate levels	GCST90200186	12	94499115	A	G	6938	0.09	0.02	0.00	0.00	23.56
rs1711178	8-methoxykynurenate levels	GCST90200186	13	100730470	T	C	6938	0.12	0.03	0.00	0.00	21.11
rs10141997	8-methoxykynurenate levels	GCST90200186	14	99986323	A	C	6938	0.09	0.02	0.00	0.00	20.48
rs61372828	8-methoxykynurenate levels	GCST90200186	16	59631033	A	T	6938	0.56	0.12	0.00	0.00	21.94
rs73005543	8-methoxykynurenate levels	GCST90200186	19	8081673	C	T	6938	-0.39	0.09	0.00	0.00	20.17
rs10788817	Tetradecadienolate (14:2) levels	GCST90200187	1	151910380	G	C	8255	0.12	0.01	0.00	0.01	69.50
rs146629144	Tetradecadienolate (14:2) levels	GCST90200187	2	192598584	T	C	8255	0.21	0.04	0.00	0.00	22.03
rs72906474	Tetradecadienolate (14:2) levels	GCST90200187	3	47775517	T	G	8255	-0.07	0.02	0.00	0.00	22.34
rs7694943	Tetradecadienolate (14:2) levels	GCST90200187	4	188106189	A	T	8255	-0.08	0.02	0.00	0.00	21.43
rs698057	Tetradecadienolate (14:2) levels	GCST90200187	5	87824984	T	C	8255	0.21	0.04	0.00	0.00	25.41
rs116498185	Tetradecadienolate (14:2) levels	GCST90200187	5	139190262	T	C	8255	0.14	0.03	0.00	0.00	21.16
rs200257	Tetradecadienolate (14:2) levels	GCST90200187	6	50442969	T	C	8255	-0.12	0.02	0.00	0.00	22.43
rs197490	Tetradecadienolate (14:2) levels	GCST90200187	6	142741666	C	T	8255	-0.07	0.02	0.00	0.00	21.54
rs73118841	Tetradecadienolate (14:2) levels	GCST90200187	7	50704817	T	C	8255	0.25	0.06	0.00	0.00	20.48
rs1998757	Tetradecadienolate (14:2) levels	GCST90200187	10	98469749	C	G	8255	0.09	0.02	0.00	0.00	20.85
rs11052059	Tetradecadienolate (14:2) levels	GCST90200187	12	32540963	A	G	8255	0.15	0.03	0.00	0.00	22.44
rs117150448	Tetradecadienolate (14:2) levels	GCST90200187	12	100845602	C	A	8255	-0.26	0.06	0.00	0.00	21.08
rs9561312	Tetradecadienolate (14:2) levels	GCST90200187	13	93332280	A	G	8255	0.08	0.02	0.00	0.00	21.34
rs116885450	Tetradecadienolate (14:2) levels	GCST90200187	14	37588354	T	C	8255	-0.16	0.04	0.00	0.00	20.21
rs11626972	Tetradecadienolate (14:2) levels	GCST90200187	14	73566890	G	A	8255	-0.08	0.02	0.00	0.00	31.26
rs12628438	Tetradecadienolate (14:2) levels	GCST90200187	22	49609657	C	G	8255	-0.09	0.02	0.00	0.00	19.87
rs137959039	3-amino-2-piperidone levels	GCST90200188	1	178023857	T	A	8237	0.32	0.07	0.00	0.00	20.44

rs1986953	3-amino-2-piperidone levels	GCST90200188	2	19804063	C	T	8237	0.21	0.04	0.00	0.00	24.04
rs14849423	3-amino-2-piperidone levels	GCST90200188	2	46266837	T	G	8237	-0.15	0.03	0.00	0.00	19.54
rs1026029	3-amino-2-piperidone levels	GCST90200188	2	176200520	C	T	8237	0.15	0.03	0.00	0.00	20.23
rs141220721	3-amino-2-piperidone levels	GCST90200188	2	181572912	A	C	8237	0.34	0.07	0.00	0.00	22.64
rs13073206	3-amino-2-piperidone levels	GCST90200188	3	130220778	T	C	8237	0.10	0.02	0.00	0.00	20.51
rs2115477	3-amino-2-piperidone levels	GCST90200188	5	133501938	T	C	8237	-0.07	0.01	0.00	0.00	19.90
rs2246012	3-amino-2-piperidone levels	GCST90200188	6	131577068	C	T	8237	-0.09	0.02	0.00	0.00	19.72
rs6909739	3-amino-2-piperidone levels	GCST90200188	6	155181079	T	A	8237	0.09	0.02	0.00	0.00	20.69
rs112286139	3-amino-2-piperidone levels	GCST90200188	8	121939038	T	C	8237	-0.28	0.06	0.00	0.00	20.80
rs116883443	3-amino-2-piperidone levels	GCST90200188	9	81746071	A	G	8237	0.26	0.06	0.00	0.00	22.02
rs1031162	3-amino-2-piperidone levels	GCST90200188	10	9015987	T	C	8237	0.08	0.02	0.00	0.00	21.94
rs111243650	3-amino-2-piperidone levels	GCST90200188	10	23612184	A	G	8237	0.13	0.03	0.00	0.00	19.64
rs117924063	3-amino-2-piperidone levels	GCST90200188	10	62454882	T	C	8237	0.29	0.06	0.00	0.00	19.79
rs11244629	3-amino-2-piperidone levels	GCST90200188	10	124382239	G	A	8237	-0.12	0.02	0.00	0.01	47.07
rs118027874	3-amino-2-piperidone levels	GCST90200188	11	4249953	A	G	8237	0.15	0.03	0.00	0.00	19.75
rs34880135	3-amino-2-piperidone levels	GCST90200188	11	15799101	A	G	8237	0.08	0.02	0.00	0.00	23.41
rs1676531	3-amino-2-piperidone levels	GCST90200188	11	110320377	A	G	8237	0.08	0.02	0.00	0.00	20.74
rs10772906	3-amino-2-piperidone levels	GCST90200188	12	16207340	A	G	8237	0.07	0.01	0.00	0.00	21.05
rs10841762	3-amino-2-piperidone levels	GCST90200188	12	21221300	T	A	8237	-0.07	0.02	0.00	0.00	20.59
rs140531985	3-amino-2-piperidone levels	GCST90200188	16	537927	A	G	8237	0.31	0.07	0.00	0.00	19.76
rs8056893	3-amino-2-piperidone levels	GCST90200188	16	68270489	A	C	8237	-0.11	0.02	0.00	0.01	47.09
rs141300506	3-amino-2-piperidone levels	GCST90200188	17	1911209	A	G	8237	-0.29	0.06	0.00	0.00	22.05
rs150582767	3-amino-2-piperidone levels	GCST90200188	18	22401154	G	A	8237	0.64	0.13	0.00	0.00	23.17
rs79832779	3-amino-2-piperidone levels	GCST90200188	21	46142531	T	C	8237	0.24	0.05	0.00	0.00	20.45

rs18318341 4	3-amino-2-piperidone levels	GCST90200188	22	22672476	T	A	8237	0.49	0.11	0.00	0.00	21.81
rs2483250	Glucuronide of piperine metabolite	GCST90200189	1	3439841	C	A	6512	0.16	0.03	0.00	0.00	27.80
rs71304070	C17H21NO3 (3) levels	GCST90200189	3	177519019	C	A	6512	0.19	0.04	0.00	0.00	21.36
rs13127696	Glucuronide of piperine metabolite	GCST90200189	4	24654105	C	T	6512	-0.09	0.02	0.00	0.00	20.41
rs18586143 4	C17H21NO3 (3) levels	GCST90200189	5	62756772	T	C	6512	-0.52	0.11	0.00	0.00	21.63
rs6865320	Glucuronide of piperine metabolite	GCST90200189	5	113053094	C	G	6512	0.09	0.02	0.00	0.00	21.44
rs75387675	C17H21NO3 (3) levels	GCST90200189	5	148218042	A	T	6512	-0.14	0.03	0.00	0.00	20.21
rs10980640	Glucuronide of piperine metabolite	GCST90200189	9	110934869	A	G	6512	-0.13	0.03	0.00	0.00	20.51
rs75518436	C17H21NO3 (3) levels	GCST90200189	9	124108632	T	C	6512	-0.32	0.07	0.00	0.00	21.85
rs72789124	Glucuronide of piperine metabolite	GCST90200189	10	52377645	T	C	6512	-0.33	0.07	0.00	0.00	21.13
rs75482724	C17H21NO3 (3) levels	GCST90200189	10	90595883	T	C	6512	-0.29	0.06	0.00	0.00	23.91
rs15032088 8	Glucuronide of piperine metabolite	GCST90200189	11	6454646	T	C	6512	0.23	0.05	0.00	0.00	19.98
rs1405502	C17H21NO3 (3) levels	GCST90200189	12	79192319	C	T	6512	-0.09	0.02	0.00	0.00	22.67
rs73456188	Glucuronide of piperine metabolite	GCST90200189	13	38994255	T	A	6512	-0.18	0.04	0.00	0.00	19.73
rs14147180 5	C17H21NO3 (3) levels	GCST90200189	14	34371531	C	T	6512	1.64	0.35	0.00	0.00	21.99

rs56023457	Glucuronide of piperine metabolite C17H21NO3 (3) levels	GCST90200189	17	6143357	C	T	6512	-0.22	0.05	0.00	0.00	21.08
rs11348898 4	Glucuronide of piperine metabolite C17H21NO3 (3) levels	GCST90200189	17	69463386	A	T	6512	0.12	0.03	0.00	0.00	21.28
rs939543	Glucuronide of piperine metabolite C17H21NO3 (3) levels	GCST90200189	17	74796045	A	G	6512	0.08	0.02	0.00	0.00	19.60
rs74667313	Glucuronide of piperine metabolite C17H21NO3 (3) levels	GCST90200189	18	9747951	G	C	6512	-0.13	0.03	0.00	0.00	19.74
rs17059873	Glucuronide of piperine metabolite C17H21NO3 (3) levels	GCST90200189	18	76759872	T	C	6512	0.09	0.02	0.00	0.00	20.89
rs56138237	Glucuronide of piperine metabolite C17H21NO3 (3) levels	GCST90200189	19	21828090	G	A	6512	0.41	0.09	0.00	0.00	20.55
rs174695	Glucuronide of piperine metabolite C17H21NO3 (3) levels	GCST90200189	22	19959946	T	C	6512	-0.17	0.02	0.00	0.01	96.03
rs13899927 8	Dodecadienoat e (12:2) levels	GCST90200190	1	21700949	T	C	8244	0.21	0.05	0.00	0.00	21.58
rs4581316	Dodecadienoat e (12:2) levels	GCST90200190	1	91938734	A	C	8244	-0.14	0.03	0.00	0.00	19.61
rs2338201	Dodecadienoat e (12:2) levels	GCST90200190	1	151873174	C	G	8244	0.12	0.02	0.00	0.01	60.70
rs13961353 7	Dodecadienoat e (12:2) levels	GCST90200190	1	223030122	T	A	8244	-0.23	0.05	0.00	0.00	21.55
rs34648449	Dodecadienoat e (12:2) levels	GCST90200190	2	132880459	G	A	8244	-0.07	0.02	0.00	0.00	19.57
rs14862098 8	Dodecadienoat e (12:2) levels	GCST90200190	2	159434655	C	T	8244	0.28	0.06	0.00	0.00	21.38
rs74681450	Dodecadienoat e (12:2) levels	GCST90200190	4	30581843	A	G	8244	-0.19	0.04	0.00	0.00	23.77
rs15004153 0	Dodecadienoat e (12:2) levels	GCST90200190	4	36803219	T	G	8244	-0.13	0.03	0.00	0.00	23.19
rs13160457	Dodecadienoat e (12:2) levels	GCST90200190	5	59426423	A	G	8244	-0.08	0.02	0.00	0.00	19.58
rs698057	Dodecadienoat e (12:2) levels	GCST90200190	5	87824984	T	C	8244	0.22	0.04	0.00	0.00	26.33
rs9885352	Dodecadienoat e (12:2) levels	GCST90200190	5	116484680	T	C	8244	0.16	0.04	0.00	0.00	19.79
rs660560	Dodecadienoat e (12:2) levels	GCST90200190	6	4125707	G	A	8244	0.09	0.02	0.00	0.00	30.28
rs14742856 1	Dodecadienoat e (12:2) levels	GCST90200190	6	42298289	C	G	8244	-0.29	0.06	0.00	0.00	21.10
rs53010502 0	Dodecadienoat e (12:2) levels	GCST90200190	7	39324033	C	T	8244	-0.34	0.07	0.00	0.00	21.49
rs73118841	Dodecadienoat e (12:2) levels	GCST90200190	7	50704817	T	C	8244	0.26	0.06	0.00	0.00	20.46
rs12546439	Dodecadienoat e (12:2) levels	GCST90200190	8	663232	T	C	8244	-0.07	0.02	0.00	0.00	19.73
rs55723829	Dodecadienoat e (12:2) levels	GCST90200190	9	108641098	C	T	8244	-0.18	0.04	0.00	0.00	21.48
rs34097396	Dodecadienoat e (12:2) levels	GCST90200190	11	4572181	A	G	8244	-0.14	0.03	0.00	0.00	19.86
rs3088051	Dodecadienoat e (12:2) levels	GCST90200190	12	131922463	C	T	8244	-0.08	0.02	0.00	0.00	19.96

rs116885450	Dodecadienoate (12:2) levels	GCST90200190	14	37588354	T	C	8244	-0.18	0.04	0.00	0.00	22.20
rs146968042	Dodecadienoate (12:2) levels	GCST90200190	14	73569796	T	C	8244	-0.37	0.05	0.00	0.01	51.27
rs151154986	Dodecadienoate (12:2) levels	GCST90200190	14	73573432	A	G	8244	-0.60	0.04	0.00	0.02	191.47
rs117647504	Dodecadienoate (12:2) levels	GCST90200190	15	39489740	G	A	8244	-1.59	0.34	0.00	0.00	21.79
rs11644358	Dodecadienoate (12:2) levels	GCST90200190	16	2248696	A	G	8244	0.16	0.02	0.00	0.01	59.15
rs373563550	Dodecadienoate (12:2) levels	GCST90200190	22	16772326	T	C	8244	-0.44	0.10	0.00	0.00	19.89
rs17471780	N-lactoyl tyrosine levels	GCST90200191	1	22386590	T	C	6389	-0.09	0.02	0.00	0.00	22.23
rs139783923	N-lactoyl tyrosine levels	GCST90200191	1	150412392	A	G	6389	0.29	0.06	0.00	0.00	20.33
rs10735500	N-lactoyl tyrosine levels	GCST90200191	1	221447172	C	A	6389	0.32	0.07	0.00	0.00	22.78
rs77464353	N-lactoyl tyrosine levels	GCST90200191	4	160852807	T	C	6389	-0.17	0.04	0.00	0.00	20.71
rs539570	N-lactoyl tyrosine levels	GCST90200191	6	23950678	T	C	6389	-0.08	0.02	0.00	0.00	19.82
rs41314580	N-lactoyl tyrosine levels	GCST90200191	9	27172821	G	C	6389	-0.42	0.09	0.00	0.00	21.03
rs10869286	N-lactoyl tyrosine levels	GCST90200191	9	73787982	C	A	6389	-0.12	0.02	0.00	0.00	21.53
rs72759273	N-lactoyl tyrosine levels	GCST90200191	9	124211594	G	A	6389	-0.10	0.02	0.00	0.00	20.08
rs35279456	N-lactoyl tyrosine levels	GCST90200191	10	25711423	T	G	6389	-0.12	0.02	0.00	0.00	25.01
rs72804339	N-lactoyl tyrosine levels	GCST90200191	10	65648595	T	C	6389	-0.16	0.03	0.00	0.00	22.38
rs2429014	N-lactoyl tyrosine levels	GCST90200191	10	69044029	C	T	6389	0.14	0.03	0.00	0.00	19.59
rs72846620	N-lactoyl tyrosine levels	GCST90200191	10	100846576	C	T	6389	-0.13	0.03	0.00	0.00	19.80
rs187116	N-lactoyl tyrosine levels	GCST90200191	11	35144253	A	G	6389	0.08	0.02	0.00	0.00	19.76
rs74550334	N-lactoyl tyrosine levels	GCST90200191	12	90955356	A	G	6389	-0.24	0.05	0.00	0.00	21.64
rs116511904	N-lactoyl tyrosine levels	GCST90200191	12	130975722	A	G	6389	0.25	0.05	0.00	0.00	22.91
rs75509729	N-lactoyl tyrosine levels	GCST90200191	16	58171206	T	C	6389	-0.22	0.05	0.00	0.00	21.25
rs182328839	N-lactoyl tyrosine levels	GCST90200191	16	63194787	A	C	6389	-0.27	0.06	0.00	0.00	20.53
rs149541533	N-lactoyl tyrosine levels	GCST90200191	16	77769300	C	G	6389	0.41	0.09	0.00	0.00	20.78
rs73978891	N-lactoyl tyrosine levels	GCST90200191	17	13440967	A	G	6389	0.22	0.05	0.00	0.00	22.22
rs141568188	N-lactoyl tyrosine levels	GCST90200191	17	31818914	C	T	6389	-0.64	0.13	0.00	0.00	22.31
rs9908408	N-lactoyl tyrosine levels	GCST90200191	17	72864840	G	A	6389	-0.08	0.02	0.00	0.00	19.68
rs8107565	N-lactoyl tyrosine levels	GCST90200191	19	29660546	A	C	6389	0.34	0.07	0.00	0.00	23.25
rs11669387	N-lactoyl tyrosine levels	GCST90200191	19	33508591	T	C	6389	0.13	0.03	0.00	0.00	20.47
rs142543767	N-lactoyl tyrosine levels	GCST90200191	20	33808175	G	A	6389	0.19	0.04	0.00	0.00	20.02
rs113293470	N,N-dimethylalanine levels	GCST90200192	1	191091981	T	C	8219	0.28	0.06	0.00	0.00	21.30
rs12615923	N,N-dimethylalanine levels	GCST90200192	2	20195079	T	C	8219	0.07	0.02	0.00	0.00	21.88
rs114084050	N,N-dimethylalanine levels	GCST90200192	2	235402400	A	G	8219	0.40	0.08	0.00	0.00	24.40
rs17279437	N,N-dimethylalanine levels	GCST90200192	3	45772602	A	G	8219	0.22	0.03	0.00	0.01	74.10

rs113169096	N,N-dimethylalanine levels	GCST90200192	3	54895098	T	C	8219	0.19	0.04	0.00	0.00	20.80
rs147986546	N,N-dimethylalanine levels	GCST90200192	3	152811263	T	C	8219	-0.29	0.06	0.00	0.00	20.15
rs147429976	N,N-dimethylalanine levels	GCST90200192	4	131034377	G	A	8219	-0.35	0.08	0.00	0.00	20.57
rs377230658	N,N-dimethylalanine levels	GCST90200192	5	110236705	G	C	8219	0.30	0.07	0.00	0.00	19.85
rs36039116	N,N-dimethylalanine levels	GCST90200192	5	151460503	T	G	8219	0.12	0.02	0.00	0.01	50.11
rs9468306	N,N-dimethylalanine levels	GCST90200192	6	28191962	A	G	8219	-0.32	0.07	0.00	0.00	19.85
rs116980605	N,N-dimethylalanine levels	GCST90200192	6	104931120	C	T	8219	0.23	0.04	0.00	0.00	28.68
rs9457500	N,N-dimethylalanine levels	GCST90200192	6	158887247	T	C	8219	-0.17	0.04	0.00	0.00	20.54
rs66915391	N,N-dimethylalanine levels	GCST90200192	6	170039903	C	T	8219	0.09	0.02	0.00	0.00	24.73
rs112176615	N,N-dimethylalanine levels	GCST90200192	8	6268916	T	C	8219	-0.15	0.03	0.00	0.00	22.27
rs144931742	N,N-dimethylalanine levels	GCST90200192	9	86889057	T	C	8219	0.22	0.04	0.00	0.00	27.53
rs12356193	N,N-dimethylalanine levels	GCST90200192	10	59653595	G	A	8219	-0.14	0.02	0.00	0.01	44.73
rs860081	N,N-dimethylalanine levels	GCST90200192	10	88675831	A	T	8219	0.31	0.06	0.00	0.00	30.35
rs11017446	N,N-dimethylalanine levels	GCST90200192	10	127005713	T	C	8219	0.15	0.03	0.00	0.00	25.36
rs12362685	N,N-dimethylalanine levels	GCST90200192	11	111607996	T	A	8219	-0.08	0.02	0.00	0.00	21.80
rs11834139	N,N-dimethylalanine levels	GCST90200192	12	52790775	T	C	8219	-0.08	0.02	0.00	0.00	20.02
rs183471677	N,N-dimethylalanine levels	GCST90200192	15	83480260	C	T	8219	0.54	0.10	0.00	0.00	27.91
rs9926627	N,N-dimethylalanine levels	GCST90200192	16	82491866	T	C	8219	0.11	0.02	0.00	0.00	21.00
rs75715508	N,N-dimethylalanine levels	GCST90200192	17	5960119	A	T	8219	0.56	0.12	0.00	0.00	21.98
rs644173	N,N-dimethylalanine levels	GCST90200192	17	39274266	C	T	8219	-0.10	0.02	0.00	0.00	32.15
rs76831364	N,N-dimethylalanine levels	GCST90200192	19	30859088	T	C	8219	-0.12	0.03	0.00	0.00	20.26
rs148094087	N,N-dimethylalanine levels	GCST90200192	19	44734131	C	T	8219	-0.39	0.08	0.00	0.00	21.39
rs62201809	N,N-dimethylalanine levels	GCST90200192	20	4674813	T	C	8219	0.12	0.03	0.00	0.00	21.57
rs4492606	Ethyl beta-glucopyranoside levels	GCST90200193	1	237400688	G	T	8152	-0.07	0.02	0.00	0.00	21.16

rs2098835	Ethyl beta-glucopyranoside levels	GCST90200193	2	105924736	A	G	8152	0.09	0.02	0.00	0.00	20.78
rs181558	Ethyl beta-glucopyranoside levels	GCST90200193	4	22815619	G	A	8152	-0.52	0.02	0.00	0.07	586.92
rs114689365	Ethyl beta-glucopyranoside levels	GCST90200193	5	84820427	C	G	8152	0.17	0.04	0.00	0.00	21.03
rs2910121	Ethyl beta-glucopyranoside levels	GCST90200193	5	178379838	A	G	8152	-0.08	0.02	0.00	0.00	20.31
rs11775549	Ethyl beta-glucopyranoside levels	GCST90200193	8	23771768	A	G	8152	0.17	0.04	0.00	0.00	22.31
rs117593803	Ethyl beta-glucopyranoside levels	GCST90200193	8	62455676	A	G	8152	-0.42	0.09	0.00	0.00	21.06
rs76628096	Ethyl beta-glucopyranoside levels	GCST90200193	8	93227749	A	G	8152	0.36	0.08	0.00	0.00	20.03
rs145072060	Ethyl beta-glucopyranoside levels	GCST90200193	8	104754814	G	C	8152	0.27	0.06	0.00	0.00	20.59
rs2116081	Ethyl beta-glucopyranoside levels	GCST90200193	8	124685432	C	T	8152	-0.07	0.02	0.00	0.00	20.60
rs117323470	Ethyl beta-glucopyranoside levels	GCST90200193	9	29886797	C	T	8152	-0.44	0.09	0.00	0.00	23.59
rs45479998	Ethyl beta-glucopyranoside levels	GCST90200193	10	15358866	C	A	8152	0.20	0.04	0.00	0.00	20.12
rs61862797	Ethyl beta-glucopyranoside levels	GCST90200193	10	132649660	A	G	8152	-0.37	0.08	0.00	0.00	23.16
rs73086173	Ethyl beta-glucopyranoside levels	GCST90200193	12	30067553	T	A	8152	0.28	0.06	0.00	0.00	21.74
rs1515899	Ethyl beta-glucopyranoside levels	GCST90200193	12	59209444	T	A	8152	0.08	0.02	0.00	0.00	21.00
rs73215891	Ethyl beta-glucopyranoside levels	GCST90200193	12	92192705	C	T	8152	0.09	0.02	0.00	0.00	20.01
rs4556833	Ethyl beta-glucopyranoside levels	GCST90200193	17	53567083	C	A	8152	-0.08	0.02	0.00	0.00	25.43
rs144130002	Ethyl beta-glucopyranoside levels	GCST90200193	18	40740740	C	T	8152	0.35	0.07	0.00	0.00	23.20
rs7243391	Ethyl beta-glucopyranoside levels	GCST90200193	18	77310105	T	C	8152	-0.07	0.02	0.00	0.00	22.39
rs143142354	Ethyl beta-glucopyranoside levels	GCST90200193	19	2990749	G	C	8152	-0.32	0.07	0.00	0.00	20.19
rs10924103	N-lactoyl phenylalanine levels	GCST90200194	1	116493929	G	A	8223	-0.09	0.02	0.00	0.00	20.18
rs62149804	N-lactoyl phenylalanine levels	GCST90200194	2	73609879	A	T	8223	-0.09	0.02	0.00	0.00	19.75
rs7563530	N-lactoyl phenylalanine levels	GCST90200194	2	217774436	T	C	8223	-0.07	0.01	0.00	0.00	21.69
rs79856597	N-lactoyl phenylalanine levels	GCST90200194	3	66089463	T	C	8223	-0.08	0.02	0.00	0.00	20.49
rs9313052	N-lactoyl phenylalanine levels	GCST90200194	5	3538648	C	G	8223	0.07	0.02	0.00	0.00	21.52

rs2231478	N-lactoyl phenylalanine levels	GCST90200194	5	138192228	G	C	8223	-0.08	0.02	0.00	0.00	20.98
rs116300679	N-lactoyl phenylalanine levels	GCST90200194	5	160646451	G	C	8223	-0.24	0.05	0.00	0.00	22.28
rs539570	N-lactoyl phenylalanine levels	GCST90200194	6	23950678	T	C	8223	-0.08	0.02	0.00	0.00	22.04
rs10229445	N-lactoyl phenylalanine levels	GCST90200194	7	38853414	G	T	8223	-0.11	0.03	0.00	0.00	19.88
rs2935755	N-lactoyl phenylalanine levels	GCST90200194	8	108651880	A	G	8223	0.10	0.02	0.00	0.00	19.92
rs7027736	N-lactoyl phenylalanine levels	GCST90200194	9	76088157	A	G	8223	0.35	0.08	0.00	0.00	19.75
rs1111288	N-lactoyl phenylalanine levels	GCST90200194	10	98583818	T	C	8223	-0.07	0.02	0.00	0.00	20.20
rs17769668	N-lactoyl phenylalanine levels	GCST90200194	11	102331439	C	G	8223	0.16	0.03	0.00	0.00	25.44
rs10746203	N-lactoyl phenylalanine levels	GCST90200194	12	81770758	G	T	8223	0.07	0.02	0.00	0.00	20.34
rs138799908	N-lactoyl phenylalanine levels	GCST90200194	14	33265577	G	A	8223	0.23	0.05	0.00	0.00	20.36
rs75509729	N-lactoyl phenylalanine levels	GCST90200194	16	58171206	T	C	8223	-0.19	0.04	0.00	0.00	21.46
rs112105024	N-lactoyl phenylalanine levels	GCST90200194	17	72747350	T	C	8223	0.16	0.03	0.00	0.00	24.96
rs3844442	N-lactoyl phenylalanine levels	GCST90200194	19	40909207	A	T	8223	-0.07	0.02	0.00	0.00	20.96
rs11166064	N-acetyl- isoputresnine levels	GCST90200195	1	98666559	A	G	8236	-0.14	0.03	0.00	0.00	21.46
rs12408101	N-acetyl- isoputresnine levels	GCST90200195	1	165698544	G	T	8236	-0.10	0.02	0.00	0.00	34.42
rs6548220	N-acetyl- isoputresnine levels	GCST90200195	2	225951	G	A	8236	-0.08	0.02	0.00	0.00	22.32
rs62153404	N-acetyl- isoputresnine levels	GCST90200195	2	105680089	A	G	8236	0.23	0.05	0.00	0.00	21.49
rs188210315	N-acetyl- isoputresnine levels	GCST90200195	2	151222358	A	G	8236	0.30	0.06	0.00	0.00	21.76
rs1965791	N-acetyl- isoputresnine levels	GCST90200195	2	222231990	C	G	8236	0.09	0.02	0.00	0.00	19.55
rs2741034	N-acetyl- isoputresnine levels	GCST90200195	2	233640168	G	A	8236	-0.08	0.02	0.00	0.00	21.09
rs1901764	N-acetyl- isoputresnine levels	GCST90200195	2	236113518	C	A	8236	0.11	0.02	0.00	0.00	20.34
rs73074139	N-acetyl- isoputresnine levels	GCST90200195	3	46120848	T	G	8236	-0.38	0.08	0.00	0.00	23.74
rs16894602	N-acetyl- isoputresnine levels	GCST90200195	4	17192028	G	C	8236	-0.12	0.02	0.00	0.00	23.50
rs17739054	N-acetyl- isoputresnine levels	GCST90200195	5	173604150	T	C	8236	-0.29	0.06	0.00	0.00	21.53

rs12192153	N-acetyl- isoptureanine levels	GCST90200195	6	92025772	G	C	8236	-0.07	0.02	0.00	0.00	21.51
rs35192726	N-acetyl- isoptureanine levels	GCST90200195	6	148317920	T	G	8236	0.09	0.02	0.00	0.00	20.39
rs12208357	N-acetyl- isoptureanine levels	GCST90200195	6	160122116	T	C	8236	0.22	0.03	0.00	0.01	57.21
rs11753995	N-acetyl- isoptureanine levels	GCST90200195	6	160154334	A	G	8236	0.14	0.02	0.00	0.01	48.23
rs62492368	N-acetyl- isoptureanine levels	GCST90200195	7	150840547	A	G	8236	0.32	0.02	0.00	0.05	404.02
rs4725969	N-acetyl- isoptureanine levels	GCST90200195	7	150861427	T	C	8236	-0.23	0.02	0.00	0.02	205.24
rs7846483	N-acetyl- isoptureanine levels	GCST90200195	8	25201203	A	G	8236	-0.15	0.03	0.00	0.00	20.46
rs72660905	N-acetyl- isoptureanine levels	GCST90200195	8	61764160	G	A	8236	0.20	0.04	0.00	0.00	20.77
rs2792818	N-acetyl- isoptureanine levels	GCST90200195	9	113396819	T	C	8236	-0.09	0.02	0.00	0.00	21.91
rs13855528 9	N-acetyl- isoptureanine levels	GCST90200195	10	69482552	T	C	8236	0.40	0.09	0.00	0.00	20.12
rs41299175	N-acetyl- isoptureanine levels	GCST90200195	10	133167351	T	C	8236	0.11	0.02	0.00	0.00	25.79
rs11101646	N-acetyl- isoptureanine levels	GCST90200195	10	133216936	A	G	8236	0.08	0.02	0.00	0.00	22.79
rs4838735	N-acetyl- isoptureanine levels	GCST90200195	10	133382797	A	C	8236	-0.25	0.02	0.00	0.03	218.57
rs13847842 5	N-acetyl- isoptureanine levels	GCST90200195	11	4444995	C	T	8236	-0.30	0.07	0.00	0.00	19.85
rs72670018	N-acetyl- isoptureanine levels	GCST90200195	13	111145560	T	G	8236	0.14	0.03	0.00	0.00	20.00
rs72673008	N-acetyl- isoptureanine levels	GCST90200195	14	43459975	C	T	8236	0.13	0.03	0.00	0.00	20.57
rs14894024 1	N-acetyl- isoptureanine levels	GCST90200195	14	56363660	C	T	8236	0.34	0.08	0.00	0.00	19.72
rs7167232	N-acetyl- isoptureanine levels	GCST90200195	15	35905969	C	T	8236	0.07	0.02	0.00	0.00	19.70
rs76945699	N-acetyl- isoptureanine levels	GCST90200195	15	37144853	A	G	8236	-0.16	0.04	0.00	0.00	20.45
rs1026751	N-acetyl- isoptureanine levels	GCST90200195	15	94699329	A	C	8236	-0.08	0.02	0.00	0.00	21.05
rs19229939 1	N-acetyl- isoptureanine levels	GCST90200195	16	88632978	G	C	8236	-0.16	0.04	0.00	0.00	19.65
rs10445262	N-acetyl- isoptureanine levels	GCST90200195	17	5039881	G	A	8236	-0.15	0.02	0.00	0.01	76.11
rs56075621	N-acetyl- isoptureanine levels	GCST90200195	17	13431274	A	T	8236	0.13	0.03	0.00	0.00	23.64
rs11871125	N-acetyl- isoptureanine levels	GCST90200195	17	19529080	T	C	8236	0.07	0.02	0.00	0.00	22.29

rs62080276	N-acetyl- isoptureanine levels	GCST90200195	17	43892977	T	G	8236	-0.11	0.02	0.00	0.00	19.66
rs3746804	N-acetyl- isoptureanine levels	GCST90200195	20	763771	A	G	8236	0.10	0.02	0.00	0.00	28.21
rs11912100	N-acetyl- isoptureanine levels	GCST90200195	22	49109008	A	G	8236	0.07	0.02	0.00	0.00	19.98
rs7526892	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	1	7491395	A	G	7397	-0.12	0.03	0.00	0.00	21.11
rs4578820	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	2	167981258	A	C	7397	0.09	0.02	0.00	0.00	28.01
rs1420509	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	3	34717993	G	A	7397	0.14	0.03	0.00	0.00	22.33
rs35282325	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	4	23869969	G	A	7397	0.11	0.02	0.00	0.00	20.58
rs11744583	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	5	179216568	G	A	7397	-0.14	0.03	0.00	0.00	30.36
rs78932873	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	6	121820489	T	C	7397	-0.25	0.05	0.00	0.00	21.03
rs20008936 3	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	7	50573040	G	A	7397	0.08	0.02	0.00	0.00	19.60
rs11987768	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	8	134145236	A	G	7397	-0.08	0.02	0.00	0.00	19.79
rs2913139	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	10	79675610	A	T	7397	-0.11	0.02	0.00	0.00	22.23
rs78150350	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	10	97722103	A	G	7397	0.10	0.02	0.00	0.00	20.29
rs11146276	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	10	132260883	C	T	7397	0.08	0.02	0.00	0.00	21.42
rs14485416 3	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	11	44596935	A	G	7397	-0.39	0.09	0.00	0.00	19.72
rs499001	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	11	95123800	T	G	7397	-0.20	0.04	0.00	0.00	20.68
rs15076266 1	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	11	116474554	C	A	7397	-0.14	0.03	0.00	0.00	19.78
rs4842757	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	12	91312059	G	A	7397	0.15	0.03	0.00	0.00	20.68
rs18424631 8	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	13	51040193	C	T	7397	-0.25	0.05	0.00	0.00	20.29

rs11207084 4	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	16	60271573	C	G	7397	-0.27	0.06	0.00	0.00	23.00
rs79378615	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	18	67867594	G	C	7397	0.34	0.07	0.00	0.00	26.03
rs14102580 4	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	20	32463985	A	G	7397	0.34	0.08	0.00	0.00	19.51
rs4919937	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	21	41722509	C	G	7397	0.17	0.04	0.00	0.00	24.63
rs131031	2,2'- Methylenebis(6-tert-butyl-p- cresol) levels	GCST90200196	22	48784723	G	A	7397	0.08	0.02	0.00	0.00	21.37
rs79887513	N-lactoyl isoleucine levels	GCST90200197	1	54433137	A	G	7526	0.25	0.06	0.00	0.00	19.53
rs54339541 8	N-lactoyl isoleucine levels	GCST90200197	2	130451812	C	G	7526	-0.25	0.06	0.00	0.00	20.99
rs11208802 8	N-lactoyl isoleucine levels	GCST90200197	2	157916604	C	G	7526	-0.13	0.03	0.00	0.00	21.18
rs11615588 6	N-lactoyl isoleucine levels	GCST90200197	3	16177736	T	C	7526	0.35	0.08	0.00	0.00	20.56
rs17407324	N-lactoyl isoleucine levels	GCST90200197	4	10271419	A	C	7526	0.08	0.02	0.00	0.00	20.86
rs539570	N-lactoyl isoleucine levels	GCST90200197	6	23950678	T	C	7526	-0.08	0.02	0.00	0.00	22.50
rs11696063 7	N-lactoyl isoleucine levels	GCST90200197	7	3701586	A	G	7526	0.26	0.06	0.00	0.00	20.31
rs1859935	N-lactoyl isoleucine levels	GCST90200197	7	78686765	G	A	7526	-0.08	0.02	0.00	0.00	20.72
rs79946102	N-lactoyl isoleucine levels	GCST90200197	7	79673996	A	C	7526	0.15	0.03	0.00	0.00	23.59
rs298193	N-lactoyl isoleucine levels	GCST90200197	8	64363647	T	G	7526	0.08	0.02	0.00	0.00	19.60
rs77627260	N-lactoyl isoleucine levels	GCST90200197	9	117527864	T	C	7526	-0.14	0.03	0.00	0.00	22.55
rs35501788	N-lactoyl isoleucine levels	GCST90200197	10	28978296	T	G	7526	0.19	0.04	0.00	0.00	20.13
rs57577949	N-lactoyl isoleucine levels	GCST90200197	11	68444472	G	A	7526	-0.09	0.02	0.00	0.00	20.03
rs80200860	N-lactoyl isoleucine levels	GCST90200197	14	34377729	G	A	7526	-0.19	0.04	0.00	0.00	22.17
rs12879834	N-lactoyl isoleucine levels	GCST90200197	14	95029254	A	G	7526	-0.08	0.02	0.00	0.00	20.69
rs75509729	N-lactoyl isoleucine levels	GCST90200197	16	58171206	T	C	7526	-0.21	0.04	0.00	0.00	23.04
rs14293731 1	N-lactoyl isoleucine levels	GCST90200197	17	53953711	C	T	7526	-0.36	0.08	0.00	0.00	20.60
rs14959218 7	2- hydroxysebac ate levels	GCST90200198	1	33310176	A	G	7865	-0.10	0.02	0.00	0.00	20.16

rs1126742	2-hydroxysebaca te levels	GCST90200198	1	46932824	G	A	7865	-0.19	0.02	0.00	0.01	65.64
rs14192283 6	2-hydroxysebaca te levels	GCST90200198	2	154947812	A	G	7865	-0.15	0.03	0.00	0.00	19.74
rs74637339	2-hydroxysebaca te levels	GCST90200198	3	15586533	A	T	7865	0.36	0.03	0.00	0.01	111.52
rs1631754	2-hydroxysebaca te levels	GCST90200198	3	116516335	A	G	7865	0.09	0.02	0.00	0.00	24.43
rs73871713	2-hydroxysebaca te levels	GCST90200198	3	141095284	G	T	7865	0.14	0.03	0.00	0.00	19.57
rs78675386	2-hydroxysebaca te levels	GCST90200198	4	114369159	A	T	7865	0.28	0.06	0.00	0.00	20.57
rs6889988	2-hydroxysebaca te levels	GCST90200198	5	157486703	C	T	7865	-0.12	0.03	0.00	0.00	19.94
rs14178160 5	2-hydroxysebaca te levels	GCST90200198	6	22894779	A	T	7865	-0.34	0.07	0.00	0.00	22.69
rs7747026	2-hydroxysebaca te levels	GCST90200198	6	124544622	C	G	7865	-0.09	0.02	0.00	0.00	19.55
rs77035933	2-hydroxysebaca te levels	GCST90200198	8	64252197	A	G	7865	0.28	0.06	0.00	0.00	20.07
rs2779500	2-hydroxysebaca te levels	GCST90200198	9	14846038	G	C	7865	-0.09	0.02	0.00	0.00	29.96
rs10905278	2-hydroxysebaca te levels	GCST90200198	10	8057860	A	G	7865	-0.15	0.03	0.00	0.00	21.24
rs11113820	2-hydroxysebaca te levels	GCST90200198	12	108325401	C	T	7865	0.18	0.04	0.00	0.00	22.03
rs14721789 2	2-hydroxysebaca te levels	GCST90200198	15	29349928	G	A	7865	-0.15	0.03	0.00	0.00	21.36
rs11076786	2-hydroxysebaca te levels	GCST90200198	16	3761595	T	C	7865	0.12	0.03	0.00	0.00	20.32
rs11646394	2-hydroxysebaca te levels	GCST90200198	16	88745871	A	C	7865	-0.11	0.02	0.00	0.00	20.39
rs14932802 2	2-hydroxysebaca te levels	GCST90200198	17	9866811	C	T	7865	0.24	0.05	0.00	0.00	22.82
rs9953847	2-hydroxysebaca te levels	GCST90200198	18	75018590	G	A	7865	0.27	0.06	0.00	0.00	21.47
rs77203130	2-hydroxysebaca te levels	GCST90200198	21	36112424	C	T	7865	0.33	0.07	0.00	0.00	22.72
rs11678528	Ascorbic acid 3-sulfate levels	GCST90200199	2	227220877	G	A	8186	-0.09	0.02	0.00	0.00	25.52
rs4855530	Ascorbic acid 3-sulfate levels	GCST90200199	3	68861652	T	C	8186	-0.09	0.02	0.00	0.00	21.31
rs11716856	Ascorbic acid 3-sulfate levels	GCST90200199	3	192895972	A	C	8186	-0.12	0.02	0.00	0.00	23.23
rs12517665	Ascorbic acid 3-sulfate levels	GCST90200199	5	1128621	A	G	8186	0.09	0.02	0.00	0.00	21.71
rs11744692	Ascorbic acid 3-sulfate levels	GCST90200199	5	7342163	A	G	8186	-0.08	0.02	0.00	0.00	20.56
rs14706221 0	Ascorbic acid 3-sulfate levels	GCST90200199	5	95803126	C	T	8186	0.48	0.10	0.00	0.00	21.20
rs62381245	Ascorbic acid 3-sulfate levels	GCST90200199	5	139128824	A	G	8186	-0.20	0.04	0.00	0.00	26.63
rs79943932	Ascorbic acid 3-sulfate levels	GCST90200199	5	164900354	C	G	8186	0.78	0.17	0.00	0.00	21.43

rs11544558	Ascorbic acid 3-sulfate levels	GCST90200199	5	180808737	A	C	8186	-0.13	0.03	0.00	0.00	21.16
rs9376002	Ascorbic acid 3-sulfate levels	GCST90200199	6	134011330	C	A	8186	-0.11	0.02	0.00	0.00	29.34
rs7794132	Ascorbic acid 3-sulfate levels	GCST90200199	7	39502974	C	G	8186	-0.07	0.02	0.00	0.00	22.66
rs13228078	Ascorbic acid 3-sulfate levels	GCST90200199	7	86611375	C	A	8186	-0.08	0.02	0.00	0.00	20.43
rs2256629	Ascorbic acid 3-sulfate levels	GCST90200199	8	11634339	G	A	8186	-0.07	0.02	0.00	0.00	20.36
rs55983804	Ascorbic acid 3-sulfate levels	GCST90200199	8	13052037	A	G	8186	-0.21	0.04	0.00	0.00	22.53
rs11805547 5	Ascorbic acid 3-sulfate levels	GCST90200199	12	11935124	G	A	8186	-0.30	0.07	0.00	0.00	20.20
rs7315300	Ascorbic acid 3-sulfate levels	GCST90200199	12	15457359	A	T	8186	-0.07	0.02	0.00	0.00	22.21
rs14396754 2	Ascorbic acid 3-sulfate levels	GCST90200199	12	62498697	G	C	8186	0.23	0.05	0.00	0.00	19.66
rs18363454 8	Ascorbic acid 3-sulfate levels	GCST90200199	15	89302335	G	C	8186	0.32	0.07	0.00	0.00	22.76
rs12448270	Ascorbic acid 3-sulfate levels	GCST90200199	16	28529803	T	C	8186	0.20	0.04	0.00	0.00	30.30
rs11806464 7	Ascorbic acid 3-sulfate levels	GCST90200199	16	28547123	G	A	8186	0.34	0.06	0.00	0.00	32.81
rs968675	Ascorbic acid 3-sulfate levels	GCST90200199	18	77628029	A	T	8186	0.10	0.02	0.00	0.00	20.58
rs418062	Ascorbic acid 3-sulfate levels	GCST90200199	20	5074492	G	A	8186	0.08	0.02	0.00	0.00	28.12
rs11263841	N-lactoyl valine levels	GCST90200200	1	34843708	T	C	8133	0.13	0.03	0.00	0.00	20.33
rs911246	N-lactoyl valine levels	GCST90200200	1	56838346	A	G	8133	-0.08	0.02	0.00	0.00	21.03
rs7561642	N-lactoyl valine levels	GCST90200200	2	145383679	G	A	8133	-0.09	0.02	0.00	0.00	22.65
rs18076728 4	N-lactoyl valine levels	GCST90200200	4	187919897	T	C	8133	-0.18	0.04	0.00	0.00	23.66
rs9313052	N-lactoyl valine levels	GCST90200200	5	3538648	C	G	8133	0.09	0.02	0.00	0.00	38.25
rs13169821	N-lactoyl valine levels	GCST90200200	5	101962973	T	C	8133	-0.15	0.03	0.00	0.00	19.68
rs72792461	N-lactoyl valine levels	GCST90200200	5	119875784	A	G	8133	0.08	0.02	0.00	0.00	20.82
rs1003260	N-lactoyl valine levels	GCST90200200	6	71707840	A	G	8133	0.09	0.02	0.00	0.00	21.30
rs72759271	N-lactoyl valine levels	GCST90200200	9	124210185	G	C	8133	-0.09	0.02	0.00	0.00	21.25
rs57577949	N-lactoyl valine levels	GCST90200200	11	68444472	G	A	8133	-0.09	0.02	0.00	0.00	22.30
rs17769668	N-lactoyl valine levels	GCST90200200	11	102331439	C	G	8133	0.15	0.03	0.00	0.00	21.31
rs14608577 9	N-lactoyl valine levels	GCST90200200	14	33557956	G	A	8133	-0.20	0.04	0.00	0.00	21.35
rs2693467	N-lactoyl valine levels	GCST90200200	15	52403871	C	T	8133	0.11	0.02	0.00	0.00	22.13
rs4786944	N-lactoyl valine levels	GCST90200200	16	6884601	T	C	8133	-0.26	0.06	0.00	0.00	20.40
rs75509729	N-lactoyl valine levels	GCST90200200	16	58171206	T	C	8133	-0.19	0.04	0.00	0.00	20.13
rs11669387	N-lactoyl valine levels	GCST90200200	19	33508591	T	C	8133	0.12	0.03	0.00	0.00	21.05
rs6517867	N-lactoyl valine levels	GCST90200200	21	19409976	T	G	8133	-0.07	0.02	0.00	0.00	21.07
rs20139731 2	N-lactoyl valine levels	GCST90200200	22	24647031	G	A	8133	-0.86	0.18	0.00	0.00	23.36
rs11162315	bromotryptop han levels	GCST90200201	1	74974039	C	A	8214	-0.08	0.02	0.00	0.00	20.48
rs11264341	bromotryptop han levels	GCST90200201	1	155179017	T	C	8214	-0.07	0.02	0.00	0.00	22.09
rs72908237	bromotryptop han levels	GCST90200201	2	172877651	A	C	8214	-0.33	0.07	0.00	0.00	21.64

rs28496399	6-bromotryptophan levels	GCST90200201	4	3804020	C	T	8214	0.22	0.05	0.00	0.00	21.73
rs1460157	6-bromotryptophan levels	GCST90200201	4	136763307	T	C	8214	-0.08	0.02	0.00	0.00	20.47
rs6883412	6-bromotryptophan levels	GCST90200201	5	1093746	T	C	8214	0.08	0.02	0.00	0.00	21.42
rs1165181	6-bromotryptophan levels	GCST90200201	6	25825162	A	T	8214	-0.14	0.02	0.00	0.01	65.41
rs117268335	6-bromotryptophan levels	GCST90200201	6	82375852	G	C	8214	-0.22	0.04	0.00	0.00	24.74
rs14399	6-bromotryptophan levels	GCST90200201	6	111222741	A	C	8214	0.07	0.02	0.00	0.00	22.16
rs73578686	6-bromotryptophan levels	GCST90200201	6	143393995	A	C	8214	-0.32	0.07	0.00	0.00	21.79
rs10228471	6-bromotryptophan levels	GCST90200201	7	148570962	T	A	8214	-0.08	0.02	0.00	0.00	23.81
rs3808477	6-bromotryptophan levels	GCST90200201	8	115658120	T	C	8214	0.08	0.02	0.00	0.00	20.31
rs4323559	6-bromotryptophan levels	GCST90200201	9	37666947	G	C	8214	0.13	0.03	0.00	0.00	22.10
rs7108760	6-bromotryptophan levels	GCST90200201	11	67647176	G	A	8214	-0.19	0.02	0.00	0.01	88.06
rs189117855	6-bromotryptophan levels	GCST90200201	12	120740411	A	C	8214	-0.23	0.05	0.00	0.00	20.61
rs4884317	6-bromotryptophan levels	GCST90200201	13	53017291	A	G	8214	0.09	0.02	0.00	0.00	24.02
rs61744423	6-bromotryptophan levels	GCST90200201	14	52457102	C	T	8214	-0.42	0.05	0.00	0.01	85.66
rs117463339	6-bromotryptophan levels	GCST90200201	14	52514946	C	G	8214	-0.90	0.05	0.00	0.05	399.18
rs117768308	6-bromotryptophan levels	GCST90200201	14	52570751	G	A	8214	-0.23	0.04	0.00	0.00	31.05
rs76892548	6-bromotryptophan levels	GCST90200201	15	80087226	G	A	8214	-0.31	0.07	0.00	0.00	20.93
rs73073570	6-bromotryptophan levels	GCST90200201	20	846754	A	G	8214	-0.16	0.03	0.00	0.00	20.25
rs6027527	6-bromotryptophan levels	GCST90200201	20	60337163	T	C	8214	-0.09	0.02	0.00	0.00	19.55
rs146532334	6-bromotryptophan levels	GCST90200201	22	36507049	T	C	8214	0.32	0.04	0.00	0.01	83.42
rs79997653	Delta-CEHC levels	GCST90200202	1	177688212	A	G	6233	0.33	0.07	0.00	0.00	20.69
rs9862745	Delta-CEHC levels	GCST90200202	3	194283190	T	C	6233	-0.11	0.02	0.00	0.00	23.13
rs141176720	Delta-CEHC levels	GCST90200202	4	142804502	C	A	6233	0.30	0.07	0.00	0.00	20.02
rs55740609	Delta-CEHC levels	GCST90200202	5	29320455	T	C	6233	-0.09	0.02	0.00	0.00	20.08
rs574236194	Delta-CEHC levels	GCST90200202	5	45833755	A	G	6233	-0.31	0.07	0.00	0.00	20.57
rs1593872	Delta-CEHC levels	GCST90200202	5	116008527	A	C	6233	-0.08	0.02	0.00	0.00	21.26
rs13208672	Delta-CEHC levels	GCST90200202	6	157984356	T	G	6233	-0.10	0.02	0.00	0.00	20.62

rs6462076	Delta-CEHC levels	GCST90200202	7	28332187	C	T	6233	-0.10	0.02	0.00	0.00	20.97
rs509776	Delta-CEHC levels	GCST90200202	10	29173909	G	T	6233	0.10	0.02	0.00	0.00	19.55
rs10829758	Delta-CEHC levels	GCST90200202	10	130501291	C	G	6233	-0.10	0.02	0.00	0.00	23.08
rs7307101	Delta-CEHC levels	GCST90200202	12	24394972	G	A	6233	0.08	0.02	0.00	0.00	21.28
rs4759255	Delta-CEHC levels	GCST90200202	12	56703170	C	A	6233	-0.09	0.02	0.00	0.00	21.02
rs78193521	Delta-CEHC levels	GCST90200202	12	93908391	T	C	6233	-0.39	0.09	0.00	0.00	19.62
rs14625727 7	Delta-CEHC levels	GCST90200202	12	99887645	T	C	6233	0.34	0.08	0.00	0.00	20.16
rs67722874	Delta-CEHC levels	GCST90200202	12	129305342	C	G	6233	0.32	0.07	0.00	0.00	20.12
rs12100285	Delta-CEHC levels	GCST90200202	13	23766845	T	C	6233	0.09	0.02	0.00	0.00	19.93
rs11774319 6	Delta-CEHC levels	GCST90200202	14	24798398	G	C	6233	0.37	0.07	0.00	0.00	25.20
rs2220901	Delta-CEHC levels	GCST90200202	15	33684920	T	C	6233	-0.09	0.02	0.00	0.00	22.13
rs14793091 8	Delta-CEHC levels	GCST90200202	18	10501648	A	G	6233	-0.19	0.04	0.00	0.00	23.40
rs2108622	Delta-CEHC levels	GCST90200202	19	15879621	T	C	6233	-0.12	0.02	0.00	0.01	38.57
rs28415528	Indoleacetylarnitine levels	GCST90200203	1	151907285	A	G	7777	0.16	0.02	0.00	0.01	86.31
rs10800076	Indoleacetylarnitine levels	GCST90200203	1	165223739	C	G	7777	0.08	0.02	0.00	0.00	22.42
rs16843273	Indoleacetylarnitine levels	GCST90200203	1	234467459	T	C	7777	0.22	0.04	0.00	0.00	27.55
rs11207577 3	Indoleacetylarnitine levels	GCST90200203	1	240665005	C	T	7777	-0.17	0.04	0.00	0.00	19.67
rs11166961 7	Indoleacetylarnitine levels	GCST90200203	2	109690157	T	C	7777	0.36	0.08	0.00	0.00	21.13
rs14784437 9	Indoleacetylarnitine levels	GCST90200203	2	116642974	T	C	7777	-0.25	0.05	0.00	0.00	20.84
rs77788079	Indoleacetylarnitine levels	GCST90200203	2	164856910	A	G	7777	-0.19	0.04	0.00	0.00	20.09
rs11580821 3	Indoleacetylarnitine levels	GCST90200203	5	25679678	G	A	7777	0.13	0.03	0.00	0.00	24.52
rs76234786	Indoleacetylarnitine levels	GCST90200203	6	148107911	C	T	7777	0.32	0.07	0.00	0.00	19.96
rs1049938	Indoleacetylarnitine levels	GCST90200203	7	26190552	C	A	7777	-0.33	0.07	0.00	0.00	24.42
rs14595711 4	Indoleacetylarnitine levels	GCST90200203	7	40272288	T	C	7777	0.24	0.05	0.00	0.00	19.67
rs12113897	Indoleacetylarnitine levels	GCST90200203	7	50409038	G	A	7777	-0.30	0.06	0.00	0.00	27.34
rs3801940	Indoleacetylarnitine levels	GCST90200203	7	107685771	G	C	7777	0.08	0.02	0.00	0.00	20.85
rs79778049	Indoleacetylarnitine levels	GCST90200203	8	4463298	A	G	7777	-0.26	0.05	0.00	0.00	24.79
rs72663013	Indoleacetylarnitine levels	GCST90200203	8	56843191	T	G	7777	-0.28	0.06	0.00	0.00	25.49
rs11785279 6	Indoleacetylarnitine levels	GCST90200203	8	71221061	T	C	7777	-0.31	0.06	0.00	0.00	23.75
rs1934243	Indoleacetylarnitine levels	GCST90200203	9	1400154	C	A	7777	-0.23	0.05	0.00	0.00	21.09
rs11255798	Indoleacetylarnitine levels	GCST90200203	10	8657645	C	A	7777	-0.09	0.02	0.00	0.00	21.16
rs1171617	Indoleacetylarnitine levels	GCST90200203	10	59707424	T	G	7777	0.15	0.02	0.00	0.01	62.62
rs2492738	Indoleacetylarnitine levels	GCST90200203	10	86230814	T	G	7777	0.09	0.02	0.00	0.00	22.89
rs11175775	Indoleacetylarnitine levels	GCST90200203	12	40264453	C	T	7777	0.08	0.02	0.00	0.00	25.05
rs55735416	Indoleacetylarnitine levels	GCST90200203	15	60998808	T	C	7777	0.09	0.02	0.00	0.00	23.49
rs14853980 3	Indoleacetylarnitine levels	GCST90200203	16	20424696	T	C	7777	-0.65	0.08	0.00	0.01	61.29
rs14815314 1	Indoleacetylarnitine levels	GCST90200203	16	20426589	G	A	7777	0.49	0.05	0.00	0.01	82.29

rs34927101	Indoleacetyl carnitine levels	GCST90200203	16	20433373	T	C	7777	-0.68	0.06	0.00	0.02	123.29
rs189297030	Indoleacetyl carnitine levels	GCST90200203	16	20466204	G	C	7777	0.46	0.06	0.00	0.01	57.16
rs2271062	Indoleacetyl carnitine levels	GCST90200203	16	20471468	A	C	7777	0.42	0.03	0.00	0.02	184.31
rs145706482	Indoleacetyl carnitine levels	GCST90200203	16	20539900	A	C	7777	-0.35	0.05	0.00	0.01	50.87
rs74978879	Indoleacetyl carnitine levels	GCST90200203	16	20863639	A	G	7777	-0.32	0.07	0.00	0.00	21.70
rs11077426	Indoleacetyl carnitine levels	GCST90200203	17	79312380	G	A	7777	-0.07	0.02	0.00	0.00	22.78
rs116996966	Indoleacetyl carnitine levels	GCST90200203	19	37734757	T	G	7777	-0.22	0.05	0.00	0.00	21.05
rs2182324	N-acetyl leucine levels	GCST90200204	1	70843439	T	C	7646	-0.08	0.02	0.00	0.00	19.74
rs143634855	N-acetyl leucine levels	GCST90200204	1	147359043	G	A	7646	0.38	0.08	0.00	0.00	20.86
rs34056299	N-acetyl leucine levels	GCST90200204	2	4779226	A	G	7646	-0.12	0.03	0.00	0.00	21.30
rs16824802	N-acetyl leucine levels	GCST90200204	2	145354897	T	C	7646	-0.09	0.02	0.00	0.00	20.10
rs9809070	N-acetyl leucine levels	GCST90200204	3	172575323	A	G	7646	-0.09	0.02	0.00	0.00	21.02
rs17407324	N-acetyl leucine levels	GCST90200204	4	10271419	A	C	7646	0.08	0.02	0.00	0.00	21.26
rs73871308	N-acetyl leucine levels	GCST90200204	4	164589570	C	T	7646	0.12	0.03	0.00	0.00	19.53
rs710983	N-acetyl leucine levels	GCST90200204	5	3530348	G	A	7646	-0.08	0.02	0.00	0.00	27.90
rs117512985	N-acetyl leucine levels	GCST90200204	6	97628329	G	A	7646	-0.29	0.07	0.00	0.00	19.68
rs274027	N-acetyl leucine levels	GCST90200204	7	23384292	G	A	7646	0.21	0.05	0.00	0.00	20.06
rs12154778	N-acetyl leucine levels	GCST90200204	7	154739694	T	A	7646	-0.08	0.02	0.00	0.00	21.66
rs974733	N-acetyl leucine levels	GCST90200204	10	15568092	G	A	7646	-0.09	0.02	0.00	0.00	23.23
rs116935909	N-acetyl leucine levels	GCST90200204	10	26444460	A	G	7646	-0.15	0.03	0.00	0.00	20.87
rs150121950	N-acetyl leucine levels	GCST90200204	11	27201217	G	A	7646	0.35	0.07	0.00	0.00	23.52
rs192431765	N-acetyl leucine levels	GCST90200204	13	98287262	C	G	7646	0.39	0.09	0.00	0.00	19.82
rs67473699	N-acetyl leucine levels	GCST90200204	14	95065470	A	G	7646	-0.08	0.02	0.00	0.00	20.05
rs72762198	N-acetyl leucine levels	GCST90200204	15	95487497	A	G	7646	0.11	0.02	0.00	0.00	21.26
rs62097928	N-acetyl leucine levels	GCST90200204	18	40062176	A	C	7646	-0.10	0.02	0.00	0.00	20.33
rs201397312	N-acetyl leucine levels	GCST90200204	22	24647031	G	A	7646	-0.86	0.19	0.00	0.00	21.04
rs74433871	indoleglyoxylic acid levels	GCST90200205	1	55906039	A	T	7848	-0.10	0.02	0.00	0.00	21.37
rs1933543	indoleglyoxylic acid levels	GCST90200205	1	208824166	T	C	7848	-0.18	0.04	0.00	0.00	20.02
rs76454190	indoleglyoxylic acid levels	GCST90200205	1	241711939	T	C	7848	-0.13	0.03	0.00	0.00	19.81
rs113690663	indoleglyoxylic acid levels	GCST90200205	4	169919240	T	C	7848	0.11	0.03	0.00	0.00	21.10
rs78536265	indoleglyoxylic acid levels	GCST90200205	4	171019510	T	C	7848	0.12	0.03	0.00	0.00	20.35
rs113327604	indoleglyoxylic acid levels	GCST90200205	5	121152625	T	C	7848	-0.13	0.02	0.00	0.00	27.12
rs12186602	indoleglyoxylic acid levels	GCST90200205	5	160515514	A	T	7848	-0.10	0.02	0.00	0.00	22.76

rs3801164	3- indoleglyoxylic acid levels	GCST90200205	7	42063113	C	T	7848	0.07	0.02	0.00	0.00	21.05
rs9657399	3- indoleglyoxylic acid levels	GCST90200205	8	4557549	A	G	7848	0.22	0.05	0.00	0.00	19.84
rs13251821	3- indoleglyoxylic acid levels	GCST90200205	8	88887418	C	T	7848	-0.07	0.02	0.00	0.00	20.17
rs7048572	3- indoleglyoxylic acid levels	GCST90200205	9	78361155	C	T	7848	0.09	0.02	0.00	0.00	19.77
rs10988130	3- indoleglyoxylic acid levels	GCST90200205	9	128817300	G	A	7848	-0.23	0.02	0.00	0.02	169.11
rs138435983	3- indoleglyoxylic acid levels	GCST90200205	13	38075718	T	G	7848	0.18	0.04	0.00	0.00	20.69
rs112812077	3- indoleglyoxylic acid levels	GCST90200205	14	70794747	A	G	7848	0.18	0.04	0.00	0.00	19.81
rs11647808	3- indoleglyoxylic acid levels	GCST90200205	16	58736977	A	C	7848	0.17	0.03	0.00	0.00	33.43
rs66626698	3- indoleglyoxylic acid levels	GCST90200205	17	44049758	A	G	7848	-0.16	0.03	0.00	0.00	21.76
rs678624	3- indoleglyoxylic acid levels	GCST90200205	17	77249227	A	G	7848	0.08	0.02	0.00	0.00	21.94
rs144316692	3- indoleglyoxylic acid levels	GCST90200205	17	83148867	T	C	7848	0.47	0.10	0.00	0.00	21.49
rs12957758	3- indoleglyoxylic acid levels	GCST90200205	18	59070132	G	A	7848	0.09	0.02	0.00	0.00	19.75
rs11668731	3- indoleglyoxylic acid levels	GCST90200205	19	35111594	T	C	7848	-0.08	0.02	0.00	0.00	24.43
rs5751777	3- indoleglyoxylic acid levels	GCST90200205	22	23924860	T	C	7848	0.32	0.02	0.00	0.05	424.92
rs60005551	Sulfate of piperine metabolite C18H21NO3	GCST90200206	1	3296367	A	G	7021	0.09	0.02	0.00	0.00	20.12
rs79003624	(1) levels Sulfate of piperine metabolite C18H21NO3	GCST90200206	2	191395	A	G	7021	-0.16	0.04	0.00	0.00	21.60
rs4667038	(1) levels Sulfate of piperine metabolite C18H21NO3	GCST90200206	2	185370006	T	A	7021	-0.13	0.03	0.00	0.00	20.24
rs141471965	(1) levels Sulfate of piperine metabolite C18H21NO3	GCST90200206	4	88125050	T	C	7021	0.17	0.03	0.00	0.01	44.05
rs890947	(1) levels Sulfate of piperine metabolite C18H21NO3	GCST90200206	5	67242572	A	G	7021	0.08	0.02	0.00	0.00	20.80
rs140408777	(1) levels Sulfate of piperine metabolite C18H21NO3	GCST90200206	6	25684542	T	C	7021	-0.31	0.07	0.00	0.00	19.51

rs72984093	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	6	135759717	T	C	7021	-0.16	0.04	0.00	0.00	20.04
rs76862465	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	7	94676630	C	G	7021	-0.30	0.06	0.00	0.00	21.20
rs11764864	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	7	138605043	C	T	7021	-0.08	0.02	0.00	0.00	20.87
rs6578069	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	8	140103141	A	G	7021	0.08	0.02	0.00	0.00	21.91
rs17791653	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	13	94061141	C	T	7021	-0.11	0.03	0.00	0.00	20.18
rs2331715	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	14	22696743	C	A	7021	-0.08	0.02	0.00	0.00	19.89
rs14825807 9	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	14	99737399	G	T	7021	-0.42	0.09	0.00	0.00	21.00
rs11541532 7	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	16	81210940	T	C	7021	0.28	0.06	0.00	0.00	20.65
rs807118	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	17	53160330	G	A	7021	-0.11	0.02	0.00	0.00	20.61
rs8098457	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	18	1604257	A	G	7021	0.09	0.02	0.00	0.00	21.91
rs14687701 8	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	18	23741130	A	G	7021	0.32	0.07	0.00	0.00	23.09
rs15053581 9	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	18	57381027	A	C	7021	-0.25	0.05	0.00	0.00	21.90
rs12607293	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	18	59790648	C	T	7021	-0.09	0.02	0.00	0.00	19.80
rs8112314	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	19	40638121	T	C	7021	-0.09	0.02	0.00	0.00	21.44

rs14639835	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	19	42465574	A	G	7021	0.15	0.03	0.00	0.00	22.54
rs707578	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	20	38427232	T	C	7021	0.10	0.02	0.00	0.00	22.69
rs117055639	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	20	46552020	A	G	7021	-0.29	0.06	0.00	0.00	20.61
rs6026629	Sulfate of piperine metabolite C18H21NO3 (1) levels	GCST90200206	20	58971485	A	T	7021	0.09	0.02	0.00	0.00	25.25
rs3845396	Methyl vanillate sulfate levels	GCST90200207	1	180265842	G	C	4303	0.19	0.04	0.00	0.01	22.29
rs76829912	Methyl vanillate sulfate levels	GCST90200207	1	246417768	C	A	4303	0.14	0.03	0.00	0.00	20.61
rs73077560	Methyl vanillate sulfate levels	GCST90200207	3	46615712	C	T	4303	0.50	0.10	0.00	0.01	23.73
rs78400852	Methyl vanillate sulfate levels	GCST90200207	3	102685600	T	C	4303	0.30	0.07	0.00	0.00	20.78
rs9290663	Methyl vanillate sulfate levels	GCST90200207	3	178712151	T	A	4303	0.14	0.03	0.00	0.00	19.91
rs76636050	Methyl vanillate sulfate levels	GCST90200207	5	23945151	A	G	4303	0.26	0.05	0.00	0.01	22.59
rs315723	Methyl vanillate sulfate levels	GCST90200207	5	170288730	C	G	4303	0.22	0.05	0.00	0.00	20.67
rs12204939	Methyl vanillate sulfate levels	GCST90200207	6	143209326	C	G	4303	-0.22	0.05	0.00	0.00	19.97
rs117020078	Methyl vanillate sulfate levels	GCST90200207	6	165557100	T	C	4303	0.17	0.04	0.00	0.00	20.03
rs141206874	Methyl vanillate sulfate levels	GCST90200207	8	92987498	C	T	4303	-0.45	0.10	0.00	0.00	20.08
rs117439166	Methyl vanillate sulfate levels	GCST90200207	10	78463350	G	T	4303	0.25	0.06	0.00	0.00	20.24
rs149459659	Methyl vanillate sulfate levels	GCST90200207	10	92079398	A	G	4303	0.33	0.08	0.00	0.00	19.66
rs12570982	Methyl vanillate sulfate levels	GCST90200207	10	107810381	C	T	4303	-0.14	0.03	0.00	0.00	20.37
rs11246108	Methyl vanillate sulfate levels	GCST90200207	11	350917	A	G	4303	0.12	0.02	0.00	0.01	25.88
rs1443156	Methyl vanillate sulfate levels	GCST90200207	11	25527145	A	C	4303	-0.46	0.10	0.00	0.00	21.22
rs140124490	Methyl vanillate sulfate levels	GCST90200207	11	44670542	G	T	4303	0.43	0.10	0.00	0.00	20.20
rs61895821	Methyl vanillate sulfate levels	GCST90200207	11	61040749	T	G	4303	0.19	0.04	0.00	0.00	21.13
rs148457790	vanillate sulfate levels	GCST90200207	12	125082691	A	G	4303	0.37	0.08	0.00	0.00	19.69

rs526582	Methyl vanillate sulfate levels	GCST90200207	13	94118587	C	T	4303	0.16	0.03	0.00	0.00	19.73
rs76891935	Methyl vanillate sulfate levels	GCST90200207	13	97706072	T	G	4303	0.19	0.04	0.00	0.01	22.71
rs10467820	Methyl vanillate sulfate levels	GCST90200207	14	68452299	T	A	4303	0.10	0.02	0.00	0.00	20.35
rs12891730	Methyl vanillate sulfate levels	GCST90200207	14	101113259	G	A	4303	-0.15	0.03	0.00	0.00	19.93
rs12603413	Methyl vanillate sulfate levels	GCST90200207	17	15403502	G	A	4303	-0.20	0.04	0.00	0.01	22.14
rs73234777	Methyl vanillate sulfate levels	GCST90200207	21	45873785	T	C	4303	0.21	0.05	0.00	0.01	21.86
rs2073257	Methyl vanillate sulfate levels	GCST90200207	22	26247777	C	T	4303	0.20	0.04	0.00	0.00	21.34
rs61789219	Glucuronide of piperine metabolite	GCST90200208	1	116472759	A	C	7833	0.13	0.03	0.00	0.00	21.25
rs147202495	C17H21NO3 (4) levels Glucuronide of piperine metabolite	GCST90200208	1	223479945	A	G	7833	-0.44	0.09	0.00	0.00	22.22
rs270532	C17H21NO3 (4) levels Glucuronide of piperine metabolite	GCST90200208	1	234442480	C	T	7833	0.11	0.02	0.00	0.00	19.74
rs35488249	C17H21NO3 (4) levels Glucuronide of piperine metabolite	GCST90200208	2	143232813	C	T	7833	-0.10	0.02	0.00	0.00	23.19
rs11708502	C17H21NO3 (4) levels Glucuronide of piperine metabolite	GCST90200208	3	61849659	G	A	7833	0.10	0.02	0.00	0.00	21.93
rs143762985	C17H21NO3 (4) levels Glucuronide of piperine metabolite	GCST90200208	3	69477462	T	C	7833	-0.15	0.03	0.00	0.00	21.19
rs138824804	C17H21NO3 (4) levels Glucuronide of piperine metabolite	GCST90200208	3	79651082	T	C	7833	0.23	0.05	0.00	0.00	20.77
rs7618289	C17H21NO3 (4) levels Glucuronide of piperine metabolite	GCST90200208	3	116756990	A	G	7833	0.08	0.02	0.00	0.00	21.26
rs9821187	C17H21NO3 (4) levels Glucuronide of piperine metabolite	GCST90200208	3	181419280	T	G	7833	0.22	0.05	0.00	0.00	19.57
rs1964370	C17H21NO3 (4) levels of piperine metabolite	GCST90200208	4	159017780	G	A	7833	-0.36	0.08	0.00	0.00	20.47

rs71556736	Glucuronide of piperine metabolite C17H21NO3 (4) levels	GCST90200208	7	73620599	T	C	7833	-0.11	0.02	0.00	0.00	20.00
rs4278149	Glucuronide of piperine metabolite C17H21NO3 (4) levels	GCST90200208	8	34687055	G	C	7833	0.09	0.02	0.00	0.00	23.15
rs11771719 3	Glucuronide of piperine metabolite C17H21NO3 (4) levels	GCST90200208	8	35513524	T	C	7833	0.25	0.06	0.00	0.00	21.16
rs11196955	Glucuronide of piperine metabolite C17H21NO3 (4) levels	GCST90200208	10	114860323	T	C	7833	0.13	0.03	0.00	0.00	24.69
rs15113332 4	Glucuronide of piperine metabolite C17H21NO3 (4) levels	GCST90200208	11	60079529	G	T	7833	0.27	0.06	0.00	0.00	20.11
rs14190646 2	Glucuronide of piperine metabolite C17H21NO3 (4) levels	GCST90200208	13	108584415	C	T	7833	-0.26	0.06	0.00	0.00	20.51
rs8012154	Glucuronide of piperine metabolite C17H21NO3 (4) levels	GCST90200208	14	32171056	G	A	7833	0.08	0.02	0.00	0.00	20.65
rs14147180 5	Glucuronide of piperine metabolite C17H21NO3 (4) levels	GCST90200208	14	34371531	C	T	7833	1.57	0.35	0.00	0.00	20.41
rs75781720	Glucuronide of piperine metabolite C17H21NO3 (4) levels	GCST90200208	19	6207826	A	G	7833	-0.18	0.03	0.00	0.00	26.68
rs13866016 6	Glucuronide of piperine metabolite C17H21NO3 (4) levels	GCST90200208	19	35691573	A	G	7833	0.18	0.04	0.00	0.00	20.66
rs174695	Glucuronide of piperine metabolite C17H21NO3 (4) levels	GCST90200208	22	19959946	T	C	7833	-0.20	0.02	0.00	0.02	148.33
rs74705350	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	1	87608069	T	G	7705	0.10	0.02	0.00	0.00	19.76
rs12728890	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	1	177793697	T	G	7705	0.17	0.03	0.00	0.00	23.86
rs41315595	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	1	227815807	A	G	7705	-0.19	0.04	0.00	0.00	19.71

rs17862873	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	2	233738076	C	A	7705	0.10	0.02	0.00	0.00	27.80
rs34641615	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	3	33197660	A	G	7705	-0.11	0.02	0.00	0.00	21.73
rs14569571 2	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	3	114328036	A	G	7705	-0.30	0.06	0.00	0.00	21.01
rs73204710	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	4	7700314	G	A	7705	-0.12	0.03	0.00	0.00	20.34
rs11939197	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	4	47956358	G	A	7705	-0.40	0.08	0.00	0.00	27.82
rs378551	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	5	34626367	G	A	7705	-0.12	0.02	0.00	0.00	22.47
rs1715045	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	6	61863839	T	C	7705	-0.10	0.02	0.00	0.00	24.72
rs2279081	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	6	88550249	C	A	7705	-0.11	0.02	0.00	0.00	24.41
rs10487700	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	7	30619509	T	C	7705	-0.18	0.04	0.00	0.00	20.43
rs14840566 1	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	8	5847953	G	A	7705	0.33	0.07	0.00	0.00	24.32
rs950118	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	8	18264077	T	A	7705	0.07	0.02	0.00	0.00	19.60
rs76653938	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	9	36706786	A	G	7705	0.12	0.03	0.00	0.00	20.56
rs2379050	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	10	116331	A	G	7705	-0.23	0.05	0.00	0.00	20.08
rs72833128	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	10	114818286	C	A	7705	0.13	0.03	0.00	0.00	23.64

rs2814154	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	10	132212754	C	T	7705	-0.13	0.03	0.00	0.00	19.95
rs11022020	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	11	11747359	T	C	7705	-0.10	0.02	0.00	0.00	21.54
rs35564408	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	11	68420280	A	C	7705	-0.30	0.07	0.00	0.00	19.73
rs4765074	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	12	126083250	A	T	7705	-0.08	0.02	0.00	0.00	22.19
rs14190646 2	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	13	108584415	C	T	7705	-0.28	0.06	0.00	0.00	23.77
rs1952428	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	14	22700503	G	C	7705	-0.08	0.02	0.00	0.00	22.27
rs15053581 9	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	18	57381027	A	C	7705	-0.24	0.05	0.00	0.00	21.33
rs17078761	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	18	68236952	C	T	7705	-0.12	0.03	0.00	0.00	20.09
rs14759891 7	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	18	77062705	A	G	7705	-0.40	0.09	0.00	0.00	21.84
rs14506562 6	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	20	25046978	G	A	7705	-0.58	0.13	0.00	0.00	19.55
rs707578	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	20	38427232	T	C	7705	0.09	0.02	0.00	0.00	22.23
rs4680	Sulfate of piperine metabolite C16H19NO3 (3) levels	GCST90200209	22	19963748	A	G	7705	0.09	0.02	0.00	0.00	29.18
rs74705350	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	1	87608069	T	G	7950	0.10	0.02	0.00	0.00	21.99
rs14126996 3	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	1	99338919	G	A	7950	-0.24	0.05	0.00	0.00	23.27

rs61789219	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	1	116472759	A	C	7950	0.12	0.03	0.00	0.00	19.87
rs13388407	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	2	204153935	C	T	7950	-0.21	0.05	0.00	0.00	20.69
rs6801382	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	3	15483079	A	C	7950	0.07	0.02	0.00	0.00	21.15
rs73204710	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	4	7700314	G	A	7950	-0.13	0.03	0.00	0.00	26.25
rs11544413 8	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	6	5536977	C	T	7950	-0.37	0.08	0.00	0.00	20.37
rs11508421 7	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	6	13551782	C	T	7950	0.32	0.07	0.00	0.00	19.66
rs78813791	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	6	45717583	T	C	7950	0.16	0.04	0.00	0.00	20.04
rs1715045	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	6	61863839	T	C	7950	-0.10	0.02	0.00	0.00	23.49
rs34929924	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	6	110411244	A	G	7950	-0.10	0.02	0.00	0.00	19.94
rs14035723 9	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	7	2711808	T	C	7950	-0.11	0.02	0.00	0.00	20.87
rs10487700	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	7	30619509	T	C	7950	-0.18	0.04	0.00	0.00	19.52
rs2530416	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	7	67678707	C	T	7950	0.07	0.02	0.00	0.00	20.52
rs14840566 1	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	8	5847953	G	A	7950	0.30	0.07	0.00	0.00	20.91
rs4278149	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	8	34687055	G	C	7950	0.09	0.02	0.00	0.00	22.44

rs12782580	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	10	24497362	G	A	7950	0.10	0.02	0.00	0.00	21.39
rs72833128	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	10	114818286	C	A	7950	0.12	0.03	0.00	0.00	20.51
rs11022020	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	11	11747359	T	C	7950	-0.10	0.02	0.00	0.00	24.57
rs35564408	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	11	68420280	A	C	7950	-0.31	0.07	0.00	0.00	22.53
rs10778408	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	12	105519755	C	T	7950	-0.07	0.02	0.00	0.00	20.21
rs4765074	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	12	126083250	A	T	7950	-0.07	0.02	0.00	0.00	19.88
rs11695405 7	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	13	84335671	C	T	7950	0.19	0.04	0.00	0.00	21.97
rs1952428	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	14	22700503	G	C	7950	-0.07	0.02	0.00	0.00	21.02
rs62627329	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	15	66339299	T	C	7950	-0.27	0.06	0.00	0.00	20.97
rs4640311	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	19	36157569	T	C	7950	0.09	0.02	0.00	0.00	20.46
rs34886364	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	21	34362884	G	A	7950	-0.08	0.02	0.00	0.00	21.80
rs4680	Sulfate of piperine metabolite C16H19NO3 (2) levels	GCST90200210	22	19963748	A	G	7950	0.08	0.02	0.00	0.00	26.08
rs34422167	3- hydroxypyridi ne glucuronide levels	GCST90200211	2	184321676	T	C	5882	0.08	0.02	0.00	0.00	20.65
rs56301578 6	3- hydroxypyridi ne glucuronide levels	GCST90200211	3	545730	C	T	5882	-0.20	0.04	0.00	0.00	21.40
rs7429192	3- hydroxypyridi ne glucuronide levels	GCST90200211	3	26040084	C	G	5882	-0.31	0.06	0.00	0.00	29.35

rs116633901	3-hydroxypyridine glucuronide levels	GCST90200211	4	148481453	G	T	5882	0.26	0.06	0.00	0.00	20.02
rs7676893	3-hydroxypyridine glucuronide levels	GCST90200211	4	154849113	G	T	5882	-0.14	0.03	0.00	0.00	27.27
rs56239146	3-hydroxypyridine glucuronide levels	GCST90200211	5	32478220	C	T	5882	-0.10	0.02	0.00	0.00	22.75
rs35733788	3-hydroxypyridine glucuronide levels	GCST90200211	5	84659449	C	T	5882	-0.14	0.03	0.00	0.00	19.73
rs4302625	3-hydroxypyridine glucuronide levels	GCST90200211	5	117936778	A	G	5882	0.09	0.02	0.00	0.00	25.80
rs75829713	3-hydroxypyridine glucuronide levels	GCST90200211	6	156555820	C	G	5882	-0.18	0.04	0.00	0.00	19.60
rs1079443	3-hydroxypyridine glucuronide levels	GCST90200211	7	1261072	T	C	5882	-0.16	0.03	0.00	0.00	20.78
rs12667453	3-hydroxypyridine glucuronide levels	GCST90200211	7	50076570	A	C	5882	-0.10	0.02	0.00	0.00	20.72
rs34288260	3-hydroxypyridine glucuronide levels	GCST90200211	8	29840582	T	C	5882	0.12	0.02	0.00	0.00	23.39
rs117538926	3-hydroxypyridine glucuronide levels	GCST90200211	8	41209088	A	G	5882	-0.24	0.05	0.00	0.00	19.98
rs76122947	3-hydroxypyridine glucuronide levels	GCST90200211	9	123360528	C	G	5882	-0.28	0.06	0.00	0.00	21.99
rs61858994	3-hydroxypyridine glucuronide levels	GCST90200211	10	43426566	C	G	5882	-0.11	0.02	0.00	0.00	23.15
rs1951958	3-hydroxypyridine glucuronide levels	GCST90200211	14	61475651	T	C	5882	0.10	0.02	0.00	0.00	19.86
rs55783917	3-hydroxypyridine glucuronide levels	GCST90200211	14	92097806	T	A	5882	-0.09	0.02	0.00	0.00	21.03
rs145979703	3-hydroxypyridine glucuronide levels	GCST90200211	14	97165109	A	G	5882	-0.35	0.08	0.00	0.00	22.05
rs28818910	3-hydroxypyridine glucuronide levels	GCST90200211	15	75148328	T	C	5882	0.09	0.02	0.00	0.00	23.77
rs77173283	3-hydroxypyridine glucuronide levels	GCST90200211	17	9439079	T	C	5882	-0.25	0.05	0.00	0.00	22.12
rs79207071	3-hydroxypyridine glucuronide levels	GCST90200211	18	64497028	G	T	5882	-0.14	0.03	0.00	0.00	20.24

rs519137	3- hydroxypyridi ne glucuronide levels	GCST90200211	19	43685008	T	C	5882	-0.21	0.04	0.00	0.00	25.11
rs73276407	3- hydroxypyridi ne glucuronide levels	GCST90200211	20	49990832	A	G	5882	-0.16	0.04	0.00	0.00	20.12
rs75934398	3- hydroxypyridi ne glucuronide levels	GCST90200211	20	56727103	C	T	5882	-0.20	0.04	0.00	0.00	20.42
rs2483250	Glucuronide of piperine metabolite C17H21NO3	GCST90200212	1	3439841	C	A	6582	0.15	0.03	0.00	0.00	23.90
rs144984465	(5) levels Glucuronide of piperine metabolite C17H21NO3	GCST90200212	1	150664515	A	G	6582	0.16	0.04	0.00	0.00	19.61
rs17404330	(5) levels Glucuronide of piperine metabolite C17H21NO3	GCST90200212	2	40921796	G	A	6582	0.18	0.04	0.00	0.00	20.77
rs148156878	(5) levels Glucuronide of piperine metabolite C17H21NO3	GCST90200212	2	147008926	G	A	6582	-0.39	0.08	0.00	0.00	23.34
rs140629993	(5) levels Glucuronide of piperine metabolite C17H21NO3	GCST90200212	2	176757647	G	A	6582	-0.35	0.08	0.00	0.00	19.54
rs71304070	(5) levels Glucuronide of piperine metabolite C17H21NO3	GCST90200212	3	177519019	C	A	6582	0.20	0.04	0.00	0.00	22.17
rs79208735	(5) levels Glucuronide of piperine metabolite C17H21NO3	GCST90200212	5	117874831	T	C	6582	0.38	0.08	0.00	0.00	20.83
rs72807040	(5) levels Glucuronide of piperine metabolite C17H21NO3	GCST90200212	5	157188291	G	A	6582	0.31	0.07	0.00	0.00	21.09
rs139927603	(5) levels Glucuronide of piperine metabolite C17H21NO3	GCST90200212	6	77409198	C	T	6582	0.20	0.05	0.00	0.00	19.77
rs72939644	(5) levels Glucuronide of piperine metabolite C17H21NO3	GCST90200212	6	100479103	T	C	6582	0.10	0.02	0.00	0.00	22.48
rs77418103	(5) levels Glucuronide of piperine metabolite C17H21NO3	GCST90200212	6	108820572	T	C	6582	0.11	0.03	0.00	0.00	19.52
rs72595733	(5) levels of piperine metabolite C17H21NO3	GCST90200212	7	22808825	C	T	6582	-0.16	0.03	0.00	0.00	22.53

rs12698941	Glucuronide of piperine metabolite C17H21NO3 (5) levels	GCST90200212	7	70797399	C	G	6582	-0.10	0.02	0.00	0.00	20.31
rs56943753 3	Glucuronide of piperine metabolite C17H21NO3 (5) levels	GCST90200212	12	39564620	G	A	6582	-0.41	0.09	0.00	0.00	19.84
rs11780560 4	Glucuronide of piperine metabolite C17H21NO3 (5) levels	GCST90200212	12	130705319	T	C	6582	0.41	0.09	0.00	0.00	22.38
rs2677586	Glucuronide of piperine metabolite C17H21NO3 (5) levels	GCST90200212	13	47608474	G	A	6582	0.08	0.02	0.00	0.00	21.54
rs72662035	Glucuronide of piperine metabolite C17H21NO3 (5) levels	GCST90200212	13	109431546	A	T	6582	-0.15	0.03	0.00	0.00	21.73
rs8042882	Glucuronide of piperine metabolite C17H21NO3 (5) levels	GCST90200212	15	70176932	C	T	6582	0.09	0.02	0.00	0.00	19.95
rs13947973 6	Glucuronide of piperine metabolite C17H21NO3 (5) levels	GCST90200212	17	36930597	G	C	6582	0.37	0.08	0.00	0.00	19.89
rs11776586 1	Glucuronide of piperine metabolite C17H21NO3 (5) levels	GCST90200212	18	29873344	T	C	6582	0.24	0.05	0.00	0.00	20.05
rs17059873	Glucuronide of piperine metabolite C17H21NO3 (5) levels	GCST90200212	18	76759872	T	C	6582	0.09	0.02	0.00	0.00	21.08
rs174695	Glucuronide of piperine metabolite C17H21NO3 (5) levels	GCST90200212	22	19959946	T	C	6582	-0.18	0.02	0.00	0.02	106.25
rs7537181	2-naphthol sulfate levels	GCST90200213	1	7407245	C	T	7673	-0.07	0.02	0.00	0.00	19.84
rs62107897	2-naphthol sulfate levels	GCST90200213	2	3968042	C	T	7673	0.17	0.04	0.00	0.00	19.86
rs13030506	2-naphthol sulfate levels	GCST90200213	2	95280623	T	C	7673	0.28	0.06	0.00	0.00	20.14
rs1036147	2-naphthol sulfate levels	GCST90200213	2	165903847	G	T	7673	-0.10	0.02	0.00	0.00	20.26
rs11341052 4	2-naphthol sulfate levels	GCST90200213	2	233612493	A	G	7673	0.33	0.06	0.00	0.00	26.70
rs53022740 3	2-naphthol sulfate levels	GCST90200213	3	54975534	C	A	7673	0.32	0.06	0.00	0.00	26.05
rs18445495 8	2-naphthol sulfate levels	GCST90200213	3	82480752	G	A	7673	0.30	0.07	0.00	0.00	20.18
rs14964184 2	2-naphthol sulfate levels	GCST90200213	5	158263777	C	T	7673	-0.39	0.09	0.00	0.00	20.52
rs6929261	2-naphthol sulfate levels	GCST90200213	6	14748216	T	C	7673	-0.22	0.05	0.00	0.00	19.69
rs9383989	2-naphthol sulfate levels	GCST90200213	6	152335799	T	C	7673	0.11	0.02	0.00	0.00	20.69
rs10272016	2-naphthol sulfate levels	GCST90200213	7	16614709	C	T	7673	0.13	0.03	0.00	0.00	24.83
rs14734651 0	2-naphthol sulfate levels	GCST90200213	8	573804	A	G	7673	-0.25	0.05	0.00	0.00	21.71

rs4007923	2-naphthol sulfate levels	GCST90200213	8	124588403	C	T	7673	0.08	0.02	0.00	0.00	22.31
rs690236	2-naphthol sulfate levels	GCST90200213	9	90620220	C	G	7673	0.09	0.02	0.00	0.00	21.77
rs809568	2-naphthol sulfate levels	GCST90200213	9	91437203	G	A	7673	-0.20	0.04	0.00	0.00	25.80
rs11032244	2-naphthol sulfate levels	GCST90200213	11	33371323	C	T	7673	-0.11	0.03	0.00	0.00	19.89
rs12798428	2-naphthol sulfate levels	GCST90200213	11	64067270	C	G	7673	-0.23	0.05	0.00	0.00	20.03
rs11713367 1	2-naphthol sulfate levels	GCST90200213	11	96009627	A	G	7673	0.27	0.06	0.00	0.00	20.96
rs16914924	2-naphthol sulfate levels	GCST90200213	12	18992696	A	G	7673	0.35	0.07	0.00	0.00	22.01
rs55713940	2-naphthol sulfate levels	GCST90200213	12	26249811	T	G	7673	-0.13	0.03	0.00	0.00	21.01
rs18582040 3	2-naphthol sulfate levels	GCST90200213	13	70084773	G	C	7673	0.29	0.07	0.00	0.00	19.51
rs14445935 4	2-naphthol sulfate levels	GCST90200213	15	59029002	T	A	7673	0.30	0.06	0.00	0.00	24.22
rs447155	2-naphthol sulfate levels	GCST90200213	20	15428462	G	A	7673	0.10	0.02	0.00	0.00	23.14
rs4233083	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	1	70553303	T	C	8081	-0.07	0.01	0.00	0.00	20.72
rs78319869	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	1	86061593	C	T	8081	-0.25	0.05	0.00	0.00	24.86
rs404818	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	1	179285462	T	C	8081	0.08	0.02	0.00	0.00	20.00
rs476805	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	2	12647842	G	C	8081	-0.09	0.02	0.00	0.00	19.78
rs72790679	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	2	31431289	A	G	8081	-0.45	0.06	0.00	0.01	63.69
rs9282858	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	2	31580756	T	C	8081	-0.43	0.04	0.00	0.01	111.97
rs55834920	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	2	31626839	T	C	8081	-0.12	0.02	0.00	0.00	24.59
rs9808045	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	2	88424446	A	C	8081	-0.15	0.03	0.00	0.00	22.10
rs12523123	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	5	149460374	G	A	8081	0.07	0.02	0.00	0.00	20.60
rs9400332	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	6	109860837	T	C	8081	-0.11	0.02	0.00	0.00	21.13

rs18337938 7	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	7	105345067	T	C	8081	0.43	0.08	0.00	0.00	28.86
rs972283	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	7	130782095	G	A	8081	0.08	0.01	0.00	0.00	30.73
rs2035647	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	7	138114823	G	A	8081	0.08	0.02	0.00	0.00	21.17
rs14693301 1	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	7	155916077	A	G	8081	-0.39	0.08	0.00	0.00	21.34
rs7034409	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	9	2182290	A	G	8081	-0.19	0.04	0.00	0.00	19.87
rs72702904	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	9	14472329	C	G	8081	-0.12	0.03	0.00	0.00	21.07
rs14123285 8	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	11	63107062	C	A	8081	0.36	0.03	0.00	0.02	142.83
rs540582	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	11	63312298	C	T	8081	-0.07	0.01	0.00	0.00	19.60
rs14876612 6	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	11	110262445	G	T	8081	-0.21	0.04	0.00	0.00	28.10
rs810823	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	12	119543902	A	G	8081	0.18	0.04	0.00	0.00	22.93
rs17729686	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	14	84042297	T	C	8081	0.30	0.06	0.00	0.00	24.01
rs14856105 9	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	14	104764377	T	C	8081	0.21	0.05	0.00	0.00	21.07
rs11695707 6	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	15	25523550	T	C	8081	-0.23	0.05	0.00	0.00	22.36
rs18857085 2	11beta- hydroxyandro sterone glucuronide levels	GCST90200214	15	81878040	A	G	8081	-0.31	0.07	0.00	0.00	21.51

rs111774594	11beta-hydroxyandrostosterone glucuronide levels	GCST90200214	16	1057502	C	G	8081	-0.52	0.10	0.00	0.00	28.50
rs9961693	11beta-hydroxyandrostosterone glucuronide levels	GCST90200214	18	61613422	G	A	8081	-0.08	0.02	0.00	0.00	20.56
rs10514121	11beta-hydroxyandrostosterone glucuronide levels	GCST90200214	18	74275094	A	G	8081	0.29	0.05	0.00	0.00	32.46
rs117776170	11beta-hydroxyandrostosterone glucuronide levels	GCST90200214	18	74359349	G	A	8081	-0.11	0.02	0.00	0.00	23.11
rs4801415	11beta-hydroxyandrostosterone glucuronide levels	GCST90200214	19	56971343	C	G	8081	-0.07	0.01	0.00	0.00	24.08
rs139277783	11beta-hydroxyandrostosterone glucuronide levels	GCST90200214	21	38016047	T	G	8081	0.27	0.06	0.00	0.00	23.90
rs150441104	11beta-hydroxyandrostosterone glucuronide levels	GCST90200214	22	20998206	C	T	8081	-0.25	0.05	0.00	0.00	23.06
rs141568347	4-ethylcatechol	GCST90200215	1	3516381	A	G	8222	-0.61	0.14	0.00	0.00	20.57
rs114371828	4-ethylcatechol	GCST90200215	1	201989140	T	C	8222	-0.28	0.06	0.00	0.00	22.83
rs62143471	4-ethylcatechol	GCST90200215	2	34819367	A	G	8222	-0.28	0.06	0.00	0.00	20.62
rs6431630	4-ethylcatechol	GCST90200215	2	233768740	A	G	8222	-0.13	0.02	0.00	0.00	25.14
rs17008088	4-ethylcatechol	GCST90200215	3	70966628	T	C	8222	0.24	0.05	0.00	0.00	24.27
rs4856225	4-ethylcatechol	GCST90200215	3	79930958	T	C	8222	0.09	0.02	0.00	0.00	21.15
rs180685113	4-ethylcatechol	GCST90200215	3	93818553	G	A	8222	-0.28	0.06	0.00	0.00	19.78
rs35947652	4-ethylcatechol	GCST90200215	3	129599751	G	A	8222	-0.14	0.03	0.00	0.00	20.05
rs147503040	4-ethylcatechol	GCST90200215	3	182797506	A	G	8222	0.22	0.05	0.00	0.00	19.93
rs140766381	4-ethylcatechol	GCST90200215	4	115334586	G	A	8222	-0.36	0.08	0.00	0.00	19.81
rs116059601	4-ethylcatechol	GCST90200215	4	155718281	G	A	8222	-0.30	0.06	0.00	0.00	25.43
rs144745734	4-ethylcatechol	GCST90200215	5	148559962	G	C	8222	0.32	0.07	0.00	0.00	21.17
rs45603636	4-ethylcatechol	GCST90200215	6	43623319	A	G	8222	-0.34	0.08	0.00	0.00	19.71
rs112498198	4-ethylcatechol	GCST90200215	6	128031911	A	T	8222	-0.98	0.21	0.00	0.00	21.70
rs6964395	4-ethylcatechol	GCST90200215	7	107440222	C	G	8222	-0.09	0.02	0.00	0.00	20.44
rs10088682	4-ethylcatechol	GCST90200215	8	58287443	T	C	8222	0.07	0.02	0.00	0.00	20.58
rs16929581	4-ethylcatechol	GCST90200215	9	1461225	T	C	8222	0.22	0.05	0.00	0.00	21.09
rs1995667	4-ethylcatechol	GCST90200215	10	66224941	A	G	8222	0.08	0.02	0.00	0.00	20.94
rs60483208	4-ethylcatechol	GCST90200215	11	73229183	A	T	8222	-0.21	0.05	0.00	0.00	20.38

rs79561604	4-ethylcatechol	GCST90200215	12	70351680	C	T	8222	0.10	0.02	0.00	0.00	20.33
rs7334967	4-ethylcatechol	GCST90200215	13	74151960	C	T	8222	0.09	0.02	0.00	0.00	20.69
rs2472297	4-ethylcatechol	GCST90200215	15	74735539	T	C	8222	0.09	0.02	0.00	0.00	28.61
rs79143095	4-ethylcatechol	GCST90200215	18	64497726	T	C	8222	-0.11	0.03	0.00	0.00	19.72
rs113935097	4-ethylcatechol	GCST90200215	20	2878021	T	C	8222	-0.32	0.07	0.00	0.00	21.82
rs143550070	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200215	21	16457169	G	T	8222	-0.29	0.07	0.00	0.00	19.74
rs60005551	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	1	3296367	A	G	7006	0.09	0.02	0.00	0.00	21.04
rs79003624	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	2	191395	A	G	7006	-0.16	0.04	0.00	0.00	20.46
rs4667038	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	2	185370006	T	A	7006	-0.13	0.03	0.00	0.00	21.87
rs887829	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	2	233759924	T	C	7006	0.09	0.02	0.00	0.00	27.07
rs141471965	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	4	88125050	T	C	7006	0.18	0.03	0.00	0.01	46.81
rs870254	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	4	121091887	C	T	7006	0.10	0.02	0.00	0.00	20.38
rs185861434	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	5	62756772	T	C	7006	-0.48	0.11	0.00	0.00	20.08
rs9379707	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	6	25024819	T	C	7006	-0.12	0.02	0.00	0.00	24.20
rs140408777	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	6	25684542	T	C	7006	-0.32	0.07	0.00	0.00	21.51
rs189658882	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	6	75327863	A	G	7006	-0.49	0.11	0.00	0.00	20.48
rs13193014	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	6	98343364	G	A	7006	0.13	0.03	0.00	0.00	23.35
rs10256413	4-ethylcatechol Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	7	15505706	G	A	7006	0.09	0.02	0.00	0.00	20.16

rs9784925	Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	7	51699446	G	A	7006	-0.08	0.02	0.00	0.00	22.07
rs11764864	Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	7	138605043	C	T	7006	-0.08	0.02	0.00	0.00	21.45
rs18494271 7	Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	7	147829028	T	C	7006	-0.33	0.07	0.00	0.00	19.82
rs9987304	Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	8	14656271	C	T	7006	-0.11	0.02	0.00	0.00	22.46
rs13856387 9	Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	8	69865375	T	C	7006	0.22	0.05	0.00	0.00	19.80
rs1586788	Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	8	125981835	G	C	7006	-0.08	0.02	0.00	0.00	20.12
rs9409069	Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	9	105850023	G	A	7006	0.09	0.02	0.00	0.00	21.58
rs12245638	Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	10	87577843	T	C	7006	0.18	0.04	0.00	0.00	21.32
rs10745420	Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	12	86540738	A	G	7006	-0.11	0.02	0.00	0.00	19.59
rs17791653	Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	13	94061141	C	T	7006	-0.11	0.03	0.00	0.00	20.37
rs3825596	Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	14	51968165	A	G	7006	-0.16	0.03	0.00	0.00	20.77
rs14631811 5	Sulfate of piperine metabolite C18H21NO3 (3) levels	GCST90200216	19	47832570	T	C	7006	0.26	0.05	0.00	0.00	26.65
rs11807515	(2,4 or 2,5)-dimethylphenol sulfate levels	GCST90200217	1	204380642	T	C	5189	0.27	0.06	0.00	0.00	21.90
rs55671226	(2,4 or 2,5)-dimethylphenol sulfate levels	GCST90200217	2	48841715	T	A	5189	0.18	0.04	0.00	0.00	21.43
rs76673051	(2,4 or 2,5)-dimethylphenol sulfate levels	GCST90200217	3	10660061	T	C	5189	0.36	0.08	0.00	0.00	20.83
rs76894499	(2,4 or 2,5)-dimethylphenol sulfate levels	GCST90200217	3	162676935	T	G	5189	0.19	0.04	0.00	0.00	22.24

rs10023065	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	4	42867920	G	T	5189	0.10	0.02	0.00	0.01	27.10
rs72769224	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	5	80982267	T	G	5189	-0.12	0.03	0.00	0.00	19.56
rs17155877	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	5	103826404	G	A	5189	0.13	0.03	0.00	0.00	22.06
rs72795562	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	5	118546022	T	C	5189	-0.30	0.07	0.00	0.00	20.37
rs9453530	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	6	65954584	T	G	5189	0.10	0.02	0.00	0.00	19.75
rs111852258	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	6	119172674	T	G	5189	0.30	0.07	0.00	0.00	20.79
rs9383616	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	6	152335743	A	G	5189	0.15	0.03	0.00	0.01	27.82
rs10810172	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	9	14529625	C	T	5189	-0.10	0.02	0.00	0.00	19.68
rs139734134	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	10	14580569	C	T	5189	0.37	0.08	0.00	0.00	19.77
rs74923546	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	12	131640948	A	C	5189	-0.15	0.03	0.00	0.00	21.03
rs117703899	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	14	30552998	G	A	5189	0.44	0.10	0.00	0.00	19.99
rs12890803	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	14	61081953	G	A	5189	0.11	0.02	0.00	0.00	21.63
rs17091567	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	14	94897532	T	C	5189	0.14	0.03	0.00	0.00	22.57
rs4238754	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	16	52678051	A	G	5189	0.09	0.02	0.00	0.00	20.69
rs1869349	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	16	81175642	T	C	5189	-0.28	0.05	0.00	0.01	26.49
rs149129256	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	17	73548991	A	C	5189	0.32	0.07	0.00	0.00	20.07
rs146781516	(2,4 or 2,5)- dimethylpheno l sulfate levels	GCST90200217	18	29297532	T	C	5189	0.38	0.08	0.00	0.00	20.65
rs3762499	11beta- hydroxyetioch olanolone glucuronide levels	GCST90200218	2	172103018	G	A	7220	-0.09	0.02	0.00	0.00	21.00
rs4241304	11beta- hydroxyetioch olanolone glucuronide levels	GCST90200218	2	239940856	C	T	7220	-0.09	0.02	0.00	0.00	21.25
rs189857060	11beta- hydroxyetioch olanolone glucuronide levels	GCST90200218	3	75278140	C	G	7220	-0.12	0.03	0.00	0.00	23.16
rs2118438	11beta- hydroxyetioch olanolone glucuronide levels	GCST90200218	4	145507232	G	A	7220	0.09	0.02	0.00	0.00	20.31

rs75908064	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	4	171505741	T	A	7220	0.15	0.03	0.00	0.00	20.67
rs138185036	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	5	73115086	G	C	7220	-0.43	0.09	0.00	0.00	21.22
rs67151903	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	5	139983998	A	G	7220	-0.20	0.04	0.00	0.00	20.55
rs7780066	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	7	138117169	A	G	7220	0.09	0.02	0.00	0.00	21.66
rs76804626	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	8	49960286	A	T	7220	0.30	0.07	0.00	0.00	20.58
rs77524129	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	9	36372808	A	C	7220	-0.25	0.06	0.00	0.00	19.59
rs7868792	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	9	97398477	T	C	7220	-0.08	0.02	0.00	0.00	19.99
rs7895133	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	10	74247697	T	A	7220	-0.07	0.02	0.00	0.00	19.60
rs146196476	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	11	2330225	T	C	7220	-0.55	0.12	0.00	0.00	19.85
rs10838523	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	11	45841213	A	C	7220	0.26	0.06	0.00	0.00	22.63
rs113967277	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	11	63390417	G	A	7220	0.26	0.04	0.00	0.01	44.43
rs1375284	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	12	78133081	C	T	7220	0.09	0.02	0.00	0.00	23.02
rs61929004	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	12	94559540	A	G	7220	0.16	0.03	0.00	0.00	22.85
rs61936385	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	12	130762916	C	A	7220	0.14	0.03	0.00	0.00	19.69

rs182081003	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	14	32455777	C	T	7220	-0.32	0.07	0.00	0.00	23.39
rs140540792	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	15	71798253	T	C	7220	0.23	0.05	0.00	0.00	20.43
rs7201200	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	16	4175717	T	G	7220	-0.08	0.02	0.00	0.00	21.82
rs74985032	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	16	81899579	T	C	7220	-0.16	0.03	0.00	0.00	25.21
rs305943	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	19	53755446	A	G	7220	-0.11	0.02	0.00	0.00	19.92
rs6074148	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	20	1117843	T	C	7220	-0.08	0.02	0.00	0.00	19.52
rs56093613	11beta-hydroxyetiocholanolone glucuronide levels	GCST90200218	22	42722776	G	C	7220	-0.12	0.03	0.00	0.00	21.28
rs58506471	Cholic acid glucuronide levels	GCST90200219	1	4297948	A	G	4414	-0.16	0.03	0.00	0.00	21.85
rs115742627	Cholic acid glucuronide levels	GCST90200219	1	48027403	A	G	4414	0.33	0.07	0.00	0.00	20.34
rs76760489	Cholic acid glucuronide levels	GCST90200219	1	114118011	A	G	4414	0.15	0.03	0.00	0.01	26.53
rs188947242	Cholic acid glucuronide levels	GCST90200219	2	239001359	A	G	4414	-0.57	0.13	0.00	0.00	20.49
rs76054336	Cholic acid glucuronide levels	GCST90200219	3	20933367	A	T	4414	0.22	0.05	0.00	0.00	19.63
rs9873941	Cholic acid glucuronide levels	GCST90200219	3	140165606	T	G	4414	0.13	0.03	0.00	0.00	21.57
rs143517367	Cholic acid glucuronide levels	GCST90200219	4	1764040	T	G	4414	-0.36	0.08	0.00	0.00	20.58
rs34164133	Cholic acid glucuronide levels	GCST90200219	4	68489616	T	C	4414	0.33	0.03	0.00	0.03	139.41
rs2046535	Cholic acid glucuronide levels	GCST90200219	4	185149278	C	T	4414	0.11	0.02	0.00	0.01	25.90
rs111255923	Cholic acid glucuronide levels	GCST90200219	5	24947438	T	C	4414	0.43	0.09	0.00	0.00	21.73
rs28893225	Cholic acid glucuronide levels	GCST90200219	5	58221589	T	C	4414	-0.10	0.02	0.00	0.00	19.73
rs11740383	Cholic acid glucuronide levels	GCST90200219	5	82666687	G	A	4414	0.17	0.04	0.00	0.00	20.54
rs1324512	Cholic acid glucuronide levels	GCST90200219	6	7525957	C	T	4414	-0.10	0.02	0.00	0.00	21.50

rs112122571	Cholic acid glucuronide levels	GCST90200219	7	110953337	T	C	4414	-0.17	0.04	0.00	0.00	20.61
rs13250220	Cholic acid glucuronide levels	GCST90200219	8	138669344	A	G	4414	-0.13	0.02	0.00	0.01	30.89
rs55999991	Cholic acid glucuronide levels	GCST90200219	12	6004173	C	T	4414	-0.14	0.03	0.00	0.00	21.88
rs7159950	Cholic acid glucuronide levels	GCST90200219	14	56714061	A	G	4414	0.22	0.05	0.00	0.00	20.88
rs759992	Cholic acid glucuronide levels	GCST90200219	16	4788494	G	A	4414	0.10	0.02	0.00	0.00	21.08
rs11643738	Cholic acid glucuronide levels	GCST90200219	16	79112668	G	C	4414	-0.16	0.04	0.00	0.00	20.05
rs138204523	Cholic acid glucuronide levels	GCST90200219	22	47648392	T	G	4414	0.57	0.13	0.00	0.00	20.52
rs2292560	4-allylcatechol sulfate levels	GCST90200220	1	225856891	T	C	8139	-0.19	0.04	0.00	0.00	25.18
rs144597972	4-allylcatechol sulfate levels	GCST90200220	1	247550912	T	G	8139	-0.21	0.05	0.00	0.00	19.78
rs36052701	4-allylcatechol sulfate levels	GCST90200220	2	155725274	G	T	8139	-0.10	0.02	0.00	0.00	20.47
rs9310883	4-allylcatechol sulfate levels	GCST90200220	3	2932649	T	C	8139	-0.08	0.02	0.00	0.00	21.94
rs59651084	4-allylcatechol sulfate levels	GCST90200220	3	177886943	A	G	8139	0.51	0.12	0.00	0.00	19.54
rs76249950	4-allylcatechol sulfate levels	GCST90200220	5	67136428	G	C	8139	0.37	0.08	0.00	0.00	21.82
rs114350339	4-allylcatechol sulfate levels	GCST90200220	6	6684159	G	C	8139	0.31	0.06	0.00	0.00	23.38
rs62404880	4-allylcatechol sulfate levels	GCST90200220	6	10038771	G	A	8139	0.11	0.02	0.00	0.00	22.83
rs2807889	4-allylcatechol sulfate levels	GCST90200220	6	137269668	A	G	8139	0.08	0.02	0.00	0.00	20.78
rs115916312	4-allylcatechol sulfate levels	GCST90200220	7	22665319	G	T	8139	0.16	0.03	0.00	0.00	20.24
rs187788293	4-allylcatechol sulfate levels	GCST90200220	7	84403879	T	C	8139	0.29	0.06	0.00	0.00	20.61
rs545249742	4-allylcatechol sulfate levels	GCST90200220	7	146906487	G	C	8139	0.28	0.06	0.00	0.00	20.58
rs4921552	4-allylcatechol sulfate levels	GCST90200220	8	17499929	C	A	8139	0.07	0.02	0.00	0.00	19.68
rs1411947	4-allylcatechol sulfate levels	GCST90200220	9	12482266	G	A	8139	0.07	0.02	0.00	0.00	20.03
rs77198199	4-allylcatechol sulfate levels	GCST90200220	9	36965298	C	T	8139	0.24	0.05	0.00	0.00	21.88
rs117218200	4-allylcatechol sulfate levels	GCST90200220	9	84141456	G	T	8139	0.30	0.07	0.00	0.00	19.65
rs10904974	4-allylcatechol sulfate levels	GCST90200220	10	17594736	A	G	8139	0.08	0.02	0.00	0.00	22.29
rs34996300	4-allylcatechol sulfate levels	GCST90200220	12	6746883	G	A	8139	0.27	0.05	0.00	0.00	24.32
rs900610	4-allylcatechol sulfate levels	GCST90200220	12	31663689	A	G	8139	0.08	0.02	0.00	0.00	20.90
rs75152007	4-allylcatechol sulfate levels	GCST90200220	12	93333887	G	A	8139	-0.16	0.04	0.00	0.00	19.62
rs12051808	4-allylcatechol sulfate levels	GCST90200220	17	76195548	G	A	8139	0.17	0.03	0.00	0.00	24.18
rs546948675	4-allylcatechol sulfate levels	GCST90200220	19	951454	C	G	8139	-0.56	0.12	0.00	0.00	20.26
rs35034266	4-allylcatechol sulfate levels	GCST90200220	19	2729805	T	C	8139	-0.27	0.06	0.00	0.00	21.13
rs75293039	Glycoursodeoxycholic acid sulfate (1) levels	GCST90200221	1	86249929	C	G	6622	0.11	0.03	0.00	0.00	19.51

	Glycoursodeox											
rs74474922	ycholic acid sulfate (1) levels	GCST90200221	2	6212925	T	A	6622	-0.11	0.02	0.00	0.00	22.27
	Glycoursodeox											
rs34793022	ycholic acid sulfate (1) levels	GCST90200221	2	48664145	C	T	6622	0.13	0.03	0.00	0.00	22.70
	Glycoursodeox											
rs72957103	ycholic acid sulfate (1) levels	GCST90200221	2	99008250	C	T	6622	0.25	0.05	0.00	0.00	22.27
	Glycoursodeox											
rs78115137	ycholic acid sulfate (1) levels	GCST90200221	3	161563830	T	A	6622	0.19	0.04	0.00	0.00	19.61
	Glycoursodeox											
rs7617950	ycholic acid sulfate (1) levels	GCST90200221	3	177156592	T	A	6622	-0.08	0.02	0.00	0.00	21.72
	Glycoursodeox											
rs11342313 4	ycholic acid sulfate (1) levels	GCST90200221	4	39241688	T	C	6622	0.10	0.02	0.00	0.00	20.22
	Glycoursodeox											
rs11462611 5	ycholic acid sulfate (1) levels	GCST90200221	4	134674151	A	G	6622	0.21	0.05	0.00	0.00	21.19
	Glycoursodeox											
rs14654307 5	ycholic acid sulfate (1) levels	GCST90200221	5	2844946	G	A	6622	0.34	0.08	0.00	0.00	20.20
	Glycoursodeox											
rs11303735 3	ycholic acid sulfate (1) levels	GCST90200221	5	55029220	C	G	6622	-0.19	0.04	0.00	0.00	20.12
	Glycoursodeox											
rs35128457	ycholic acid sulfate (1) levels	GCST90200221	5	57484789	C	G	6622	0.32	0.07	0.00	0.00	20.81
	Glycoursodeox											
rs77937295	ycholic acid sulfate (1) levels	GCST90200221	5	123347220	T	C	6622	0.22	0.05	0.00	0.00	20.16
	Glycoursodeox											
rs1277190	ycholic acid sulfate (1) levels	GCST90200221	6	24186362	C	T	6622	0.08	0.02	0.00	0.00	20.83
	Glycoursodeox											
rs14885079 6	ycholic acid sulfate (1) levels	GCST90200221	6	51510530	A	G	6622	0.33	0.07	0.00	0.00	23.10
	Glycoursodeox											
rs14846648 6	ycholic acid sulfate (1) levels	GCST90200221	6	154768410	G	A	6622	-0.39	0.09	0.00	0.00	19.92
	Glycoursodeox											
rs6461760	ycholic acid sulfate (1) levels	GCST90200221	7	2996446	T	C	6622	-0.08	0.02	0.00	0.00	21.71
	Glycoursodeox											
rs10486499	ycholic acid sulfate (1) levels	GCST90200221	7	32037469	T	C	6622	-0.09	0.02	0.00	0.00	21.19
	Glycoursodeox											
rs62497571	ycholic acid sulfate (1) levels	GCST90200221	8	32229257	A	G	6622	0.43	0.09	0.00	0.00	22.83
	Glycoursodeox											
rs36098259	ycholic acid sulfate (1) levels	GCST90200221	8	65115886	A	G	6622	-0.13	0.03	0.00	0.00	20.01

	Glycoursodeox											
rs17483371	ycholic acid sulfate (1) levels	GCST90200221	9	129420761	C	T	6622	0.38	0.09	0.00	0.00	20.03
	Glycoursodeox											
rs117664908	ycholic acid sulfate (1) levels	GCST90200221	10	123173229	G	A	6622	0.23	0.05	0.00	0.00	19.96
	Glycoursodeox											
rs61260661	ycholic acid sulfate (1) levels	GCST90200221	11	92202246	C	A	6622	0.17	0.04	0.00	0.00	19.64
	Glycoursodeox											
rs61929995	ycholic acid sulfate (1) levels	GCST90200221	12	11202034	C	T	6622	0.09	0.02	0.00	0.00	21.77
	Glycoursodeox											
rs57743625	ycholic acid sulfate (1) levels	GCST90200221	12	21214699	A	G	6622	0.17	0.02	0.00	0.01	58.10
	Glycoursodeox											
rs10506578	ycholic acid sulfate (1) levels	GCST90200221	12	69997942	T	C	6622	-0.18	0.04	0.00	0.00	22.86
	Glycoursodeox											
rs9805772	ycholic acid sulfate (1) levels	GCST90200221	13	94199614	A	C	6622	-0.10	0.02	0.00	0.00	19.76
	Glycoursodeox											
rs4441365	ycholic acid sulfate (1) levels	GCST90200221	18	3217624	C	T	6622	0.20	0.04	0.00	0.00	20.71
	Glycoursodeox											
rs55961326	ycholic acid sulfate (1) levels	GCST90200221	18	65336288	T	C	6622	0.11	0.02	0.00	0.00	21.53
	Glycoursodeox											
rs212100	ycholic acid sulfate (1) levels	GCST90200221	19	47873738	C	T	6622	0.19	0.02	0.00	0.01	60.37
	Glycoursodeox											
rs118087697	ycholic acid sulfate (1) levels	GCST90200221	20	63420658	A	G	6622	0.24	0.05	0.00	0.00	19.86
	Glycoursodeox											
rs73322918	ycholic acid sulfate (1) levels	GCST90200221	21	20810656	G	A	6622	0.20	0.04	0.00	0.00	26.59
	Glycoursodeox											
rs165779	ycholic acid sulfate (1) levels	GCST90200221	22	20560470	A	G	6622	-0.11	0.02	0.00	0.00	23.03
	Glycoursodeox											
rs149949604	Dihydrocaffeate sulfate (2) levels	GCST90200222	1	5353163	C	G	6519	-0.26	0.06	0.00	0.00	20.31
	Dihydrocaffeate sulfate (2) levels	GCST90200222	1	211548885	A	G	6519	0.21	0.04	0.00	0.00	21.87
rs505915	Dihydrocaffeate sulfate (2) levels	GCST90200222	1	212229238	A	G	6519	0.08	0.02	0.00	0.00	19.68
rs1472226	Dihydrocaffeate sulfate (2) levels	GCST90200222	2	235927833	T	C	6519	-0.31	0.07	0.00	0.00	21.56
rs12990427	Dihydrocaffeate sulfate (2) levels	GCST90200222	3	32405304	C	G	6519	0.08	0.02	0.00	0.00	20.03
rs661061	Dihydrocaffeate sulfate (2) levels	GCST90200222	3	45897447	A	G	6519	-0.14	0.03	0.00	0.00	21.77
rs2236938	Dihydrocaffeate sulfate (2) levels	GCST90200222	3	102004038	T	C	6519	0.28	0.06	0.00	0.00	19.77
rs115840193	Dihydrocaffeate sulfate (2) levels	GCST90200222	3	102004038	T	C	6519	0.28	0.06	0.00	0.00	19.77

rs6446563	Dihydrocaffeate sulfate (2) levels	GCST90200222	4	4260069	G	A	6519	0.10	0.02	0.00	0.00	21.86
rs113128638	Dihydrocaffeate sulfate (2) levels	GCST90200222	4	21917167	T	C	6519	-0.09	0.02	0.00	0.00	22.63
rs150642922	Dihydrocaffeate sulfate (2) levels	GCST90200222	4	70882741	G	A	6519	-0.34	0.07	0.00	0.00	25.42
rs142017354	Dihydrocaffeate sulfate (2) levels	GCST90200222	6	74786921	T	C	6519	-0.19	0.04	0.00	0.00	20.03
rs62414061	Dihydrocaffeate sulfate (2) levels	GCST90200222	6	115851076	A	G	6519	0.14	0.03	0.00	0.00	20.17
rs56333547	Dihydrocaffeate sulfate (2) levels	GCST90200222	6	148719337	A	G	6519	0.12	0.03	0.00	0.00	20.60
rs183424022	Dihydrocaffeate sulfate (2) levels	GCST90200222	7	8595470	T	G	6519	-0.42	0.09	0.00	0.00	20.58
rs9641941	Dihydrocaffeate sulfate (2) levels	GCST90200222	7	80912457	C	T	6519	-0.19	0.04	0.00	0.00	19.78
rs848402	Dihydrocaffeate sulfate (2) levels	GCST90200222	7	108883486	G	C	6519	0.09	0.02	0.00	0.00	19.72
rs17837643	Dihydrocaffeate sulfate (2) levels	GCST90200222	7	156212054	G	A	6519	0.14	0.03	0.00	0.00	20.09
rs147333982	Dihydrocaffeate sulfate (2) levels	GCST90200222	8	36793080	C	A	6519	-0.42	0.09	0.00	0.00	24.03
rs6470971	Dihydrocaffeate sulfate (2) levels	GCST90200222	8	131407499	G	A	6519	0.48	0.11	0.00	0.00	20.78
rs112741154	Dihydrocaffeate sulfate (2) levels	GCST90200222	9	20141974	T	C	6519	-0.15	0.03	0.00	0.00	20.58
rs11788216	Dihydrocaffeate sulfate (2) levels	GCST90200222	9	36855691	C	T	6519	0.22	0.05	0.00	0.00	20.70
rs11591560	Dihydrocaffeate sulfate (2) levels	GCST90200222	10	49666514	G	C	6519	-0.09	0.02	0.00	0.00	21.56
rs181869104	Dihydrocaffeate sulfate (2) levels	GCST90200222	10	105926949	G	A	6519	0.41	0.09	0.00	0.00	21.60
rs10769086	Dihydrocaffeate sulfate (2) levels	GCST90200222	11	5581738	A	G	6519	-0.09	0.02	0.00	0.00	20.94
rs9579535	Dihydrocaffeate sulfate (2) levels	GCST90200222	13	30150360	A	G	6519	0.24	0.05	0.00	0.00	21.85
rs142878672	Dihydrocaffeate sulfate (2) levels	GCST90200222	16	88797848	T	C	6519	-0.25	0.05	0.00	0.00	20.51
rs2253858	Dihydrocaffeate sulfate (2) levels	GCST90200222	21	31501935	T	C	6519	-0.09	0.02	0.00	0.00	19.86
rs2877254	Dihydrocaffeate sulfate (2) levels	GCST90200222	22	24894635	T	C	6519	0.14	0.03	0.00	0.00	23.29
rs13058535	Dihydrocaffeate sulfate (2) levels	GCST90200222	22	30428768	A	G	6519	0.11	0.03	0.00	0.00	19.90
rs7539246	4-methylhexanoylglutamine levels	GCST90200223	1	75738165	G	C	5576	-0.22	0.02	0.00	0.02	114.80
rs76763222	4-methylhexanoylglutamine levels	GCST90200223	1	87684427	T	C	5576	-0.23	0.05	0.00	0.00	21.54

rs1807144	4-methylhexanoylglutamine levels	GCST90200223	1	105470553	T	C	5576	0.10	0.02	0.00	0.00	20.13
rs76711897	4-methylhexanoylglutamine levels	GCST90200223	1	112358121	A	G	5576	0.30	0.07	0.00	0.00	20.11
rs2184936	4-methylhexanoylglutamine levels	GCST90200223	1	220590559	T	C	5576	-0.31	0.07	0.00	0.00	19.89
rs6690223	4-methylhexanoylglutamine levels	GCST90200223	1	229588081	T	C	5576	0.10	0.02	0.00	0.00	19.59
rs192613105	4-methylhexanoylglutamine levels	GCST90200223	2	191641012	G	A	5576	-0.60	0.13	0.00	0.00	20.42
rs56811148	4-methylhexanoylglutamine levels	GCST90200223	3	31231305	A	G	5576	0.16	0.04	0.00	0.00	19.56
rs142562617	4-methylhexanoylglutamine levels	GCST90200223	3	40965796	A	G	5576	-0.44	0.10	0.00	0.00	21.08
rs565558650	4-methylhexanoylglutamine levels	GCST90200223	3	116207617	T	C	5576	0.15	0.03	0.00	0.00	19.72
rs189292785	4-methylhexanoylglutamine levels	GCST90200223	3	146435599	A	G	5576	0.30	0.07	0.00	0.00	19.85
rs139309402	4-methylhexanoylglutamine levels	GCST90200223	4	61166972	T	G	5576	0.42	0.09	0.00	0.00	23.35
rs16875800	4-methylhexanoylglutamine levels	GCST90200223	5	78717935	A	G	5576	-0.10	0.02	0.00	0.00	20.44
rs750851	4-methylhexanoylglutamine levels	GCST90200223	5	168109756	C	T	5576	0.10	0.02	0.00	0.00	20.60
rs1408273	4-methylhexanoylglutamine levels	GCST90200223	6	25840718	G	A	5576	0.11	0.02	0.00	0.01	33.10
rs802295	4-methylhexanoylglutamine levels	GCST90200223	6	124179973	G	A	5576	-0.09	0.02	0.00	0.00	20.76
rs10993723	4-methylhexanoylglutamine levels	GCST90200223	9	90855778	C	T	5576	0.16	0.04	0.00	0.00	20.53
rs11257019	4-methylhexanoylglutamine levels	GCST90200223	10	6157265	C	T	5576	-0.09	0.02	0.00	0.00	19.61
rs2283208	4-methylhexanoylglutamine levels	GCST90200223	11	2722629	A	G	5576	0.08	0.02	0.00	0.00	20.06
rs80159883	4-methylhexanoylglutamine levels	GCST90200223	11	23689905	G	C	5576	0.27	0.06	0.00	0.00	19.90

rs18388140	4-methylhexanoylglutamine levels	GCST90200223	13	66094128	A	T	5576	0.53	0.12	0.00	0.00	19.63
rs446184	4-methylhexanoylglutamine levels	GCST90200223	15	67008185	C	T	5576	-0.09	0.02	0.00	0.00	20.47
rs454363	4-methylhexanoylglutamine levels	GCST90200223	21	14225446	T	C	5576	0.27	0.06	0.00	0.00	22.14
rs2294529	2-ketocaprylate levels	GCST90200224	1	6651946	T	C	8240	0.10	0.02	0.00	0.00	25.41
rs148157012	2-ketocaprylate levels	GCST90200224	1	63279974	G	A	8240	-0.33	0.06	0.00	0.00	26.57
rs2998678	2-ketocaprylate levels	GCST90200224	1	242821864	T	C	8240	-0.17	0.03	0.00	0.00	24.13
rs13410232	2-ketocaprylate levels	GCST90200224	2	73644562	T	A	8240	-0.30	0.02	0.00	0.03	264.67
rs112809733	2-ketocaprylate levels	GCST90200224	2	216040672	C	T	8240	0.12	0.03	0.00	0.00	20.93
rs74637339	2-ketocaprylate levels	GCST90200224	3	15586533	A	T	8240	0.28	0.03	0.00	0.01	63.70
rs35254234	2-ketocaprylate levels	GCST90200224	3	18702604	A	G	8240	0.33	0.07	0.00	0.00	21.91
rs6888615	2-ketocaprylate levels	GCST90200224	5	30594312	A	G	8240	-0.15	0.03	0.00	0.00	20.93
rs17470667	2-ketocaprylate levels	GCST90200224	5	39371973	G	A	8240	0.16	0.04	0.00	0.00	20.89
rs187600325	2-ketocaprylate levels	GCST90200224	7	143424383	A	G	8240	0.29	0.06	0.00	0.00	24.09
rs75570795	2-ketocaprylate levels	GCST90200224	8	142578577	A	G	8240	-0.12	0.02	0.00	0.00	25.21
rs7081898	2-ketocaprylate levels	GCST90200224	10	6641122	A	G	8240	-0.10	0.02	0.00	0.00	21.13
rs140231314	2-ketocaprylate levels	GCST90200224	12	92219209	C	T	8240	-0.18	0.04	0.00	0.00	21.02
rs61985987	2-ketocaprylate levels	GCST90200224	14	59106960	C	T	8240	-0.08	0.02	0.00	0.00	20.01
rs414700	2-ketocaprylate levels	GCST90200224	14	60152599	G	T	8240	0.14	0.02	0.00	0.01	44.01
rs2689112	2-ketocaprylate levels	GCST90200224	14	82581445	T	C	8240	-0.08	0.02	0.00	0.00	20.37
rs80345183	2-ketocaprylate levels	GCST90200224	14	100788746	T	G	8240	0.28	0.06	0.00	0.00	21.27
rs77815174	2-ketocaprylate levels	GCST90200224	15	76222555	C	T	8240	-0.15	0.03	0.00	0.00	28.00
rs12928691	2-ketocaprylate levels	GCST90200224	16	14352288	T	C	8240	0.21	0.05	0.00	0.00	19.88
rs322577	2-ketocaprylate levels	GCST90200224	16	63819983	T	C	8240	-0.24	0.05	0.00	0.00	20.90

rs14402504 2	2- ketocaprylate levels	GCST90200224	16	75114533	A	G	8240	-0.45	0.08	0.00	0.00	35.13
rs11808593 6	2- ketocaprylate levels	GCST90200224	16	83280712	C	T	8240	0.16	0.03	0.00	0.00	21.46
rs8065544	2- ketocaprylate levels	GCST90200224	17	73072803	A	G	8240	0.07	0.02	0.00	0.00	20.44
rs11506790 5	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	2	40695110	C	T	7446	-0.17	0.04	0.00	0.00	21.23
rs75001382	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	2	214632448	T	C	7446	0.09	0.02	0.00	0.00	20.88
rs17008088	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	3	70966628	T	C	7446	0.23	0.05	0.00	0.00	20.57
rs14171043 1	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	3	133233248	G	T	7446	0.36	0.08	0.00	0.00	20.58
rs78499230	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	5	24335146	C	T	7446	-0.18	0.04	0.00	0.00	21.39
rs78538024	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	5	52688213	T	C	7446	-0.29	0.06	0.00	0.00	22.15
rs17324835	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	5	68627631	A	G	7446	0.13	0.03	0.00	0.00	20.89
rs71641976	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	5	87258445	A	T	7446	0.30	0.07	0.00	0.00	19.74
rs14474573 4	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	5	148559962	G	C	7446	0.36	0.07	0.00	0.00	24.05
rs11515117 0	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	6	54906289	C	T	7446	-0.36	0.08	0.00	0.00	21.57
rs6568802	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	6	113650185	G	C	7446	-0.07	0.02	0.00	0.00	19.89
rs75308367	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	6	119507195	C	A	7446	-0.22	0.05	0.00	0.00	20.37
rs19325037 1	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	7	112591266	A	G	7446	-0.27	0.06	0.00	0.00	19.81
rs10993370	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	9	94854821	G	C	7446	-0.07	0.02	0.00	0.00	20.14
rs14023055 2	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	12	100375417	T	C	7446	0.32	0.07	0.00	0.00	20.84
rs28889073	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	14	78041119	A	G	7446	-0.12	0.03	0.00	0.00	21.07
rs2472297	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	15	74735539	T	C	7446	0.10	0.02	0.00	0.00	30.93
rs62026374	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	16	11130162	T	C	7446	0.21	0.05	0.00	0.00	19.51
rs14442227 8	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	16	18908228	T	C	7446	-0.33	0.07	0.00	0.00	20.18
rs12940181	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	17	35429981	A	T	7446	0.11	0.02	0.00	0.00	21.18
rs77348892	3-hydroxy-2- methylpyridin e sulfate levels	GCST90200225	18	45018537	A	G	7446	-0.46	0.10	0.00	0.00	22.36

rs144745463	3-hydroxy-2-methylpyridine sulfate levels	GCST90200225	21	39317658	T	C	7446	0.25	0.05	0.00	0.00	21.04
rs9607073	3-hydroxy-2-methylpyridine sulfate levels	GCST90200225	22	33698672	T	G	7446	-0.52	0.12	0.00	0.00	19.74
rs1873876	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	1	94733492	C	G	6977	0.08	0.02	0.00	0.00	19.94
rs142857402	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	2	62002724	T	C	6977	-0.34	0.07	0.00	0.00	20.15
rs11465901	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	3	10216895	T	C	6977	0.39	0.08	0.00	0.00	23.35
rs114882577	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	3	60145416	C	T	6977	-0.27	0.06	0.00	0.00	21.30
rs6786552	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	3	158895870	G	A	6977	0.10	0.02	0.00	0.00	19.97
rs151287306	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	5	74710136	T	C	6977	-0.29	0.06	0.00	0.00	23.00
rs56335007	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	5	169536558	C	T	6977	-0.15	0.03	0.00	0.00	21.03
rs62414950	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	6	112666557	T	C	6977	-0.33	0.07	0.00	0.00	21.63
rs73125518	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	7	39385518	A	G	6977	-0.11	0.02	0.00	0.00	21.46
rs12667453	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	7	50076570	A	C	6977	-0.10	0.02	0.00	0.00	25.23
rs13256407	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	8	35252462	A	C	6977	-0.11	0.02	0.00	0.00	21.13
rs1075897	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	9	10440166	T	C	6977	-0.27	0.05	0.00	0.00	26.60
rs190365297	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	9	11023192	C	A	6977	0.22	0.04	0.00	0.00	24.10
rs140230552	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	12	100375417	T	C	6977	0.34	0.07	0.00	0.00	22.86
rs2472297	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	15	74735539	T	C	6977	0.12	0.02	0.00	0.01	39.04
rs11861892	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	16	84447758	T	C	6977	-0.08	0.02	0.00	0.00	20.04
rs1668841	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	18	24913888	G	A	6977	-0.12	0.02	0.00	0.00	23.76
rs79143095	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	18	64497726	T	C	6977	-0.13	0.03	0.00	0.00	21.25
rs2569746	5-hydroxy-2-methylpyridine sulfate levels	GCST90200226	19	50837659	T	A	6977	-0.08	0.02	0.00	0.00	22.88
rs2826765	3-methylpyridine sulfate levels	GCST90200226	21	21285441	T	C	6977	-0.09	0.02	0.00	0.00	20.94
rs55763939	3-ethylcatechol sulfate (2)	GCST90200227	1	187560706	A	G	4814	0.10	0.02	0.00	0.00	19.51
rs7417402	3-ethylcatechol sulfate (2)	GCST90200227	1	205330509	A	G	4814	-0.11	0.02	0.00	0.01	25.33

rs116644041	3-ethylcatechol sulfate (2)	GCST90200227	3	33290172	A	T	4814	-0.45	0.10	0.00	0.00	21.26
rs2686270	3-ethylcatechol sulfate (2)	GCST90200227	3	71124079	A	C	4814	0.10	0.02	0.00	0.00	21.22
rs4698032	3-ethylcatechol sulfate (2)	GCST90200227	4	10314958	G	T	4814	-0.12	0.02	0.00	0.00	22.58
rs72802557	3-ethylcatechol sulfate (2)	GCST90200227	5	158150551	A	G	4814	-0.13	0.03	0.00	0.00	21.96
rs3798720	3-ethylcatechol sulfate (2)	GCST90200227	6	11039769	A	G	4814	-0.09	0.02	0.00	0.00	22.05
rs74588165	3-ethylcatechol sulfate (2)	GCST90200227	7	130464129	T	C	4814	0.26	0.06	0.00	0.00	20.95
rs34759235	3-ethylcatechol sulfate (2)	GCST90200227	8	27214419	T	G	4814	0.16	0.03	0.00	0.01	24.45
rs56027359	3-ethylcatechol sulfate (2)	GCST90200227	10	55458520	T	C	4814	-0.19	0.04	0.00	0.00	20.03
rs9561507	3-ethylcatechol sulfate (2)	GCST90200227	13	94159027	C	T	4814	0.11	0.02	0.00	0.00	19.78
rs8025144	3-ethylcatechol sulfate (2)	GCST90200227	15	35073889	A	G	4814	0.24	0.05	0.00	0.00	20.98
rs117755099	3-ethylcatechol sulfate (2)	GCST90200227	18	41447904	G	A	4814	-0.27	0.06	0.00	0.00	20.05
rs16994553	3-ethylcatechol sulfate (2)	GCST90200227	20	49389215	C	T	4814	-0.14	0.03	0.00	0.01	27.82
rs7541058	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	1	75734132	T	C	8227	0.12	0.02	0.00	0.01	63.94
rs114178782	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	2	130264640	T	C	8227	0.23	0.05	0.00	0.00	22.79
rs1046675	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	2	151379884	G	A	8227	0.12	0.02	0.00	0.00	31.12
rs182956929	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	3	134996574	T	C	8227	0.19	0.04	0.00	0.00	20.60
rs57812887	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	3	175375481	A	G	8227	0.07	0.02	0.00	0.00	20.37
rs10030676	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	4	82181586	T	A	8227	-0.14	0.03	0.00	0.00	20.10
rs733251	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	5	58135637	T	C	8227	0.09	0.02	0.00	0.00	22.04
rs9320712	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	6	119798808	A	G	8227	0.13	0.03	0.00	0.00	22.08
rs73271154	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	7	20063186	A	T	8227	0.15	0.03	0.00	0.00	20.80

rs75207127	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	8	87951112	C	G	8227	0.20	0.04	0.00	0.00	25.20
rs118135221	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	9	7726374	C	T	8227	-0.27	0.06	0.00	0.00	19.67
rs62565130	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	9	92284773	C	A	8227	0.17	0.04	0.00	0.00	21.03
rs1171617	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	10	59707424	T	G	8227	0.17	0.02	0.00	0.01	94.26
rs75673453	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	12	118551987	A	G	8227	0.15	0.03	0.00	0.00	21.24
rs78747153	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	13	56819109	A	G	8227	0.15	0.03	0.00	0.00	19.99
rs11157835	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	14	51576106	A	G	8227	0.14	0.03	0.00	0.00	20.89
rs2781423	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	14	97527817	C	G	8227	0.08	0.02	0.00	0.00	22.35
rs11882311	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	19	52691091	T	C	8227	0.11	0.02	0.00	0.00	20.35
rs4814608	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	20	17349860	T	C	8227	-0.07	0.02	0.00	0.00	21.55
rs1535126	3-hydroxyhexanoylcarnitine (1) levels	GCST90200228	22	49009461	C	G	8227	-0.07	0.02	0.00	0.00	22.42
rs12731266	2,6-dihydroxybenzoic acid levels	GCST90200229	1	41596413	C	T	8269	0.12	0.03	0.00	0.00	20.47
rs10179725	2,6-dihydroxybenzoic acid levels	GCST90200229	2	122649741	G	A	8269	-0.10	0.02	0.00	0.00	20.87
rs112729575	2,6-dihydroxybenzoic acid levels	GCST90200229	2	176168416	G	A	8269	-0.16	0.03	0.00	0.00	22.40
rs35500893	2,6-dihydroxybenzoic acid levels	GCST90200229	2	226350490	G	A	8269	0.08	0.02	0.00	0.00	21.87
rs62273871	2,6-dihydroxybenzoic acid levels	GCST90200229	3	147987158	C	T	8269	0.18	0.04	0.00	0.00	20.30
rs2342307	2,6-dihydroxybenzoic acid levels	GCST90200229	3	196215616	G	A	8269	-0.17	0.02	0.00	0.01	121.15
rs78472985	2,6-dihydroxybenzoic acid levels	GCST90200229	4	12723595	T	G	8269	0.18	0.04	0.00	0.00	22.93
rs2125697	2,6-dihydroxybenzoic acid levels	GCST90200229	4	165698560	T	G	8269	0.09	0.02	0.00	0.00	21.31
rs1976311	2,6-dihydroxybenzoic acid levels	GCST90200229	5	114340308	G	C	8269	-0.24	0.05	0.00	0.00	22.29
rs148011554	2,6-dihydroxybenzoic acid levels	GCST90200229	5	128313800	A	C	8269	-0.22	0.05	0.00	0.00	21.32

rs1165187	2,6-dihydroxybenzoic acid levels	GCST90200229	6	25851141	C	T	8269	0.11	0.02	0.00	0.00	36.26
rs72989684	2,6-dihydroxybenzoic acid levels	GCST90200229	6	148650301	G	A	8269	-0.25	0.06	0.00	0.00	19.99
rs79027746	2,6-dihydroxybenzoic acid levels	GCST90200229	6	165966511	A	G	8269	-0.20	0.04	0.00	0.00	19.70
rs186446669	2,6-dihydroxybenzoic acid levels	GCST90200229	7	72273317	T	G	8269	-0.28	0.05	0.00	0.00	26.46
rs4626725	2,6-dihydroxybenzoic acid levels	GCST90200229	9	97147109	C	T	8269	-0.08	0.02	0.00	0.00	19.92
rs10984525	2,6-dihydroxybenzoic acid levels	GCST90200229	9	119423348	T	G	8269	-0.07	0.02	0.00	0.00	19.51
rs10847618	2,6-dihydroxybenzoic acid levels	GCST90200229	12	128427185	G	A	8269	-0.10	0.02	0.00	0.00	25.99
rs114859352	2,6-dihydroxybenzoic acid levels	GCST90200229	14	84593279	T	C	8269	0.20	0.04	0.00	0.00	22.71
rs7154612	2,6-dihydroxybenzoic acid levels	GCST90200229	14	86890496	C	G	8269	-0.07	0.02	0.00	0.00	21.99
rs72967020	2,6-dihydroxybenzoic acid levels	GCST90200229	18	76511862	T	A	8269	-0.11	0.02	0.00	0.00	23.02
rs2426635	2,6-dihydroxybenzoic acid levels	GCST90200229	20	56707672	A	G	8269	-0.10	0.02	0.00	0.00	21.56
rs141374867	2,6-dihydroxybenzoic acid levels	GCST90200229	21	28379058	G	A	8269	-0.30	0.07	0.00	0.00	20.45
rs72730837	3-ethylcatechol sulfate (1)	GCST90200230	1	221435400	G	A	7062	-0.31	0.07	0.00	0.00	20.10
rs57165465	3-ethylcatechol sulfate (1)	GCST90200230	2	137853938	T	A	7062	0.10	0.02	0.00	0.00	19.75
rs6708787	3-ethylcatechol sulfate (1)	GCST90200230	2	195324304	A	G	7062	0.18	0.04	0.00	0.00	19.72
rs146775197	3-ethylcatechol sulfate (1)	GCST90200230	2	230342352	T	C	7062	-0.22	0.05	0.00	0.00	21.56
rs113250885	3-ethylcatechol sulfate (1)	GCST90200230	2	233607724	G	A	7062	-0.17	0.03	0.00	0.00	24.96
rs186493043	3-ethylcatechol sulfate (1)	GCST90200230	4	3727697	G	A	7062	-0.36	0.08	0.00	0.00	19.57
rs62337911	3-ethylcatechol sulfate (1)	GCST90200230	4	182887202	G	A	7062	-0.20	0.04	0.00	0.00	21.94
rs17364304	3-ethylcatechol sulfate (1)	GCST90200230	5	21901971	A	G	7062	0.15	0.03	0.00	0.00	20.00
rs13166177	3-ethylcatechol sulfate (1)	GCST90200230	5	44393676	A	G	7062	0.16	0.03	0.00	0.00	23.54
rs728398	3-ethylcatechol sulfate (1)	GCST90200230	6	45805137	A	G	7062	-0.13	0.03	0.00	0.00	20.06
rs10272022	3-ethylcatechol sulfate (1)	GCST90200230	7	20547785	A	G	7062	0.15	0.03	0.00	0.00	19.93
rs73158144	3-ethylcatechol sulfate (1)	GCST90200230	7	151670062	A	G	7062	-0.12	0.02	0.00	0.00	24.78

rs66838044	3-ethylcatechol sulfate (1)	GCST90200230	8	55960413	G	A	7062	-0.10	0.02	0.00	0.00	21.78
rs77147353	3-ethylcatechol sulfate (1)	GCST90200230	9	106518065	C	G	7062	-0.25	0.05	0.00	0.00	23.74
rs11018367	3-ethylcatechol sulfate (1)	GCST90200230	10	127863422	C	G	7062	0.12	0.02	0.00	0.00	23.90
rs117546594	3-ethylcatechol sulfate (1)	GCST90200230	12	100451447	G	A	7062	0.26	0.06	0.00	0.00	20.16
rs77763039	3-ethylcatechol sulfate (1)	GCST90200230	12	114014141	G	A	7062	-0.21	0.05	0.00	0.00	21.51
rs181906905	3-ethylcatechol sulfate (1)	GCST90200230	14	26268598	T	C	7062	0.39	0.08	0.00	0.00	21.32
rs117736245	3-ethylcatechol sulfate (1)	GCST90200230	14	27689972	G	T	7062	-0.26	0.05	0.00	0.00	25.52
rs2472297	3-ethylcatechol sulfate (1)	GCST90200230	15	74735539	T	C	7062	0.09	0.02	0.00	0.00	23.23
rs655689	3-ethylcatechol sulfate (1)	GCST90200230	19	48816956	C	T	7062	-0.09	0.02	0.00	0.00	22.90
rs111929407	3-ethylcatechol sulfate (1)	GCST90200230	19	52894744	C	T	7062	-0.38	0.08	0.00	0.00	20.60
rs5750116	3-ethylcatechol sulfate (1)	GCST90200230	22	35568675	T	C	7062	0.09	0.02	0.00	0.00	22.08
rs189669637	Lithocholate sulfate (1) levels	GCST90200231	1	97318627	C	T	7891	-0.33	0.07	0.00	0.00	20.36
rs145760339	Lithocholate sulfate (1) levels	GCST90200231	1	220888757	C	T	7891	-0.22	0.05	0.00	0.00	19.76
rs10490168	Lithocholate sulfate (1) levels	GCST90200231	2	50908336	T	C	7891	0.08	0.02	0.00	0.00	21.45
rs62278676	Lithocholate sulfate (1) levels	GCST90200231	3	161916453	G	C	7891	-0.15	0.03	0.00	0.00	22.09
rs11568993	Lithocholate sulfate (1) levels	GCST90200231	4	109976159	T	C	7891	0.14	0.03	0.00	0.00	24.97
rs13117121	Lithocholate sulfate (1) levels	GCST90200231	4	159857461	G	A	7891	0.11	0.02	0.00	0.00	21.49
rs4530839	Lithocholate sulfate (1) levels	GCST90200231	6	67781475	C	T	7891	-0.09	0.02	0.00	0.00	22.91
rs2348060	Lithocholate sulfate (1) levels	GCST90200231	6	113290863	C	T	7891	0.07	0.02	0.00	0.00	20.07
rs1705268	Lithocholate sulfate (1) levels	GCST90200231	9	91179983	C	A	7891	-0.09	0.02	0.00	0.00	21.13
rs10125565	Lithocholate sulfate (1) levels	GCST90200231	9	109593113	T	G	7891	0.07	0.02	0.00	0.00	21.07
rs113391104	Lithocholate sulfate (1) levels	GCST90200231	10	6156417	T	A	7891	0.14	0.03	0.00	0.00	23.63
rs148390366	Lithocholate sulfate (1) levels	GCST90200231	10	54881197	T	C	7891	-0.40	0.09	0.00	0.00	21.64
rs113513789	Lithocholate sulfate (1) levels	GCST90200231	10	99849162	A	G	7891	-0.17	0.03	0.00	0.00	24.90

rs2417966	Lithocholate sulfate (1) levels	GCST90200231	12	21190295	G	C	7891	0.12	0.02	0.00	0.01	46.53
rs11045856	Lithocholate sulfate (1) levels	GCST90200231	12	21197755	G	T	7891	-0.19	0.02	0.00	0.01	111.92
rs73169705	Lithocholate sulfate (1) levels	GCST90200231	13	35253023	A	G	7891	-0.25	0.05	0.00	0.00	23.15
rs11747347 8	Lithocholate sulfate (1) levels	GCST90200231	14	49241948	T	C	7891	0.18	0.04	0.00	0.00	26.77
rs79244624	Lithocholate sulfate (1) levels	GCST90200231	17	50044512	G	A	7891	-0.15	0.03	0.00	0.00	20.00
rs75563915	Lithocholate sulfate (1) levels	GCST90200231	17	66072134	C	A	7891	-0.24	0.05	0.00	0.00	27.01
rs62086494	Lithocholate sulfate (1) levels	GCST90200231	18	4228261	T	A	7891	0.16	0.03	0.00	0.00	20.91
rs10425975	Lithocholate sulfate (1) levels	GCST90200231	19	47881378	A	G	7891	0.23	0.02	0.00	0.01	116.18
rs14907823 4	Lithocholate sulfate (1) levels	GCST90200231	20	17443418	G	A	7891	-0.38	0.08	0.00	0.00	22.65
rs1892853	Lithocholate sulfate (1) levels	GCST90200231	21	22309388	G	T	7891	0.08	0.02	0.00	0.00	21.30
rs19301372 1	acetylcatechol sulfate (1) levels	GCST90200232	1	7089515	G	A	7565	-0.30	0.07	0.00	0.00	19.54
rs74461850	acetylcatechol sulfate (1) levels	GCST90200232	2	224424446	C	T	7565	0.15	0.03	0.00	0.00	19.79
rs77174761	acetylcatechol sulfate (1) levels	GCST90200232	3	133320899	G	A	7565	0.34	0.08	0.00	0.00	19.77
rs2667092	acetylcatechol sulfate (1) levels	GCST90200232	4	142042451	G	C	7565	0.10	0.02	0.00	0.00	19.66
rs10038317	acetylcatechol sulfate (1) levels	GCST90200232	5	124594036	C	A	7565	-0.12	0.03	0.00	0.00	21.55
rs6866421	acetylcatechol sulfate (1) levels	GCST90200232	5	147398315	A	G	7565	-0.10	0.02	0.00	0.00	19.61
rs1833208	acetylcatechol sulfate (1) levels	GCST90200232	7	36746463	G	A	7565	0.12	0.03	0.00	0.00	19.55
rs12548026	acetylcatechol sulfate (1) levels	GCST90200232	8	25773031	C	G	7565	0.07	0.02	0.00	0.00	19.59
rs14803307 4	acetylcatechol sulfate (1) levels	GCST90200232	8	34387988	T	C	7565	-0.29	0.06	0.00	0.00	20.47
rs18814811 6	acetylcatechol sulfate (1) levels	GCST90200232	8	79033071	A	G	7565	0.35	0.08	0.00	0.00	21.28
rs78580481	acetylcatechol sulfate (1) levels	GCST90200232	8	131837170	T	A	7565	0.34	0.08	0.00	0.00	19.71

rs143105784	4-acetylcatechol sulfate (1) levels	GCST90200232	11	94164505	G	A	7565	0.34	0.07	0.00	0.00	21.29
rs80195744	4-acetylcatechol sulfate (1) levels	GCST90200232	11	123394730	C	T	7565	-0.21	0.04	0.00	0.00	22.15
rs147253216	4-acetylcatechol sulfate (1) levels	GCST90200232	12	34622196	A	G	7565	1.32	0.27	0.00	0.00	23.07
rs7327574	4-acetylcatechol sulfate (1) levels	GCST90200232	13	45314283	C	T	7565	-0.08	0.02	0.00	0.00	20.65
rs8084703	4-acetylcatechol sulfate (1) levels	GCST90200232	18	27916981	G	A	7565	-0.14	0.03	0.00	0.00	20.53
rs56205922	4-acetylcatechol sulfate (1) levels	GCST90200232	18	75130364	C	T	7565	0.08	0.02	0.00	0.00	20.19
rs11539588	4-acetylcatechol sulfate (1) levels	GCST90200232	19	6735918	T	C	7565	0.30	0.07	0.00	0.00	19.72
rs143550070	4-acetylcatechol sulfate (1) levels	GCST90200232	21	16457169	G	T	7565	-0.32	0.07	0.00	0.00	21.28
rs75063835	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	1	116669956	A	G	8225	-0.19	0.04	0.00	0.00	22.41
rs36004306	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	1	197091956	C	A	8225	0.15	0.03	0.00	0.00	21.13
rs12047297	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	1	220511010	A	G	8225	0.07	0.01	0.00	0.00	20.72
rs79799178	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	2	73564108	G	A	8225	-0.09	0.02	0.00	0.00	26.15
rs115330083	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	2	146779140	A	G	8225	0.28	0.06	0.00	0.00	19.62
rs1047891	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	2	210675783	A	C	8225	-0.08	0.02	0.00	0.00	25.43
rs149953577	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	3	58747992	T	C	8225	-0.33	0.07	0.00	0.00	19.81
rs13874	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	3	66369532	T	C	8225	0.09	0.01	0.00	0.01	45.18
rs11718972	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	3	135970320	T	C	8225	0.12	0.03	0.00	0.00	20.08
rs7654754	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	4	76488642	A	G	8225	0.07	0.01	0.00	0.00	23.72

rs18401339 2	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	4	129447760	T	A	8225	0.24	0.05	0.00	0.00	19.84
rs35201057	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	4	180622526	T	A	8225	-0.25	0.05	0.00	0.00	23.63
rs2636966	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	5	119459995	C	T	8225	-0.09	0.02	0.00	0.00	19.66
rs53511487 1	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	6	8030449	T	C	8225	0.31	0.07	0.00	0.00	21.25
rs13199873	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	6	43072630	C	A	8225	0.08	0.01	0.00	0.00	27.67
rs7782140	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	7	38898378	G	A	8225	-0.11	0.02	0.00	0.00	23.03
rs2158725	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	7	83667925	C	T	8225	0.10	0.02	0.00	0.00	19.57
rs10274962	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	7	155551140	C	G	8225	0.12	0.02	0.00	0.00	21.83
rs17239730	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	8	120358320	C	T	8225	-0.14	0.03	0.00	0.00	21.49
rs78036941	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	10	83312126	C	T	8225	0.16	0.04	0.00	0.00	19.96
rs1936838	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	10	127629384	T	C	8225	-0.11	0.02	0.00	0.00	19.93
rs4910140	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	11	10453649	C	T	8225	-0.10	0.02	0.00	0.00	24.20
rs11029652	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	11	26625240	G	A	8225	-0.07	0.01	0.00	0.00	21.82
rs72995259	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	11	99562737	C	G	8225	0.09	0.02	0.00	0.00	23.33
rs4938583	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	11	111424537	T	C	8225	0.07	0.02	0.00	0.00	20.34
rs14120920 4	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	12	10294697	A	G	8225	0.33	0.07	0.00	0.00	21.07
rs14913134 5	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	13	95571313	A	C	8225	-0.16	0.04	0.00	0.00	19.62
rs14899451 3	2,3-dihydroxy- 5-methylthio- 4-pentenoate (dmtna) levels	GCST90200233	14	25631373	G	A	8225	0.34	0.08	0.00	0.00	19.77

rs8059901	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	16	9489299	C	G	8225	0.32	0.07	0.00	0.00	20.45
rs77924615	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	16	20381010	A	G	8225	-0.09	0.02	0.00	0.00	26.16
rs147754695	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	17	79046845	A	G	8225	-0.29	0.06	0.00	0.00	24.09
rs296392	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	19	47864789	T	C	8225	0.06	0.01	0.00	0.00	20.49
rs479229	2,3-dihydroxy-5-methylthio-4-pentenoate (dmtna) levels	GCST90200233	22	27330110	G	A	8225	0.08	0.02	0.00	0.00	24.03
rs186075993	Picolinoylglycine levels	GCST90200234	1	205749839	A	G	7862	-0.29	0.06	0.00	0.00	23.44
rs72841284	Picolinoylglycine levels	GCST90200234	2	88324489	A	C	7862	0.38	0.08	0.00	0.00	21.13
rs141004856	Picolinoylglycine levels	GCST90200234	2	139535383	T	C	7862	-0.08	0.02	0.00	0.00	24.29
rs114805200	Picolinoylglycine levels	GCST90200234	2	155100321	G	C	7862	0.26	0.06	0.00	0.00	21.05
rs34329242	Picolinoylglycine levels	GCST90200234	2	157908517	T	A	7862	-0.14	0.03	0.00	0.00	21.85
rs72930426	Picolinoylglycine levels	GCST90200234	2	198051235	C	T	7862	0.11	0.02	0.00	0.00	22.74
rs77213991	Picolinoylglycine levels	GCST90200234	2	234764588	T	C	7862	-0.20	0.05	0.00	0.00	19.65
rs71608203	Picolinoylglycine levels	GCST90200234	4	2487113	A	C	7862	0.26	0.06	0.00	0.00	20.71
rs62372188	Picolinoylglycine levels	GCST90200234	5	54215137	T	C	7862	0.10	0.02	0.00	0.00	20.82
rs148267752	Picolinoylglycine levels	GCST90200234	5	114988192	A	C	7862	-0.37	0.08	0.00	0.00	19.83
rs72841293	Picolinoylglycine levels	GCST90200234	6	4057194	T	C	7862	-0.32	0.07	0.00	0.00	20.45
rs41286234	Picolinoylglycine levels	GCST90200234	6	134918620	C	G	7862	0.31	0.06	0.00	0.00	30.65
rs77160992	Picolinoylglycine levels	GCST90200234	6	136669771	T	C	7862	0.20	0.04	0.00	0.00	24.28
rs76073478	Picolinoylglycine levels	GCST90200234	7	10804524	C	T	7862	0.13	0.03	0.00	0.00	19.75
rs10840947	Picolinoylglycine levels	GCST90200234	12	18075892	C	T	7862	-0.07	0.02	0.00	0.00	20.22
rs7956304	Picolinoylglycine levels	GCST90200234	12	120651648	A	G	7862	0.08	0.02	0.00	0.00	19.63
rs12874773	Picolinoylglycine levels	GCST90200234	13	39137873	A	G	7862	-0.09	0.02	0.00	0.00	20.24
rs9564333	Picolinoylglycine levels	GCST90200234	13	66706119	C	T	7862	-0.08	0.02	0.00	0.00	21.36
rs150610008	Picolinoylglycine levels	GCST90200234	13	95619610	G	A	7862	0.14	0.03	0.00	0.00	20.84
rs72797767	Picolinoylglycine levels	GCST90200234	16	71572813	C	A	7862	-0.11	0.02	0.00	0.00	20.46
rs258317	Picolinoylglycine levels	GCST90200234	16	89665830	T	C	7862	0.11	0.02	0.00	0.01	53.49
rs383123	Picolinoylglycine levels	GCST90200234	17	8876896	C	T	7862	-0.07	0.02	0.00	0.00	20.23
rs73062202	Picolinoylglycine levels	GCST90200234	19	58444165	A	T	7862	-0.49	0.10	0.00	0.00	24.65
rs16979884	Picolinoylglycine levels	GCST90200234	20	56403979	A	G	7862	0.12	0.03	0.00	0.00	21.74
rs12076680	Succinoyltaurine levels	GCST90200235	1	46182221	A	G	7897	-0.10	0.02	0.00	0.01	41.34
rs324420	Succinoyltaurine levels	GCST90200235	1	46405089	A	C	7897	0.39	0.02	0.00	0.05	454.27
rs1890251	Succinoyltaurine levels	GCST90200235	1	46807073	A	G	7897	-0.11	0.02	0.00	0.00	26.23

rs6577129	Succinoyltaurine levels	GCST90200235	1	99738746	C	T	7897	0.14	0.03	0.00	0.00	20.36
rs2369137	Succinoyltaurine levels	GCST90200235	1	159667397	G	C	7897	0.12	0.02	0.00	0.00	24.93
rs12487736	Succinoyltaurine levels	GCST90200235	3	47418189	T	C	7897	0.07	0.02	0.00	0.00	20.39
rs62249072	Succinoyltaurine levels	GCST90200235	3	55367419	T	C	7897	-0.12	0.02	0.00	0.00	23.80
rs6851179	Succinoyltaurine levels	GCST90200235	4	6346570	G	A	7897	0.23	0.05	0.00	0.00	20.03
rs4862274	Succinoyltaurine levels	GCST90200235	4	183946258	G	A	7897	0.50	0.10	0.00	0.00	23.22
rs57983993	Succinoyltaurine levels	GCST90200235	5	43666570	A	G	7897	0.09	0.02	0.00	0.00	20.56
rs9359837	Succinoyltaurine levels	GCST90200235	6	89029502	C	T	7897	0.07	0.02	0.00	0.00	20.36
rs34510300	Succinoyltaurine levels	GCST90200235	7	96113978	A	T	7897	-0.14	0.03	0.00	0.00	20.86
rs73199341	Succinoyltaurine levels	GCST90200235	8	15775067	A	G	7897	0.31	0.07	0.00	0.00	20.47
rs190041111	Succinoyltaurine levels	GCST90200235	8	118363485	C	T	7897	0.51	0.11	0.00	0.00	21.67
rs1899064	Succinoyltaurine levels	GCST90200235	8	136506071	C	T	7897	-0.12	0.03	0.00	0.00	21.53
rs1341761	Succinoyltaurine levels	GCST90200235	9	101364001	A	C	7897	-0.19	0.02	0.00	0.01	80.44
rs1771220	Succinoyltaurine levels	GCST90200235	9	113401365	C	G	7897	-0.08	0.02	0.00	0.00	22.55
rs72868316	Succinoyltaurine levels	GCST90200235	10	133391165	A	G	7897	0.22	0.05	0.00	0.00	22.30
rs184333012	Succinoyltaurine levels	GCST90200235	11	62618135	T	C	7897	0.24	0.05	0.00	0.00	20.01
rs74759874	Succinoyltaurine levels	GCST90200235	12	70075793	T	C	7897	-0.18	0.04	0.00	0.00	20.12
rs7957329	Succinoyltaurine levels	GCST90200235	12	97867702	T	C	7897	0.07	0.02	0.00	0.00	19.83
rs139486631	Succinoyltaurine levels	GCST90200235	13	102624113	C	T	7897	0.27	0.06	0.00	0.00	20.18
rs78220298	Succinoyltaurine levels	GCST90200235	15	80219351	G	A	7897	1.86	0.40	0.00	0.00	22.13
rs7190216	Succinoyltaurine levels	GCST90200235	16	12782705	C	T	7897	-0.27	0.05	0.00	0.00	24.22
rs374429843	Succinoyltaurine levels	GCST90200235	17	888958	G	A	7897	-0.17	0.03	0.00	0.00	23.80
rs727206	Succinoyltaurine levels	GCST90200235	17	33591090	A	G	7897	0.08	0.02	0.00	0.00	22.71
rs2635515	Succinoyltaurine levels	GCST90200235	18	48979668	C	T	7897	0.27	0.06	0.00	0.00	21.26
rs78103450	Succinoyltaurine levels	GCST90200235	18	73862013	A	C	7897	-0.22	0.05	0.00	0.00	20.63
rs2108622	Succinoyltaurine levels	GCST90200235	19	15879621	T	C	7897	-0.34	0.02	0.00	0.05	416.00
rs1126742	Undecenoylcar nitine (C11:1) levels	GCST90200236	1	46932824	G	A	8253	0.26	0.02	0.00	0.02	138.82
rs2473787	Undecenoylcar nitine (C11:1) levels	GCST90200236	1	68643768	A	C	8253	0.08	0.02	0.00	0.00	20.11
rs28463213	Undecenoylcar nitine (C11:1) levels	GCST90200236	1	103308543	A	G	8253	0.09	0.02	0.00	0.00	24.24
rs6693388	Undecenoylcar nitine (C11:1) levels	GCST90200236	1	151958169	C	T	8253	0.17	0.02	0.00	0.01	106.53
rs139913430	Undecenoylcar nitine (C11:1) levels	GCST90200236	1	236606334	C	A	8253	0.25	0.05	0.00	0.00	26.91
rs62257650	Undecenoylcar nitine (C11:1) levels	GCST90200236	3	41346149	A	C	8253	-0.25	0.06	0.00	0.00	20.09
rs76138406	Undecenoylcar nitine (C11:1) levels	GCST90200236	3	190373943	C	A	8253	-0.10	0.02	0.00	0.00	21.96

rs17032121	Undecenoylcar	GCST90200236	4	102157460	T	C	8253	0.12	0.02	0.00	0.00	22.96
	nitine (C11:1) levels											
rs2272229	Undecenoylcar	GCST90200236	4	113339485	A	G	8253	-0.12	0.03	0.00	0.00	21.63
	nitine (C11:1) levels											
rs17487420	Undecenoylcar	GCST90200236	4	149126291	T	A	8253	-0.18	0.04	0.00	0.00	22.19
	nitine (C11:1) levels											
rs433388	Undecenoylcar	GCST90200236	5	63285683	A	C	8253	-0.08	0.02	0.00	0.00	21.32
	nitine (C11:1) levels											
rs11135209	Undecenoylcar	GCST90200236	5	162426057	C	T	8253	-1.14	0.25	0.00	0.00	20.43
	nitine (C11:1) levels											
rs349609	Undecenoylcar	GCST90200236	5	166540271	G	A	8253	-0.09	0.02	0.00	0.00	20.09
	nitine (C11:1) levels											
rs79123154	Undecenoylcar	GCST90200236	7	141336132	T	C	8253	-0.30	0.07	0.00	0.00	20.54
	nitine (C11:1) levels											
rs6991699	Undecenoylcar	GCST90200236	8	68493195	T	G	8253	-0.16	0.03	0.00	0.00	19.75
	nitine (C11:1) levels											
rs10086743	Undecenoylcar	GCST90200236	8	113880846	T	G	8253	0.07	0.02	0.00	0.00	22.20
	nitine (C11:1) levels											
rs112092899	Undecenoylcar	GCST90200236	9	7763448	A	G	8253	-0.29	0.06	0.00	0.00	21.36
	nitine (C11:1) levels											
rs11789139	Undecenoylcar	GCST90200236	9	133318489	G	C	8253	0.09	0.02	0.00	0.00	19.53
	nitine (C11:1) levels											
rs10826337	Undecenoylcar	GCST90200236	10	59649711	A	G	8253	0.09	0.02	0.00	0.00	31.21
	nitine (C11:1) levels											
rs7098173	Undecenoylcar	GCST90200236	10	128547331	C	A	8253	0.10	0.02	0.00	0.00	20.05
	nitine (C11:1) levels											
rs78029652	Undecenoylcar	GCST90200236	11	95830342	G	A	8253	-0.49	0.09	0.00	0.00	30.50
	nitine (C11:1) levels											
rs67981690	Undecenoylcar	GCST90200236	12	21190952	G	A	8253	0.10	0.02	0.00	0.00	20.55
	nitine (C11:1) levels											
rs575293543	Undecenoylcar	GCST90200236	12	46620221	C	T	8253	0.25	0.05	0.00	0.00	22.02
	nitine (C11:1) levels											
rs4882635	Undecenoylcar	GCST90200236	12	75618037	A	G	8253	0.07	0.02	0.00	0.00	19.90
	nitine (C11:1) levels											
rs8009347	Undecenoylcar	GCST90200236	14	73092858	C	T	8253	0.10	0.02	0.00	0.00	40.48
	nitine (C11:1) levels											
rs58231493	Undecenoylcar	GCST90200236	14	73565418	T	C	8253	0.25	0.02	0.00	0.03	266.45
	nitine (C11:1) levels											
rs111225879	Undecenoylcar	GCST90200236	14	74032133	A	T	8253	0.19	0.03	0.00	0.00	36.20
	nitine (C11:1) levels											
rs1619400	Undecenoylcar	GCST90200236	17	43928891	T	C	8253	-0.08	0.02	0.00	0.00	23.69
	nitine (C11:1) levels											
rs13381225	Undecenoylcar	GCST90200236	18	45232162	A	G	8253	0.09	0.02	0.00	0.00	19.72
	nitine (C11:1) levels											
rs112817056	Undecenoylcar	GCST90200236	21	25364765	G	A	8253	0.12	0.03	0.00	0.00	20.31
	nitine (C11:1) levels											

rs11591147	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	1	55039974	T	G	8140	-0.35	0.06	0.00	0.00	36.37
rs10782533	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	1	84919629	T	C	8140	0.07	0.02	0.00	0.00	21.60
rs116557385	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	1	98472564	T	A	8140	0.18	0.04	0.00	0.00	21.44
rs17371133	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	1	172859340	C	A	8140	0.07	0.02	0.00	0.00	22.35
rs1539454	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	1	219810438	C	T	8140	-0.33	0.07	0.00	0.00	23.07
rs2090876	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	1	237722846	A	C	8140	-0.09	0.02	0.00	0.00	20.32
rs1260338	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	2	27402794	G	A	8140	0.08	0.02	0.00	0.00	28.58
rs12992111	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	2	68038499	C	A	8140	-0.12	0.03	0.00	0.00	19.62
rs79757984	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	2	168775111	G	A	8140	-0.27	0.06	0.00	0.00	19.88
rs838435	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	2	231719943	C	G	8140	-0.08	0.02	0.00	0.00	20.49
rs145053049	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	3	1065270	G	A	8140	0.24	0.05	0.00	0.00	21.74
rs74490962	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	5	94127268	C	A	8140	0.26	0.06	0.00	0.00	20.46

rs9460502	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) level	GCST90200237	6	20414589	G	A	8140	0.07	0.02	0.00	0.00	21.06
rs2818263	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) level	GCST90200237	6	107599632	A	G	8140	0.08	0.02	0.00	0.00	20.52
rs10455872	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) level	GCST90200237	6	160589086	G	A	8140	0.15	0.03	0.00	0.00	27.15
rs4722551	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) level	GCST90200237	7	25952206	C	T	8140	0.09	0.02	0.00	0.00	20.70
rs13246490	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) level	GCST90200237	7	73578020	T	C	8140	0.14	0.02	0.00	0.00	35.11
rs141365120	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) level	GCST90200237	8	58805216	T	A	8140	0.26	0.06	0.00	0.00	20.34
rs55706247	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) level	GCST90200237	8	106855002	G	A	8140	-0.12	0.03	0.00	0.00	20.34
rs10098729	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) level	GCST90200237	8	127552553	C	T	8140	-0.12	0.03	0.00	0.00	20.55
rs1631927	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) level	GCST90200237	9	10060192	A	C	8140	-0.07	0.02	0.00	0.00	20.34
rs2393776	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) level	GCST90200237	12	120986603	A	G	8140	0.07	0.02	0.00	0.00	21.96
rs9514072	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) level	GCST90200237	13	102926085	G	C	8140	0.08	0.02	0.00	0.00	21.54
rs9555735	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) level	GCST90200237	13	110844533	T	C	8140	0.08	0.02	0.00	0.00	22.93

rs11161178	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	15	25444144	G	A	8140	0.09	0.02	0.00	0.00	22.42
rs117671256	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	16	80916304	T	C	8140	-0.22	0.05	0.00	0.00	20.01
rs748196	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	17	17519454	G	T	8140	0.08	0.02	0.00	0.00	25.73
rs141799818	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	17	29074949	T	G	8140	-0.33	0.07	0.00	0.00	22.87
rs114448690	Palmitoyl-sphingosine-phosphoethanolamine (d18:1/16:0) levels	GCST90200237	19	44928196	A	G	8140	-0.13	0.03	0.00	0.00	20.59
rs35015532	Pregnenetriol disulfate levels	GCST90200238	1	26425638	G	A	8228	0.08	0.02	0.00	0.00	27.90
rs186110340	Pregnenetriol disulfate levels	GCST90200238	1	154443372	G	C	8228	-0.24	0.05	0.00	0.00	20.78
rs79510645	Pregnenetriol disulfate levels	GCST90200238	1	198115991	A	G	8228	-1.17	0.24	0.00	0.00	23.56
rs12759507	Pregnenetriol disulfate levels	GCST90200238	1	205577487	T	C	8228	-0.07	0.01	0.00	0.00	25.01
rs2011425	Pregnenetriol disulfate levels	GCST90200238	2	233718962	G	T	8228	-0.16	0.03	0.00	0.00	39.53
rs12497018	Pregnenetriol disulfate levels	GCST90200238	3	50264139	A	G	8228	-1.11	0.24	0.00	0.00	21.35
rs139343726	Pregnenetriol disulfate levels	GCST90200238	3	128105342	C	G	8228	-0.41	0.09	0.00	0.00	22.28
rs72938170	Pregnenetriol disulfate levels	GCST90200238	6	52871587	T	C	8228	-0.07	0.01	0.00	0.00	22.15
rs62461553	Pregnenetriol disulfate levels	GCST90200238	7	64576997	A	C	8228	-0.10	0.01	0.00	0.01	50.31
rs112471641	Pregnenetriol disulfate levels	GCST90200238	7	117401212	C	T	8228	-0.38	0.08	0.00	0.00	25.61
rs72838150	Pregnenetriol disulfate levels	GCST90200238	10	99849905	A	G	8228	-0.18	0.03	0.00	0.00	36.82
rs72838683	Pregnenetriol disulfate levels	GCST90200238	10	101008477	T	C	8228	0.14	0.03	0.00	0.00	19.84
rs174602	Pregnenetriol disulfate levels	GCST90200238	11	61856942	C	T	8228	0.09	0.02	0.00	0.00	22.43
rs4149056	Pregnenetriol disulfate levels	GCST90200238	12	21178615	C	T	8228	0.11	0.02	0.00	0.00	30.10
rs112854985	Pregnenetriol disulfate levels	GCST90200238	12	31794172	A	G	8228	0.09	0.02	0.00	0.00	19.52
rs1407611	Pregnenetriol disulfate levels	GCST90200238	13	37419059	T	C	8228	0.07	0.01	0.00	0.00	22.31
rs61978604	Pregnenetriol disulfate levels	GCST90200238	14	20849153	C	T	8228	-0.08	0.02	0.00	0.00	19.85
rs4902945	Pregnenetriol disulfate levels	GCST90200238	14	71692944	C	T	8228	0.07	0.02	0.00	0.00	19.68
rs12443807	Pregnenetriol disulfate levels	GCST90200238	16	7152175	T	C	8228	0.10	0.02	0.00	0.00	20.24
rs7196069	Pregnenetriol disulfate levels	GCST90200238	16	81527851	C	G	8228	0.14	0.03	0.00	0.00	24.12
rs10460102	Pregnenetriol disulfate levels	GCST90200238	18	29653238	C	A	8228	-0.10	0.02	0.00	0.00	20.10
rs61678011	Pregnenetriol disulfate levels	GCST90200238	19	33232372	T	C	8228	-0.22	0.05	0.00	0.00	22.01

rs212100	Pregnenetriol disulfate levels	GCST90200238	19	47873738	C	T	8228	0.56	0.02	0.00	0.10	926.87
rs11789736 1	Pregnenetriol disulfate levels	GCST90200238	19	47900750	A	G	8228	0.17	0.04	0.00	0.00	22.21
rs680891	Pregnenetriol disulfate levels	GCST90200238	19	54821568	T	C	8228	0.10	0.02	0.00	0.00	28.46
rs1126742	Tetradecadien edioate (C14:2-DC)	GCST90200239	1	46932824	G	A	7857	-0.11	0.02	0.00	0.00	22.58
rs17657156	Tetradecadien edioate (C14:2-DC)	GCST90200239	1	239763709	G	A	7857	-0.12	0.03	0.00	0.00	19.80
rs78184872	Tetradecadien edioate (C14:2-DC)	GCST90200239	3	55296264	A	G	7857	0.22	0.05	0.00	0.00	22.87
rs12330417	Tetradecadien edioate (C14:2-DC)	GCST90200239	3	65179659	G	A	7857	0.08	0.02	0.00	0.00	20.84
rs75281658	Tetradecadien edioate (C14:2-DC)	GCST90200239	4	7589940	A	C	7857	0.29	0.06	0.00	0.00	21.15
rs14627303 8	Tetradecadien edioate (C14:2-DC)	GCST90200239	4	107850179	T	C	7857	-0.31	0.06	0.00	0.00	23.24
rs18311345 6	Tetradecadien edioate (C14:2-DC)	GCST90200239	4	171863761	T	C	7857	-0.38	0.08	0.00	0.00	25.27
rs76949796	Tetradecadien edioate (C14:2-DC)	GCST90200239	5	11397626	A	G	7857	-0.32	0.07	0.00	0.00	22.88
rs9459497	Tetradecadien edioate (C14:2-DC)	GCST90200239	6	165725498	C	T	7857	0.07	0.02	0.00	0.00	22.16
rs11696063 7	Tetradecadien edioate (C14:2-DC)	GCST90200239	7	3701586	A	G	7857	-0.32	0.06	0.00	0.00	33.25
rs10264137	Tetradecadien edioate (C14:2-DC)	GCST90200239	7	82788918	C	A	7857	0.08	0.02	0.00	0.00	23.03
rs18845158 3	Tetradecadien edioate (C14:2-DC)	GCST90200239	7	152278347	T	C	7857	0.41	0.09	0.00	0.00	21.82
rs1733726	Tetradecadien edioate (C14:2-DC)	GCST90200239	10	52535071	A	C	7857	0.08	0.02	0.00	0.00	19.91
rs603424	Tetradecadien edioate (C14:2-DC)	GCST90200239	10	100315722	A	G	7857	-0.17	0.02	0.00	0.01	70.72
rs11592288	Tetradecadien edioate (C14:2-DC)	GCST90200239	10	123550983	A	G	7857	0.08	0.02	0.00	0.00	19.56
rs11260632 0	Tetradecadien edioate (C14:2-DC)	GCST90200239	11	9347107	G	T	7857	-0.37	0.08	0.00	0.00	23.75
rs1871395	Tetradecadien edioate (C14:2-DC)	GCST90200239	12	21199381	G	A	7857	0.13	0.02	0.00	0.01	39.74
rs19186482 7	Tetradecadien edioate (C14:2-DC)	GCST90200239	13	70038691	G	A	7857	-0.21	0.05	0.00	0.00	19.55
rs17643150	Tetradecadien edioate (C14:2-DC)	GCST90200239	13	91387826	A	G	7857	-0.20	0.04	0.00	0.00	23.25
rs1410417	Tetradecadien edioate (C14:2-DC)	GCST90200239	13	109427806	T	G	7857	0.07	0.02	0.00	0.00	21.00
rs11626972	Tetradecadien edioate (C14:2-DC)	GCST90200239	14	73566890	G	A	7857	-0.31	0.02	0.00	0.05	396.22
rs8013292	Tetradecadien edioate (C14:2-DC)	GCST90200239	14	73746392	A	G	7857	-0.09	0.02	0.00	0.00	24.42

rs145709129	Tetradecadien edioate (C14:2-DC)	GCST90200239	16	51158383	C	A	7857	0.32	0.07	0.00	0.00	21.57
rs144921671	Tetradecadien edioate (C14:2-DC)	GCST90200239	17	38889877	C	T	7857	0.34	0.07	0.00	0.00	21.97
rs111411231	Tetradecadien edioate (C14:2-DC)	GCST90200239	19	31733987	T	C	7857	0.18	0.04	0.00	0.00	22.60
rs2425635	Tetradecadien edioate (C14:2-DC)	GCST90200239	20	44395201	G	A	7857	-0.08	0.02	0.00	0.00	23.49
rs11892046	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	2	44891134	C	A	8190	0.18	0.03	0.00	0.00	28.82
rs77243304	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	2	74098527	G	T	8190	0.08	0.02	0.00	0.00	21.12
rs13434366	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	3	71961264	A	G	8190	0.07	0.01	0.00	0.00	21.95
rs2668189	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	3	184254262	G	T	8190	0.08	0.02	0.00	0.00	22.36
rs13146163	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	4	76490938	T	G	8190	0.07	0.01	0.00	0.00	22.05
rs17779297	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	4	89487985	C	G	8190	-0.09	0.02	0.00	0.00	21.24
rs74686018	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	4	156665221	A	C	8190	-0.15	0.03	0.00	0.00	20.26
rs148183459	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	5	174061672	G	T	8190	0.25	0.06	0.00	0.00	19.67
rs72928570	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	6	93117543	G	C	8190	0.09	0.02	0.00	0.00	19.84
rs17639758	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	6	135202112	A	G	8190	-0.14	0.03	0.00	0.00	22.61
rs62513982	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	8	127480167	T	C	8190	0.09	0.02	0.00	0.00	19.77
rs10466614	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	11	127190598	C	A	8190	0.07	0.02	0.00	0.00	23.41
rs117617890	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	13	51864768	G	A	8190	0.19	0.04	0.00	0.00	21.51
rs8015800	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	14	76969014	G	A	8190	-0.11	0.02	0.00	0.00	20.58
rs141851837	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	15	57648484	A	G	8190	-0.28	0.06	0.00	0.00	19.53

rs77652229	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	15	71749738	A	G	8190	-0.18	0.04	0.00	0.00	19.78
rs1807131	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	15	94005407	A	G	8190	-0.24	0.05	0.00	0.00	20.91
rs806740	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	16	72402872	G	A	8190	0.27	0.06	0.00	0.00	21.56
rs11639780	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	16	86140874	T	C	8190	-0.16	0.04	0.00	0.00	20.15
rs12945597	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	17	18271367	A	G	8190	-0.08	0.02	0.00	0.00	26.73
rs11751584 3	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	18	50584367	T	C	8190	-0.38	0.08	0.00	0.00	20.17
rs11789998 1	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	18	78000574	A	G	8190	-0.46	0.10	0.00	0.00	20.17
rs35262626	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	19	13863850	T	G	8190	0.10	0.02	0.00	0.00	21.09
rs2262908	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	19	21951998	T	C	8190	-0.07	0.01	0.00	0.00	20.49
rs74514311	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	20	42958106	T	G	8190	-0.29	0.06	0.00	0.00	23.25
rs15115938 8	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	20	46517140	G	A	8190	0.40	0.09	0.00	0.00	20.03
rs12166336	Hydroxy- N6,N6,N6- trimethyllysine levels	GCST90200240	22	37237310	G	A	8190	0.08	0.02	0.00	0.00	24.49
rs11312822 2	Pregnenetriol sulfate levels	GCST90200241	1	44885651	T	C	8233	0.12	0.03	0.00	0.00	19.76
rs12038241	Pregnenetriol sulfate levels	GCST90200241	1	119404375	G	A	8233	-0.07	0.01	0.00	0.00	27.82
rs17344885	Pregnenetriol sulfate levels	GCST90200241	1	169029543	A	C	8233	0.06	0.01	0.00	0.00	20.74
rs14674757 8	Pregnenetriol sulfate levels	GCST90200241	2	135987192	C	G	8233	-0.29	0.06	0.00	0.00	21.15
rs6740315	Pregnenetriol sulfate levels	GCST90200241	2	176655378	C	T	8233	-0.07	0.01	0.00	0.00	22.97
rs3755320	Pregnenetriol sulfate levels	GCST90200241	2	233713415	A	C	8233	-0.19	0.02	0.00	0.01	71.30
rs74787288	Pregnenetriol sulfate levels	GCST90200241	2	233751021	G	C	8233	0.15	0.03	0.00	0.00	30.85
rs12497018	Pregnenetriol sulfate levels	GCST90200241	3	50264139	A	G	8233	-0.99	0.22	0.00	0.00	20.17
rs3098262	Pregnenetriol sulfate levels	GCST90200241	3	190160033	G	A	8233	0.06	0.01	0.00	0.00	19.60
rs59465703	Pregnenetriol sulfate levels	GCST90200241	4	140287504	T	C	8233	-0.11	0.02	0.00	0.00	19.57
rs4862809	Pregnenetriol sulfate levels	GCST90200241	4	187477509	T	C	8233	0.12	0.03	0.00	0.00	22.97
rs71606471	Pregnenetriol sulfate levels	GCST90200241	5	3053182	A	C	8233	-0.11	0.02	0.00	0.00	27.72
rs62412906	Pregnenetriol sulfate levels	GCST90200241	6	52871887	C	T	8233	-0.06	0.01	0.00	0.00	21.96

rs11688244 7	Pregnenetriol sulfate levels	GCST90200241	6	88205775	C	G	8233	-0.14	0.03	0.00	0.00	19.72
rs62449482	Pregnenetriol sulfate levels	GCST90200241	7	12470212	G	C	8233	0.07	0.02	0.00	0.00	21.02
rs78708224	Pregnenetriol sulfate levels	GCST90200241	7	26415621	C	T	8233	0.14	0.03	0.00	0.00	22.49
rs10252509	Pregnenetriol sulfate levels	GCST90200241	7	64464647	C	T	8233	-0.08	0.01	0.00	0.00	31.28
rs75757123	Pregnenetriol sulfate levels	GCST90200241	7	121952216	T	C	8233	0.10	0.02	0.00	0.00	19.55
rs174602	Pregnenetriol sulfate levels	GCST90200241	11	61856942	C	T	8233	0.08	0.02	0.00	0.00	25.40
rs11704308 4	Pregnenetriol sulfate levels	GCST90200241	11	114287309	T	C	8233	-0.15	0.03	0.00	0.00	20.89
rs4149056	Pregnenetriol sulfate levels	GCST90200241	12	21178615	C	T	8233	0.10	0.02	0.00	0.00	29.88
rs78811636	Pregnenetriol sulfate levels	GCST90200241	12	57966801	T	G	8233	-0.16	0.03	0.00	0.00	22.40
rs9506727	Pregnenetriol sulfate levels	GCST90200241	13	21744714	G	A	8233	-0.07	0.01	0.00	0.00	24.38
rs9543004	Pregnenetriol sulfate levels	GCST90200241	13	72562240	C	T	8233	0.07	0.01	0.00	0.00	28.34
rs9543358	Pregnenetriol sulfate levels	GCST90200241	13	73380726	A	T	8233	0.09	0.02	0.00	0.00	20.33
rs17258659	Pregnenetriol sulfate levels	GCST90200241	14	85232576	G	T	8233	0.07	0.01	0.00	0.00	24.07
rs35555135	Pregnenetriol sulfate levels	GCST90200241	16	11530632	A	T	8233	0.07	0.01	0.00	0.00	23.40
rs7196272	Pregnenetriol sulfate levels	GCST90200241	16	81527991	C	G	8233	0.14	0.03	0.00	0.00	30.89
rs78911602	Pregnenetriol sulfate levels	GCST90200241	18	51369229	T	C	8233	0.07	0.02	0.00	0.00	21.64
rs4891540	Pregnenetriol sulfate levels	GCST90200241	18	74278626	A	G	8233	0.09	0.02	0.00	0.00	19.90
rs8105328	Pregnenetriol sulfate levels	GCST90200241	19	33272273	T	C	8233	-0.18	0.04	0.00	0.00	19.88
rs212100	Pregnenetriol sulfate levels	GCST90200241	19	47873738	C	T	8233	0.26	0.02	0.00	0.03	216.19
rs680891	Pregnenetriol sulfate levels	GCST90200241	19	54821568	T	C	8233	0.08	0.02	0.00	0.00	22.36
rs62202438	Pregnenetriol sulfate levels	GCST90200241	20	46852275	T	C	8233	-0.13	0.03	0.00	0.00	24.26
rs11324467 9	Pregnenetriol sulfate levels	GCST90200241	22	22814616	T	A	8233	-0.33	0.07	0.00	0.00	20.98
rs11428325 4	Taurochenode oxycholic acid 3-sulfate levels	GCST90200242	1	68189531	T	C	7157	0.35	0.07	0.00	0.00	25.75
rs6663567	Taurochenode oxycholic acid 3-sulfate levels	GCST90200242	1	200011690	C	T	7157	-0.11	0.02	0.00	0.00	20.69
rs4511699	Taurochenode oxycholic acid 3-sulfate levels	GCST90200242	2	12389490	C	T	7157	0.09	0.02	0.00	0.00	21.19
rs14759206 3	Taurochenode oxycholic acid 3-sulfate levels	GCST90200242	2	49726399	T	G	7157	0.79	0.14	0.00	0.00	30.10
rs13007705	Taurochenode oxycholic acid 3-sulfate levels	GCST90200242	2	238160555	T	C	7157	0.07	0.02	0.00	0.00	19.56
rs9826396	Taurochenode oxycholic acid 3-sulfate levels	GCST90200242	3	74476520	A	G	7157	0.09	0.02	0.00	0.00	26.27
rs77032522	Taurochenode oxycholic acid 3-sulfate levels	GCST90200242	3	100324502	C	T	7157	0.24	0.05	0.00	0.00	21.44
rs74648082	Taurochenode oxycholic acid 3-sulfate levels	GCST90200242	4	45672053	A	G	7157	0.50	0.11	0.00	0.00	20.88
rs36053602	Taurochenode oxycholic acid 3-sulfate levels	GCST90200242	4	177443391	A	G	7157	-0.19	0.04	0.00	0.00	19.63
rs14513872 3	Taurochenode oxycholic acid 3-sulfate levels	GCST90200242	5	21718820	A	C	7157	-0.26	0.06	0.00	0.00	19.64

rs6897774	Taurochenode oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	5	26409243	T	C	7157	-0.12	0.03	0.00	0.00	19.85
rs7450928	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	6	65178664	G	T	7157	-0.09	0.02	0.00	0.00	22.08
rs57534880	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	6	166264115	T	A	7157	-0.14	0.03	0.00	0.00	20.21
rs35602868	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	8	10611723	G	A	7157	-0.09	0.02	0.00	0.00	27.07
rs4738684	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	8	58480714	G	A	7157	-0.11	0.02	0.00	0.01	41.46
rs79112138	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	8	78921282	A	G	7157	-0.13	0.03	0.00	0.00	19.96
rs1960234	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	8	124705292	A	G	7157	-0.10	0.02	0.00	0.00	23.49
rs185735323	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	9	33169613	T	C	7157	-0.31	0.07	0.00	0.00	20.16
rs12779809	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	10	6140196	T	C	7157	0.12	0.03	0.00	0.00	22.52
rs11239549	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	10	45523383	G	A	7157	-0.11	0.02	0.00	0.00	33.68
rs34037274	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	11	79497461	G	T	7157	-0.19	0.04	0.00	0.00	19.59
rs76207977	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	12	74872721	T	C	7157	0.16	0.03	0.00	0.00	22.03
rs11106213	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	12	91614416	C	T	7157	0.10	0.02	0.00	0.00	19.72
rs55971546	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	13	103065958	T	C	7157	0.35	0.04	0.00	0.01	83.58
rs144846334	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	13	103085397	A	G	7157	-0.54	0.08	0.00	0.01	46.08
rs147137016	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	13	109907029	T	C	7157	0.16	0.04	0.00	0.00	21.38
rs78847914	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	14	33127191	A	G	7157	-0.25	0.05	0.00	0.00	21.67
rs12945042	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	17	30244910	T	C	7157	0.12	0.02	0.00	0.01	45.85
rs8084536	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	18	76515834	C	T	7157	0.08	0.02	0.00	0.00	22.19
rs212100	oxycholic acid 3-sulfate levels Taurochenode	GCST90200242	19	47873738	C	T	7157	0.18	0.02	0.00	0.01	64.80
rs34598798	oxycholic acid 3-sulfate levels Hydroxypalmi toyl	GCST90200242	21	24746730	G	C	7157	0.18	0.04	0.00	0.00	20.94
rs80321804	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	1	34759241	G	A	8260	-0.18	0.04	0.00	0.00	20.23
rs55698751	sphingomyelin (d18:1/16:0(O H)) levels	GCST90200243	1	63976879	G	A	8260	0.34	0.08	0.00	0.00	20.31

rs116557385	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	1	98472564	T	A	8260	0.18	0.04	0.00	0.00	22.60
rs73177473	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	2	11673884	T	A	8260	-0.14	0.03	0.00	0.00	20.50
rs1260326	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	2	27508073	C	T	8260	0.08	0.02	0.00	0.00	30.69
rs59771628	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	3	100500242	C	A	8260	0.07	0.02	0.00	0.00	22.60
rs114372900	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	4	71624002	T	G	8260	-0.32	0.06	0.00	0.00	25.23
rs10005957	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	4	113337840	T	C	8260	-0.18	0.04	0.00	0.00	23.73
rs639709	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	5	103975738	C	G	8260	0.07	0.02	0.00	0.00	19.70
rs3756963	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	6	11021921	C	T	8260	-0.08	0.02	0.00	0.00	23.64
rs74473137	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	6	81577459	A	G	8260	-0.25	0.05	0.00	0.00	21.67
rs6937870	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	6	107606679	T	C	8260	0.08	0.02	0.00	0.00	21.36
rs2315065	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	6	160687112	A	C	8260	0.13	0.03	0.00	0.00	23.43
rs2117347	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	7	1518331	C	T	8260	0.07	0.02	0.00	0.00	21.50
rs79209503	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	7	25928308	T	C	8260	-0.22	0.05	0.00	0.00	20.78
rs2240466	Hydroxypalmi toyl sphingomyelin (d18:1/16:0(O H)) levels	GCST90200243	7	73441939	A	G	8260	0.12	0.02	0.00	0.00	25.98

	Hydroxypalmi toyl											
rs17159433	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	7	84893160	G	A	8260	0.26	0.06	0.00	0.00	20.35
rs1461729	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	8	9329732	G	A	8260	0.11	0.02	0.00	0.00	19.68
rs6471322	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	8	92150147	A	G	8260	-0.08	0.02	0.00	0.00	27.01
rs56052006	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	8	124561406	A	G	8260	0.26	0.06	0.00	0.00	20.18
rs12338432	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	9	23133106	C	T	8260	-0.28	0.06	0.00	0.00	19.51
rs4742750	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	9	98963637	A	G	8260	0.11	0.02	0.00	0.00	27.31
rs72940873	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	11	20395043	G	T	8260	0.14	0.03	0.00	0.00	21.94
rs174568	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	11	61826344	T	C	8260	0.28	0.02	0.00	0.04	325.19
rs3736228	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	11	68433827	T	C	8260	-0.11	0.02	0.00	0.00	27.33
rs11358333 2	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	11	93121916	A	G	8260	0.19	0.04	0.00	0.00	22.33
rs964184	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	11	116778201	C	G	8260	0.11	0.02	0.00	0.00	24.33
rs13810637 4	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	16	8054545	A	G	8260	0.22	0.05	0.00	0.00	22.03
rs375938	sphingomyelin (d18:1/16:0(O H)) levels Hydroxypalmi toyl	GCST90200243	17	15341840	A	G	8260	0.07	0.02	0.00	0.00	20.04
rs482282	sphingomyelin (d18:1/16:0(O H)) levels	GCST90200243	18	54239039	A	G	8260	0.07	0.02	0.00	0.00	20.11

rs28795074	Hydroxypalmitoyl sphingomyelin (d18:1/16:0(OH) levels 5-	GCST90200243	19	44933400	A	G	8260	-0.17	0.03	0.00	0.00	31.31
rs4654595	hydroxymethyl-2-furoylcarnitin e levels 5-	GCST90200244	1	4716225	C	A	4803	-0.11	0.02	0.00	0.00	22.55
rs4655144	hydroxymethyl-2-furoylcarnitin e levels 5-	GCST90200244	1	23046388	T	A	4803	-0.21	0.05	0.00	0.00	21.36
rs75904097	hydroxymethyl-2-furoylcarnitin e levels 5-	GCST90200244	1	32624134	C	T	4803	0.30	0.07	0.00	0.00	19.78
rs11581518	hydroxymethyl-2-furoylcarnitin e levels 5-	GCST90200244	1	53206356	G	A	4803	-0.11	0.02	0.00	0.00	20.83
rs10157714	hydroxymethyl-2-furoylcarnitin e levels 5-	GCST90200244	1	242880700	C	T	4803	0.09	0.02	0.00	0.00	19.97
rs1446355	hydroxymethyl-2-furoylcarnitin e levels 5-	GCST90200244	2	142236759	C	T	4803	0.12	0.02	0.00	0.01	24.59
rs2251423	hydroxymethyl-2-furoylcarnitin e levels 5-	GCST90200244	3	62554061	G	A	4803	0.11	0.02	0.00	0.01	24.52
rs1453264	hydroxymethyl-2-furoylcarnitin e levels 5-	GCST90200244	3	130307722	G	T	4803	0.09	0.02	0.00	0.00	19.90
rs12492845	hydroxymethyl-2-furoylcarnitin e levels 5-	GCST90200244	3	183761665	G	A	4803	0.31	0.07	0.00	0.00	20.24
rs14947049 2	hydroxymethyl-2-furoylcarnitin e levels 5-	GCST90200244	4	395601	T	C	4803	0.23	0.05	0.00	0.00	20.50
rs2252533	hydroxymethyl-2-furoylcarnitin e levels 5-	GCST90200244	4	178587486	T	C	4803	0.11	0.02	0.00	0.00	22.00
rs77997132	hydroxymethyl-2-furoylcarnitin e levels 5-	GCST90200244	5	163624928	G	A	4803	0.50	0.11	0.00	0.00	20.81
rs12202350	hydroxymethyl-2-furoylcarnitin e levels	GCST90200244	6	159958064	C	T	4803	0.15	0.03	0.00	0.00	21.14

rs11764572	5-hydroxymethyl-2-furoylcarnitine levels	GCST90200244	7	73764105	A	G	4803	-0.11	0.02	0.00	0.01	28.46
rs117360332	5-hydroxymethyl-2-furoylcarnitine levels	GCST90200244	7	124299177	A	C	4803	-0.22	0.05	0.00	0.00	20.72
rs10464131	5-hydroxymethyl-2-furoylcarnitine levels	GCST90200244	7	157525421	A	G	4803	0.16	0.04	0.00	0.00	19.98
rs10993232	5-hydroxymethyl-2-furoylcarnitine levels	GCST90200244	9	94536773	G	C	4803	-0.10	0.02	0.00	0.00	22.25
rs75330932	5-hydroxymethyl-2-furoylcarnitine levels	GCST90200244	9	106494917	G	A	4803	0.32	0.07	0.00	0.00	20.41
rs736418	5-hydroxymethyl-2-furoylcarnitine levels	GCST90200244	9	133494060	G	A	4803	-0.11	0.02	0.00	0.00	21.14
rs11835743	5-hydroxymethyl-2-furoylcarnitine levels	GCST90200244	12	25502219	A	T	4803	-0.12	0.03	0.00	0.00	20.65
rs149309628	5-hydroxymethyl-2-furoylcarnitine levels	GCST90200244	12	78349165	G	A	4803	-0.51	0.11	0.00	0.00	22.69
rs181877064	5-hydroxymethyl-2-furoylcarnitine levels	GCST90200244	13	22782577	T	C	4803	-0.37	0.08	0.00	0.00	20.21
rs45597035	5-hydroxymethyl-2-furoylcarnitine levels	GCST90200244	13	73075014	G	A	4803	0.10	0.02	0.00	0.00	21.90
rs12902636	5-hydroxymethyl-2-furoylcarnitine levels	GCST90200244	15	47679254	T	C	4803	-0.09	0.02	0.00	0.00	19.89
rs78040680	Eicosenedioate levels (C20:1-DC)	GCST90200245	1	23198428	G	A	7861	0.14	0.03	0.00	0.00	20.26
rs16844546	Eicosenedioate levels (C20:1-DC)	GCST90200245	1	199280238	G	T	7861	-0.46	0.09	0.00	0.00	25.77
rs62172016	Eicosenedioate levels (C20:1-DC)	GCST90200245	2	170000606	T	C	7861	-0.14	0.03	0.00	0.00	20.40
rs138225350	Eicosenedioate levels (C20:1-DC)	GCST90200245	4	160998899	A	G	7861	0.35	0.07	0.00	0.00	24.47
rs140927031	Eicosenedioate levels (C20:1-DC)	GCST90200245	6	56008243	T	C	7861	-0.50	0.11	0.00	0.00	22.15
rs50667	Eicosenedioate levels (C20:1-DC)	GCST90200245	6	129239929	A	G	7861	0.09	0.02	0.00	0.00	19.78

rs11690684 1	Eicosenedioate (C20:1-DC) levels	GCST90200245	7	39843504	A	G	7861	0.25	0.06	0.00	0.00	20.02
rs18514222 8	Eicosenedioate (C20:1-DC) levels	GCST90200245	7	55709544	A	G	7861	0.28	0.06	0.00	0.00	21.52
rs4284050	Eicosenedioate (C20:1-DC) levels	GCST90200245	8	69628633	C	A	7861	0.08	0.02	0.00	0.00	23.55
rs3118634	Eicosenedioate (C20:1-DC) levels	GCST90200245	9	129143575	A	G	7861	0.13	0.03	0.00	0.00	19.68
rs11813649 6	Eicosenedioate (C20:1-DC) levels	GCST90200245	10	86110708	C	T	7861	0.19	0.04	0.00	0.00	20.56
rs12318075	Eicosenedioate (C20:1-DC) levels	GCST90200245	12	21208653	G	T	7861	0.35	0.02	0.00	0.04	299.49
rs10770795	Eicosenedioate (C20:1-DC) levels	GCST90200245	12	21293298	G	A	7861	-0.21	0.02	0.00	0.01	86.61
rs10743480	Eicosenedioate (C20:1-DC) levels	GCST90200245	12	23666145	A	G	7861	0.07	0.02	0.00	0.00	22.02
rs11067620	Eicosenedioate (C20:1-DC) levels	GCST90200245	12	115498414	C	A	7861	0.13	0.03	0.00	0.00	22.17
rs301059	Eicosenedioate (C20:1-DC) levels	GCST90200245	13	26181505	C	G	7861	-0.09	0.02	0.00	0.00	19.62
rs12879707	Eicosenedioate (C20:1-DC) levels	GCST90200245	14	82831876	A	G	7861	-0.08	0.02	0.00	0.00	21.32
rs28420348	Eicosenedioate (C20:1-DC) levels	GCST90200245	15	50231431	G	A	7861	-0.10	0.02	0.00	0.00	20.78
rs11772010 2	Eicosenedioate (C20:1-DC) levels	GCST90200245	16	59511489	C	T	7861	-0.32	0.07	0.00	0.00	21.19
rs77692495	Eicosenedioate (C20:1-DC) levels	GCST90200245	18	32835721	A	G	7861	-0.24	0.05	0.00	0.00	21.64
rs78237863	Eicosenedioate (C20:1-DC) levels	GCST90200245	18	39754740	A	C	7861	-0.35	0.07	0.00	0.00	24.49
rs7258688	Eicosenedioate (C20:1-DC) levels	GCST90200245	19	50736171	C	G	7861	0.08	0.02	0.00	0.00	21.16
rs13939348 7	Eicosenedioate (C20:1-DC) levels	GCST90200245	20	46755413	A	G	7861	-0.29	0.07	0.00	0.00	19.91
rs74801711	3-hydroxydecan oylcarnitine levels	GCST90200246	1	61298468	T	C	8237	-0.18	0.04	0.00	0.00	19.69
rs1049987	3-hydroxydecan oylcarnitine levels	GCST90200246	2	26190948	T	C	8237	0.09	0.02	0.00	0.00	26.32
rs11400812 6	3-hydroxydecan oylcarnitine levels	GCST90200246	2	72504745	T	C	8237	0.15	0.03	0.00	0.00	20.83
rs771786	3-hydroxydecan oylcarnitine levels	GCST90200246	3	101990666	T	G	8237	-0.09	0.02	0.00	0.00	19.51
rs7644660	3-hydroxydecan oylcarnitine levels	GCST90200246	3	173260397	C	T	8237	-0.07	0.02	0.00	0.00	20.52

rs72684392	3-hydroxydecanoylecarnitine levels	GCST90200246	4	99952682	G	C	8237	0.12	0.03	0.00	0.00	21.44
rs57859635	3-hydroxydecanoylecarnitine levels	GCST90200246	4	111906965	T	A	8237	-0.36	0.08	0.00	0.00	21.05
rs10026304	3-hydroxydecanoylecarnitine levels	GCST90200246	4	138768472	G	A	8237	-0.12	0.03	0.00	0.00	19.86
rs14174418	3-hydroxydecanoylecarnitine levels	GCST90200246	4	143591751	T	G	8237	0.15	0.03	0.00	0.00	20.59
rs17046863	3-hydroxydecanoylecarnitine levels	GCST90200246	4	165609798	A	G	8237	0.56	0.12	0.00	0.00	21.90
rs144234122	3-hydroxydecanoylecarnitine levels	GCST90200246	5	100355	G	A	8237	-0.43	0.09	0.00	0.00	20.91
rs835219	3-hydroxydecanoylecarnitine levels	GCST90200246	5	39359301	T	C	8237	0.11	0.03	0.00	0.00	20.33
rs6886492	3-hydroxydecanoylecarnitine levels	GCST90200246	5	69129872	G	A	8237	-0.09	0.02	0.00	0.00	22.56
rs74823953	3-hydroxydecanoylecarnitine levels	GCST90200246	5	151300049	T	C	8237	-0.33	0.07	0.00	0.00	22.81
rs74337769	3-hydroxydecanoylecarnitine levels	GCST90200246	6	40472322	A	G	8237	-0.48	0.10	0.00	0.00	22.59
rs245664	3-hydroxydecanoylecarnitine levels	GCST90200246	7	9049847	G	C	8237	0.13	0.03	0.00	0.00	20.54
rs6944935	3-hydroxydecanoylecarnitine levels	GCST90200246	7	151029833	G	C	8237	-0.09	0.02	0.00	0.00	29.01
rs1703910	3-hydroxydecanoylecarnitine levels	GCST90200246	8	651226	T	G	8237	-0.07	0.02	0.00	0.00	21.08
rs74135416	3-hydroxydecanoylecarnitine levels	GCST90200246	10	42908386	A	G	8237	0.11	0.02	0.00	0.00	22.64
rs1670008	3-hydroxydecanoylecarnitine levels	GCST90200246	10	105042471	C	G	8237	-0.07	0.02	0.00	0.00	22.27
rs11018118	3-hydroxydecanoylecarnitine levels	GCST90200246	10	127464987	A	G	8237	0.12	0.03	0.00	0.00	22.93
rs80333274	3-hydroxydecanoylecarnitine levels	GCST90200246	11	7559596	A	G	8237	0.22	0.05	0.00	0.00	23.15
rs4082097	3-hydroxydecanoylecarnitine levels	GCST90200246	12	156351	G	A	8237	0.07	0.02	0.00	0.00	19.59

rs118186615	3-hydroxydecanoylcarnitine levels	GCST90200246	15	50039843	G	A	8237	-0.28	0.06	0.00	0.00	20.06
rs34970738	3-hydroxydecanoylcarnitine levels	GCST90200246	15	90922419	T	C	8237	-0.25	0.05	0.00	0.00	21.01
rs78717950	3-hydroxydecanoylcarnitine levels	GCST90200246	15	95447101	G	C	8237	-0.44	0.09	0.00	0.00	23.26
rs924135	3-hydroxydecanoylcarnitine levels	GCST90200246	16	16029602	T	A	8237	0.09	0.02	0.00	0.00	32.08
rs8044705	3-hydroxydecanoylcarnitine levels	GCST90200246	16	48881080	C	T	8237	0.07	0.02	0.00	0.00	21.22
rs7240063	3-hydroxydecanoylcarnitine levels	GCST90200246	18	11744938	A	G	8237	0.19	0.04	0.00	0.00	22.64
rs117441042	3-hydroxydecanoylcarnitine levels	GCST90200246	18	20968464	A	G	8237	-0.41	0.08	0.00	0.00	27.21
rs75233021	3-hydroxydecanoylcarnitine levels	GCST90200246	19	35975043	G	C	8237	-0.25	0.05	0.00	0.00	22.99
rs77953857	Levulinoylcarnitine levels	GCST90200247	2	43422428	C	G	7197	-0.33	0.07	0.00	0.00	20.86
rs113523158	Levulinoylcarnitine levels	GCST90200247	2	140285101	A	C	7197	-0.20	0.04	0.00	0.00	20.48
rs147303337	Levulinoylcarnitine levels	GCST90200247	4	68762608	A	C	7197	-0.21	0.05	0.00	0.00	21.06
rs61337275	Levulinoylcarnitine levels	GCST90200247	4	145967878	A	G	7197	-0.15	0.03	0.00	0.00	25.07
rs13156040	Levulinoylcarnitine levels	GCST90200247	5	26418150	C	T	7197	-0.09	0.02	0.00	0.00	20.81
rs2472769	Levulinoylcarnitine levels	GCST90200247	6	20076126	T	G	7197	-0.08	0.02	0.00	0.00	19.98
rs662138	Levulinoylcarnitine levels	GCST90200247	6	160143444	G	C	7197	-0.17	0.02	0.00	0.01	58.68
rs113651058	Levulinoylcarnitine levels	GCST90200247	7	5150168	A	G	7197	0.20	0.04	0.00	0.00	21.03
rs6464067	Levulinoylcarnitine levels	GCST90200247	7	150476991	C	G	7197	-0.08	0.02	0.00	0.00	22.13
rs145623522	Levulinoylcarnitine levels	GCST90200247	8	6184100	G	T	7197	0.26	0.05	0.00	0.00	28.08
rs148288912	Levulinoylcarnitine levels	GCST90200247	8	49764119	T	C	7197	0.30	0.07	0.00	0.00	20.28
rs60309476	Levulinoylcarnitine levels	GCST90200247	8	58265604	A	G	7197	-0.08	0.02	0.00	0.00	25.82
rs112106551	Levulinoylcarnitine levels	GCST90200247	9	26825201	G	A	7197	-0.18	0.03	0.00	0.00	31.00
rs1171616	Levulinoylcarnitine levels	GCST90200247	10	59708831	T	G	7197	0.14	0.02	0.00	0.01	45.86
rs7122801	Levulinoylcarnitine levels	GCST90200247	11	11519013	T	C	7197	-0.08	0.02	0.00	0.00	20.39
rs200374463	Levulinoylcarnitine levels	GCST90200247	14	23976965	T	G	7197	0.39	0.04	0.00	0.02	113.53
rs60443806	Levulinoylcarnitine levels	GCST90200247	14	81781692	G	A	7197	0.12	0.03	0.00	0.00	21.52
rs12445621	Levulinoylcarnitine levels	GCST90200247	16	81820350	T	C	7197	0.08	0.02	0.00	0.00	20.80
rs77839011	Levulinoylcarnitine levels	GCST90200247	17	9594243	T	C	7197	0.49	0.10	0.00	0.00	22.80
rs4813579	Levulinoylcarnitine levels	GCST90200247	20	25719528	T	C	7197	0.13	0.03	0.00	0.00	20.46
rs5748937	Levulinoylcarnitine levels	GCST90200247	22	17194434	T	C	7197	0.19	0.04	0.00	0.00	22.16

rs324420	Cis 3,4-methyleneheptanoate levels	GCST90200248	1	46405089	A	C	8223	-0.09	0.02	0.00	0.00	24.96
rs114613601	Cis 3,4-methyleneheptanoate levels	GCST90200248	2	138772013	G	C	8223	0.22	0.05	0.00	0.00	21.89
rs141350935	Cis 3,4-methyleneheptanoate levels	GCST90200248	2	171551101	T	C	8223	-0.35	0.07	0.00	0.00	23.74
rs1047891	Cis 3,4-methyleneheptanoate levels	GCST90200248	2	210675783	A	C	8223	-0.08	0.02	0.00	0.00	24.47
rs7578142	Cis 3,4-methyleneheptanoate levels	GCST90200248	2	234372630	C	T	8223	-0.12	0.03	0.00	0.00	20.04
rs1499938	Cis 3,4-methyleneheptanoate levels	GCST90200248	3	115467267	T	C	8223	0.11	0.02	0.00	0.00	21.13
rs17427370	Cis 3,4-methyleneheptanoate levels	GCST90200248	3	161824851	G	T	8223	-0.23	0.05	0.00	0.00	21.62
rs17072357	Cis 3,4-methyleneheptanoate levels	GCST90200248	4	181824815	A	G	8223	0.30	0.06	0.00	0.00	22.21
rs6859162	Cis 3,4-methyleneheptanoate levels	GCST90200248	5	150104866	T	A	8223	-0.08	0.02	0.00	0.00	24.91
rs6597171	Cis 3,4-methyleneheptanoate levels	GCST90200248	6	5908112	T	C	8223	0.08	0.02	0.00	0.00	20.53
rs149172494	Cis 3,4-methyleneheptanoate levels	GCST90200248	6	55144734	C	T	8223	0.32	0.07	0.00	0.00	22.82
rs74542724	Cis 3,4-methyleneheptanoate levels	GCST90200248	6	84356881	G	A	8223	-0.60	0.13	0.00	0.00	20.72
rs112201728	Cis 3,4-methyleneheptanoate levels	GCST90200248	6	160130454	T	C	8223	-0.15	0.03	0.00	0.00	24.17
rs1564348	Cis 3,4-methyleneheptanoate levels	GCST90200248	6	160157828	C	T	8223	-0.15	0.02	0.00	0.01	51.05
rs181305232	Cis 3,4-methyleneheptanoate levels	GCST90200248	8	1591535	T	C	8223	-0.26	0.06	0.00	0.00	20.78
rs7842009	Cis 3,4-methyleneheptanoate levels	GCST90200248	8	15110554	A	G	8223	0.07	0.02	0.00	0.00	21.57
rs1171594	Cis 3,4-methyleneheptanoate levels	GCST90200248	10	59752299	C	A	8223	0.08	0.02	0.00	0.00	24.00
rs4100277	Cis 3,4-methyleneheptanoate levels	GCST90200248	11	55303394	A	G	8223	0.09	0.02	0.00	0.00	26.45
rs78026390	Cis 3,4-methyleneheptanoate levels	GCST90200248	11	99885543	C	T	8223	-0.16	0.03	0.00	0.00	21.19
rs3088357	Cis 3,4-methyleneheptanoate levels	GCST90200248	11	114250570	T	C	8223	0.39	0.08	0.00	0.00	23.60
rs530858393	Cis 3,4-methyleneheptanoate levels	GCST90200248	12	117842026	T	C	8223	0.24	0.05	0.00	0.00	20.51
rs7195862	Cis 3,4-methyleneheptanoate levels	GCST90200248	16	20431561	C	T	8223	-0.07	0.02	0.00	0.00	21.55
rs6064103	Cis 3,4-methyleneheptanoate levels	GCST90200248	20	54683478	T	C	8223	-0.14	0.03	0.00	0.00	20.52
rs140689117	Cis 3,4-methyleneheptanoate levels	GCST90200248	21	18932659	T	A	8223	-0.29	0.06	0.00	0.00	21.99

rs117316358	Cis 3,4-methyleneheptanoate levels	GCST90200248	21	21949135	C	A	8223	-0.20	0.04	0.00	0.00	20.55
rs117842847	Cis 3,4-methyleneheptanoate levels	GCST90200248	22	40006777	T	G	8223	-0.80	0.18	0.00	0.00	20.21
rs138999278	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	1	21700949	T	C	8256	0.20	0.05	0.00	0.00	19.62
rs7513363	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	1	75677758	G	A	8256	-0.07	0.02	0.00	0.00	19.92
rs148620988	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	2	159434655	C	T	8256	0.27	0.06	0.00	0.00	20.53
rs9762221	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	4	164548805	A	G	8256	-0.07	0.02	0.00	0.00	21.36
rs6871581	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	5	17386875	A	G	8256	-0.07	0.02	0.00	0.00	20.95
rs710362	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	5	87845250	G	A	8256	0.16	0.03	0.00	0.00	20.68
rs78375313	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	5	96745995	C	T	8256	-0.20	0.04	0.00	0.00	22.09
rs147428561	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	6	42298289	C	G	8256	-0.28	0.06	0.00	0.00	20.88
rs200257	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	6	50442969	T	C	8256	-0.11	0.02	0.00	0.00	20.88
rs4725158	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	7	9061542	G	A	8256	0.17	0.04	0.00	0.00	21.51
rs113615745	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	7	73952941	T	C	8256	0.18	0.04	0.00	0.00	24.80

rs12546439	level Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid	GCST90200249	8	663232	T	C	8256	-0.07	0.02	0.00	0.00	21.06
rs117424573	level Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid	GCST90200249	8	67657769	T	C	8256	-0.31	0.07	0.00	0.00	20.82
rs12005209	level Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid	GCST90200249	9	90878590	A	C	8256	0.10	0.02	0.00	0.00	20.16
rs11051139	level Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid	GCST90200249	12	30885715	A	G	8256	0.17	0.04	0.00	0.00	19.70
rs147146639	level Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid	GCST90200249	12	92239914	T	C	8256	-0.42	0.09	0.00	0.00	21.64
rs74981360	level Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid	GCST90200249	13	109345990	C	A	8256	0.21	0.05	0.00	0.00	21.48
rs116885450	level Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid	GCST90200249	14	37588354	T	C	8256	-0.18	0.04	0.00	0.00	24.03
rs146968042	level Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid	GCST90200249	14	73569796	T	C	8256	-0.33	0.05	0.00	0.01	42.10
rs151154986	level Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid	GCST90200249	14	73573432	A	G	8256	-0.48	0.04	0.00	0.01	120.56
rs117647504	level Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid	GCST90200249	15	39489740	G	A	8256	-1.40	0.32	0.00	0.00	19.60
rs117212316	level Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid	GCST90200249	18	21565217	C	T	8256	-0.42	0.10	0.00	0.00	19.66
rs7229585	level Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid	GCST90200249	18	26134340	T	G	8256	-0.58	0.13	0.00	0.00	20.76

rs28468489	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	18	49542767	G	A	8256	0.20	0.04	0.00	0.00	19.64
rs111949383	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	19	56248371	G	C	8256	-0.14	0.03	0.00	0.00	20.30
rs9976754	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	21	14311521	C	G	8256	-0.23	0.05	0.00	0.00	23.01
rs80053496	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	21	39201944	A	G	8256	-0.26	0.05	0.00	0.00	24.48
rs12628438	Branched-chain, straight-chain, or cyclopropyl 12:1 fatty acid levels	GCST90200249	22	49609657	C	G	8256	-0.10	0.02	0.00	0.00	25.54
rs78486673	Deoxycholic acid 12-sulfate levels	GCST90200250	3	67379371	A	C	7438	-0.16	0.03	0.00	0.00	22.54
rs151213620	Deoxycholic acid 12-sulfate levels	GCST90200250	3	94785968	A	G	7438	0.29	0.07	0.00	0.00	19.90
rs11933891	Deoxycholic acid 12-sulfate levels	GCST90200250	4	40933109	T	C	7438	-0.09	0.02	0.00	0.00	20.16
rs2647263	Deoxycholic acid 12-sulfate levels	GCST90200250	4	105346572	C	T	7438	-0.08	0.02	0.00	0.00	23.01
rs73060959	Deoxycholic acid 12-sulfate levels	GCST90200250	7	13331671	T	C	7438	0.16	0.03	0.00	0.00	21.33
rs6983260	Deoxycholic acid 12-sulfate levels	GCST90200250	8	9377673	C	T	7438	0.10	0.02	0.00	0.00	22.73
rs181258079	Deoxycholic acid 12-sulfate levels	GCST90200250	9	36592178	C	T	7438	-0.32	0.07	0.00	0.00	21.46
rs76602835	Deoxycholic acid 12-sulfate levels	GCST90200250	9	37087625	T	C	7438	0.50	0.11	0.00	0.00	20.14
rs17419570	Deoxycholic acid 12-sulfate levels	GCST90200250	9	117430157	G	T	7438	0.10	0.02	0.00	0.00	20.55
rs1591320	Deoxycholic acid 12-sulfate levels	GCST90200250	10	84834019	A	G	7438	0.07	0.02	0.00	0.00	20.36
rs17222723	Deoxycholic acid 12-sulfate levels	GCST90200250	10	99836239	A	T	7438	-0.29	0.04	0.00	0.01	66.11
rs149362415	Deoxycholic acid 12-sulfate levels	GCST90200250	10	107605741	T	C	7438	-0.33	0.07	0.00	0.00	22.35
rs4295961	Deoxycholic acid 12-sulfate levels	GCST90200250	10	131373985	G	A	7438	-0.09	0.02	0.00	0.00	19.72
rs181653464	Deoxycholic acid 12-sulfate levels	GCST90200250	11	4585545	T	A	7438	-0.24	0.05	0.00	0.00	21.52

rs56676902 4	Deoxycholic acid 12-sulfate levels	GCST90200250	11	50790440	G	A	7438	1.81	0.40	0.00	0.00	20.05
rs11045806	Deoxycholic acid 12-sulfate levels	GCST90200250	12	21161802	A	G	7438	-0.18	0.02	0.00	0.01	77.36
rs4149056	Deoxycholic acid 12-sulfate levels	GCST90200250	12	21178615	C	T	7438	0.41	0.02	0.00	0.05	358.03
rs61269231	Deoxycholic acid 12-sulfate levels	GCST90200250	13	34109743	A	G	7438	0.10	0.02	0.00	0.00	19.95
rs57975337	Deoxycholic acid 12-sulfate levels	GCST90200250	14	34079087	T	G	7438	-0.09	0.02	0.00	0.00	25.16
rs2372313	Deoxycholic acid 12-sulfate levels	GCST90200250	14	83132884	C	T	7438	-0.07	0.02	0.00	0.00	19.54
rs61104666	Deoxycholic acid 12-sulfate levels	GCST90200250	18	45840212	A	G	7438	0.12	0.03	0.00	0.00	23.17
rs77108552	Deoxycholic acid 12-sulfate levels	GCST90200250	18	69644829	A	G	7438	0.15	0.03	0.00	0.00	20.70
rs76531193	Deoxycholic acid 12-sulfate levels	GCST90200250	19	47857434	A	T	7438	-0.22	0.02	0.00	0.01	97.43
rs2236860	Branched- chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	1	28814236	T	C	8265	-0.08	0.02	0.00	0.00	21.89
rs197612	Branched- chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	1	57204361	C	T	8265	0.13	0.03	0.00	0.00	20.94
rs66803298	Branched- chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	1	164958983	A	G	8265	0.08	0.02	0.00	0.00	19.73
rs74502648	Branched- chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	1	226886980	T	C	8265	-0.19	0.04	0.00	0.00	20.73
rs11304422 7	Branched- chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	2	160080141	A	G	8265	-0.26	0.06	0.00	0.00	20.64
rs9871963	Branched- chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	3	141314639	G	A	8265	-0.07	0.02	0.00	0.00	21.16
rs4450871	Branched- chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	4	4988571	G	A	8265	0.07	0.01	0.00	0.00	19.54

rs74347368	Branched-chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	5	37433453	T	C	8265	-0.74	0.15	0.00	0.00	24.34
rs58144271	Branched-chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	5	167918165	C	A	8265	-0.31	0.07	0.00	0.00	22.87
rs38118	Branched-chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	7	78627847	T	G	8265	-0.09	0.02	0.00	0.00	20.31
rs117485308	Branched-chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	8	34173084	G	A	8265	-0.33	0.07	0.00	0.00	20.03
rs7862027	Branched-chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	9	130921887	C	T	8265	-0.07	0.01	0.00	0.00	22.63
rs188278825	Branched-chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	11	87563510	C	A	8265	0.74	0.16	0.00	0.00	21.11
rs12314007	Branched-chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	12	84196330	G	C	8265	0.08	0.02	0.00	0.00	20.21
rs11616297	Branched-chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	13	21509194	C	T	8265	-0.13	0.03	0.00	0.00	23.99
rs11247224	Branched-chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	15	100549096	G	C	8265	0.07	0.02	0.00	0.00	20.31
rs62086064	Branched-chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	18	9431314	G	A	8265	-0.35	0.08	0.00	0.00	20.33
rs142334663	Branched-chain, straight-chain, or cyclopropyl 10:1 fatty acid (1) levels	GCST90200251	18	75190027	G	T	8265	-0.64	0.14	0.00	0.00	21.96
rs140518503	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	1	34133984	A	G	8218	-0.46	0.10	0.00	0.00	21.90
rs79839203	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	2	84034855	A	C	8218	0.23	0.05	0.00	0.00	21.28

rs1901813	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	2	233600122	G	A	8218	-0.09	0.02	0.00	0.00	27.81
rs146349685	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	3	21289863	A	G	8218	-0.24	0.05	0.00	0.00	20.18
rs74904971	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	4	88128874	A	C	8218	0.36	0.02	0.00	0.03	230.52
rs6822242	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	4	88264635	G	C	8218	-0.21	0.05	0.00	0.00	20.16
rs115372965	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	5	24644399	C	T	8218	0.28	0.06	0.00	0.00	22.93
rs72791889	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	5	107695658	G	A	8218	-0.16	0.04	0.00	0.00	19.59
rs12109542	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	5	118834163	A	G	8218	-0.21	0.05	0.00	0.00	19.73
rs117452514	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	6	149663634	C	T	8218	-0.26	0.05	0.00	0.00	22.75
rs759843	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	7	127705938	G	A	8218	-0.07	0.02	0.00	0.00	20.70
rs16919898	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	9	3892020	T	C	8218	-0.19	0.04	0.00	0.00	21.58
rs482074	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	10	113307212	G	A	8218	-0.08	0.02	0.00	0.00	21.81
rs147286139	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	10	118256844	G	A	8218	-0.21	0.05	0.00	0.00	20.32
rs10830989	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	11	93153482	G	C	8218	-0.08	0.02	0.00	0.00	24.72
rs150583575	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	15	52862203	A	G	8218	-0.26	0.06	0.00	0.00	20.21
rs920067	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	15	87847286	C	G	8218	-0.07	0.02	0.00	0.00	19.73
rs78280516	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	16	12017727	G	A	8218	-0.25	0.06	0.00	0.00	19.68
rs139497388	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	19	19550762	T	C	8218	0.32	0.06	0.00	0.00	25.08
rs35634483	2,6-dihydroxybenzoic acid levels	GCST90200252	19	32922708	C	T	8218	-0.08	0.02	0.00	0.00	22.66

rs8111613	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	19	46245902	C	A	8218	-0.15	0.03	0.00	0.00	29.06
rs6127503	3,5-dichloro-2,6-dihydroxybenzoic acid levels	GCST90200252	20	55462379	T	C	8218	0.08	0.02	0.00	0.00	19.90
rs55991483	Vanillic acid glycine levels	GCST90200253	1	12573024	G	C	7512	0.14	0.03	0.00	0.00	20.25
rs72817365	Vanillic acid glycine levels	GCST90200253	2	66172044	T	C	7512	-0.31	0.07	0.00	0.00	20.86
rs78850110	Vanillic acid glycine levels	GCST90200253	2	67783229	A	T	7512	0.17	0.04	0.00	0.00	22.50
rs1047891	Vanillic acid glycine levels	GCST90200253	2	210675783	A	C	7512	0.08	0.02	0.00	0.00	23.23
rs9835855	Vanillic acid glycine levels	GCST90200253	3	99337762	T	C	7512	0.19	0.04	0.00	0.00	21.19
rs7664352	Vanillic acid glycine levels	GCST90200253	4	175057038	C	T	7512	-0.09	0.02	0.00	0.00	20.72
rs4043197	Vanillic acid glycine levels	GCST90200253	4	189587391	A	G	7512	-0.16	0.03	0.00	0.00	20.65
rs187352208	Vanillic acid glycine levels	GCST90200253	6	3071972	G	A	7512	1.12	0.24	0.00	0.00	21.59
rs3799340	Vanillic acid glycine levels	GCST90200253	6	25762418	T	C	7512	0.11	0.02	0.00	0.01	47.18
rs34199055	Vanillic acid glycine levels	GCST90200253	6	100635818	T	C	7512	-0.13	0.02	0.00	0.00	29.99
rs4355631	Vanillic acid glycine levels	GCST90200253	6	131505809	G	A	7512	-0.08	0.02	0.00	0.00	20.46
rs10499280	Vanillic acid glycine levels	GCST90200253	6	156385129	C	G	7512	0.08	0.02	0.00	0.00	23.81
rs74970545	Vanillic acid glycine levels	GCST90200253	9	18871193	G	C	7512	0.18	0.04	0.00	0.00	25.16
rs7915981	Vanillic acid glycine levels	GCST90200253	10	132435384	A	G	7512	-0.07	0.02	0.00	0.00	20.15
rs117841983	Vanillic acid glycine levels	GCST90200253	11	120124759	G	A	7512	0.64	0.14	0.00	0.00	20.54
rs10845632	Vanillic acid glycine levels	GCST90200253	12	12795260	A	G	7512	-0.08	0.02	0.00	0.00	24.04
rs9300713	Vanillic acid glycine levels	GCST90200253	13	102110977	A	C	7512	-0.08	0.02	0.00	0.00	23.38
rs114538296	Vanillic acid glycine levels	GCST90200253	14	80796448	C	A	7512	0.49	0.07	0.00	0.01	43.55
rs7143814	Vanillic acid glycine levels	GCST90200253	14	93172362	C	T	7512	-0.08	0.02	0.00	0.00	21.81
rs395438	Vanillic acid glycine levels	GCST90200253	17	31672437	C	T	7512	0.15	0.03	0.00	0.00	21.08
rs73432460	Vanillic acid glycine levels	GCST90200253	18	49651238	A	C	7512	-0.15	0.03	0.00	0.00	20.47
rs150827829	Vanillic acid glycine levels	GCST90200253	18	60819872	C	T	7512	0.42	0.09	0.00	0.00	20.19
rs8106748	Vanillic acid glycine levels	GCST90200253	19	32791891	A	G	7512	0.16	0.02	0.00	0.01	59.56
rs73233368	Vanillic acid glycine levels	GCST90200253	21	42956423	T	G	7512	-0.12	0.03	0.00	0.00	20.94
rs1570805	(S)-a-amino-omega-caprolactam levels	GCST90200254	1	156294857	T	C	8185	0.14	0.02	0.00	0.00	37.68
rs28441511	(S)-a-amino-omega-caprolactam levels	GCST90200254	3	128656805	C	A	8185	-0.16	0.04	0.00	0.00	19.98
rs72679250	(S)-a-amino-omega-caprolactam levels	GCST90200254	4	110205234	T	A	8185	-0.16	0.03	0.00	0.00	25.42
rs192796587	(S)-a-amino-omega-caprolactam levels	GCST90200254	5	43082137	T	G	8185	-0.84	0.19	0.00	0.00	20.37

rs2584	(S)-a-amino- omega- caprolactam levels	GCST90200254	8	6445504	A	G	8185	0.07	0.02	0.00	0.00	20.59
rs6984241	(S)-a-amino- omega- caprolactam levels	GCST90200254	8	125454844	T	G	8185	-0.07	0.01	0.00	0.00	22.36
rs11816290 1	(S)-a-amino- omega- caprolactam levels	GCST90200254	11	113180763	G	A	8185	-0.29	0.05	0.00	0.00	32.61
rs7327594	(S)-a-amino- omega- caprolactam levels	GCST90200254	13	53551535	A	T	8185	-0.07	0.02	0.00	0.00	22.56
rs1187589	(S)-a-amino- omega- caprolactam levels	GCST90200254	14	54585739	A	G	8185	0.07	0.02	0.00	0.00	20.02
rs77924615	(S)-a-amino- omega- caprolactam levels	GCST90200254	16	20381010	A	G	8185	-0.09	0.02	0.00	0.00	26.18
rs2863979	(S)-a-amino- omega- caprolactam levels	GCST90200254	16	68297987	A	G	8185	-0.09	0.02	0.00	0.00	33.68
rs11658365	(S)-a-amino- omega- caprolactam levels	GCST90200254	17	7783630	C	G	8185	-0.16	0.04	0.00	0.00	19.66
rs74922076	(S)-a-amino- omega- caprolactam levels	GCST90200254	17	13117591	A	G	8185	-0.23	0.04	0.00	0.00	26.23
rs13855339 4	3-bromo-5- chloro-2,6- dihydroxybenz oic acid levels	GCST90200255	1	40788605	A	T	8127	0.28	0.06	0.00	0.00	19.91
rs75527787	3-bromo-5- chloro-2,6- dihydroxybenz oic acid levels	GCST90200255	1	53523304	A	G	8127	-0.24	0.05	0.00	0.00	23.92
rs72664323	3-bromo-5- chloro-2,6- dihydroxybenz oic acid levels	GCST90200255	1	56506169	A	G	8127	-0.28	0.06	0.00	0.00	22.40
rs55940591	3-bromo-5- chloro-2,6- dihydroxybenz oic acid levels	GCST90200255	1	85483011	T	G	8127	0.10	0.02	0.00	0.00	20.38
rs11501856 9	3-bromo-5- chloro-2,6- dihydroxybenz oic acid levels	GCST90200255	1	106083955	A	T	8127	-0.14	0.03	0.00	0.00	20.04
rs74617211	3-bromo-5- chloro-2,6- dihydroxybenz oic acid levels	GCST90200255	2	6454580	C	T	8127	-0.22	0.05	0.00	0.00	19.89
rs6747219	3-bromo-5- chloro-2,6- dihydroxybenz oic acid levels	GCST90200255	2	58786091	C	A	8127	-0.10	0.02	0.00	0.00	19.58
rs6755582	3-bromo-5- chloro-2,6- dihydroxybenz oic acid levels	GCST90200255	2	64074211	C	A	8127	-0.23	0.05	0.00	0.00	19.64
rs6431630	3-bromo-5- chloro-2,6- dihydroxybenz oic acid levels	GCST90200255	2	233768740	A	G	8127	-0.11	0.02	0.00	0.00	20.31

rs2316019	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	2	235303804	G	A	8127	0.08	0.02	0.00	0.00	22.18
rs13084916	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	3	4253615	A	C	8127	0.10	0.02	0.00	0.00	20.07
rs2231142	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	4	88131171	T	G	8127	0.36	0.02	0.00	0.03	225.77
rs6822242	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	4	88264635	G	C	8127	-0.26	0.05	0.00	0.00	30.73
rs72690577	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	4	181125357	A	G	8127	0.11	0.02	0.00	0.00	19.99
rs6917428	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	6	165181029	A	G	8127	0.07	0.02	0.00	0.00	19.99
rs73079940	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	7	24686198	G	A	8127	0.14	0.03	0.00	0.00	21.28
rs1534518	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	7	121462404	A	G	8127	0.30	0.07	0.00	0.00	21.09
rs78217707	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	9	129348532	G	A	8127	0.22	0.05	0.00	0.00	21.53
rs4882650	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	12	74657756	T	C	8127	0.09	0.02	0.00	0.00	19.70
rs1818729	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	12	118664696	T	C	8127	-0.37	0.08	0.00	0.00	22.17
rs189363769	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	13	72901997	C	T	8127	0.32	0.07	0.00	0.00	20.60
rs142532002	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	15	52743656	T	C	8127	-0.18	0.04	0.00	0.00	19.81
rs77379886	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	15	54579400	A	G	8127	0.31	0.07	0.00	0.00	19.90
rs146057411	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	15	59622292	A	G	8127	-0.41	0.09	0.00	0.00	19.94
rs4785119	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	16	60575574	G	A	8127	0.07	0.02	0.00	0.00	19.89
rs8082200	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	17	31837416	G	A	8127	-0.09	0.02	0.00	0.00	21.59
rs8094108	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	18	1446011	G	A	8127	0.23	0.05	0.00	0.00	21.63

rs116894695	3-bromo-5-chloro-2,6-dihydroxybenzoic acid levels	GCST90200255	18	79837816	G	C	8127	0.21	0.05	0.00	0.00	19.94
rs548133161	Dibutyl sulfosuccinate levels	GCST90200256	1	33557661	C	T	8099	0.86	0.18	0.00	0.00	23.79
rs56040770	Dibutyl sulfosuccinate levels	GCST90200256	1	160568011	A	G	8099	0.08	0.02	0.00	0.00	21.59
rs72744964	Dibutyl sulfosuccinate levels	GCST90200256	1	197863619	T	C	8099	0.21	0.05	0.00	0.00	20.69
rs115042309	Dibutyl sulfosuccinate levels	GCST90200256	1	225193358	G	A	8099	0.25	0.06	0.00	0.00	19.53
rs78459940	Dibutyl sulfosuccinate levels	GCST90200256	2	2221620	G	A	8099	0.21	0.05	0.00	0.00	20.12
rs4697066	Dibutyl sulfosuccinate levels	GCST90200256	4	24623692	A	G	8099	0.07	0.02	0.00	0.00	20.09
rs145196210	Dibutyl sulfosuccinate levels	GCST90200256	5	66312798	C	G	8099	0.34	0.08	0.00	0.00	19.62
rs138537882	Dibutyl sulfosuccinate levels	GCST90200256	5	135579512	T	A	8099	1.78	0.35	0.00	0.00	25.44
rs79781690	Dibutyl sulfosuccinate levels	GCST90200256	5	146353949	A	G	8099	-0.12	0.02	0.00	0.00	21.85
rs74592396	Dibutyl sulfosuccinate levels	GCST90200256	5	170073993	T	C	8099	0.22	0.05	0.00	0.00	23.75
rs80303701	Dibutyl sulfosuccinate levels	GCST90200256	6	7324074	A	G	8099	1.49	0.33	0.00	0.00	20.24
rs79529318	Dibutyl sulfosuccinate levels	GCST90200256	6	37491917	A	C	8099	0.17	0.04	0.00	0.00	19.61
rs9361908	Dibutyl sulfosuccinate levels	GCST90200256	6	82263283	T	C	8099	1.53	0.33	0.00	0.00	21.31
rs4145131	Dibutyl sulfosuccinate levels	GCST90200256	6	92246564	T	C	8099	0.11	0.02	0.00	0.00	22.34
rs9498294	Dibutyl sulfosuccinate levels	GCST90200256	6	149289626	T	C	8099	0.08	0.02	0.00	0.00	21.09
rs2731555	Dibutyl sulfosuccinate levels	GCST90200256	7	18205015	A	G	8099	0.11	0.02	0.00	0.00	26.25
rs118066273	Dibutyl sulfosuccinate levels	GCST90200256	7	62650380	A	G	8099	3.35	0.70	0.00	0.00	22.62
rs73151168	Dibutyl sulfosuccinate levels	GCST90200256	7	98215099	T	C	8099	0.13	0.03	0.00	0.00	19.84
rs139703087	Dibutyl sulfosuccinate levels	GCST90200256	7	152874032	T	C	8099	0.11	0.02	0.00	0.00	19.71
rs111237205	Dibutyl sulfosuccinate levels	GCST90200256	8	96938757	C	A	8099	0.46	0.10	0.00	0.00	20.91
rs76805761	Dibutyl sulfosuccinate levels	GCST90200256	9	106466061	G	A	8099	0.36	0.08	0.00	0.00	21.29
rs143302444	Dibutyl sulfosuccinate levels	GCST90200256	10	13919714	T	G	8099	0.52	0.11	0.00	0.00	21.86
rs36108282	Dibutyl sulfosuccinate levels	GCST90200256	10	120433415	A	G	8099	0.16	0.03	0.00	0.00	22.61

rs59141993	Dibutyl sulfosuccinate levels	GCST90200256	10	131563748	T	A	8099	0.76	0.16	0.00	0.00	23.30
rs61913648	Dibutyl sulfosuccinate levels	GCST90200256	12	12833612	T	A	8099	-0.08	0.02	0.00	0.00	21.96
rs75200236	Dibutyl sulfosuccinate levels	GCST90200256	12	63086199	C	T	8099	0.15	0.03	0.00	0.00	24.69
rs14020807 6	Dibutyl sulfosuccinate levels	GCST90200256	12	87298151	A	G	8099	0.29	0.07	0.00	0.00	19.76
rs11262750 9	Dibutyl sulfosuccinate levels	GCST90200256	12	99088206	T	C	8099	0.31	0.06	0.00	0.00	24.42
rs18684044 8	Dibutyl sulfosuccinate levels	GCST90200256	14	85858313	A	C	8099	0.34	0.07	0.00	0.00	21.60
rs16965102	Dibutyl sulfosuccinate levels	GCST90200256	16	62749394	C	T	8099	0.07	0.02	0.00	0.00	22.06
rs19274701 0	Dibutyl sulfosuccinate levels	GCST90200256	16	74217375	C	T	8099	0.19	0.04	0.00	0.00	22.44
rs12985816	Dibutyl sulfosuccinate levels	GCST90200256	19	8038904	T	C	8099	-0.14	0.03	0.00	0.00	19.68
rs6039897	Dibutyl sulfosuccinate levels	GCST90200256	20	10382835	C	T	8099	0.09	0.02	0.00	0.00	24.34
rs6067977	Dibutyl sulfosuccinate levels	GCST90200256	20	51862632	C	T	8099	-0.09	0.02	0.00	0.00	21.17
rs2826052	Dibutyl sulfosuccinate levels	GCST90200256	21	20162989	G	A	8099	0.11	0.03	0.00	0.00	19.79
rs11810980 8	Dibutyl sulfosuccinate levels	GCST90200256	21	45122770	T	C	8099	0.35	0.07	0.00	0.00	22.75
rs5768012	Dibutyl sulfosuccinate levels	GCST90200256	22	47819946	A	G	8099	-0.09	0.02	0.00	0.00	20.69
rs3766927	Metabolonic lactone sulfate levels	GCST90200257	1	154591665	C	T	8203	0.08	0.02	0.00	0.00	20.63
rs1830725	Metabolonic lactone sulfate levels	GCST90200257	1	168402560	C	T	8203	-0.08	0.02	0.00	0.00	20.40
rs4299376	Metabolonic lactone sulfate levels	GCST90200257	2	43845437	T	G	8203	0.10	0.02	0.00	0.00	35.78
rs4662417	Metabolonic lactone sulfate levels	GCST90200257	2	142159969	C	G	8203	0.08	0.02	0.00	0.00	20.26
rs73061432	Metabolonic lactone sulfate levels	GCST90200257	3	31855306	T	C	8203	0.38	0.08	0.00	0.00	19.76
rs18728525 6	Metabolonic lactone sulfate levels	GCST90200257	5	51851350	T	C	8203	0.38	0.08	0.00	0.00	24.54
rs10079191	Metabolonic lactone sulfate levels	GCST90200257	5	147337125	C	T	8203	0.10	0.02	0.00	0.00	22.28
rs2421534	Metabolonic lactone sulfate levels	GCST90200257	5	160672548	T	C	8203	0.08	0.02	0.00	0.00	19.78
rs74854084	Metabolonic lactone sulfate levels	GCST90200257	6	1248292	T	A	8203	0.17	0.03	0.00	0.00	23.60
rs79187542	Metabolonic lactone sulfate levels	GCST90200257	6	11688679	C	T	8203	-0.69	0.15	0.00	0.00	22.42

rs118041093	Metabolonic lactone sulfate levels	GCST90200257	6	84145666	G	C	8203	-0.24	0.05	0.00	0.00	23.21
rs11753010	Metabolonic lactone sulfate levels	GCST90200257	6	122969757	G	A	8203	0.18	0.04	0.00	0.00	21.54
rs11976967	Metabolonic lactone sulfate levels	GCST90200257	7	98749830	T	C	8203	0.07	0.02	0.00	0.00	19.88
rs10278040	Metabolonic lactone sulfate levels	GCST90200257	7	99543750	A	G	8203	-0.41	0.03	0.00	0.02	136.88
rs776746	Metabolonic lactone sulfate levels	GCST90200257	7	99672916	C	T	8203	0.93	0.03	0.00	0.11	992.72
rs62471929	Metabolonic lactone sulfate levels	GCST90200257	7	99676693	G	A	8203	0.28	0.03	0.00	0.01	66.81
rs78428922	Metabolonic lactone sulfate levels	GCST90200257	7	132882220	C	A	8203	0.12	0.03	0.00	0.00	20.18
rs111331187	Metabolonic lactone sulfate levels	GCST90200257	7	148265304	T	C	8203	-0.11	0.03	0.00	0.00	20.27
rs117617214	Metabolonic lactone sulfate levels	GCST90200257	8	104020245	T	G	8203	-0.20	0.04	0.00	0.00	28.33
rs138412855	Metabolonic lactone sulfate levels	GCST90200257	9	113275153	G	A	8203	-0.40	0.09	0.00	0.00	19.83
rs57991629	Metabolonic lactone sulfate levels	GCST90200257	10	94909603	C	T	8203	0.17	0.02	0.00	0.01	81.74
rs10897407	Metabolonic lactone sulfate levels	GCST90200257	11	63369912	G	A	8203	-0.07	0.02	0.00	0.00	20.43
rs72930954	Metabolonic lactone sulfate levels	GCST90200257	11	65999778	T	C	8203	-0.17	0.03	0.00	0.00	26.88
rs4762697	Metabolonic lactone sulfate levels	GCST90200257	12	21162039	T	A	8203	0.18	0.02	0.00	0.01	110.55
rs4149056	Metabolonic lactone sulfate levels	GCST90200257	12	21178615	C	T	8203	0.46	0.02	0.00	0.06	503.00
rs79037314	Metabolonic lactone sulfate levels	GCST90200257	13	83264166	T	C	8203	0.26	0.06	0.00	0.00	20.97
rs2010837	Metabolonic lactone sulfate levels	GCST90200257	16	20984734	G	A	8203	-0.19	0.04	0.00	0.00	22.67
rs12953759	Metabolonic lactone sulfate levels	GCST90200257	18	25146251	A	G	8203	-0.07	0.02	0.00	0.00	20.17
rs12953360	Metabolonic lactone sulfate levels	GCST90200257	18	40399953	C	T	8203	0.14	0.03	0.00	0.00	20.77
rs296391	Metabolonic lactone sulfate levels	GCST90200257	19	47865277	T	C	8203	0.16	0.02	0.00	0.01	58.62
rs8958	Metabolonic lactone sulfate levels	GCST90200257	20	2656425	C	T	8203	0.07	0.02	0.00	0.00	20.26
rs490379	2-hydroxy-4- (methylthio)bu tanoic acid levels	GCST90200258	1	88252216	C	A	8255	-0.12	0.02	0.00	0.00	32.49
rs2765527	2-hydroxy-4- (methylthio)bu tanoic acid levels	GCST90200258	1	88960577	C	T	8255	-0.44	0.01	0.00	0.10	934.22

rs4656106	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	1	89233996	C	T	8255	-0.11	0.02	0.00	0.00	29.03
rs10923821	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	1	119440939	T	C	8255	0.08	0.02	0.00	0.00	22.11
rs6425192	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	1	171358489	C	T	8255	-0.12	0.02	0.00	0.01	57.98
rs10201698	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	2	43798216	C	G	8255	0.07	0.02	0.00	0.00	20.55
rs183640109	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	3	78374301	A	G	8255	0.22	0.05	0.00	0.00	19.82
rs113090967	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	3	160033398	A	G	8255	0.10	0.02	0.00	0.00	20.42
rs10011993	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	4	66227734	C	A	8255	0.08	0.02	0.00	0.00	27.34
rs186411642	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	4	105740999	A	C	8255	-0.56	0.12	0.00	0.00	22.16
rs114261009	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	5	44605726	A	C	8255	-0.45	0.10	0.00	0.00	21.40
rs140959752	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	5	61287064	A	C	8255	-0.16	0.04	0.00	0.00	19.51
rs141331	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	5	77410707	A	G	8255	0.07	0.02	0.00	0.00	21.62
rs75703698	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	6	61577188	C	T	8255	0.27	0.06	0.00	0.00	20.78
rs66511710	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	7	118532277	G	A	8255	-0.07	0.02	0.00	0.00	19.62
rs13250531	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	8	3875635	C	G	8255	0.13	0.03	0.00	0.00	20.96
rs142801739	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	10	11169211	T	C	8255	0.23	0.05	0.00	0.00	25.55
rs1856661	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	10	85189508	C	G	8255	0.30	0.07	0.00	0.00	20.02
rs10766467	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	11	18288902	C	T	8255	-0.17	0.01	0.00	0.02	131.08
rs1846285	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	11	49448867	G	A	8255	0.09	0.02	0.00	0.00	21.14

rs11522698	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	11	104930570	A	G	8255	0.09	0.02	0.00	0.00	26.73
rs59543093	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	11	128569994	T	C	8255	-0.19	0.04	0.00	0.00	23.22
rs2126886	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	12	21548366	T	C	8255	0.08	0.02	0.00	0.00	20.18
rs10846866	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	12	125296071	A	T	8255	-0.08	0.02	0.00	0.00	21.93
rs9566434	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	13	39439182	G	T	8255	0.59	0.13	0.00	0.00	20.96
rs62045233	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	15	55993427	A	C	8255	-0.14	0.03	0.00	0.00	19.71
rs116952655	2-hydroxy-4-(methylthio)butanoic acid levels	GCST90200258	18	25735782	G	T	8255	-0.27	0.06	0.00	0.00	21.56
rs4847582	Pentose acid levels	GCST90200259	1	5258011	G	C	8235	-0.12	0.03	0.00	0.00	20.25
rs115269082	Pentose acid levels	GCST90200259	1	26374957	T	C	8235	-0.23	0.05	0.00	0.00	21.29
rs10874045	Pentose acid levels	GCST90200259	1	79574809	T	G	8235	0.08	0.02	0.00	0.00	27.31
rs12475939	Pentose acid levels	GCST90200259	2	9123426	T	C	8235	-0.09	0.02	0.00	0.00	23.43
rs72796486	Pentose acid levels	GCST90200259	2	35462368	A	G	8235	-0.14	0.03	0.00	0.00	19.80
rs11690303	Pentose acid levels	GCST90200259	2	198991364	A	C	8235	-0.21	0.05	0.00	0.00	20.13
rs79547980	Pentose acid levels	GCST90200259	3	3218402	G	T	8235	0.22	0.05	0.00	0.00	19.65
rs2048063	Pentose acid levels	GCST90200259	3	62715226	T	G	8235	0.08	0.02	0.00	0.00	21.55
rs6444176	Pentose acid levels	GCST90200259	3	186868271	T	C	8235	0.22	0.05	0.00	0.00	21.25
rs146924265	Pentose acid levels	GCST90200259	4	56736806	G	A	8235	0.13	0.02	0.00	0.00	32.01
rs55352350	Pentose acid levels	GCST90200259	5	39334373	C	T	8235	0.15	0.03	0.00	0.00	23.63
rs75034079	Pentose acid levels	GCST90200259	5	169403953	A	G	8235	-0.33	0.06	0.00	0.00	25.75
rs71521718	Pentose acid levels	GCST90200259	7	25062660	T	C	8235	-0.12	0.03	0.00	0.00	20.41
rs12707061	Pentose acid levels	GCST90200259	7	132926618	T	G	8235	0.07	0.02	0.00	0.00	20.45
rs13275653	Pentose acid levels	GCST90200259	8	101637453	T	C	8235	-0.07	0.02	0.00	0.00	22.93
rs12544863	Pentose acid levels	GCST90200259	8	141226958	T	C	8235	0.07	0.02	0.00	0.00	20.05
rs150900686	Pentose acid levels	GCST90200259	11	75974842	T	A	8235	0.15	0.03	0.00	0.00	21.28
rs61893676	Pentose acid levels	GCST90200259	11	95131455	A	G	8235	-0.22	0.04	0.00	0.00	24.70
rs17092638	Pentose acid levels	GCST90200259	11	116685520	G	C	8235	0.09	0.02	0.00	0.00	22.59
rs1874899	Pentose acid levels	GCST90200259	12	115513114	C	T	8235	-0.08	0.02	0.00	0.00	20.57
rs1413111	Pentose acid levels	GCST90200259	13	55748392	T	G	8235	0.07	0.02	0.00	0.00	21.41
rs4777857	Pentose acid levels	GCST90200259	15	93382098	A	G	8235	-0.07	0.02	0.00	0.00	22.73

rs1748009	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	1	17365271	T	A	7990	-0.08	0.02	0.00	0.00	20.19
rs15040638 0	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	1	219651262	G	C	7990	-0.39	0.09	0.00	0.00	19.70
rs10171471	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	2	96181298	C	T	7990	-0.08	0.02	0.00	0.00	22.15
rs72836123	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	2	118888515	T	C	7990	0.22	0.05	0.00	0.00	20.89
rs72849177	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	2	143082974	G	A	7990	-0.27	0.06	0.00	0.00	23.57
rs15096713 8	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	2	211050198	A	G	7990	0.33	0.07	0.00	0.00	22.62
rs71430371	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	2	241625444	C	T	7990	-0.16	0.04	0.00	0.00	19.72
rs10022238	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	4	20763284	T	G	7990	0.08	0.02	0.00	0.00	20.57
rs13827560 2	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	4	76248150	A	G	7990	0.19	0.04	0.00	0.00	20.54
rs2131280	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	6	50357582	A	G	7990	0.07	0.02	0.00	0.00	21.21
rs77794438	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	6	81794315	C	T	7990	0.13	0.03	0.00	0.00	20.47
rs14041282 7	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	7	98598576	G	A	7990	-0.28	0.06	0.00	0.00	19.63
rs11519068	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	12	21259509	C	T	7990	0.11	0.02	0.00	0.00	24.34
rs19121735 4	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	12	61795945	A	G	7990	0.44	0.09	0.00	0.00	22.03
rs11791360 6	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	12	122976570	A	G	7990	-0.12	0.03	0.00	0.00	21.57
rs7982530	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	13	23482353	A	G	7990	-0.09	0.02	0.00	0.00	20.02
rs77176196	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	14	91290787	C	T	7990	-0.26	0.06	0.00	0.00	19.73
rs218547	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	18	1461613	A	C	7990	0.08	0.02	0.00	0.00	19.51

rs35396326	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	19	44853746	G	C	7990	0.08	0.02	0.00	0.00	20.22
rs1293417	Branched chain 14:0 dicarboxylic acid levels	GCST90200260	20	53142382	C	A	7990	0.15	0.03	0.00	0.00	28.17
rs2807561	S-carboxyethylcysteine levels	GCST90200261	1	14907459	G	A	8010	0.08	0.02	0.00	0.00	19.61
rs12737734	S-carboxyethylcysteine levels	GCST90200261	1	69027523	G	T	8010	0.09	0.02	0.00	0.00	23.95
rs7519001	S-carboxyethylcysteine levels	GCST90200261	1	171348019	A	T	8010	-0.11	0.02	0.00	0.00	38.67
rs900049	S-carboxyethylcysteine levels	GCST90200261	1	218622430	C	A	8010	0.17	0.04	0.00	0.00	21.55
rs149255255	S-carboxyethylcysteine levels	GCST90200261	1	243919340	C	T	8010	-0.25	0.05	0.00	0.00	21.15
rs13410232	S-carboxyethylcysteine levels	GCST90200261	2	73644562	T	A	8010	-0.10	0.02	0.00	0.00	27.36
rs4992233	S-carboxyethylcysteine levels	GCST90200261	2	241752052	C	T	8010	-0.11	0.02	0.00	0.00	20.59
rs72654387	S-carboxyethylcysteine levels	GCST90200261	4	70606447	C	T	8010	0.15	0.03	0.00	0.00	19.89
rs489516	S-carboxyethylcysteine levels	GCST90200261	6	11604304	A	C	8010	0.07	0.02	0.00	0.00	20.20
rs909987	S-carboxyethylcysteine levels	GCST90200261	6	40520902	A	G	8010	0.07	0.02	0.00	0.00	19.97
rs62436832	S-carboxyethylcysteine levels	GCST90200261	6	161661501	A	C	8010	-0.19	0.04	0.00	0.00	21.14
rs34921941	S-carboxyethylcysteine levels	GCST90200261	7	32536644	C	G	8010	0.32	0.06	0.00	0.00	23.85
rs76614677	S-carboxyethylcysteine levels	GCST90200261	7	63924121	G	C	8010	-0.09	0.02	0.00	0.00	19.57
rs80351204	S-carboxyethylcysteine levels	GCST90200261	7	87528799	A	G	8010	0.40	0.08	0.00	0.00	27.89
rs59674879	S-carboxyethylcysteine levels	GCST90200261	7	91545676	A	G	8010	0.27	0.06	0.00	0.00	20.55
rs2977388	S-carboxyethylcysteine levels	GCST90200261	8	58180829	A	G	8010	-0.11	0.02	0.00	0.00	20.14
rs149046587	S-carboxyethylcysteine levels	GCST90200261	9	131244200	A	G	8010	0.35	0.07	0.00	0.00	25.02
rs144455890	S-carboxyethylcysteine levels	GCST90200261	9	131387220	T	C	8010	0.38	0.07	0.00	0.00	26.43
rs4388821	S-carboxyethylcysteine levels	GCST90200261	10	84171600	G	C	8010	-0.08	0.02	0.00	0.00	21.93
rs7930787	S-carboxyethylcysteine levels	GCST90200261	11	77545141	G	A	8010	0.19	0.04	0.00	0.00	19.94
rs75011578	S-carboxyethylcysteine levels	GCST90200261	12	11432426	C	A	8010	-0.13	0.03	0.00	0.00	24.46
rs4901119	S-carboxyethylcysteine levels	GCST90200261	14	51395808	G	A	8010	0.08	0.02	0.00	0.00	22.87

rs112182704	S-carboxyethylcysteine levels	GCST90200261	15	56482422	G	A	8010	-0.10	0.02	0.00	0.00	21.46
rs2834019	S-carboxyethylcysteine levels	GCST90200261	21	32944250	T	C	8010	-0.08	0.02	0.00	0.00	24.26
rs149387057	N-succinyl-phenylalanine levels	GCST90200262	1	236452487	C	T	6199	-0.49	0.11	0.00	0.00	19.59
rs72790128	N-succinyl-phenylalanine levels	GCST90200262	2	51774739	T	G	6199	-0.11	0.02	0.00	0.00	22.56
rs75715218	N-succinyl-phenylalanine levels	GCST90200262	3	308451	C	T	6199	0.16	0.04	0.00	0.00	20.59
rs28367075	N-succinyl-phenylalanine levels	GCST90200262	4	22049558	A	G	6199	-0.34	0.07	0.00	0.00	22.18
rs116694924	N-succinyl-phenylalanine levels	GCST90200262	5	25359272	C	A	6199	0.18	0.04	0.00	0.00	19.61
rs116306359	N-succinyl-phenylalanine levels	GCST90200262	5	31879109	T	C	6199	0.22	0.05	0.00	0.00	20.48
rs6450034	N-succinyl-phenylalanine levels	GCST90200262	5	69331979	G	T	6199	-0.29	0.06	0.00	0.00	20.80
rs246772	N-succinyl-phenylalanine levels	GCST90200262	5	169845420	G	A	6199	-0.09	0.02	0.00	0.00	20.71
rs2817188	N-succinyl-phenylalanine levels	GCST90200262	6	25807375	G	A	6199	-0.36	0.02	0.00	0.07	449.70
rs2246856	N-succinyl-phenylalanine levels	GCST90200262	6	29764998	G	C	6199	0.17	0.04	0.00	0.00	21.54
rs10268083	N-succinyl-phenylalanine levels	GCST90200262	7	29706387	G	A	6199	0.13	0.03	0.00	0.00	20.15
rs76653848	N-succinyl-phenylalanine levels	GCST90200262	7	46920354	A	G	6199	-0.30	0.06	0.00	0.00	25.58
rs191342266	N-succinyl-phenylalanine levels	GCST90200262	7	70374896	A	G	6199	-0.31	0.07	0.00	0.00	20.04
rs11993339	N-succinyl-phenylalanine levels	GCST90200262	8	141130108	T	C	6199	0.13	0.03	0.00	0.00	20.77
rs482376	N-succinyl-phenylalanine levels	GCST90200262	9	2539495	C	T	6199	-0.09	0.02	0.00	0.00	19.82
rs12238280	N-succinyl-phenylalanine levels	GCST90200262	9	84120084	A	G	6199	-0.14	0.03	0.00	0.00	21.34
rs10435873	N-succinyl-phenylalanine levels	GCST90200262	9	116275755	G	T	6199	0.08	0.02	0.00	0.00	20.54
rs146993166	N-succinyl-phenylalanine levels	GCST90200262	10	80679509	T	C	6199	0.25	0.06	0.00	0.00	19.96
rs79837617	N-succinyl-phenylalanine levels	GCST90200262	11	111006473	C	T	6199	-0.24	0.05	0.00	0.00	21.97
rs117749188	N-succinyl-phenylalanine levels	GCST90200262	14	30504386	G	A	6199	0.32	0.07	0.00	0.00	21.86
rs12587232	N-succinyl-phenylalanine levels	GCST90200262	14	68561149	G	A	6199	0.08	0.02	0.00	0.00	20.01
rs11856296	N-succinyl-phenylalanine levels	GCST90200262	15	36966757	T	C	6199	0.12	0.03	0.00	0.00	20.15

rs1230891	N-succinyl-phenylalanine levels	GCST90200262	16	13113297	T	C	6199	-0.09	0.02	0.00	0.00	20.39
rs8075406	N-succinyl-phenylalanine levels	GCST90200262	17	50672161	T	A	6199	0.09	0.02	0.00	0.00	23.43
rs139608385	N-succinyl-phenylalanine levels	GCST90200262	18	27693595	C	T	6199	-0.34	0.07	0.00	0.00	25.67
rs73429521	N-succinyl-phenylalanine levels	GCST90200262	18	48073353	A	G	6199	-0.19	0.04	0.00	0.00	20.68
rs2108622	N-succinyl-phenylalanine levels (2 or 3)-	GCST90200262	19	15879621	T	C	6199	-0.20	0.02	0.00	0.02	105.46
rs199691	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	1	77036794	C	A	8124	-0.09	0.02	0.00	0.00	19.97
rs2031958	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	1	101246326	C	G	8124	-0.13	0.03	0.00	0.00	21.93
rs148620988	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	2	159434655	C	T	8124	0.28	0.06	0.00	0.00	21.88
rs77110687	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	3	39138368	C	T	8124	-0.29	0.06	0.00	0.00	20.89
rs9821781	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	3	149644618	A	G	8124	0.07	0.02	0.00	0.00	20.83
rs74681450	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	4	30581843	A	G	8124	-0.18	0.04	0.00	0.00	20.49
rs114414442	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	5	21817138	G	A	8124	-0.15	0.03	0.00	0.00	21.35
rs79859092	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	5	96814807	C	T	8124	-0.21	0.04	0.00	0.00	25.64
rs17524553	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	5	147081128	A	T	8124	-0.11	0.02	0.00	0.00	19.83
rs659305	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	6	4125421	G	A	8124	0.16	0.02	0.00	0.01	95.71
rs2505293	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	6	51083983	T	C	8124	-0.17	0.04	0.00	0.00	20.82
rs72952344	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	6	74091198	C	G	8124	-0.13	0.03	0.00	0.00	19.81
rs6936797	decenoate (10:1n7 or n8) levels (2 or 3)-	GCST90200263	6	158169087	A	G	8124	0.08	0.02	0.00	0.00	20.84
rs12546439	decenoate (10:1n7 or n8) levels	GCST90200263	8	663232	T	C	8124	-0.07	0.02	0.00	0.00	21.23

rs11742457 3	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	8	67657769	T	C	8124	-0.33	0.07	0.00	0.00	23.37
rs10099683	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	8	91169328	G	A	8124	-0.11	0.02	0.00	0.00	20.46
rs1998757	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	10	98469749	C	G	8124	0.09	0.02	0.00	0.00	21.40
rs78416142	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	11	132784667	G	A	8124	-0.20	0.04	0.00	0.00	19.81
rs11052059	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	12	32540963	A	G	8124	0.16	0.03	0.00	0.00	23.73
rs75026995	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	12	132155290	T	C	8124	0.08	0.02	0.00	0.00	21.98
rs14696804 2	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	14	73569796	T	C	8124	-0.31	0.05	0.00	0.00	34.67
rs15115498 6	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	14	73573432	A	G	8124	-0.35	0.04	0.00	0.01	60.48
rs80343679	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	15	25550838	G	A	8124	-0.15	0.03	0.00	0.00	22.71
rs13379820	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	15	56117008	A	G	8124	0.07	0.02	0.00	0.00	21.55
rs62011351	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	16	1428263	A	G	8124	-0.16	0.04	0.00	0.00	20.68
rs2646097	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	16	84913454	C	G	8124	-0.10	0.02	0.00	0.00	26.02
rs11125805 2	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	17	15142798	C	T	8124	-0.10	0.02	0.00	0.00	22.43
rs14918722 4	(2 or 3)- decenoate (10:1n7 or n8) levels	GCST90200263	22	43752153	C	T	8124	0.22	0.05	0.00	0.00	19.74
rs61784546	Bilirubin degradation product, C17H20N2O5	GCST90200264	1	64477602	C	T	8254	0.23	0.05	0.00	0.00	19.87
rs74443330	(2) levels Bilirubin degradation product, C17H20N2O5	GCST90200264	1	80262189	G	T	8254	0.11	0.02	0.00	0.00	19.65
rs11461868 2	(2) levels Bilirubin degradation product, C17H20N2O5	GCST90200264	1	114506207	T	C	8254	-0.23	0.05	0.00	0.00	19.89

rs7514506	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	1	177174059	T	C	8254	-0.15	0.03	0.00	0.00	21.26
rs6751931	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	2	10238380	C	A	8254	-0.13	0.03	0.00	0.00	20.01
rs13390156	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	2	11654317	C	A	8254	-0.08	0.02	0.00	0.00	22.82
rs887829	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	2	233759924	T	C	8254	0.39	0.02	0.00	0.07	630.21
rs187042790	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	3	12494644	T	G	8254	-0.28	0.06	0.00	0.00	20.32
rs116356916	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	5	107954030	G	A	8254	0.26	0.06	0.00	0.00	21.46
rs74709126	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	6	124628017	C	A	8254	0.11	0.02	0.00	0.00	21.19
rs141771065	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	6	167429655	C	T	8254	0.16	0.03	0.00	0.00	22.44
rs72685159	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	8	102712944	T	C	8254	-0.29	0.06	0.00	0.00	20.09
rs266104	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	10	44360788	T	C	8254	0.11	0.02	0.00	0.00	22.43
rs2115763	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	11	112180446	T	A	8254	0.07	0.02	0.00	0.00	19.68
rs118105919	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	11	133772784	C	T	8254	-0.21	0.04	0.00	0.00	23.24
rs7964924	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	12	26349086	C	T	8254	0.09	0.02	0.00	0.00	20.93
rs182321907	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	13	28614928	A	C	8254	-0.33	0.08	0.00	0.00	19.64

rs79497827	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	13	62785657	C	T	8254	0.31	0.06	0.00	0.00	25.05
rs9573864	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	13	76415340	T	C	8254	-0.10	0.02	0.00	0.00	20.03
rs11782556 3	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	15	83859041	A	G	8254	-0.31	0.07	0.00	0.00	20.79
rs2440685	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	15	96192331	C	T	8254	0.08	0.02	0.00	0.00	21.96
rs8092881	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	18	8387456	T	A	8254	0.22	0.05	0.00	0.00	22.41
rs6017921	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	20	46567739	A	G	8254	-1.56	0.34	0.00	0.00	20.76
rs77487713	Bilirubin degradation product, C17H20N2O5 (2) levels	GCST90200264	22	48917178	T	G	8254	0.27	0.06	0.00	0.00	22.22
rs17393065	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	2	30895733	A	C	8159	0.09	0.02	0.00	0.00	24.30
rs62182849	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	2	203594924	A	G	8159	-0.10	0.02	0.00	0.00	19.85
rs6719241	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	2	233306580	T	G	8159	0.18	0.04	0.00	0.00	24.88
rs887829	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	2	233759924	T	C	8159	0.54	0.02	0.00	0.13	#####
rs11244615 2	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	3	1096902	T	C	8159	0.58	0.12	0.00	0.00	22.26
rs34079268	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	3	24988584	C	T	8159	-0.08	0.02	0.00	0.00	20.05
rs77777980	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	7	16910224	T	C	8159	0.24	0.05	0.00	0.00	19.89

rs75326967	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	7	105700802	T	C	8159	-0.10	0.02	0.00	0.00	20.19
rs17233604	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	7	135204512	C	T	8159	-0.11	0.02	0.00	0.00	24.41
rs13269731	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	8	68285578	C	T	8159	0.08	0.02	0.00	0.00	26.76
rs4881150	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	10	3301962	T	G	8159	-0.17	0.04	0.00	0.00	22.48
rs18366652 5	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	11	10203802	A	T	8159	0.37	0.08	0.00	0.00	21.72
rs67981690	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	12	21190952	G	A	8159	0.10	0.02	0.00	0.00	20.72
rs1980840	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	13	74631225	T	C	8159	-0.10	0.02	0.00	0.00	19.87
rs11698303 8	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	14	52142064	A	G	8159	-0.38	0.08	0.00	0.00	22.23
rs1275201	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	14	69012518	C	T	8159	0.07	0.02	0.00	0.00	20.47
rs8027151	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	15	58616781	G	A	8159	0.08	0.02	0.00	0.00	21.77
rs7238594	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	18	76391136	C	T	8159	0.07	0.02	0.00	0.00	21.30
rs6007709	Bilirubin degradation product, C16H18N2O5 (4) levels	GCST90200265	22	47622219	C	A	8159	0.07	0.02	0.00	0.00	20.79
rs324420	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	1	46405089	A	C	8259	-0.08	0.02	0.00	0.00	20.55
rs2999541	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	1	151926273	C	G	8259	-0.10	0.02	0.00	0.01	42.30
rs14788631 1	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	2	6883603	T	C	8259	-0.42	0.09	0.00	0.00	20.27

rs11461360 1	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	2	138772013	G	C	8259	0.22	0.05	0.00	0.00	23.05
rs1047891	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	2	210675783	A	C	8259	-0.08	0.02	0.00	0.00	22.08
rs12642833	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	4	65027622	G	A	8259	-0.07	0.02	0.00	0.00	20.14
rs247001	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	5	132010768	G	A	8259	-0.07	0.02	0.00	0.00	21.33
rs72802659	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	5	153639255	C	G	8259	-0.14	0.03	0.00	0.00	22.14
rs78382346	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	6	4862453	A	G	8259	-0.13	0.03	0.00	0.00	22.11
rs1001145	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	6	107973266	C	T	8259	0.08	0.02	0.00	0.00	20.95
rs79439304	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	6	143878483	T	C	8259	-0.31	0.07	0.00	0.00	21.06
rs80254170	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	6	160093251	G	A	8259	-0.26	0.03	0.00	0.01	81.97
rs662138	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	6	160143444	G	C	8259	-0.25	0.02	0.00	0.02	152.20
rs56212584	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	7	71149860	G	A	8259	-0.12	0.02	0.00	0.00	21.94
rs13935846 8	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	7	152927012	C	T	8259	0.28	0.06	0.00	0.00	22.31
rs11811934 5	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	8	109015092	G	A	8259	-0.33	0.07	0.00	0.00	19.83
rs4740797	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	9	4636990	A	G	8259	0.13	0.03	0.00	0.00	22.96
rs11256316	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	10	9734631	G	A	8259	0.12	0.03	0.00	0.00	21.99
rs1171615	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	10	59709332	T	C	8259	0.15	0.02	0.00	0.01	67.46
rs476451	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	11	55490697	T	C	8259	0.09	0.02	0.00	0.00	23.33
rs14157575 5	Cis-3,4- methylenehept anoylcarnitine levels	GCST90200266	12	26333244	A	G	8259	-0.20	0.04	0.00	0.00	26.06

rs4770259	Cis-3,4-methyleneheptanoylcarnitine levels	GCST90200266	13	22251648	A	C	8259	0.13	0.03	0.00	0.00	20.42
rs1290650	Cis-3,4-methyleneheptanoylcarnitine levels	GCST90200266	19	49826427	G	A	8259	0.07	0.02	0.00	0.00	20.97
rs117842847	Cis-3,4-methyleneheptanoylcarnitine levels	GCST90200266	22	40006777	T	G	8259	-0.82	0.17	0.00	0.00	23.48
rs116517089	Tetrahydrocor-tisol glucuronide	GCST90200267	1	242370608	T	C	8182	0.25	0.06	0.00	0.00	20.87
rs35520264	Tetrahydrocor-tisol glucuronide	GCST90200267	3	12430249	C	T	8182	-0.27	0.06	0.00	0.00	21.23
rs13319552	Tetrahydrocor-tisol glucuronide	GCST90200267	3	16649366	A	G	8182	-0.10	0.02	0.00	0.00	23.89
rs73090131	Tetrahydrocor-tisol glucuronide	GCST90200267	3	59286451	C	T	8182	0.09	0.02	0.00	0.00	20.46
rs6792166	Tetrahydrocor-tisol glucuronide	GCST90200267	3	146225248	G	C	8182	-0.07	0.01	0.00	0.00	20.88
rs138762595	Tetrahydrocor-tisol glucuronide	GCST90200267	4	68654157	A	G	8182	-0.47	0.06	0.00	0.01	59.05
rs293435	Tetrahydrocor-tisol glucuronide	GCST90200267	4	68722334	T	C	8182	0.07	0.02	0.00	0.00	22.67
rs1016647	Tetrahydrocor-tisol glucuronide	GCST90200267	5	138208708	T	C	8182	-0.07	0.01	0.00	0.00	24.37
rs58743615	Tetrahydrocor-tisol glucuronide	GCST90200267	5	172722545	C	T	8182	-0.18	0.04	0.00	0.00	20.41
rs111736517	Tetrahydrocor-tisol glucuronide	GCST90200267	7	36215988	A	G	8182	-0.19	0.04	0.00	0.00	19.72
rs3857868	Tetrahydrocor-tisol glucuronide	GCST90200267	7	138113018	A	T	8182	0.14	0.02	0.00	0.01	66.97
rs72741065	Tetrahydrocor-tisol glucuronide	GCST90200267	9	93063479	G	C	8182	-0.14	0.03	0.00	0.00	20.58
rs943485	Tetrahydrocor-tisol glucuronide	GCST90200267	9	124078286	C	T	8182	0.14	0.03	0.00	0.00	23.86
rs10892559	Tetrahydrocor-tisol glucuronide	GCST90200267	11	120285669	T	C	8182	-0.07	0.01	0.00	0.00	24.28
rs75599825	Tetrahydrocor-tisol glucuronide	GCST90200267	11	124635797	C	T	8182	-0.19	0.04	0.00	0.00	19.58
rs57743625	Tetrahydrocor-tisol glucuronide	GCST90200267	12	21214699	A	G	8182	0.09	0.02	0.00	0.00	26.22
rs113049757	Tetrahydrocor-tisol glucuronide	GCST90200267	12	119270267	T	A	8182	-0.13	0.03	0.00	0.00	24.82
rs113286872	Tetrahydrocor-tisol glucuronide	GCST90200267	13	41971285	A	G	8182	-0.20	0.04	0.00	0.00	21.46
rs1256522	Tetrahydrocor-tisol glucuronide	GCST90200267	14	65271311	T	C	8182	0.07	0.01	0.00	0.00	26.89
rs117516535	Tetrahydrocor-tisol glucuronide	GCST90200267	14	101512083	T	C	8182	0.48	0.11	0.00	0.00	20.25

rs149193056	Tetrahydrocortisol glucuronide	GCST90200267	16	2879431	T	C	8182	0.33	0.07	0.00	0.00	19.65
rs4151117	Tetrahydrocortisol glucuronide	GCST90200267	16	57383222	T	G	8182	0.08	0.02	0.00	0.00	19.86
rs11568591	Tetrahydrocortisol glucuronide	GCST90200267	17	50683692	A	G	8182	-0.16	0.03	0.00	0.00	35.53
rs11661616	Tetrahydrocortisol glucuronide	GCST90200267	18	900102	T	C	8182	-0.07	0.02	0.00	0.00	21.04
rs117816107	Tetrahydrocortisol glucuronide	GCST90200267	18	35984347	T	C	8182	-0.23	0.05	0.00	0.00	19.85
rs4804669	Tetrahydrocortisol glucuronide	GCST90200267	19	12391643	G	A	8182	-0.11	0.02	0.00	0.00	39.68
rs4810397	Tetrahydrocortisol glucuronide	GCST90200267	20	43855187	T	C	8182	0.08	0.02	0.00	0.00	23.66
rs5751247	Tetrahydrocortisol glucuronide	GCST90200267	22	42237048	C	T	8182	0.08	0.02	0.00	0.00	28.29
rs3123042	N-acetyl-2-amino adipate levels	GCST90200268	1	187772437	T	C	7606	0.08	0.02	0.00	0.00	23.31
rs13034970	N-acetyl-2-amino adipate levels	GCST90200268	2	3962173	C	T	7606	0.09	0.02	0.00	0.00	22.59
rs2921989	N-acetyl-2-amino adipate levels	GCST90200268	2	45025229	G	A	7606	0.09	0.02	0.00	0.00	20.23
rs7609407	N-acetyl-2-amino adipate levels	GCST90200268	2	73273000	G	A	7606	-0.11	0.02	0.00	0.00	22.45
rs10201159	N-acetyl-2-amino adipate levels	GCST90200268	2	73631838	C	T	7606	0.40	0.02	0.00	0.06	468.32
rs61765186	N-acetyl-2-amino adipate levels	GCST90200268	2	186644976	A	G	7606	0.09	0.02	0.00	0.00	21.90
rs2268816	N-acetyl-2-amino adipate levels	GCST90200268	3	186317705	T	C	7606	-0.08	0.02	0.00	0.00	21.78
rs116522067	N-acetyl-2-amino adipate levels	GCST90200268	5	56626273	T	A	7606	-0.30	0.07	0.00	0.00	19.82
rs370984	N-acetyl-2-amino adipate levels	GCST90200268	5	98703865	A	C	7606	-0.34	0.08	0.00	0.00	20.39
rs12209125	N-acetyl-2-amino adipate levels	GCST90200268	6	25769561	C	A	7606	0.08	0.02	0.00	0.00	21.16
rs12197636	N-acetyl-2-amino adipate levels	GCST90200268	6	40950077	A	G	7606	-0.08	0.02	0.00	0.00	20.19
rs77580414	N-acetyl-2-amino adipate levels	GCST90200268	6	149288058	G	A	7606	0.19	0.04	0.00	0.00	23.13
rs62483510	N-acetyl-2-amino adipate levels	GCST90200268	7	101309662	C	G	7606	-0.28	0.06	0.00	0.00	19.51
rs148575042	N-acetyl-2-amino adipate levels	GCST90200268	9	110687458	A	C	7606	-0.36	0.08	0.00	0.00	21.10
rs117401071	N-acetyl-2-amino adipate levels	GCST90200268	9	126755992	C	T	7606	0.19	0.04	0.00	0.00	21.83
rs12421551	N-acetyl-2-amino adipate levels	GCST90200268	11	77101757	G	A	7606	0.09	0.02	0.00	0.00	20.36

rs566880	N-acetyl-2- aminoadipate levels	GCST90200268	11	119824302	C	T	7606	-0.10	0.02	0.00	0.00	23.54
rs11312584 2	N-acetyl-2- aminoadipate levels	GCST90200268	11	134996725	C	G	7606	-0.34	0.08	0.00	0.00	19.82
rs67347527	N-acetyl-2- aminoadipate levels	GCST90200268	12	43154318	G	A	7606	-0.09	0.02	0.00	0.00	20.83
rs11718192 2	N-acetyl-2- aminoadipate levels	GCST90200268	12	63314460	C	T	7606	0.35	0.07	0.00	0.00	23.95
rs11624067	N-acetyl-2- aminoadipate levels	GCST90200268	14	62419927	T	G	7606	-0.09	0.02	0.00	0.00	22.11
rs72719800	N-acetyl-2- aminoadipate levels	GCST90200268	14	70654158	T	C	7606	-0.32	0.07	0.00	0.00	22.29
rs2201504	N-acetyl-2- aminoadipate levels	GCST90200268	15	33684577	T	A	7606	-0.08	0.02	0.00	0.00	25.18
rs13943985 8	N-acetyl-2- aminoadipate levels	GCST90200268	17	22730970	T	C	7606	-0.16	0.04	0.00	0.00	21.52
rs74443330	Bilirubin degradation product, C17H20N2O5	GCST90200269	1	80262189	G	T	8252	0.11	0.02	0.00	0.00	21.10
rs11546019 0	(1) levels Bilirubin degradation product, C17H20N2O5	GCST90200269	1	177180895	C	G	8252	-0.19	0.04	0.00	0.00	21.82
rs6751931	(1) levels Bilirubin degradation product, C17H20N2O5	GCST90200269	2	10238380	C	A	8252	-0.13	0.03	0.00	0.00	19.69
rs13390156	(1) levels Bilirubin degradation product, C17H20N2O5	GCST90200269	2	11654317	C	A	8252	-0.08	0.02	0.00	0.00	22.40
rs11503105 2	(1) levels Bilirubin degradation product, C17H20N2O5	GCST90200269	2	32800335	G	C	8252	-0.22	0.05	0.00	0.00	20.28
rs6742078	(1) levels Bilirubin degradation product, C17H20N2O5	GCST90200269	2	233763993	T	G	8252	0.39	0.02	0.00	0.07	610.35
rs18704279 0	(1) levels Bilirubin degradation product, C17H20N2O5	GCST90200269	3	12494644	T	G	8252	-0.29	0.06	0.00	0.00	21.29
rs73358086	(1) levels Bilirubin degradation product, C17H20N2O5	GCST90200269	6	231281	A	G	8252	0.20	0.04	0.00	0.00	19.87
rs14177106 5	(1) levels Bilirubin degradation product, C17H20N2O5	GCST90200269	6	167429655	C	T	8252	0.16	0.03	0.00	0.00	22.32
rs10276362	(1) levels Bilirubin degradation product, C17H20N2O5	GCST90200269	7	5163631	A	G	8252	-0.13	0.03	0.00	0.00	19.55

rs11751959 2	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	9	106406682	T	G	8252	0.23	0.05	0.00	0.00	19.76
rs266104	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	10	44360788	T	C	8252	0.11	0.02	0.00	0.00	22.08
rs2115763	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	11	112180446	T	A	8252	0.07	0.02	0.00	0.00	20.27
rs11810591 9	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	11	133772784	C	T	8252	-0.22	0.04	0.00	0.00	25.56
rs7964924	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	12	26349086	C	T	8252	0.09	0.02	0.00	0.00	21.08
rs79497827	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	13	62785657	C	T	8252	0.31	0.06	0.00	0.00	25.01
rs9573864	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	13	76415340	T	C	8252	-0.09	0.02	0.00	0.00	19.54
rs11624985	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	14	50957564	C	G	8252	-0.08	0.02	0.00	0.00	19.94
rs11782556 3	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	15	83859041	A	G	8252	-0.32	0.07	0.00	0.00	22.08
rs2440685	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	15	96192331	C	T	8252	0.08	0.02	0.00	0.00	20.82
rs8092881	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	18	8387456	T	A	8252	0.23	0.05	0.00	0.00	23.32
rs6017921	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	20	46567739	A	G	8252	-1.59	0.34	0.00	0.00	21.55
rs2830633	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	21	27019633	A	T	8252	-0.09	0.02	0.00	0.00	21.02
rs77487713	Bilirubin degradation product, C17H20N2O5 (1) levels	GCST90200269	22	48917178	T	G	8252	0.28	0.06	0.00	0.00	24.03
rs35408909	2- methoxyhydro quinone sulfate (1)	GCST90200270	1	41571741	T	C	7487	0.18	0.04	0.00	0.00	23.34

rs7529989	2-methoxyhydroquinone sulfate (1)	GCST90200270	1	163983069	G	A	7487	-0.16	0.03	0.00	0.00	22.47
rs853467	2-methoxyhydroquinone sulfate (1)	GCST90200270	1	230618501	T	G	7487	-0.09	0.02	0.00	0.00	24.14
rs139157655	2-methoxyhydroquinone sulfate (1)	GCST90200270	2	44807267	G	A	7487	0.33	0.07	0.00	0.00	20.22
rs11687064	2-methoxyhydroquinone sulfate (1)	GCST90200270	2	76192340	G	A	7487	0.14	0.03	0.00	0.00	20.67
rs13008556	2-methoxyhydroquinone sulfate (1)	GCST90200270	2	180270030	A	G	7487	0.17	0.04	0.00	0.00	22.15
rs4519674	2-methoxyhydroquinone sulfate (1)	GCST90200270	3	101618280	A	T	7487	0.07	0.02	0.00	0.00	21.43
rs10029516	2-methoxyhydroquinone sulfate (1)	GCST90200270	4	113089932	T	G	7487	0.07	0.02	0.00	0.00	21.70
rs116525876	2-methoxyhydroquinone sulfate (1)	GCST90200270	4	139628949	G	A	7487	-0.32	0.07	0.00	0.00	19.60
rs115328838	2-methoxyhydroquinone sulfate (1)	GCST90200270	6	28907909	C	T	7487	-0.24	0.05	0.00	0.00	28.36
rs2378383	2-methoxyhydroquinone sulfate (1)	GCST90200270	9	79424447	G	A	7487	0.11	0.03	0.00	0.00	19.82
rs375743116	2-methoxyhydroquinone sulfate (1)	GCST90200270	10	25251475	T	C	7487	-0.33	0.07	0.00	0.00	20.06
rs523359	2-methoxyhydroquinone sulfate (1)	GCST90200270	11	96286418	G	A	7487	0.08	0.02	0.00	0.00	20.25
rs17700494	2-methoxyhydroquinone sulfate (1)	GCST90200270	12	4378225	T	G	7487	0.19	0.04	0.00	0.00	21.21
rs11616918	2-methoxyhydroquinone sulfate (1)	GCST90200270	13	76674733	C	A	7487	0.10	0.02	0.00	0.00	22.61
rs72818498	2-methoxyhydroquinone sulfate (1)	GCST90200270	16	80403466	A	T	7487	-0.15	0.03	0.00	0.00	20.55
rs7237410	2-methoxyhydroquinone sulfate (1)	GCST90200270	18	8007254	A	G	7487	0.13	0.03	0.00	0.00	19.79
rs6081420	2-methoxyhydroquinone sulfate (1)	GCST90200270	20	18933480	A	G	7487	0.08	0.02	0.00	0.00	23.61
rs16980161	2-methoxyhydroquinone sulfate (1)	GCST90200270	21	27240505	T	G	7487	0.23	0.05	0.00	0.00	19.58

rs58217427	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	1	17232377	A	G	7970	0.16	0.04	0.00	0.00	21.12
rs61784546	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	1	64477602	C	T	7970	0.23	0.05	0.00	0.00	19.85
rs16850724	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	1	177101899	G	A	7970	-0.17	0.03	0.00	0.00	25.44
rs37564443 2	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	2	87497702	G	A	7970	-0.25	0.06	0.00	0.00	19.83
rs62182849	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	2	203594924	A	G	7970	-0.11	0.02	0.00	0.00	25.46
rs6759896	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	2	233302326	A	G	7970	-0.08	0.02	0.00	0.00	29.45
rs887829	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	2	233759924	T	C	7970	0.56	0.02	0.00	0.15	#####
rs11244615 2	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	3	1096902	T	C	7970	0.61	0.12	0.00	0.00	24.21
rs34079268	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	3	24988584	C	T	7970	-0.08	0.02	0.00	0.00	22.05
rs76360447	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	4	14273248	A	T	7970	-0.09	0.02	0.00	0.00	21.40
rs11934528	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	4	43939058	A	G	7970	0.07	0.02	0.00	0.00	19.89
rs11635691 6	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	5	107954030	G	A	7970	0.27	0.06	0.00	0.00	21.95
rs14385132 5	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	6	1781862	C	T	7970	-0.26	0.06	0.00	0.00	20.82
rs45613131	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	6	36317056	A	G	7970	-0.24	0.05	0.00	0.00	19.61

rs17233604	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	7	135204512	C	T	7970	-0.11	0.02	0.00	0.00	23.03
rs7813629	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	8	26724232	T	G	7970	-0.10	0.02	0.00	0.00	19.94
rs13269731	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	8	68285578	C	T	7970	0.07	0.02	0.00	0.00	21.99
rs111764053	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	9	74310089	A	G	7970	0.30	0.07	0.00	0.00	20.10
rs111975669	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	10	28553762	G	A	7970	-0.26	0.06	0.00	0.00	20.59
rs7893619	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	10	79438465	G	C	7970	-0.10	0.02	0.00	0.00	21.98
rs183666525	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	11	10203802	A	T	7970	0.42	0.08	0.00	0.00	26.77
rs370176965	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	11	22290183	C	T	7970	0.08	0.02	0.00	0.00	22.44
rs138694315	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	11	68224292	G	A	7970	0.23	0.05	0.00	0.00	19.70
rs118105919	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	11	133772784	C	T	7970	-0.20	0.04	0.00	0.00	20.07
rs11045909	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	12	21258272	G	C	7970	0.12	0.02	0.00	0.00	32.78
rs142165170	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	12	85822676	G	A	7970	-0.24	0.05	0.00	0.00	20.21
rs116983038	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	14	52142064	A	G	7970	-0.37	0.08	0.00	0.00	21.03
rs72781923	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	16	9715589	G	A	7970	0.34	0.07	0.00	0.00	21.39

rs13337885	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	16	57619135	G	A	7970	-0.07	0.02	0.00	0.00	20.40
rs7238594	Bilirubin degradation product, C16H18N2O5 (3) levels	GCST90200271	18	76391136	C	T	7970	0.07	0.02	0.00	0.00	21.16
rs18828336	hydroxyoctanoylcarnitine (1) levels	GCST90200272	1	28663212	C	G	8245	0.25	0.06	0.00	0.00	20.69
rs11400812	hydroxyoctanoylcarnitine (1) levels	GCST90200272	2	72504745	T	C	8245	0.16	0.03	0.00	0.00	23.06
rs78996690	hydroxyoctanoylcarnitine (1) levels	GCST90200272	2	225366003	G	T	8245	-0.09	0.02	0.00	0.00	19.92
rs7644660	hydroxyoctanoylcarnitine (1) levels	GCST90200272	3	173260397	C	T	8245	-0.07	0.02	0.00	0.00	22.15
rs78531037	hydroxyoctanoylcarnitine (1) levels	GCST90200272	4	46953173	C	T	8245	-0.21	0.05	0.00	0.00	19.83
rs72684392	hydroxyoctanoylcarnitine (1) levels	GCST90200272	4	99952682	G	C	8245	0.12	0.03	0.00	0.00	22.34
rs57859635	hydroxyoctanoylcarnitine (1) levels	GCST90200272	4	111906965	T	A	8245	-0.36	0.08	0.00	0.00	21.30
rs15035526	hydroxyoctanoylcarnitine (1) levels	GCST90200272	5	13195693	C	T	8245	0.22	0.05	0.00	0.00	20.75
rs6886492	hydroxyoctanoylcarnitine (1) levels	GCST90200272	5	69129872	G	A	8245	-0.10	0.02	0.00	0.00	24.33
rs74823953	hydroxyoctanoylcarnitine (1) levels	GCST90200272	5	151300049	T	C	8245	-0.35	0.07	0.00	0.00	26.52
rs245664	hydroxyoctanoylcarnitine (1) levels	GCST90200272	7	9049847	G	C	8245	0.12	0.03	0.00	0.00	19.80
rs6944935	hydroxyoctanoylcarnitine (1) levels	GCST90200272	7	151029833	G	C	8245	-0.10	0.02	0.00	0.00	37.60
rs7037946	hydroxyoctanoylcarnitine (1) levels	GCST90200272	9	6684329	C	G	8245	-0.07	0.02	0.00	0.00	22.13
rs80333274	hydroxyoctanoylcarnitine (1) levels	GCST90200272	11	7559596	A	G	8245	0.21	0.05	0.00	0.00	20.15
rs57219790	hydroxyoctanoylcarnitine (1) levels	GCST90200272	12	159978	T	C	8245	0.08	0.02	0.00	0.00	21.79
rs78717950	hydroxyoctanoylcarnitine (1) levels	GCST90200272	15	95447101	G	C	8245	-0.43	0.09	0.00	0.00	22.38

rs924135	3-hydroxyoctanoylcarnitine (1) levels	GCST90200272	16	16029602	T	A	8245	0.10	0.02	0.00	0.00	40.71
rs1861560	3-hydroxyoctanoylcarnitine (1) levels	GCST90200272	16	48847032	C	A	8245	-0.08	0.02	0.00	0.00	24.62
rs7240063	3-hydroxyoctanoylcarnitine (1) levels	GCST90200272	18	11744938	A	G	8245	0.19	0.04	0.00	0.00	21.40
rs139938935	3-hydroxyoctanoylcarnitine (1) levels	GCST90200272	18	21664649	G	A	8245	-0.50	0.10	0.00	0.00	25.61
rs139395028	2-methoxyhydroquinone sulfate (2)	GCST90200273	1	22691150	A	T	5778	-0.34	0.07	0.00	0.00	22.01
rs6670279	2-methoxyhydroquinone sulfate (2)	GCST90200273	1	109945285	A	T	5778	-0.10	0.02	0.00	0.00	21.65
rs60490710	2-methoxyhydroquinone sulfate (2)	GCST90200273	2	4912617	C	T	5778	-0.27	0.06	0.00	0.00	21.67
rs1903148	2-methoxyhydroquinone sulfate (2)	GCST90200273	4	130614595	A	C	5778	-0.10	0.02	0.00	0.00	19.80
rs77676288	2-methoxyhydroquinone sulfate (2)	GCST90200273	4	175949293	A	G	5778	0.34	0.08	0.00	0.00	19.84
rs1564269	2-methoxyhydroquinone sulfate (2)	GCST90200273	5	40302465	C	G	5778	-0.09	0.02	0.00	0.00	19.87
rs115151170	2-methoxyhydroquinone sulfate (2)	GCST90200273	6	54906289	C	T	5778	-0.41	0.08	0.00	0.00	23.95
rs78091046	2-methoxyhydroquinone sulfate (2)	GCST90200273	7	44409994	A	G	5778	0.20	0.04	0.00	0.00	21.57
rs3823914	2-methoxyhydroquinone sulfate (2)	GCST90200273	7	83649284	A	G	5778	0.19	0.04	0.00	0.00	20.25
rs117838483	2-methoxyhydroquinone sulfate (2)	GCST90200273	7	140952033	T	C	5778	0.88	0.20	0.00	0.00	20.21
rs10216959	2-methoxyhydroquinone sulfate (2)	GCST90200273	8	3187408	C	G	5778	-0.09	0.02	0.00	0.00	20.16
rs150325576	2-methoxyhydroquinone sulfate (2)	GCST90200273	9	106309303	T	C	5778	-0.38	0.09	0.00	0.00	20.20
rs4842163	2-methoxyhydroquinone sulfate (2)	GCST90200273	9	134770895	C	T	5778	-0.09	0.02	0.00	0.00	19.88
rs77315866	2-methoxyhydroquinone sulfate (2)	GCST90200273	10	93748968	C	A	5778	0.14	0.03	0.00	0.00	26.19

rs61940673	2-methoxyhydroquinone sulfate (2)	GCST90200273	12	127993605	T	C	5778	-0.22	0.05	0.00	0.00	21.18
rs34001253	2-methoxyhydroquinone sulfate (2)	GCST90200273	13	42509157	G	A	5778	-0.24	0.05	0.00	0.00	20.14
rs11853784	2-methoxyhydroquinone sulfate (2)	GCST90200273	15	99392061	A	T	5778	0.12	0.03	0.00	0.00	20.53
rs79801371	2-methoxyhydroquinone sulfate (2)	GCST90200273	17	70805315	G	C	5778	-0.48	0.10	0.00	0.00	20.80
rs118072230	2-methoxyhydroquinone sulfate (2)	GCST90200273	18	31186395	A	G	5778	-0.32	0.07	0.00	0.00	24.03
rs182910306	2-methoxyhydroquinone sulfate (2)	GCST90200273	19	14138664	T	C	5778	-0.49	0.11	0.00	0.00	20.03
rs11394944	2-methoxyhydroquinone sulfate (2)	GCST90200273	19	46295294	A	G	5778	0.35	0.08	0.00	0.00	19.63
rs6122882	2-methoxyhydroquinone sulfate (2)	GCST90200273	20	50162814	T	G	5778	0.13	0.03	0.00	0.00	20.04
rs45596631	methyleneheptanoylglycine levels Cis-3,4-	GCST90200274	1	26854999	A	C	8106	0.34	0.07	0.00	0.00	24.68
rs324420	methyleneheptanoylglycine levels Cis-3,4-	GCST90200274	1	46405089	A	C	8106	0.14	0.02	0.00	0.01	52.12
rs12087626	methyleneheptanoylglycine levels Cis-3,4-	GCST90200274	1	75682788	A	C	8106	-0.09	0.02	0.00	0.00	32.51
rs10159232	methyleneheptanoylglycine levels Cis-3,4-	GCST90200274	1	87586618	A	C	8106	-0.25	0.06	0.00	0.00	19.66
rs2347850	methyleneheptanoylglycine levels Cis-3,4-	GCST90200274	2	19610840	T	C	8106	0.07	0.02	0.00	0.00	19.73
rs116464431	methyleneheptanoylglycine levels Cis-3,4-	GCST90200274	2	144216622	C	T	8106	0.26	0.06	0.00	0.00	21.57
rs374324733	methyleneheptanoylglycine levels Cis-3,4-	GCST90200274	2	183741805	C	T	8106	-0.16	0.03	0.00	0.00	21.34
rs1047891	methyleneheptanoylglycine levels Cis-3,4-	GCST90200274	2	210675783	A	C	8106	0.39	0.02	0.00	0.07	575.91
rs9882459	methyleneheptanoylglycine levels Cis-3,4-	GCST90200274	3	31399196	T	G	8106	-0.09	0.02	0.00	0.00	20.28
rs1992855	methyleneheptanoylglycine levels	GCST90200274	3	126190826	C	T	8106	0.08	0.02	0.00	0.00	28.20

rs150937167	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	3	174783195	G	A	8106	0.36	0.08	0.00	0.00	19.72
rs28655839	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	4	4843588	G	A	8106	0.07	0.02	0.00	0.00	20.51
rs145039232	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	4	137456417	G	A	8106	0.21	0.05	0.00	0.00	20.06
rs577769823	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	5	114918953	C	T	8106	-0.16	0.04	0.00	0.00	19.61
rs62395272	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	6	31426647	T	C	8106	-0.12	0.03	0.00	0.00	19.54
rs141961433	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	6	77738800	T	G	8106	-0.14	0.03	0.00	0.00	20.57
rs78031802	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	7	121372215	T	C	8106	0.33	0.07	0.00	0.00	20.96
rs11777323	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	8	40412402	C	T	8106	-0.07	0.02	0.00	0.00	20.35
rs72734736	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	9	106103001	G	T	8106	0.20	0.04	0.00	0.00	20.78
rs596603	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	11	67592132	G	T	8106	-0.14	0.02	0.00	0.01	84.33
rs79089921	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	14	92053948	C	T	8106	0.19	0.04	0.00	0.00	21.07
rs10136862	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	14	94711606	C	A	8106	0.09	0.02	0.00	0.00	22.14
rs72807059	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	16	85988491	T	G	8106	-0.12	0.02	0.00	0.00	22.06
rs148494910	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	18	7131869	T	C	8106	0.32	0.07	0.00	0.00	19.92
rs61060252	Cis-3,4-methyleneheptanoylglycine levels	GCST90200274	19	34488881	G	C	8106	0.13	0.03	0.00	0.00	20.04
rs79879939	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	2	10237361	G	C	8252	-0.13	0.03	0.00	0.00	20.32
rs7425097	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	2	30904357	C	T	8252	0.08	0.02	0.00	0.00	21.73

rs11606410 1	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	2	128204879	G	T	8252	0.15	0.03	0.00	0.00	20.04
rs62182849	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	2	203594924	A	G	8252	-0.10	0.02	0.00	0.00	20.97
rs6759896	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	2	233302326	A	G	8252	-0.08	0.02	0.00	0.00	27.39
rs887829	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	2	233759924	T	C	8252	0.54	0.02	0.00	0.13	#####
rs34079268	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	3	24988584	C	T	8252	-0.08	0.02	0.00	0.00	22.95
rs18700664 2	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	4	46753814	A	T	8252	-0.32	0.06	0.00	0.00	24.95
rs11526002 1	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	4	132951710	A	G	8252	0.31	0.07	0.00	0.00	19.89
rs11635691 6	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	5	107954030	G	A	8252	0.27	0.06	0.00	0.00	21.97
rs11768969 1	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	7	110929471	A	T	8252	0.53	0.11	0.00	0.00	21.61
rs13269731	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	8	68285578	C	T	8252	0.07	0.02	0.00	0.00	21.95
rs10808855	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	8	83911780	C	T	8252	-0.07	0.02	0.00	0.00	19.84
rs4881150	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	10	3301962	T	G	8252	-0.18	0.04	0.00	0.00	25.45
rs266104	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	10	44360788	T	C	8252	0.10	0.02	0.00	0.00	19.76
rs18366652 5	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	11	10203802	A	T	8252	0.37	0.08	0.00	0.00	21.15

rs370176965	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	11	22290183	C	T	8252	0.07	0.02	0.00	0.00	19.89
rs2115763	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	11	112180446	T	A	8252	0.08	0.02	0.00	0.00	20.97
rs1871395	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	12	21199381	G	A	8252	0.10	0.02	0.00	0.00	23.13
rs116983038	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	14	52142064	A	G	8252	-0.37	0.08	0.00	0.00	21.75
rs8027151	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	15	58616781	G	A	8252	0.08	0.02	0.00	0.00	20.08
rs117825563	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	15	83859041	A	G	8252	-0.32	0.07	0.00	0.00	22.30
rs13337885	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	16	57619135	G	A	8252	-0.07	0.02	0.00	0.00	19.96
rs77642739	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	16	73681921	T	C	8252	-0.22	0.05	0.00	0.00	20.10
rs12942425	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	17	60137726	T	A	8252	0.09	0.02	0.00	0.00	19.59
rs7238594	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	18	76391136	C	T	8252	0.07	0.02	0.00	0.00	21.66
rs79383467	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	19	5576110	A	G	8252	0.24	0.05	0.00	0.00	19.62
rs2830633	Bilirubin degradation product, C16H18N2O5 (2) levels	GCST90200275	21	27019633	A	T	8252	-0.09	0.02	0.00	0.00	19.74
rs115316182	2,4-di-tert-butylphenol levels	GCST90200276	1	1287310	T	C	8251	0.19	0.04	0.00	0.00	22.96
rs78986800	2,4-di-tert-butylphenol levels	GCST90200276	1	77153863	C	T	8251	0.30	0.06	0.00	0.00	24.11
rs115705514	2,4-di-tert-butylphenol levels	GCST90200276	1	88537957	A	G	8251	-0.41	0.09	0.00	0.00	19.63
rs150371005	2,4-di-tert-butylphenol levels	GCST90200276	2	119377432	C	G	8251	0.20	0.04	0.00	0.00	21.15

rs140774329	2,4-di-tert-butylphenol levels	GCST90200276	2	175638904	T	C	8251	0.28	0.06	0.00	0.00	21.31
rs74720175	2,4-di-tert-butylphenol levels	GCST90200276	2	208049665	T	C	8251	-0.29	0.06	0.00	0.00	23.86
rs862246	2,4-di-tert-butylphenol levels	GCST90200276	3	24193427	G	A	8251	-0.25	0.05	0.00	0.00	22.90
rs13065396	2,4-di-tert-butylphenol levels	GCST90200276	3	115687960	C	A	8251	0.07	0.02	0.00	0.00	19.90
rs73196836	2,4-di-tert-butylphenol levels	GCST90200276	3	193179437	G	T	8251	0.14	0.03	0.00	0.00	21.00
rs970305	2,4-di-tert-butylphenol levels	GCST90200276	5	73646471	G	A	8251	0.09	0.02	0.00	0.00	26.31
rs55906530	2,4-di-tert-butylphenol levels	GCST90200276	8	19431227	G	C	8251	-0.09	0.02	0.00	0.00	19.93
rs11608823	2,4-di-tert-butylphenol levels	GCST90200276	12	63507370	C	T	8251	-0.21	0.05	0.00	0.00	19.79
rs77633892	2,4-di-tert-butylphenol levels	GCST90200276	12	132314213	G	T	8251	-0.20	0.04	0.00	0.00	24.43
rs571641357	2,4-di-tert-butylphenol levels	GCST90200276	14	50963662	A	G	8251	0.28	0.06	0.00	0.00	20.65
rs72725044	2,4-di-tert-butylphenol levels	GCST90200276	15	39571222	A	G	8251	0.24	0.05	0.00	0.00	20.16
rs8033940	2,4-di-tert-butylphenol levels	GCST90200276	15	58432643	A	G	8251	0.08	0.02	0.00	0.00	23.69
rs4238650	2,4-di-tert-butylphenol levels	GCST90200276	16	17469801	C	T	8251	-0.07	0.02	0.00	0.00	19.86
rs117713991	2,4-di-tert-butylphenol levels	GCST90200276	17	77694923	T	C	8251	-0.18	0.04	0.00	0.00	23.58
rs143953256	2,4-di-tert-butylphenol levels	GCST90200276	20	19247318	A	G	8251	-0.36	0.08	0.00	0.00	21.96
rs721930	2,4-di-tert-butylphenol levels	GCST90200276	22	17104918	C	G	8251	0.10	0.02	0.00	0.00	21.95
rs12748856	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	1	3453659	T	C	7864	-0.37	0.08	0.00	0.00	21.47
rs143355778	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	1	14781367	C	G	7864	-0.18	0.04	0.00	0.00	20.41
rs61784546	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	1	64477602	C	T	7864	0.24	0.05	0.00	0.00	20.64
rs6759896	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	2	233302326	A	G	7864	-0.08	0.02	0.00	0.00	27.21
rs887829	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	2	233759924	T	C	7864	0.56	0.02	0.00	0.15	#####

rs11244615 2	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	3	1096902	T	C	7864	0.67	0.13	0.00	0.00	27.56
rs34079268	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	3	24988584	C	T	7864	-0.09	0.02	0.00	0.00	26.32
rs77546042	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	3	134951238	C	A	7864	-0.17	0.04	0.00	0.00	19.75
rs35467531	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	4	5808865	G	A	7864	0.08	0.02	0.00	0.00	20.28
rs4599468	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	4	187919696	A	G	7864	0.10	0.02	0.00	0.00	19.73
rs75494819	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	5	81240861	A	T	7864	-0.11	0.02	0.00	0.00	22.58
rs11963817	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	6	168297617	C	G	7864	0.12	0.03	0.00	0.00	20.65
rs10815512	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	9	7087813	C	T	7864	0.13	0.03	0.00	0.00	20.19
rs4881150	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	10	3301962	T	G	7864	-0.17	0.04	0.00	0.00	22.14
rs72809253	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	10	70408681	A	G	7864	0.31	0.07	0.00	0.00	20.32
rs326789	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	11	29620733	C	T	7864	-0.09	0.02	0.00	0.00	21.68
rs4149083	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	12	21227696	T	A	7864	0.10	0.02	0.00	0.00	22.18
rs18232190 7	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	13	28614928	A	C	7864	-0.37	0.08	0.00	0.00	22.42
rs1980840	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	13	74631225	T	C	7864	-0.11	0.02	0.00	0.00	21.27

rs34130711	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	15	54073096	T	A	7864	-0.07	0.02	0.00	0.00	20.35
rs72781923	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	16	9715589	G	A	7864	0.33	0.07	0.00	0.00	19.97
rs74840269	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	17	15464885	A	C	7864	0.33	0.07	0.00	0.00	21.00
rs15097492 6	Bilirubin degradation product, C16H18N2O5 (1) levels	GCST90200277	18	27604918	G	A	7864	0.20	0.04	0.00	0.00	21.21
rs18828336 6	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	1	28663212	C	G	8243	0.25	0.06	0.00	0.00	19.97
rs34713419	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	2	47535287	A	C	8243	-0.07	0.02	0.00	0.00	22.04
rs1402215	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	3	173261384	T	C	8243	-0.07	0.02	0.00	0.00	20.55
rs72684392	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	4	99952682	G	C	8243	0.12	0.03	0.00	0.00	21.40
rs6886492	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	5	69129872	G	A	8243	-0.10	0.02	0.00	0.00	25.17
rs74823953	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	5	151300049	T	C	8243	-0.36	0.07	0.00	0.00	27.08
rs74337769	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	6	40472322	A	G	8243	-0.45	0.10	0.00	0.00	19.81
rs34736275	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	7	80571027	A	G	8243	0.08	0.02	0.00	0.00	24.35
rs12673240	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	7	116099511	T	C	8243	0.07	0.02	0.00	0.00	19.75
rs6944935	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	7	151029833	G	C	8243	-0.11	0.02	0.00	0.01	41.91
rs883182	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	8	7024871	G	C	8243	0.07	0.02	0.00	0.00	19.55
rs11276161 0	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	11	661697	T	C	8243	-0.24	0.05	0.00	0.00	22.63
rs2887339	3- hydroxyoctano ylcarnitine (2) levels	GCST90200278	12	154830	G	C	8243	-0.09	0.02	0.00	0.00	26.46

rs287536	3-hydroxyoctanoylcarnitine (2) levels	GCST90200278	13	91181232	G	T	8243	-0.08	0.02	0.00	0.00	21.02
rs11157553	3-hydroxyoctanoylcarnitine (2) levels	GCST90200278	14	47342026	C	G	8243	-0.08	0.02	0.00	0.00	23.64
rs668273	3-hydroxyoctanoylcarnitine (2) levels	GCST90200278	15	89044353	A	G	8243	-0.10	0.02	0.00	0.00	20.84
rs924135	3-hydroxyoctanoylcarnitine (2) levels	GCST90200278	16	16029602	T	A	8243	0.10	0.02	0.00	0.00	38.14
rs147708384	3-hydroxyoctanoylcarnitine (2) levels	GCST90200278	17	15015108	T	C	8243	0.37	0.08	0.00	0.00	20.57
rs143694286	3-hydroxyoctanoylcarnitine (2) levels	GCST90200278	17	35195690	G	C	8243	0.14	0.03	0.00	0.00	21.13
rs149239083	Pantothenate levels	GCST90200279	1	156482167	T	C	8194	-0.26	0.06	0.00	0.00	19.79
rs75795547	Pantothenate levels	GCST90200279	1	175551640	C	G	8194	0.38	0.08	0.00	0.00	20.29
rs116400211	Pantothenate levels	GCST90200279	1	199511387	G	A	8194	0.46	0.08	0.00	0.00	34.29
rs2384575	Pantothenate levels	GCST90200279	2	27164561	C	T	8194	-0.09	0.02	0.00	0.00	28.24
rs181996224	Pantothenate levels	GCST90200279	2	88611869	T	C	8194	0.15	0.03	0.00	0.00	19.81
rs6771272	Pantothenate levels	GCST90200279	3	20289582	T	A	8194	0.08	0.02	0.00	0.00	21.89
rs137943723	Pantothenate levels	GCST90200279	3	122935935	A	C	8194	0.21	0.05	0.00	0.00	20.40
rs73204630	Pantothenate levels	GCST90200279	3	191619488	T	C	8194	0.14	0.03	0.00	0.00	22.00
rs75886216	Pantothenate levels	GCST90200279	4	19676332	C	A	8194	0.18	0.04	0.00	0.00	19.87
rs191354234	Pantothenate levels	GCST90200279	4	170360006	G	A	8194	0.15	0.03	0.00	0.00	22.39
rs9461218	Pantothenate levels	GCST90200279	6	25818527	A	G	8194	0.09	0.02	0.00	0.00	24.16
rs9472004	Pantothenate levels	GCST90200279	6	43086363	A	G	8194	-0.26	0.05	0.00	0.00	24.44
rs111269255	Pantothenate levels	GCST90200279	6	134762015	T	C	8194	0.38	0.08	0.00	0.00	20.81
rs149648026	Pantothenate levels	GCST90200279	6	169209020	C	T	8194	0.30	0.06	0.00	0.00	21.78
rs7801299	Pantothenate levels	GCST90200279	7	7989703	A	G	8194	0.37	0.08	0.00	0.00	20.28
rs147183200	Pantothenate levels	GCST90200279	7	29232926	A	T	8194	-0.27	0.06	0.00	0.00	19.52
rs35433985	Pantothenate levels	GCST90200279	7	107803498	A	G	8194	0.42	0.09	0.00	0.00	20.54
rs75185376	Pantothenate levels	GCST90200279	8	69635086	A	G	8194	-0.24	0.05	0.00	0.00	20.23
rs11775468	Pantothenate levels	GCST90200279	8	125753752	T	G	8194	-0.11	0.02	0.00	0.00	21.56
rs2740478	Pantothenate levels	GCST90200279	9	104801406	A	G	8194	0.08	0.02	0.00	0.00	21.57
rs9420589	Pantothenate levels	GCST90200279	10	92690476	T	G	8194	-0.07	0.02	0.00	0.00	20.75
rs79752030	Pantothenate levels	GCST90200279	11	21986917	G	A	8194	0.97	0.21	0.00	0.00	22.09
rs4768914	Pantothenate levels	GCST90200279	12	50745496	G	A	8194	-0.08	0.02	0.00	0.00	22.74
rs1458611	Pantothenate levels	GCST90200279	12	75081434	A	T	8194	0.15	0.03	0.00	0.00	21.28
rs11108812	Pantothenate levels	GCST90200279	12	97103668	T	C	8194	0.08	0.02	0.00	0.00	21.41

rs77745882	Pantothenate levels	GCST90200279	13	64660185	A	C	8194	-0.17	0.04	0.00	0.00	20.77
rs145511820	Pantothenate levels	GCST90200279	13	81688068	A	G	8194	0.27	0.06	0.00	0.00	23.07
rs149476956	Pantothenate levels	GCST90200279	15	36725715	G	A	8194	0.27	0.06	0.00	0.00	24.06
rs4617830	Pantothenate levels	GCST90200279	15	82795620	C	A	8194	-0.09	0.02	0.00	0.00	26.27
rs79491343	Pantothenate levels	GCST90200279	16	24578418	T	C	8194	1.10	0.22	0.00	0.00	24.45
rs138876728	Pantothenate levels	GCST90200279	17	66548136	T	C	8194	0.32	0.07	0.00	0.00	22.45
rs72667001	5-oxoproline levels	GCST90200280	1	39985500	C	G	8247	0.21	0.05	0.00	0.00	20.07
rs188783795	5-oxoproline levels	GCST90200280	1	115521890	A	G	8247	0.25	0.05	0.00	0.00	21.48
rs35324699	5-oxoproline levels	GCST90200280	2	17987710	T	C	8247	-0.20	0.04	0.00	0.00	20.40
rs11677901	5-oxoproline levels	GCST90200280	2	234034079	A	G	8247	-0.16	0.04	0.00	0.00	19.83
rs73103988	5-oxoproline levels	GCST90200280	3	77254094	G	A	8247	-0.25	0.06	0.00	0.00	20.74
rs56212424	5-oxoproline levels	GCST90200280	5	41952056	T	C	8247	0.34	0.07	0.00	0.00	26.77
rs61730623	5-oxoproline levels	GCST90200280	5	140836457	A	G	8247	-0.15	0.03	0.00	0.00	20.69
rs146481081	5-oxoproline levels	GCST90200280	6	53437325	G	C	8247	-0.37	0.08	0.00	0.00	21.56
rs75812099	5-oxoproline levels	GCST90200280	6	118672434	T	C	8247	0.16	0.04	0.00	0.00	19.51
rs12699933	5-oxoproline levels	GCST90200280	7	17974805	A	T	8247	0.12	0.03	0.00	0.00	21.93
rs10953714	5-oxoproline levels	GCST90200280	7	112491217	T	C	8247	-0.07	0.02	0.00	0.00	20.11
rs78685540	5-oxoproline levels	GCST90200280	8	3117893	T	C	8247	0.22	0.05	0.00	0.00	20.43
rs7815054	5-oxoproline levels	GCST90200280	8	61286378	G	A	8247	-0.13	0.03	0.00	0.00	21.59
rs3935209	5-oxoproline levels	GCST90200280	8	144058338	G	T	8247	-0.82	0.03	0.00	0.11	#####
rs9650609	5-oxoproline levels	GCST90200280	8	144344605	C	A	8247	0.14	0.03	0.00	0.00	21.23
rs61832636	5-oxoproline levels	GCST90200280	10	5527992	A	G	8247	-0.19	0.04	0.00	0.00	21.50
rs117896138	5-oxoproline levels	GCST90200280	11	59219504	A	G	8247	0.35	0.08	0.00	0.00	20.99
rs2638314	5-oxoproline levels	GCST90200280	12	56472550	A	T	8247	-0.12	0.02	0.00	0.00	35.69
rs144481944	5-oxoproline levels	GCST90200280	12	91767033	G	A	8247	-0.32	0.07	0.00	0.00	20.08
rs7328175	5-oxoproline levels	GCST90200280	13	46749320	A	G	8247	0.13	0.03	0.00	0.00	20.44
rs9568320	5-oxoproline levels	GCST90200280	13	49767516	C	T	8247	-0.12	0.03	0.00	0.00	21.06
rs140037672	5-oxoproline levels	GCST90200280	14	53531958	G	A	8247	0.26	0.06	0.00	0.00	20.40
rs72704412	5-oxoproline levels	GCST90200280	15	36440548	T	G	8247	-0.12	0.03	0.00	0.00	19.85
rs17068587	5-oxoproline levels	GCST90200280	18	61590363	T	C	8247	-0.07	0.02	0.00	0.00	19.95
rs148719884	5-oxoproline levels	GCST90200280	20	43615154	T	C	8247	-0.37	0.07	0.00	0.00	24.13
rs73122669	5-oxoproline levels	GCST90200280	20	45409402	A	G	8247	-0.29	0.07	0.00	0.00	19.60
rs1256335	Phosphoethanolamine levels	GCST90200281	1	21563893	A	G	8253	0.12	0.02	0.00	0.00	39.93
rs41291072	Phosphoethanolamine levels	GCST90200281	1	27307465	T	C	8253	0.28	0.06	0.00	0.00	25.65
rs12757377	Phosphoethanolamine levels	GCST90200281	1	195297923	G	A	8253	-0.14	0.03	0.00	0.00	20.41
rs76305989	Phosphoethanolamine levels	GCST90200281	2	158705988	C	A	8253	0.11	0.02	0.00	0.00	22.80
rs13062174	Phosphoethanolamine levels	GCST90200281	3	56824658	G	A	8253	0.09	0.02	0.00	0.00	30.02

rs77399645	Phosphoethan olamine levels	GCST90200281	3	186269792	T	C	8253	-0.25	0.05	0.00	0.00	22.30
rs154803	Phosphoethan olamine levels	GCST90200281	5	92789493	A	T	8253	0.22	0.05	0.00	0.00	19.54
rs14249408 8	Phosphoethan olamine levels	GCST90200281	5	118358933	A	G	8253	0.29	0.06	0.00	0.00	19.95
rs7745468	Phosphoethan olamine levels	GCST90200281	6	23639923	C	A	8253	0.08	0.02	0.00	0.00	23.38
rs11336635 5	Phosphoethan olamine levels	GCST90200281	7	5434192	T	C	8253	-0.10	0.02	0.00	0.00	20.35
rs14080010 9	Phosphoethan olamine levels	GCST90200281	7	154037034	T	A	8253	0.15	0.03	0.00	0.00	24.09
rs11784095	Phosphoethan olamine levels	GCST90200281	8	23644803	A	C	8253	0.08	0.02	0.00	0.00	22.41
rs75129536	Phosphoethan olamine levels	GCST90200281	8	37530345	A	G	8253	-0.15	0.03	0.00	0.00	19.85
rs75829510	Phosphoethan olamine levels	GCST90200281	9	37912420	A	T	8253	0.32	0.07	0.00	0.00	20.18
rs56793484 4	Phosphoethan olamine levels	GCST90200281	9	104582556	C	A	8253	0.33	0.07	0.00	0.00	19.76
rs12364287	Phosphoethan olamine levels	GCST90200281	11	27449373	A	C	8253	0.08	0.02	0.00	0.00	21.79
rs14902921 2	Phosphoethan olamine levels	GCST90200281	11	50703745	T	C	8253	-1.67	0.37	0.00	0.00	20.23
rs78763495	Phosphoethan olamine levels	GCST90200281	11	60155835	A	C	8253	0.31	0.07	0.00	0.00	22.79
rs11238055	Phosphoethan olamine levels	GCST90200281	11	80020137	G	A	8253	-0.12	0.03	0.00	0.00	21.33
rs72987261	Phosphoethan olamine levels	GCST90200281	11	98047926	A	C	8253	0.14	0.03	0.00	0.00	22.54
rs78767165	Phosphoethan olamine levels	GCST90200281	12	115935734	A	G	8253	0.10	0.02	0.00	0.00	20.11
rs77363810	Phosphoethan olamine levels	GCST90200281	13	109672583	C	T	8253	-0.28	0.06	0.00	0.00	19.79
rs11675084 2	Phosphoethan olamine levels	GCST90200281	15	101634946	A	C	8253	-0.20	0.04	0.00	0.00	27.11
rs11771118 3	Phosphoethan olamine levels	GCST90200281	17	74393912	C	G	8253	0.16	0.03	0.00	0.00	22.88
rs75129304	Phosphoethan olamine levels	GCST90200281	19	54070271	G	T	8253	-0.09	0.02	0.00	0.00	21.35
rs75302640	Picolinate levels	GCST90200282	1	104323698	T	A	7051	0.14	0.03	0.00	0.00	22.23
rs10165615	Picolinate levels	GCST90200282	2	139804773	A	G	7051	-0.08	0.02	0.00	0.00	21.43
rs52805369 8	Picolinate levels	GCST90200282	2	161012624	T	A	7051	-0.16	0.04	0.00	0.00	19.75
rs1047891	Picolinate levels	GCST90200282	2	210675783	A	C	7051	-0.10	0.02	0.00	0.00	33.88
rs11657275 2	Picolinate levels	GCST90200282	2	222506615	A	G	7051	-0.22	0.05	0.00	0.00	21.76
rs74747434	Picolinate levels	GCST90200282	2	238160564	T	C	7051	-0.07	0.02	0.00	0.00	19.92
rs10013439	Picolinate levels	GCST90200282	4	22591869	A	G	7051	-0.11	0.03	0.00	0.00	19.70
rs13184770	Picolinate levels	GCST90200282	5	8223011	G	A	7051	0.08	0.02	0.00	0.00	20.11
rs3823118	Picolinate levels	GCST90200282	6	73173515	A	G	7051	0.15	0.03	0.00	0.00	22.38
rs41286234	Picolinate levels	GCST90200282	6	134918620	C	G	7051	0.30	0.06	0.00	0.00	24.78
rs9633689	Picolinate levels	GCST90200282	10	91864268	T	C	7051	-0.24	0.05	0.00	0.00	23.03
rs14815243 9	Picolinate levels	GCST90200282	10	122461051	A	G	7051	-0.24	0.05	0.00	0.00	21.35
rs71486039	Picolinate levels	GCST90200282	11	106037620	T	C	7051	-0.29	0.07	0.00	0.00	19.62
rs17557932	Picolinate levels	GCST90200282	12	59427185	T	C	7051	-0.09	0.02	0.00	0.00	24.59
rs1170931	Picolinate levels	GCST90200282	13	36231932	T	C	7051	0.08	0.02	0.00	0.00	23.16
rs72687504	Picolinate levels	GCST90200282	14	78292434	A	G	7051	0.29	0.06	0.00	0.00	23.31
rs77863699	Picolinate levels	GCST90200282	16	20552206	C	T	7051	0.54	0.05	0.00	0.02	107.80

rs8056693	Picolinate levels	GCST90200282	16	20559339	C	T	7051	-0.41	0.05	0.00	0.01	69.86
rs118128689	Picolinate levels	GCST90200282	16	20593533	C	T	7051	0.44	0.10	0.00	0.00	20.07
rs164749	Picolinate levels	GCST90200282	16	89641816	G	T	7051	0.15	0.02	0.00	0.01	78.16
rs4392119	Picolinate levels	GCST90200282	17	30238345	C	T	7051	0.25	0.05	0.00	0.00	24.80
rs185587631	Picolinate levels	GCST90200282	19	21714432	C	G	7051	0.35	0.08	0.00	0.00	21.77
rs9621844	Picolinate levels	GCST90200282	22	34085619	T	C	7051	-0.08	0.02	0.00	0.00	21.30
rs113701816	3-ureidopropionate levels	GCST90200283	1	31302949	A	G	7543	-0.28	0.06	0.00	0.00	20.76
rs551755	3-ureidopropionate levels	GCST90200283	1	229019418	A	G	7543	-0.07	0.02	0.00	0.00	21.42
rs370370119	3-ureidopropionate levels	GCST90200283	1	247801318	A	C	7543	0.23	0.05	0.00	0.00	20.27
rs11127048	3-ureidopropionate levels	GCST90200283	2	27529596	A	G	7543	0.07	0.02	0.00	0.00	20.16
rs140098217	3-ureidopropionate levels	GCST90200283	2	88864261	T	C	7543	0.28	0.06	0.00	0.00	19.84
rs13006086	3-ureidopropionate levels	GCST90200283	2	117403714	G	A	7543	-0.08	0.02	0.00	0.00	20.78
rs831658	3-ureidopropionate levels	GCST90200283	5	16286930	T	A	7543	-0.11	0.03	0.00	0.00	19.89
rs5000210	3-ureidopropionate levels	GCST90200283	5	105541648	A	G	7543	-0.07	0.02	0.00	0.00	20.68
rs80053410	3-ureidopropionate levels	GCST90200283	5	180268116	G	A	7543	-0.10	0.02	0.00	0.00	21.34
rs192141063	3-ureidopropionate levels	GCST90200283	7	7010102	A	T	7543	-0.33	0.07	0.00	0.00	20.87
rs2406985	3-ureidopropionate levels	GCST90200283	8	3631508	T	C	7543	-0.07	0.02	0.00	0.00	21.01
rs4738128	3-ureidopropionate levels	GCST90200283	8	71332852	T	C	7543	0.09	0.02	0.00	0.00	20.06
rs3793357	3-ureidopropionate levels	GCST90200283	8	104399920	C	A	7543	-0.16	0.03	0.00	0.00	23.39
rs11986475	3-ureidopropionate levels	GCST90200283	8	139948658	T	C	7543	-0.09	0.02	0.00	0.00	20.11
rs16906738	3-ureidopropionate levels	GCST90200283	9	429940	G	T	7543	0.14	0.03	0.00	0.00	21.25
rs12259374	3-ureidopropionate levels	GCST90200283	10	123399123	C	A	7543	0.10	0.02	0.00	0.00	19.56
rs188763135	3-ureidopropionate levels	GCST90200283	12	69880702	G	A	7543	-0.36	0.08	0.00	0.00	19.84
rs117783654	3-ureidopropionate levels	GCST90200283	13	29286891	G	A	7543	-0.36	0.08	0.00	0.00	21.12
rs113434533	3-ureidopropionate levels	GCST90200283	16	15910159	T	C	7543	-0.27	0.06	0.00	0.00	20.40
rs145210608	3-ureidopropionate levels	GCST90200283	17	74853751	T	C	7543	0.24	0.05	0.00	0.00	21.58

rs495452	3-ureidopropionate levels	GCST90200283	18	60527782	A	G	7543	0.07	0.02	0.00	0.00	20.84
rs147765271	3-ureidopropionate levels	GCST90200283	19	55205749	T	C	7543	0.28	0.06	0.00	0.00	20.48
rs142796741	3-ureidopropionate levels	GCST90200283	20	12221690	T	G	7543	-0.44	0.09	0.00	0.00	22.55
rs140330	3-ureidopropionate levels	GCST90200283	22	24512384	G	A	7543	0.13	0.02	0.00	0.01	66.34
rs72702785	Erucate (22:1n9) levels	GCST90200284	1	159994979	C	A	8208	0.11	0.02	0.00	0.00	23.72
rs34573730	Erucate (22:1n9) levels	GCST90200284	2	38508773	T	A	8208	0.10	0.02	0.00	0.00	19.60
rs62409161	Erucate (22:1n9) levels	GCST90200284	3	196212921	A	G	8208	-0.15	0.03	0.00	0.00	20.55
rs116666190	Erucate (22:1n9) levels	GCST90200284	4	110927318	T	C	8208	-0.38	0.09	0.00	0.00	20.01
rs115414065	Erucate (22:1n9) levels	GCST90200284	5	8955887	G	C	8208	0.61	0.13	0.00	0.00	23.04
rs28814123	Erucate (22:1n9) levels	GCST90200284	5	85509569	T	C	8208	0.25	0.04	0.00	0.00	37.32
rs4958728	Erucate (22:1n9) levels	GCST90200284	5	150630537	C	T	8208	0.08	0.02	0.00	0.00	21.69
rs12529038	Erucate (22:1n9) levels	GCST90200284	6	93496715	G	C	8208	0.12	0.03	0.00	0.00	20.64
rs117821204	Erucate (22:1n9) levels	GCST90200284	6	122655974	A	G	8208	0.31	0.07	0.00	0.00	21.41
rs192744376	Erucate (22:1n9) levels	GCST90200284	10	71571508	A	G	8208	-0.32	0.07	0.00	0.00	20.07
rs117480177	Erucate (22:1n9) levels	GCST90200284	10	96255961	C	T	8208	0.17	0.04	0.00	0.00	20.28
rs61862976	Erucate (22:1n9) levels	GCST90200284	10	111100974	T	C	8208	-0.14	0.03	0.00	0.00	21.11
rs77333353	Erucate (22:1n9) levels	GCST90200284	12	46103468	G	A	8208	-0.19	0.04	0.00	0.00	19.85
rs9523488	Erucate (22:1n9) levels	GCST90200284	13	92039117	G	T	8208	-0.16	0.04	0.00	0.00	20.57
rs9549344	Erucate (22:1n9) levels	GCST90200284	13	113037607	C	A	8208	-0.07	0.02	0.00	0.00	21.29
rs141409915	Erucate (22:1n9) levels	GCST90200284	14	57715409	C	T	8208	0.27	0.06	0.00	0.00	21.29
rs9902047	Erucate (22:1n9) levels	GCST90200284	17	6348565	A	T	8208	-0.08	0.02	0.00	0.00	21.21
rs188970225	Erucate (22:1n9) levels	GCST90200284	19	40496427	A	G	8208	0.37	0.07	0.00	0.00	27.07
rs1014755	Erucate (22:1n9) levels	GCST90200284	20	51192148	G	A	8208	-0.17	0.04	0.00	0.00	21.49
rs2994950	Eicosenedioate (C20:1-DC) levels	GCST90200285	1	84646577	C	T	8166	-0.17	0.04	0.00	0.00	20.28
rs76259022	Eicosenedioate (C20:1-DC) levels	GCST90200285	1	192421878	T	C	8166	0.32	0.07	0.00	0.00	22.20
rs664325	Eicosenedioate (C20:1-DC) levels	GCST90200285	1	236365597	G	A	8166	0.07	0.02	0.00	0.00	20.02
rs72842475	Eicosenedioate (C20:1-DC) levels	GCST90200285	2	133166359	G	A	8166	0.14	0.03	0.00	0.00	20.98
rs182245529	Eicosenedioate (C20:1-DC) levels	GCST90200285	2	153181611	G	T	8166	0.23	0.05	0.00	0.00	24.35
rs114316428	Eicosenedioate (C20:1-DC) levels	GCST90200285	3	13766091	T	C	8166	0.41	0.09	0.00	0.00	19.55
rs74367560	Eicosenedioate (C20:1-DC) levels	GCST90200285	3	31978135	A	G	8166	-0.30	0.07	0.00	0.00	19.68
rs140880954	Eicosenedioate (C20:1-DC) levels	GCST90200285	3	120701221	A	G	8166	0.23	0.05	0.00	0.00	19.81

rs60142346	Eicosenedioate (C20:1-DC) levels	GCST90200285	3	133805747	G	A	8166	0.10	0.02	0.00	0.00	20.37
rs77304820	Eicosenedioate (C20:1-DC) levels	GCST90200285	3	147569111	T	G	8166	0.26	0.05	0.00	0.00	24.82
rs80158481	Eicosenedioate (C20:1-DC) levels	GCST90200285	3	180003236	A	T	8166	-0.22	0.05	0.00	0.00	20.48
rs11539268 7	Eicosenedioate (C20:1-DC) levels	GCST90200285	4	205359	A	G	8166	-0.27	0.06	0.00	0.00	21.94
rs77376871	Eicosenedioate (C20:1-DC) levels	GCST90200285	4	18761594	A	G	8166	-0.27	0.06	0.00	0.00	22.91
rs11744379 2	Eicosenedioate (C20:1-DC) levels	GCST90200285	6	68211680	A	G	8166	0.25	0.06	0.00	0.00	19.72
rs10250987	Eicosenedioate (C20:1-DC) levels	GCST90200285	7	12782706	G	T	8166	-0.09	0.02	0.00	0.00	23.95
rs77321789	Eicosenedioate (C20:1-DC) levels	GCST90200285	10	2249869	T	G	8166	-0.23	0.05	0.00	0.00	22.65
rs11765182 9	Eicosenedioate (C20:1-DC) levels	GCST90200285	10	93745693	T	C	8166	0.23	0.05	0.00	0.00	19.89
rs11783226 7	Eicosenedioate (C20:1-DC) levels	GCST90200285	12	11374484	T	C	8166	0.34	0.08	0.00	0.00	19.52
rs79155558	Eicosenedioate (C20:1-DC) levels	GCST90200285	15	47550248	A	G	8166	-0.37	0.08	0.00	0.00	20.32
rs14059950 0	Eicosenedioate (C20:1-DC) levels	GCST90200285	16	6219438	C	G	8166	0.30	0.06	0.00	0.00	23.02
rs15077127 7	Eicosenedioate (C20:1-DC) levels	GCST90200285	17	12419118	C	A	8166	0.23	0.05	0.00	0.00	20.54
rs73034311	Eicosenedioate (C20:1-DC) levels	GCST90200285	19	34844644	T	C	8166	0.23	0.05	0.00	0.00	20.96
rs74452249	Eicosenedioate (C20:1-DC) levels	GCST90200285	21	34317848	A	G	8166	0.21	0.05	0.00	0.00	20.11
rs10197274	Allantoin	GCST90200286	2	1676250	G	C	8252	-0.09	0.02	0.00	0.00	20.43
rs11179069 8	Allantoin levels	GCST90200286	2	102251407	T	C	8252	0.43	0.10	0.00	0.00	19.81
rs35430286	Allantoin	GCST90200286	3	38636580	G	T	8252	-0.08	0.02	0.00	0.00	22.23
rs6785975	Allantoin	GCST90200286	3	69794908	A	G	8252	0.07	0.02	0.00	0.00	21.82
rs11403044 1	Allantoin levels	GCST90200286	3	180765583	T	C	8252	0.18	0.04	0.00	0.00	19.62
rs12507606	Allantoin	GCST90200286	4	9932937	T	C	8252	-0.09	0.02	0.00	0.00	27.94
rs4521431	Allantoin	GCST90200286	5	51803646	C	A	8252	0.09	0.02	0.00	0.00	19.73
rs10269125	Allantoin	GCST90200286	7	149810542	G	A	8252	0.26	0.06	0.00	0.00	19.52
rs10101834	Allantoin	GCST90200286	8	29969957	A	G	8252	0.11	0.02	0.00	0.00	22.74
rs34101338	Allantoin	GCST90200286	9	12245640	A	G	8252	0.15	0.03	0.00	0.00	20.11
rs609855	Allantoin	GCST90200286	11	86627599	A	C	8252	0.38	0.08	0.00	0.00	20.64
rs11726421 0	Allantoin levels	GCST90200286	11	113061732	T	C	8252	-0.22	0.05	0.00	0.00	19.73
rs11729212 5	Allantoin levels	GCST90200286	11	127065925	C	A	8252	0.33	0.07	0.00	0.00	21.99
rs11799757 3	Allantoin levels	GCST90200286	12	32148005	A	G	8252	-0.74	0.17	0.00	0.00	19.88
rs2239607	Allantoin	GCST90200286	12	109209475	G	A	8252	-0.09	0.02	0.00	0.00	21.28
rs7966303	Allantoin	GCST90200286	12	130657919	T	C	8252	0.08	0.02	0.00	0.00	22.58
rs9591212	Allantoin	GCST90200286	13	48781316	C	A	8252	0.28	0.05	0.00	0.00	25.70
rs56093731	Allantoin	GCST90200286	14	27067619	C	T	8252	0.17	0.04	0.00	0.00	20.02
rs12916021	Allantoin	GCST90200286	15	38714597	C	T	8252	0.10	0.02	0.00	0.00	20.05
rs79519115	Allantoin	GCST90200286	15	91508921	A	G	8252	0.25	0.05	0.00	0.00	22.84
rs17782543	Allantoin	GCST90200286	17	33475539	T	G	8252	0.23	0.05	0.00	0.00	25.48
rs77533172	Allantoin	GCST90200286	17	76259846	G	C	8252	-0.28	0.06	0.00	0.00	20.95
rs12967988	Allantoin	GCST90200286	18	59056785	G	C	8252	0.08	0.02	0.00	0.00	20.92
rs548025	Allantoin	GCST90200286	21	41980957	A	G	8252	0.14	0.03	0.00	0.00	22.25

rs62149777	N-acetylvaline levels	GCST90200287	2	73568237	A	G	8218	-0.10	0.02	0.00	0.00	25.52
rs185148869	N-acetylvaline levels	GCST90200287	2	192237523	C	T	8218	-0.40	0.09	0.00	0.00	20.34
rs148291849	N-acetylvaline levels	GCST90200287	4	3928331	T	C	8218	0.23	0.05	0.00	0.00	21.97
rs56323039	N-acetylvaline levels	GCST90200287	4	59479240	A	G	8218	0.38	0.08	0.00	0.00	20.91
rs114566413	N-acetylvaline levels	GCST90200287	4	137350360	T	C	8218	0.32	0.07	0.00	0.00	19.93
rs74289058	N-acetylvaline levels	GCST90200287	4	180559610	T	C	8218	0.44	0.08	0.00	0.00	30.24
rs76608190	N-acetylvaline levels	GCST90200287	5	92986847	G	A	8218	-0.18	0.04	0.00	0.00	22.06
rs4840133	N-acetylvaline levels	GCST90200287	6	100466841	T	C	8218	-0.07	0.01	0.00	0.00	20.98
rs150863410	N-acetylvaline levels	GCST90200287	8	19688808	G	T	8218	0.34	0.07	0.00	0.00	21.29
rs13258850	N-acetylvaline levels	GCST90200287	8	24983984	A	C	8218	0.07	0.02	0.00	0.00	21.29
rs34232467	N-acetylvaline levels	GCST90200287	8	87811966	A	T	8218	-0.19	0.04	0.00	0.00	20.22
rs10975877	N-acetylvaline levels	GCST90200287	9	6894018	T	C	8218	0.08	0.02	0.00	0.00	22.64
rs140202126	N-acetylvaline levels	GCST90200287	12	113649280	A	G	8218	-0.33	0.07	0.00	0.00	21.14
rs11630614	N-acetylvaline levels	GCST90200287	15	94388337	G	C	8218	-0.07	0.02	0.00	0.00	20.42
rs13329952	N-acetylvaline levels	GCST90200287	16	20355185	C	T	8218	-0.09	0.02	0.00	0.00	21.39
rs141446288	N-acetylvaline levels	GCST90200287	17	56546060	A	G	8218	0.25	0.06	0.00	0.00	19.75
rs10404261	N-acetylvaline levels	GCST90200287	19	12316287	G	A	8218	-0.09	0.02	0.00	0.00	20.20
rs189476836	N-acetylvaline levels	GCST90200287	19	42721962	G	A	8218	0.36	0.07	0.00	0.00	24.00
rs117317877	N-acetylvaline levels	GCST90200287	20	25455439	T	C	8218	0.21	0.04	0.00	0.00	23.85
rs6026977	N-acetylvaline levels	GCST90200287	20	38639980	T	C	8218	0.15	0.03	0.00	0.00	21.09
rs6016884	N-acetylvaline levels	GCST90200287	20	42734603	G	A	8218	-0.07	0.02	0.00	0.00	19.80
rs148357196	N-acetylvaline levels	GCST90200287	20	58290517	T	A	8218	0.35	0.08	0.00	0.00	21.07
rs150225657	N-acetylvaline levels	GCST90200287	20	61321056	A	G	8218	0.17	0.03	0.00	0.00	26.94
rs11811224	N-acetylleucine	GCST90200288	1	202058802	C	G	7905	0.14	0.03	0.00	0.00	23.80
rs9242	N-acetylleucine	GCST90200288	1	206464055	C	T	7905	-0.08	0.02	0.00	0.00	23.13
rs139984706	N-acetylleucine	GCST90200288	1	230292971	T	C	7905	-0.52	0.12	0.00	0.00	19.62
rs1892210	N-acetylleucine	GCST90200288	1	246235218	T	C	7905	0.16	0.03	0.00	0.00	20.87
rs2167968	N-acetylleucine	GCST90200288	2	30550844	A	G	7905	-0.11	0.02	0.00	0.00	19.94
rs7609407	N-acetylleucine	GCST90200288	2	73273000	G	A	7905	-0.11	0.02	0.00	0.00	23.59
rs10168931	N-acetylleucine	GCST90200288	2	73650092	A	G	7905	0.62	0.02	0.00	0.14	#####
rs182938505	N-acetylleucine	GCST90200288	2	115358031	A	G	7905	-0.35	0.08	0.00	0.00	19.68
rs79414420	N-acetylleucine	GCST90200288	2	205858951	T	C	7905	0.22	0.05	0.00	0.00	23.23
rs1607020	N-acetylleucine	GCST90200288	3	8124668	A	G	7905	0.21	0.04	0.00	0.00	24.10
rs115151795	N-acetylleucine	GCST90200288	3	151544807	G	T	7905	-0.31	0.07	0.00	0.00	20.99
rs3777320	N-acetylleucine	GCST90200288	5	9307315	A	T	7905	-0.11	0.02	0.00	0.00	19.64
rs10069711	N-acetylleucine	GCST90200288	5	11131883	T	G	7905	-0.08	0.02	0.00	0.00	22.26
rs1183200	N-acetylleucine	GCST90200288	6	25818418	C	G	7905	0.09	0.02	0.00	0.00	33.39

rs13197588	N-acetyl-leucine	GCST90200288	6	49550045	A	G	7905	0.08	0.02	0.00	0.00	19.87
rs146121247	N-acetyl-leucine	GCST90200288	6	71359230	G	T	7905	-0.30	0.07	0.00	0.00	21.03
rs61602652	N-acetyl-leucine	GCST90200288	9	83137922	C	T	7905	0.30	0.06	0.00	0.00	21.77
rs9409121	N-acetyl-leucine	GCST90200288	9	112740099	G	C	7905	-0.07	0.02	0.00	0.00	21.30
rs7948307	N-acetyl-leucine	GCST90200288	11	6705347	G	A	7905	-0.09	0.02	0.00	0.00	21.27
rs145221200	N-acetyl-leucine	GCST90200288	12	114571002	G	A	7905	-0.26	0.06	0.00	0.00	19.79
rs7153831	N-acetyl-leucine	GCST90200288	14	20738580	G	A	7905	0.07	0.02	0.00	0.00	19.60
rs419323	N-acetyl-leucine	GCST90200288	16	84257692	G	T	7905	-0.08	0.02	0.00	0.00	22.10
rs79772318	N-acetyl-leucine	GCST90200288	17	68872579	T	A	7905	0.21	0.04	0.00	0.00	29.39
rs62092212	N-acetyl-leucine	GCST90200288	18	22040911	C	T	7905	0.11	0.02	0.00	0.00	24.76
rs12134149	acetylmethionine levels	GCST90200289	1	14828134	T	C	7993	0.09	0.02	0.00	0.00	22.54
rs77627698	acetylmethionine levels	GCST90200289	1	182012831	A	C	7993	-0.39	0.09	0.00	0.00	19.68
rs138882034	acetylmethionine levels	GCST90200289	3	14215441	C	T	7993	-0.38	0.08	0.00	0.00	20.60
rs148804382	acetylmethionine levels	GCST90200289	3	52078217	A	C	7993	0.55	0.08	0.00	0.01	52.87
rs696518	acetylmethionine levels	GCST90200289	3	136401458	C	A	7993	0.07	0.02	0.00	0.00	22.46
rs2097827	acetylmethionine levels	GCST90200289	5	9369132	A	G	7993	-0.39	0.08	0.00	0.00	23.70
rs12653584	acetylmethionine levels	GCST90200289	5	102573564	T	A	7993	0.08	0.02	0.00	0.00	21.09
rs73214686	acetylmethionine levels	GCST90200289	8	19664845	G	A	7993	-0.11	0.03	0.00	0.00	19.73
rs62524657	acetylmethionine levels	GCST90200289	8	87980805	A	G	7993	-0.13	0.03	0.00	0.00	23.23
rs76475604	acetylmethionine levels	GCST90200289	8	93308045	G	C	7993	-0.42	0.09	0.00	0.00	21.32
rs111931910	acetylmethionine levels	GCST90200289	9	21478157	A	C	7993	0.42	0.09	0.00	0.00	22.41
rs77725543	acetylmethionine levels	GCST90200289	12	25939813	G	A	7993	-0.11	0.02	0.00	0.00	19.53
rs144316022	acetylmethionine levels	GCST90200289	13	92526398	T	C	7993	0.31	0.06	0.00	0.00	27.74
rs71425219	acetylmethionine levels	GCST90200289	14	70811986	A	C	7993	-0.08	0.02	0.00	0.00	25.95
rs78134753	acetylmethionine levels	GCST90200289	16	24445168	A	T	7993	2.24	0.48	0.00	0.00	21.47
rs74820083	acetylmethionine levels	GCST90200289	16	76837485	G	A	7993	0.22	0.05	0.00	0.00	21.81
rs648992	acetylmethionine levels	GCST90200289	18	2281934	A	G	7993	-0.08	0.02	0.00	0.00	24.83
rs2540970	Glycerate levels	GCST90200290	2	65027965	C	T	8222	0.07	0.02	0.00	0.00	20.20

rs149160598	Glycerate levels	GCST90200290	2	101781434	A	G	8222	-0.32	0.06	0.00	0.00	27.20
rs149266774	Glycerate levels	GCST90200290	2	103245356	T	G	8222	-0.26	0.06	0.00	0.00	21.05
rs3814027	Glycerate levels	GCST90200290	2	111884277	T	C	8222	0.08	0.02	0.00	0.00	26.89
rs9808439	Glycerate levels	GCST90200290	2	217811598	T	C	8222	-0.20	0.04	0.00	0.00	20.29
rs1449141	Glycerate levels	GCST90200290	2	231519173	C	A	8222	-0.08	0.02	0.00	0.00	21.58
rs138250602	Glycerate levels	GCST90200290	4	22123099	G	T	8222	-0.16	0.04	0.00	0.00	19.59
rs6554022	Glycerate levels	GCST90200290	4	32325689	A	C	8222	-0.12	0.03	0.00	0.00	21.63
rs3733487	Glycerate levels	GCST90200290	4	70818699	A	C	8222	-0.31	0.07	0.00	0.00	20.59
rs62381616	Glycerate levels	GCST90200290	5	139345344	T	C	8222	-0.28	0.04	0.00	0.00	38.79
rs76004499	Glycerate levels	GCST90200290	5	177278864	G	C	8222	0.24	0.05	0.00	0.00	19.89
rs4523130	Glycerate levels	GCST90200290	6	6815121	G	A	8222	-0.19	0.04	0.00	0.00	19.63
rs183630170	Glycerate levels	GCST90200290	7	92254424	C	A	8222	0.31	0.07	0.00	0.00	20.88
rs2394872	Glycerate levels	GCST90200290	7	98583433	C	A	8222	-0.13	0.03	0.00	0.00	24.13
rs11766962	Glycerate levels	GCST90200290	7	126853325	C	T	8222	-0.09	0.02	0.00	0.00	23.33
rs1000156	Glycerate levels	GCST90200290	8	102938833	G	A	8222	-0.09	0.02	0.00	0.00	22.31
rs1133621	Glycerate levels	GCST90200290	8	125749215	T	G	8222	0.11	0.02	0.00	0.00	20.11
rs141097695	Glycerate levels	GCST90200290	9	31229953	A	G	8222	-0.22	0.05	0.00	0.00	21.00
rs2279694	Glycerate levels	GCST90200290	11	133650312	C	T	8222	0.07	0.02	0.00	0.00	19.77
rs55836930	Glycerate levels	GCST90200290	12	118980699	G	T	8222	0.23	0.05	0.00	0.00	21.91
rs117731450	Glycerate levels	GCST90200290	13	30504659	A	G	8222	-0.24	0.06	0.00	0.00	19.60
rs77814441	Glycerate levels	GCST90200290	15	57924887	T	C	8222	-0.21	0.05	0.00	0.00	20.52
rs756874	Glycerate levels	GCST90200290	15	91174007	G	A	8222	0.07	0.02	0.00	0.00	21.96
rs1025628	Glycerate levels	GCST90200290	15	95840799	A	G	8222	0.15	0.03	0.00	0.00	22.07
rs11662283	Glycerate levels	GCST90200290	18	4726361	T	A	8222	0.10	0.02	0.00	0.00	23.71
rs145856120	Glycerate levels	GCST90200290	20	10189278	T	C	8222	-0.28	0.06	0.00	0.00	21.64
rs112748757	Glycerate levels	GCST90200290	20	50998365	T	G	8222	-0.25	0.05	0.00	0.00	20.84
rs68172624	Sarcosine levels	GCST90200291	1	165066144	G	A	8223	0.10	0.02	0.00	0.00	23.28
rs162588	Sarcosine levels	GCST90200291	3	322415	A	G	8223	0.09	0.02	0.00	0.00	22.94
rs141352122	Sarcosine levels	GCST90200291	3	49864217	G	A	8223	0.30	0.06	0.00	0.00	22.71
rs111912483	Sarcosine levels	GCST90200291	5	52400536	A	G	8223	-0.30	0.06	0.00	0.00	21.30
rs57279588	Sarcosine levels	GCST90200291	6	24482437	T	C	8223	0.37	0.08	0.00	0.00	21.40
rs11964756	Sarcosine levels	GCST90200291	6	44704512	T	C	8223	-0.23	0.05	0.00	0.00	19.66
rs10951948	Sarcosine levels	GCST90200291	7	48151263	T	C	8223	0.07	0.02	0.00	0.00	21.64
rs112011575	Sarcosine levels	GCST90200291	7	118476110	G	T	8223	-0.21	0.05	0.00	0.00	21.09
rs80300433	Sarcosine levels	GCST90200291	8	82507219	G	C	8223	0.10	0.02	0.00	0.00	23.91
rs35012921	Sarcosine levels	GCST90200291	8	130546164	T	C	8223	-0.09	0.02	0.00	0.00	23.87
rs116433135	Sarcosine levels	GCST90200291	9	29588191	T	C	8223	0.22	0.05	0.00	0.00	22.46

rs78102914	Sarcosine levels	GCST90200291	9	127520075	T	C	8223	0.15	0.03	0.00	0.00	19.53
rs10465165	Sarcosine levels	GCST90200291	9	133741108	T	G	8223	-0.11	0.02	0.00	0.00	25.67
rs143387685	Sarcosine levels	GCST90200291	11	112571454	G	C	8223	0.23	0.05	0.00	0.00	23.55
rs61925680	Sarcosine levels	GCST90200291	12	23746404	T	C	8223	0.09	0.02	0.00	0.00	22.14
rs56077946	Sarcosine levels	GCST90200291	14	47919824	A	G	8223	-0.09	0.02	0.00	0.00	24.74
rs581726	Sarcosine levels	GCST90200291	17	812639	C	T	8223	-0.07	0.02	0.00	0.00	20.88
rs67495336	Sarcosine levels	GCST90200291	18	37518079	A	C	8223	-0.13	0.03	0.00	0.00	20.28
rs140399497	Sarcosine levels	GCST90200291	19	20999904	C	G	8223	0.36	0.08	0.00	0.00	19.54
rs12983578	Sarcosine levels	GCST90200291	19	51099041	G	C	8223	0.10	0.02	0.00	0.00	20.40
rs6091060	Sarcosine levels	GCST90200291	20	49842825	G	A	8223	0.14	0.03	0.00	0.00	20.22
rs2355455	Trans-4-hydroxyproline levels	GCST90200292	1	17947107	A	G	8252	0.07	0.02	0.00	0.00	20.16
rs112508701	Trans-4-hydroxyproline levels	GCST90200292	1	202056499	T	C	8252	0.27	0.06	0.00	0.00	21.70
rs77307135	Trans-4-hydroxyproline levels	GCST90200292	2	4657764	G	T	8252	-0.32	0.07	0.00	0.00	19.74
rs13018589	Trans-4-hydroxyproline levels	GCST90200292	2	18828510	C	T	8252	0.09	0.02	0.00	0.00	19.56
rs79469383	Trans-4-hydroxyproline levels	GCST90200292	2	59563160	C	G	8252	0.33	0.07	0.00	0.00	20.64
rs11891502	Trans-4-hydroxyproline levels	GCST90200292	2	65004111	G	A	8252	-0.12	0.02	0.00	0.00	30.76
rs12496219	Trans-4-hydroxyproline levels	GCST90200292	3	3639722	T	C	8252	0.09	0.02	0.00	0.00	20.17
rs3816803	Trans-4-hydroxyproline levels	GCST90200292	3	155172417	A	G	8252	0.08	0.02	0.00	0.00	20.23
rs144455898	Trans-4-hydroxyproline levels	GCST90200292	6	14377667	A	G	8252	-0.38	0.08	0.00	0.00	20.70
rs2108941	Trans-4-hydroxyproline levels	GCST90200292	7	141428759	T	C	8252	0.15	0.03	0.00	0.00	19.70
rs28533082	Trans-4-hydroxyproline levels	GCST90200292	8	61943047	T	G	8252	-0.12	0.03	0.00	0.00	20.11
rs12268603	Trans-4-hydroxyproline levels	GCST90200292	10	34929136	C	A	8252	-0.24	0.05	0.00	0.00	24.12
rs35412535	Trans-4-hydroxyproline levels	GCST90200292	10	84197302	T	C	8252	-0.08	0.02	0.00	0.00	21.98
rs4755985	Trans-4-hydroxyproline levels	GCST90200292	11	45431781	A	G	8252	-0.08	0.02	0.00	0.00	20.72
rs74463630	Trans-4-hydroxyproline levels	GCST90200292	12	116338442	G	C	8252	-0.24	0.05	0.00	0.00	24.31
rs112892777	Trans-4-hydroxyproline levels	GCST90200292	13	20967084	G	A	8252	0.32	0.07	0.00	0.00	20.13
rs17533872	Trans-4-hydroxyproline levels	GCST90200292	13	41641427	T	C	8252	0.08	0.02	0.00	0.00	23.99
rs72704055	Trans-4-hydroxyproline levels	GCST90200292	14	104280036	T	C	8252	0.11	0.03	0.00	0.00	19.67

rs184097940	Trans-4-hydroxyproline levels	GCST90200292	15	93122784	T	C	8252	0.32	0.07	0.00	0.00	20.20
rs114063127	Trans-4-hydroxyproline levels	GCST90200292	15	101155586	T	C	8252	-0.26	0.06	0.00	0.00	21.12
rs59492947	Trans-4-hydroxyproline levels	GCST90200292	16	3508283	T	A	8252	-0.26	0.06	0.00	0.00	19.86
rs77894985	Trans-4-hydroxyproline levels	GCST90200292	16	9441524	C	A	8252	0.37	0.08	0.00	0.00	19.66
rs144985010	Trans-4-hydroxyproline levels	GCST90200292	18	13229633	A	G	8252	0.38	0.08	0.00	0.00	19.99
rs3761097	Trans-4-hydroxyproline levels	GCST90200292	19	35800075	T	C	8252	0.22	0.03	0.00	0.01	41.82
rs57173949	Trans-4-hydroxyproline levels	GCST90200292	20	51892375	C	T	8252	-0.42	0.07	0.00	0.00	33.88
rs2427337	Trans-4-hydroxyproline levels	GCST90200292	20	62431100	A	G	8252	-0.08	0.02	0.00	0.00	22.15
rs114685250	Thyroxine levels	GCST90200293	1	176705968	A	G	8262	0.28	0.06	0.00	0.00	21.67
rs74454704	Thyroxine levels	GCST90200293	1	226534256	C	T	8262	0.26	0.06	0.00	0.00	21.44
rs6722076	Thyroxine levels	GCST90200293	2	233738671	A	G	8262	-0.10	0.02	0.00	0.00	38.41
rs13094078	Thyroxine levels	GCST90200293	3	149264119	T	C	8262	-0.21	0.05	0.00	0.00	20.31
rs58541168	Thyroxine levels	GCST90200293	3	172408372	T	C	8262	-0.14	0.03	0.00	0.00	20.48
rs16844401	Thyroxine levels	GCST90200293	4	3447925	A	G	8262	0.14	0.03	0.00	0.00	21.96
rs17361586	Thyroxine levels	GCST90200293	4	152271058	A	G	8262	-0.12	0.02	0.00	0.00	22.47
rs73087204	Thyroxine levels	GCST90200293	7	24114712	A	C	8262	-0.25	0.05	0.00	0.00	21.18
rs146643391	Thyroxine levels	GCST90200293	7	86866926	A	G	8262	0.24	0.05	0.00	0.00	20.16
rs11779237	Thyroxine levels	GCST90200293	8	1277665	T	C	8262	-0.29	0.06	0.00	0.00	23.69
rs78013831	Thyroxine levels	GCST90200293	8	18425614	T	C	8262	0.25	0.05	0.00	0.00	23.51
rs79132259	Thyroxine levels	GCST90200293	8	59568908	T	G	8262	-0.18	0.04	0.00	0.00	19.56
rs144476500	Thyroxine levels	GCST90200293	9	4207070	G	T	8262	-0.33	0.06	0.00	0.00	26.22
rs111892516	Thyroxine levels	GCST90200293	11	65159473	C	T	8262	0.18	0.04	0.00	0.00	20.35
rs117672019	Thyroxine levels	GCST90200293	12	83107790	A	G	8262	-0.36	0.08	0.00	0.00	20.47
rs10745656	Thyroxine levels	GCST90200293	12	93571609	G	A	8262	-0.19	0.04	0.00	0.00	20.00
rs1169288	Thyroxine levels	GCST90200293	12	120978847	C	A	8262	0.09	0.02	0.00	0.00	29.97
rs9538757	Thyroxine levels	GCST90200293	13	60578278	T	A	8262	0.07	0.02	0.00	0.00	22.70
rs139768355	Thyroxine levels	GCST90200293	14	102974335	A	G	8262	0.36	0.08	0.00	0.00	19.90
rs56357032	Thyroxine levels	GCST90200293	17	30147916	T	A	8262	0.11	0.02	0.00	0.00	21.10
rs117341978	Thyroxine levels	GCST90200293	17	72252030	T	C	8262	-0.17	0.04	0.00	0.00	19.97
rs72869950	Thyroxine levels	GCST90200293	18	4574295	C	T	8262	0.33	0.07	0.00	0.00	20.68
rs6078009	Thyroxine levels	GCST90200293	20	11015207	G	C	8262	-0.09	0.02	0.00	0.00	23.05
rs1416670	Pipecolate levels	GCST90200294	1	189818964	G	T	8161	-0.19	0.04	0.00	0.00	21.31
rs16846260	Pipecolate levels	GCST90200294	1	200205567	T	C	8161	0.08	0.02	0.00	0.00	20.75

rs11581124	Pipecolate levels	GCST90200294	1	247080999	A	G	8161	0.14	0.03	0.00	0.00	19.61
rs2009581	Pipecolate levels	GCST90200294	2	111050100	A	G	8161	-0.08	0.02	0.00	0.00	19.92
rs73982710	Pipecolate levels	GCST90200294	2	205148735	T	A	8161	0.28	0.06	0.00	0.00	20.36
rs10182251	Pipecolate levels	GCST90200294	2	240903113	G	A	8161	-0.09	0.02	0.00	0.00	35.53
rs34389160	Pipecolate levels	GCST90200294	3	11002663	C	T	8161	0.32	0.07	0.00	0.00	22.87
rs34098984	Pipecolate levels	GCST90200294	3	134351701	A	G	8161	-0.08	0.02	0.00	0.00	20.20
rs149557664	Pipecolate levels	GCST90200294	4	4792762	A	G	8161	0.48	0.11	0.00	0.00	20.31
rs141004800	Pipecolate levels	GCST90200294	4	44986329	T	C	8161	0.35	0.08	0.00	0.00	19.55
rs11956100	Pipecolate levels	GCST90200294	5	6802066	T	C	8161	-0.08	0.02	0.00	0.00	24.03
rs10070710	Pipecolate levels	GCST90200294	5	166942408	A	G	8161	-0.08	0.02	0.00	0.00	20.67
rs143897906	Pipecolate levels	GCST90200294	5	172400585	C	G	8161	0.26	0.06	0.00	0.00	19.59
rs111698844	Pipecolate levels	GCST90200294	7	17224287	G	A	8161	0.17	0.04	0.00	0.00	19.54
rs59230153	Pipecolate levels	GCST90200294	8	11399617	T	A	8161	-0.13	0.03	0.00	0.00	20.42
rs75285900	Pipecolate levels	GCST90200294	8	38531428	A	G	8161	0.25	0.05	0.00	0.00	22.92
rs12542775	Pipecolate levels	GCST90200294	8	73441111	T	C	8161	-0.07	0.02	0.00	0.00	21.27
rs116977149	Pipecolate levels	GCST90200294	8	106898728	C	A	8161	0.29	0.06	0.00	0.00	21.50
rs111252801	Pipecolate levels	GCST90200294	10	107288133	A	T	8161	0.31	0.07	0.00	0.00	20.86
rs75105291	Pipecolate levels	GCST90200294	11	33689894	A	G	8161	0.30	0.06	0.00	0.00	22.52
rs7123354	Pipecolate levels	GCST90200294	11	126704256	G	A	8161	0.39	0.09	0.00	0.00	19.56
rs73597221	Pipecolate levels	GCST90200294	11	132238300	A	G	8161	-0.17	0.04	0.00	0.00	21.55
rs11046573	Pipecolate levels	GCST90200294	12	22739590	A	G	8161	-0.17	0.03	0.00	0.00	25.87
rs60516864	Pipecolate levels	GCST90200294	12	69859827	A	G	8161	2.51	0.50	0.00	0.00	25.56
rs113744921	Pipecolate levels	GCST90200294	13	28575765	T	G	8161	0.13	0.03	0.00	0.00	21.08
rs9922755	Pipecolate levels	GCST90200294	16	79908769	C	T	8161	-0.14	0.03	0.00	0.00	23.48
rs147976420	Pipecolate levels	GCST90200294	16	79988486	G	C	8161	0.36	0.08	0.00	0.00	20.53
rs139070028	Pipecolate levels	GCST90200294	19	41069244	A	C	8161	0.40	0.09	0.00	0.00	19.81
rs2325890	Pipecolate levels	GCST90200294	20	2581958	T	C	8161	-0.08	0.02	0.00	0.00	20.30
rs62208174	Pipecolate levels	GCST90200294	21	23440564	A	G	8161	0.12	0.03	0.00	0.00	22.43
rs12758768	Gamma-glutamyltyrosine levels	GCST90200295	1	85369523	T	C	8221	-0.09	0.02	0.00	0.00	20.04
rs12748097	Gamma-glutamyltyrosine levels	GCST90200295	1	207159988	C	T	8221	0.07	0.02	0.00	0.00	20.79
rs13081154	Gamma-glutamyltyrosine levels	GCST90200295	3	21764307	G	A	8221	0.15	0.03	0.00	0.00	20.25
rs114116747	Gamma-glutamyltyrosine levels	GCST90200295	3	146898236	A	G	8221	-0.21	0.05	0.00	0.00	20.28
rs143846048	Gamma-glutamyltyrosine levels	GCST90200295	4	186324302	G	A	8221	0.45	0.10	0.00	0.00	20.70
rs11748467	Gamma-glutamyltyrosine levels	GCST90200295	5	118577246	A	G	8221	0.09	0.02	0.00	0.00	24.73

rs139046353	Gamma-glutamyltyrosine levels	GCST90200295	6	68609686	T	A	8221	0.38	0.08	0.00	0.00	22.64
rs74766075	Gamma-glutamyltyrosine levels	GCST90200295	6	71223544	G	C	8221	0.21	0.05	0.00	0.00	20.62
rs12206654	Gamma-glutamyltyrosine levels	GCST90200295	6	111235631	C	T	8221	0.19	0.02	0.00	0.01	74.17
rs10261974	Gamma-glutamyltyrosine levels	GCST90200295	7	130988866	C	T	8221	-0.08	0.02	0.00	0.00	23.50
rs9642709	Gamma-glutamyltyrosine levels	GCST90200295	8	30326237	G	T	8221	-0.08	0.02	0.00	0.00	21.19
rs10973520	Gamma-glutamyltyrosine levels	GCST90200295	9	37751222	C	T	8221	-0.07	0.02	0.00	0.00	23.89
rs144545066	Gamma-glutamyltyrosine levels	GCST90200295	9	88193070	T	C	8221	0.27	0.06	0.00	0.00	21.85
rs151034550	Gamma-glutamyltyrosine levels	GCST90200295	10	33265113	G	C	8221	-0.35	0.08	0.00	0.00	21.17
rs10822145	Gamma-glutamyltyrosine levels	GCST90200295	10	63174788	T	C	8221	0.07	0.02	0.00	0.00	19.92
rs11596762	Gamma-glutamyltyrosine levels	GCST90200295	10	76288334	T	C	8221	0.19	0.04	0.00	0.00	21.34
rs55776661	Gamma-glutamyltyrosine levels	GCST90200295	10	79226920	T	C	8221	0.51	0.11	0.00	0.00	20.49
rs79383019	Gamma-glutamyltyrosine levels	GCST90200295	11	109340412	T	A	8221	0.19	0.04	0.00	0.00	20.16
rs73079476	Gamma-glutamyltyrosine levels	GCST90200295	12	21190899	C	A	8221	-0.10	0.02	0.00	0.00	20.68
rs79295634	Gamma-glutamyltyrosine levels	GCST90200295	12	46786225	G	A	8221	0.15	0.03	0.00	0.00	26.71
rs7296761	Gamma-glutamyltyrosine levels	GCST90200295	12	93856011	T	C	8221	0.07	0.02	0.00	0.00	19.78
rs570914415	Gamma-glutamyltyrosine levels	GCST90200295	13	63808179	G	A	8221	-0.55	0.12	0.00	0.00	20.29
rs112980299	Gamma-glutamyltyrosine levels	GCST90200295	13	103024871	T	C	8221	0.32	0.07	0.00	0.00	19.70
rs924135	Gamma-glutamyltyrosine levels	GCST90200295	16	16029602	T	A	8221	0.07	0.02	0.00	0.00	20.14
rs150851429	Gamma-glutamyltyrosine levels	GCST90200295	16	71591928	C	G	8221	0.42	0.06	0.00	0.01	43.41
rs12933938	Gamma-glutamyltyrosine levels	GCST90200295	16	81754014	T	C	8221	-0.37	0.08	0.00	0.00	20.38
rs183972392	Gamma-glutamyltyrosine levels	GCST90200295	17	47397542	A	G	8221	-0.17	0.04	0.00	0.00	20.90
rs140827029	Gamma-glutamyltyrosine levels	GCST90200295	20	43402554	G	A	8221	0.13	0.03	0.00	0.00	25.10
rs2006092	Gamma-glutamyltyrosine levels	GCST90200295	22	24599701	G	A	8221	-0.10	0.02	0.00	0.00	36.92
rs11117600	Methyl indole-3-acetate levels	GCST90200296	1	216492320	G	C	7032	0.17	0.04	0.00	0.00	20.74
rs76001036	Methyl indole-3-acetate levels	GCST90200296	1	248135326	G	A	7032	-0.22	0.05	0.00	0.00	20.97

rs1405587	Methyl indole-3-acetate levels	GCST90200296	2	78038822	G	A	7032	-0.08	0.02	0.00	0.00	19.65
rs13422462	Methyl indole-3-acetate levels	GCST90200296	2	150505423	A	G	7032	-0.09	0.02	0.00	0.00	19.59
rs143999008	Methyl indole-3-acetate levels	GCST90200296	3	163650053	C	A	7032	0.28	0.06	0.00	0.00	19.69
rs9790223	Methyl indole-3-acetate levels	GCST90200296	3	179079144	A	G	7032	-0.09	0.02	0.00	0.00	26.10
rs116148281	Methyl indole-3-acetate levels	GCST90200296	4	34761447	A	G	7032	-0.32	0.07	0.00	0.00	20.39
rs6555990	Methyl indole-3-acetate levels	GCST90200296	5	172048002	G	A	7032	-0.25	0.05	0.00	0.00	21.13
rs112102710	Methyl indole-3-acetate levels	GCST90200296	6	74004145	G	C	7032	0.33	0.07	0.00	0.00	24.06
rs192607571	Methyl indole-3-acetate levels	GCST90200296	6	152116900	T	C	7032	-0.33	0.07	0.00	0.00	19.61
rs10225685	Methyl indole-3-acetate levels	GCST90200296	7	88935427	T	C	7032	-0.08	0.02	0.00	0.00	19.94
rs74563391	Methyl indole-3-acetate levels	GCST90200296	8	35614671	A	G	7032	0.28	0.06	0.00	0.00	20.78
rs16927563	Methyl indole-3-acetate levels	GCST90200296	8	61572015	C	T	7032	-0.16	0.03	0.00	0.00	20.65
rs78354045	Methyl indole-3-acetate levels	GCST90200296	8	93529585	A	G	7032	0.14	0.03	0.00	0.00	21.65
rs1377198	Methyl indole-3-acetate levels	GCST90200296	9	21684588	A	G	7032	0.54	0.11	0.00	0.00	24.25
rs4962127	Methyl indole-3-acetate levels	GCST90200296	9	133302794	A	G	7032	-0.18	0.04	0.00	0.00	19.57
rs11006706	Methyl indole-3-acetate levels	GCST90200296	10	27761911	A	G	7032	0.12	0.03	0.00	0.00	19.57
rs11024279	Methyl indole-3-acetate levels	GCST90200296	11	17409176	T	C	7032	0.32	0.07	0.00	0.00	21.49
rs901068	Methyl indole-3-acetate levels	GCST90200296	12	56953021	G	T	7032	0.13	0.03	0.00	0.00	19.87
rs113957661	Methyl indole-3-acetate levels	GCST90200296	12	104038920	C	T	7032	-0.24	0.05	0.00	0.00	19.51
rs8056227	Methyl indole-3-acetate levels	GCST90200296	16	7412997	G	A	7032	-0.10	0.02	0.00	0.00	21.76
rs1367993	Methyl indole-3-acetate levels	GCST90200296	18	72548044	G	A	7032	-0.19	0.04	0.00	0.00	24.76
rs6136227	Methyl indole-3-acetate levels	GCST90200296	20	17931986	T	C	7032	0.08	0.02	0.00	0.00	20.14
rs116167092	Ursodeoxycholate levels	GCST90200297	1	17162730	C	G	6206	0.29	0.06	0.00	0.00	24.67
rs79773108	Ursodeoxycholate levels	GCST90200297	1	22318654	T	C	6206	-0.16	0.03	0.00	0.00	21.55
rs148668214	Ursodeoxycholate levels	GCST90200297	2	221306001	A	G	6206	-0.38	0.08	0.00	0.00	22.70
rs9874963	Ursodeoxycholate levels	GCST90200297	3	175134669	G	A	6206	0.13	0.03	0.00	0.00	19.66
rs114871380	Ursodeoxycholate levels	GCST90200297	4	149965828	G	A	6206	0.30	0.06	0.00	0.00	22.99
rs4331915	Ursodeoxycholate levels	GCST90200297	5	29604792	G	A	6206	-0.10	0.02	0.00	0.00	27.99
rs6891962	Ursodeoxycholate levels	GCST90200297	5	32531284	G	A	6206	0.10	0.02	0.00	0.00	26.22
rs78109147	Ursodeoxycholate levels	GCST90200297	6	140037347	T	A	6206	0.16	0.03	0.00	0.00	23.46
rs10228265	Ursodeoxycholate levels	GCST90200297	7	45869316	G	A	6206	0.09	0.02	0.00	0.00	20.29
rs147530713	Ursodeoxycholate levels	GCST90200297	7	87953645	A	C	6206	-0.11	0.03	0.00	0.00	20.87
rs111809414	Ursodeoxycholate levels	GCST90200297	8	27028550	T	C	6206	-0.17	0.04	0.00	0.00	21.24
rs16876103	Ursodeoxycholate levels	GCST90200297	8	29880216	C	T	6206	0.24	0.05	0.00	0.00	19.76
rs10504255	Ursodeoxycholate levels	GCST90200297	8	58485902	A	G	6206	0.12	0.02	0.00	0.01	38.06
rs117524936	Ursodeoxycholate levels	GCST90200297	9	23351201	C	T	6206	0.30	0.07	0.00	0.00	20.93
rs60602051	Ursodeoxycholate levels	GCST90200297	11	46307006	T	C	6206	0.11	0.02	0.00	0.00	24.74
rs4586206	Ursodeoxycholate levels	GCST90200297	11	116404900	A	G	6206	0.11	0.02	0.00	0.00	21.98

rs73021936	Ursodeoxycholate levels	GCST90200297	11	122009213	G	A	6206	0.17	0.04	0.00	0.00	19.84
rs61991411	Ursodeoxycholate levels	GCST90200297	14	42594274	G	A	6206	0.13	0.03	0.00	0.00	20.63
rs67952232	Ursodeoxycholate levels	GCST90200297	21	38748274	T	C	6206	-0.25	0.06	0.00	0.00	20.30
rs3010372	3-hydroxy-3-methylglutarate levels	GCST90200298	1	163324838	C	T	8073	-0.17	0.04	0.00	0.00	22.74
rs141049944	3-hydroxy-3-methylglutarate levels	GCST90200298	2	20944739	G	A	8073	0.28	0.06	0.00	0.00	20.16
rs55681630	3-hydroxy-3-methylglutarate levels	GCST90200298	2	24590452	T	G	8073	0.25	0.06	0.00	0.00	19.57
rs76740270	3-hydroxy-3-methylglutarate levels	GCST90200298	2	99712287	A	G	8073	-0.32	0.07	0.00	0.00	20.84
rs77535679	3-hydroxy-3-methylglutarate levels	GCST90200298	3	46593678	A	G	8073	0.22	0.05	0.00	0.00	19.70
rs12650803	3-hydroxy-3-methylglutarate levels	GCST90200298	4	30666396	T	A	8073	-0.16	0.04	0.00	0.00	20.79
rs28478732	3-hydroxy-3-methylglutarate levels	GCST90200298	4	188493550	T	C	8073	0.10	0.02	0.00	0.00	20.10
rs72783131	3-hydroxy-3-methylglutarate levels	GCST90200298	5	129121395	T	C	8073	-0.12	0.03	0.00	0.00	20.45
rs35330370	3-hydroxy-3-methylglutarate levels	GCST90200298	5	162916438	A	C	8073	0.09	0.02	0.00	0.00	22.82
rs11760896	3-hydroxy-3-methylglutarate levels	GCST90200298	7	23469404	A	T	8073	0.27	0.06	0.00	0.00	21.43
rs10957657	3-hydroxy-3-methylglutarate levels	GCST90200298	8	73354030	T	A	8073	-0.07	0.02	0.00	0.00	19.89
rs72814380	3-hydroxy-3-methylglutarate levels	GCST90200298	10	73888385	G	A	8073	0.20	0.04	0.00	0.00	21.60
rs1627858	3-hydroxy-3-methylglutarate levels	GCST90200298	11	106661956	C	T	8073	-0.12	0.03	0.00	0.00	19.94
rs145942720	3-hydroxy-3-methylglutarate levels	GCST90200298	12	65236950	T	C	8073	-0.22	0.05	0.00	0.00	20.93
rs1874302	3-hydroxy-3-methylglutarate levels	GCST90200298	12	80827917	G	A	8073	-0.10	0.02	0.00	0.00	25.21
rs78911475	3-hydroxy-3-methylglutarate levels	GCST90200298	12	108756095	A	C	8073	0.14	0.03	0.00	0.00	23.50
rs140289676	3-hydroxy-3-methylglutarate levels	GCST90200298	14	81076692	T	A	8073	0.34	0.07	0.00	0.00	20.09
rs78014980	3-hydroxy-3-methylglutarate levels	GCST90200298	16	19070827	A	G	8073	0.16	0.04	0.00	0.00	20.97
rs142593661	3-hydroxy-3-methylglutarate levels	GCST90200298	18	59436975	G	A	8073	-0.34	0.07	0.00	0.00	21.93
rs17207314	3-hydroxy-3-methylglutarate levels	GCST90200298	19	54170365	A	G	8073	0.16	0.03	0.00	0.00	22.59
rs118137582	3-hydroxy-3-methylglutarate levels	GCST90200298	20	50456129	A	G	8073	-0.13	0.03	0.00	0.00	19.90
rs183653854	3-hydroxy-3-methylglutarate levels	GCST90200298	20	62301648	T	A	8073	0.20	0.04	0.00	0.00	22.32

rs11628373	Oleoyl ethanolamide levels	GCST90200299	1	10972997	T	C	8243	-0.36	0.08	0.00	0.00	22.03
rs14868176	Oleoyl ethanolamide levels	GCST90200299	1	18281920	T	G	8243	0.21	0.05	0.00	0.00	20.12
rs1051664	Oleoyl ethanolamide levels	GCST90200299	1	44651313	T	C	8243	0.07	0.02	0.00	0.00	20.06
rs324420	Oleoyl ethanolamide levels	GCST90200299	1	46405089	A	C	8243	0.27	0.02	0.00	0.02	209.47
rs10913299	Oleoyl ethanolamide levels	GCST90200299	1	177220762	T	G	8243	-0.07	0.02	0.00	0.00	20.95
rs11571545	Oleoyl ethanolamide levels	GCST90200299	1	212615699	A	G	8243	-0.22	0.05	0.00	0.00	20.18
rs11203386	Oleoyl ethanolamide levels	GCST90200299	2	121467696	T	C	8243	-0.25	0.05	0.00	0.00	21.30
rs35199440	Oleoyl ethanolamide levels	GCST90200299	2	190032915	C	T	8243	-0.15	0.03	0.00	0.00	23.76
rs4684366	Oleoyl ethanolamide levels	GCST90200299	3	2871333	C	T	8243	-0.08	0.02	0.00	0.00	20.62
rs1513139	Oleoyl ethanolamide levels	GCST90200299	3	62716206	A	C	8243	-0.08	0.02	0.00	0.00	26.10
rs11400206	Oleoyl ethanolamide levels	GCST90200299	4	54359158	T	G	8243	-0.20	0.04	0.00	0.00	19.94
rs56104591	Oleoyl ethanolamide levels	GCST90200299	4	163285817	T	G	8243	0.13	0.03	0.00	0.00	21.01
rs52899233	Oleoyl ethanolamide levels	GCST90200299	4	184968179	A	G	8243	-0.29	0.06	0.00	0.00	20.55
rs6580231	Oleoyl ethanolamide levels	GCST90200299	5	142150581	A	C	8243	-0.11	0.03	0.00	0.00	20.33
rs14643337	Oleoyl ethanolamide levels	GCST90200299	6	5791727	G	A	8243	-0.35	0.07	0.00	0.00	22.15
rs11459076	Oleoyl ethanolamide levels	GCST90200299	6	45857836	G	T	8243	0.25	0.05	0.00	0.00	21.81
rs2326624	Oleoyl ethanolamide levels	GCST90200299	6	127562290	A	T	8243	-0.07	0.02	0.00	0.00	22.77
rs2371397	Oleoyl ethanolamide levels	GCST90200299	7	144404409	A	G	8243	-0.07	0.02	0.00	0.00	21.55
rs10901104	Oleoyl ethanolamide levels	GCST90200299	9	131822477	T	C	8243	-0.07	0.02	0.00	0.00	20.38
rs11733285	Oleoyl ethanolamide levels	GCST90200299	11	9551285	A	G	8243	0.37	0.08	0.00	0.00	19.88
rs78307740	Oleoyl ethanolamide levels	GCST90200299	12	21309277	A	G	8243	-0.19	0.04	0.00	0.00	19.63
rs9530666	Oleoyl ethanolamide levels	GCST90200299	13	77482029	C	A	8243	-0.07	0.02	0.00	0.00	20.45
rs28589375	Oleoyl ethanolamide levels	GCST90200299	13	101664444	A	G	8243	0.07	0.02	0.00	0.00	20.14
rs14566494	Oleoyl ethanolamide levels	GCST90200299	14	98351123	A	G	8243	0.10	0.02	0.00	0.00	20.09

rs117998954	Oleoyl ethanolamide levels	GCST90200299	16	23647934	C	T	8243	-0.26	0.06	0.00	0.00	21.19
rs74791474	Oleoyl ethanolamide levels	GCST90200299	17	15490795	A	G	8243	0.21	0.05	0.00	0.00	21.11
rs146803328	Oleoyl ethanolamide levels	GCST90200299	19	17971684	A	G	8243	-0.13	0.03	0.00	0.00	19.96
rs182804848	Oleoyl ethanolamide levels	GCST90200299	20	26309659	C	T	8243	-0.58	0.12	0.00	0.00	23.07
rs150075454	4- hydroxypheny lpyruvate	GCST90200300	2	85985559	A	G	7813	-0.25	0.06	0.00	0.00	21.12
rs1540803	4- hydroxypheny lpyruvate	GCST90200300	2	155853081	A	T	7813	0.08	0.02	0.00	0.00	19.84
rs113057182	4- hydroxypheny lpyruvate	GCST90200300	3	6451878	A	G	7813	-0.34	0.07	0.00	0.00	21.05
rs11718993	4- hydroxypheny lpyruvate	GCST90200300	3	53620454	G	A	7813	0.19	0.04	0.00	0.00	19.55
rs113089419	4- hydroxypheny lpyruvate	GCST90200300	4	24947311	C	A	7813	-0.19	0.04	0.00	0.00	20.30
rs71531594	4- hydroxypheny lpyruvate	GCST90200300	6	10017741	A	G	7813	0.45	0.09	0.00	0.00	23.38
rs9358752	4- hydroxypheny lpyruvate	GCST90200300	6	24159408	T	G	7813	-0.10	0.02	0.00	0.00	20.55
rs6934739	4- hydroxypheny lpyruvate	GCST90200300	6	39972698	A	G	7813	0.08	0.02	0.00	0.00	19.97
rs511789	4- hydroxypheny lpyruvate	GCST90200300	6	82315892	G	A	7813	-0.07	0.02	0.00	0.00	20.36
rs80048553	4- hydroxypheny lpyruvate	GCST90200300	6	100245690	C	T	7813	0.18	0.04	0.00	0.00	24.76
rs6969913	4- hydroxypheny lpyruvate	GCST90200300	7	7791976	C	T	7813	0.08	0.02	0.00	0.00	22.37
rs28785914	4- hydroxypheny lpyruvate	GCST90200300	7	89783027	T	C	7813	0.08	0.02	0.00	0.00	25.16
rs56236720	4- hydroxypheny lpyruvate	GCST90200300	8	69356576	G	C	7813	0.29	0.06	0.00	0.00	19.88
rs116864633	4- hydroxypheny lpyruvate	GCST90200300	8	128849599	G	T	7813	0.26	0.06	0.00	0.00	20.39
rs75923574	4- hydroxypheny lpyruvate	GCST90200300	9	2335626	T	C	7813	0.59	0.13	0.00	0.00	19.95
rs79909098	4- hydroxypheny lpyruvate	GCST90200300	9	91549237	T	C	7813	-0.28	0.06	0.00	0.00	23.65
rs149357613	4- hydroxypheny lpyruvate	GCST90200300	10	7385764	T	C	7813	-0.19	0.04	0.00	0.00	19.72
rs71456122	4- hydroxypheny lpyruvate	GCST90200300	11	63529325	A	G	7813	0.37	0.07	0.00	0.00	30.22
rs74910303	4- hydroxypheny lpyruvate	GCST90200300	12	98394830	A	G	7813	0.27	0.06	0.00	0.00	19.52
rs1154510	4- hydroxypheny lpyruvate	GCST90200300	12	121857429	C	T	7813	-0.16	0.02	0.00	0.01	44.33

rs75186593	4-hydroxyphenylpyruvate	GCST90200300	15	79519381	G	A	7813	-0.18	0.04	0.00	0.00	21.18
rs117326981	4-hydroxyphenylpyruvate	GCST90200300	20	11523102	C	T	7813	0.22	0.05	0.00	0.00	21.37
rs9606044	4-hydroxyphenylpyruvate	GCST90200300	22	19519037	A	T	7813	-0.16	0.04	0.00	0.00	20.03
rs11090805	4-hydroxyphenylpyruvate	GCST90200300	22	47996317	T	C	7813	0.12	0.03	0.00	0.00	19.67
rs61848648	Gamma-glutamylglutamine levels	GCST90200301	1	211168985	G	T	8217	0.13	0.03	0.00	0.00	21.90
rs780094	Gamma-glutamylglutamine levels	GCST90200301	2	27518370	C	T	8217	0.08	0.02	0.00	0.00	27.00
rs11691567	Gamma-glutamylglutamine levels	GCST90200301	2	70370676	T	C	8217	0.07	0.02	0.00	0.00	19.65
rs142661815	Gamma-glutamylglutamine levels	GCST90200301	2	99194851	A	G	8217	-0.34	0.07	0.00	0.00	20.86
rs80347315	Gamma-glutamylglutamine levels	GCST90200301	3	38295660	A	T	8217	-0.18	0.04	0.00	0.00	25.02
rs10939471	Gamma-glutamylglutamine levels	GCST90200301	4	9719713	A	C	8217	-0.16	0.04	0.00	0.00	21.63
rs56768725	Gamma-glutamylglutamine levels	GCST90200301	4	152993356	A	G	8217	-0.24	0.05	0.00	0.00	19.85
rs34637948	Gamma-glutamylglutamine levels	GCST90200301	4	179171083	T	C	8217	-0.08	0.02	0.00	0.00	21.06
rs75448822	Gamma-glutamylglutamine levels	GCST90200301	4	184987837	A	G	8217	-0.23	0.05	0.00	0.00	19.64
rs6868895	Gamma-glutamylglutamine levels	GCST90200301	5	136275754	G	A	8217	-0.07	0.02	0.00	0.00	19.69
rs78187052	Gamma-glutamylglutamine levels	GCST90200301	6	3329959	A	G	8217	0.19	0.04	0.00	0.00	21.48
rs11982752	Gamma-glutamylglutamine levels	GCST90200301	7	28965412	G	C	8217	0.15	0.03	0.00	0.00	22.02
rs117178352	Gamma-glutamylglutamine levels	GCST90200301	7	108677467	G	C	8217	-0.25	0.05	0.00	0.00	24.78
rs79194598	Gamma-glutamylglutamine levels	GCST90200301	8	42806921	G	C	8217	0.26	0.06	0.00	0.00	19.53
rs568904285	Gamma-glutamylglutamine levels	GCST90200301	8	113910676	T	C	8217	-0.24	0.05	0.00	0.00	20.89
rs10081723	Gamma-glutamylglutamine levels	GCST90200301	9	2417698	T	C	8217	-0.09	0.02	0.00	0.00	27.48
rs831607	Gamma-glutamylglutamine levels	GCST90200301	11	33696528	C	T	8217	-0.08	0.02	0.00	0.00	27.54
rs61914457	Gamma-glutamylglutamine levels	GCST90200301	11	47907899	T	C	8217	0.19	0.04	0.00	0.00	23.47
rs140457846	Gamma-glutamylglutamine levels	GCST90200301	11	83196226	C	A	8217	-0.39	0.08	0.00	0.00	21.02
rs7105328	Gamma-glutamylglutamine levels	GCST90200301	11	132506925	G	T	8217	-0.09	0.02	0.00	0.00	20.40

rs2657879	Gamma-glutamylglutamine levels	GCST90200301	12	56471554	G	A	8217	-0.21	0.02	0.00	0.01	120.42
rs1011347	Gamma-glutamylglutamine levels	GCST90200301	12	130680352	T	G	8217	0.08	0.02	0.00	0.00	20.44
rs61972819	Gamma-glutamylglutamine levels	GCST90200301	13	97547572	A	C	8217	0.27	0.06	0.00	0.00	20.71
rs72665128	Gamma-glutamylglutamine levels	GCST90200301	13	103431553	A	C	8217	-0.11	0.02	0.00	0.00	23.32
rs111363066	Gamma-glutamylglutamine levels	GCST90200301	14	76703085	A	G	8217	0.21	0.04	0.00	0.00	25.87
rs4598859	Gamma-glutamylglutamine levels	GCST90200301	15	94022766	A	G	8217	0.07	0.02	0.00	0.00	20.37
rs924138	Gamma-glutamylglutamine levels	GCST90200301	16	16032907	C	T	8217	0.12	0.02	0.00	0.01	51.61
rs34772177	Gamma-glutamylglutamine levels	GCST90200301	16	87438536	C	T	8217	-0.09	0.02	0.00	0.00	20.98
rs58798676	Gamma-glutamylglutamine levels	GCST90200301	17	15497942	T	G	8217	-0.19	0.04	0.00	0.00	21.43
rs79595979	Gamma-glutamylglutamine levels	GCST90200301	18	70988956	T	C	8217	0.23	0.05	0.00	0.00	21.37
rs10424343	Gamma-glutamylglutamine levels	GCST90200301	19	57448574	T	C	8217	0.09	0.02	0.00	0.00	25.63
rs4050084	Gamma-glutamylglutamine levels	GCST90200301	22	24256403	T	C	8217	-0.07	0.02	0.00	0.00	20.20
rs200426740	Gamma-glutamylglutamine levels	GCST90200301	22	24589774	A	C	8217	0.26	0.04	0.00	0.00	37.44
rs4486471	Alpha-tocopherol levels	GCST90200302	1	19730138	C	T	8192	0.07	0.02	0.00	0.00	21.49
rs631106	Alpha-tocopherol levels	GCST90200302	1	62436136	A	C	8192	-0.10	0.02	0.00	0.00	34.56
rs11884298	Alpha-tocopherol levels	GCST90200302	2	188884759	C	T	8192	-0.07	0.02	0.00	0.00	21.13
rs62193654	Alpha-tocopherol levels	GCST90200302	2	230822245	A	G	8192	-0.11	0.02	0.00	0.00	24.06
rs73020674	Alpha-tocopherol levels	GCST90200302	3	4223942	T	C	8192	-0.25	0.06	0.00	0.00	19.81
rs7631091	Alpha-tocopherol levels	GCST90200302	3	124553170	G	A	8192	0.15	0.03	0.00	0.00	22.67
rs72635337	Alpha-tocopherol levels	GCST90200302	4	60205403	G	A	8192	0.17	0.04	0.00	0.00	19.76
rs17039540	Alpha-tocopherol levels	GCST90200302	4	160402122	A	C	8192	-0.08	0.02	0.00	0.00	22.20
rs2565001	Alpha-tocopherol levels	GCST90200302	5	54530900	T	C	8192	-0.27	0.05	0.00	0.00	23.72
rs75701409	Alpha-tocopherol levels	GCST90200302	5	117281891	A	G	8192	0.27	0.06	0.00	0.00	20.21
rs9355979	Alpha-tocopherol levels	GCST90200302	6	162113670	T	C	8192	0.08	0.02	0.00	0.00	21.35

rs61157638	Alpha-tocopherol levels	GCST90200302	6	166653967	T	C	8192	0.12	0.03	0.00	0.00	20.25
rs6965619	Alpha-tocopherol levels	GCST90200302	7	12893103	C	A	8192	0.08	0.02	0.00	0.00	20.63
rs38476	Alpha-tocopherol levels	GCST90200302	7	30558202	T	C	8192	0.13	0.03	0.00	0.00	23.67
rs2461051	Alpha-tocopherol levels	GCST90200302	8	79688215	T	G	8192	-0.07	0.02	0.00	0.00	19.74
rs28601761	Alpha-tocopherol levels	GCST90200302	8	125487789	G	C	8192	-0.08	0.02	0.00	0.00	24.78
rs66726372	Alpha-tocopherol levels	GCST90200302	9	37203800	G	T	8192	0.33	0.07	0.00	0.00	21.07
rs79710316	Alpha-tocopherol levels	GCST90200302	9	101790490	A	G	8192	-0.29	0.07	0.00	0.00	19.59
rs2149372	Alpha-tocopherol levels	GCST90200302	9	114606637	T	C	8192	0.08	0.02	0.00	0.00	25.00
rs55885903	Alpha-tocopherol levels	GCST90200302	11	13960940	A	T	8192	0.10	0.02	0.00	0.00	26.59
rs964184	Alpha-tocopherol levels	GCST90200302	11	116778201	C	G	8192	-0.12	0.02	0.00	0.00	26.69
rs12580691	Alpha-tocopherol levels	GCST90200302	12	104112807	C	T	8192	0.26	0.05	0.00	0.00	22.34
rs200371930	Alpha-tocopherol levels	GCST90200302	13	27524316	T	A	8192	0.21	0.05	0.00	0.00	21.60
rs118136643	Alpha-tocopherol levels	GCST90200302	13	33046412	T	G	8192	-0.29	0.06	0.00	0.00	21.63
rs72787471	Alpha-tocopherol levels	GCST90200302	16	63824718	T	G	8192	0.24	0.05	0.00	0.00	20.77
rs34823060	Alpha-tocopherol levels	GCST90200302	17	33517318	A	G	8192	0.07	0.02	0.00	0.00	20.35
rs8085620	Alpha-tocopherol levels	GCST90200302	18	37406597	C	T	8192	-0.08	0.02	0.00	0.00	20.80
rs11086004	Alpha-tocopherol levels	GCST90200302	19	15864082	G	A	8192	0.08	0.02	0.00	0.00	27.79
rs188247550	Alpha-tocopherol levels	GCST90200302	19	19285807	T	C	8192	-0.33	0.07	0.00	0.00	19.93
rs1213656	N-acetyl-L-alanine levels	GCST90200303	1	58345246	C	A	8220	-0.12	0.02	0.00	0.00	23.25
rs12122853	N-acetyl-L-alanine levels	GCST90200303	1	76154568	A	G	8220	0.10	0.02	0.00	0.00	20.65
rs75063835	N-acetyl-L-alanine levels	GCST90200303	1	116669956	A	G	8220	-0.19	0.04	0.00	0.00	20.32
rs6716694	N-acetyl-L-alanine levels	GCST90200303	2	99589390	C	T	8220	0.07	0.01	0.00	0.00	20.33
rs796273	N-acetyl-L-alanine levels	GCST90200303	2	208156901	C	T	8220	-0.08	0.02	0.00	0.00	19.55
rs13015567	N-acetyl-L-alanine levels	GCST90200303	2	211511130	G	A	8220	0.07	0.01	0.00	0.00	20.19
rs72996159	N-acetyl-L-alanine levels	GCST90200303	2	239074569	C	T	8220	-0.18	0.04	0.00	0.00	21.46
rs1162707	N-acetyl-L-alanine levels	GCST90200303	3	9230529	C	T	8220	-0.12	0.02	0.00	0.00	27.22
rs148804382	N-acetyl-L-alanine levels	GCST90200303	3	52078217	A	C	8220	0.45	0.07	0.00	0.00	40.19
rs76316086	N-acetyl-L-alanine levels	GCST90200303	3	136938110	A	T	8220	0.32	0.06	0.00	0.00	25.69

rs11919089	N-acetyl-L-alanine levels	GCST90200303	3	171889068	C	T	8220	0.09	0.02	0.00	0.00	22.01
rs115514357	N-acetyl-L-alanine levels	GCST90200303	4	35951039	T	G	8220	-0.16	0.03	0.00	0.00	22.44
rs13146163	N-acetyl-L-alanine levels	GCST90200303	4	76490938	T	G	8220	0.08	0.01	0.00	0.00	30.00
rs62336245	N-acetyl-L-alanine levels	GCST90200303	4	168219691	A	G	8220	-0.24	0.05	0.00	0.00	21.72
rs4490585	N-acetyl-L-alanine levels	GCST90200303	5	3664282	C	T	8220	-0.16	0.03	0.00	0.00	26.52
rs12519103	N-acetyl-L-alanine levels	GCST90200303	5	66215649	C	T	8220	0.11	0.02	0.00	0.00	21.05
rs1373962	N-acetyl-L-alanine levels	GCST90200303	5	84232044	C	T	8220	0.08	0.01	0.00	0.00	26.61
rs11743850	N-acetyl-L-alanine levels	GCST90200303	5	172360827	A	G	8220	-0.08	0.02	0.00	0.00	21.11
rs17674678	N-acetyl-L-alanine levels	GCST90200303	6	48206762	G	A	8220	0.09	0.02	0.00	0.00	20.17
rs559538397	N-acetyl-L-alanine levels	GCST90200303	7	147939545	G	T	8220	-0.30	0.07	0.00	0.00	20.10
rs74621766	N-acetyl-L-alanine levels	GCST90200303	8	40926131	T	C	8220	-0.18	0.04	0.00	0.00	19.72
rs112875651	N-acetyl-L-alanine levels	GCST90200303	8	125494452	A	G	8220	0.07	0.01	0.00	0.00	19.68
rs12573238	N-acetyl-L-alanine levels	GCST90200303	10	16861302	T	C	8220	0.09	0.02	0.00	0.00	20.03
rs112095242	N-acetyl-L-alanine levels	GCST90200303	10	129691489	A	C	8220	-0.18	0.04	0.00	0.00	23.05
rs11048402	N-acetyl-L-alanine levels	GCST90200303	12	26074948	A	G	8220	-0.13	0.03	0.00	0.00	20.08
rs11841296	N-acetyl-L-alanine levels	GCST90200303	13	106662316	C	T	8220	-0.09	0.02	0.00	0.00	20.44
rs118162232	N-acetyl-L-alanine levels	GCST90200303	13	112732757	T	G	8220	0.26	0.06	0.00	0.00	20.01
rs1077697	N-acetyl-L-alanine levels	GCST90200303	14	90676435	T	C	8220	0.08	0.02	0.00	0.00	23.88
rs493244	N-acetyl-L-alanine levels	GCST90200303	15	55103126	C	G	8220	0.12	0.03	0.00	0.00	22.40
rs142282989	N-acetyl-L-alanine levels	GCST90200303	15	65128545	A	G	8220	-0.29	0.06	0.00	0.00	20.32
rs77924615	N-acetyl-L-alanine levels	GCST90200303	16	20381010	A	G	8220	-0.09	0.02	0.00	0.00	25.18
rs9899430	N-acetyl-L-alanine levels	GCST90200303	17	74009829	G	A	8220	-0.07	0.01	0.00	0.00	20.12
rs114547363	N-acetyl-L-alanine levels	GCST90200303	18	7852243	T	G	8220	0.21	0.05	0.00	0.00	19.58
rs140837813	Citrate levels	GCST90200304	1	3763922	A	C	8260	-0.29	0.06	0.00	0.00	20.05
rs72671744	Citrate levels	GCST90200304	1	62986742	G	A	8260	0.16	0.04	0.00	0.00	20.70
rs12753500	Citrate levels	GCST90200304	1	96371830	T	C	8260	0.09	0.02	0.00	0.00	19.75
rs6772970	Citrate levels	GCST90200304	3	25071756	A	G	8260	0.10	0.02	0.00	0.00	20.20
rs57096419	Citrate levels	GCST90200304	3	64271765	T	C	8260	-0.13	0.03	0.00	0.00	22.19
rs115574037	Citrate levels	GCST90200304	3	194367104	T	G	8260	-0.32	0.07	0.00	0.00	23.63
rs13125685	Citrate levels	GCST90200304	4	152949755	A	G	8260	-0.20	0.04	0.00	0.00	23.84
rs17250977	Citrate levels	GCST90200304	5	14753636	G	A	8260	-0.24	0.04	0.00	0.00	41.39
rs2921603	Citrate levels	GCST90200304	5	14866911	C	T	8260	0.09	0.02	0.00	0.00	37.81
rs244568	Citrate levels	GCST90200304	5	59419956	T	C	8260	0.07	0.02	0.00	0.00	21.90
rs2339363	Citrate levels	GCST90200304	5	172166219	T	C	8260	-0.07	0.01	0.00	0.00	21.65
rs12175318	Citrate levels	GCST90200304	6	15276541	T	C	8260	-0.12	0.03	0.00	0.00	20.76
rs144037076	Citrate levels	GCST90200304	6	135235213	C	G	8260	0.39	0.08	0.00	0.00	20.62
rs6945072	Citrate levels	GCST90200304	7	28321977	A	T	8260	-0.08	0.02	0.00	0.00	25.10
rs333042	Citrate levels	GCST90200304	8	19190261	C	T	8260	-0.07	0.02	0.00	0.00	20.68
rs2514975	Citrate levels	GCST90200304	8	118245969	T	C	8260	0.08	0.02	0.00	0.00	19.94
rs1110223	Citrate levels	GCST90200304	9	76321576	G	A	8260	0.07	0.02	0.00	0.00	21.14
rs11220471	Citrate levels	GCST90200304	11	126396770	C	A	8260	-0.08	0.02	0.00	0.00	23.15
rs2727666	Citrate levels	GCST90200304	12	95379373	C	A	8260	0.09	0.02	0.00	0.00	20.48
rs10744329	Citrate levels	GCST90200304	12	127891193	A	C	8260	0.11	0.02	0.00	0.00	22.18
rs9315006	Citrate levels	GCST90200304	13	30387798	A	C	8260	-0.07	0.02	0.00	0.00	22.00
rs75448233	Citrate levels	GCST90200304	17	6708479	T	C	8260	0.27	0.03	0.00	0.01	66.46
rs78727666	Citrate levels	GCST90200304	17	6809789	T	C	8260	-0.14	0.02	0.00	0.00	35.29
rs1771540	Citrate levels	GCST90200304	22	19186421	A	T	8260	-0.15	0.02	0.00	0.01	95.16

rs181042710	2-aminobutyrate levels	GCST90200305	1	79513392	T	G	8242	-0.29	0.06	0.00	0.00	23.33
rs78809926	2-aminobutyrate levels	GCST90200305	1	246964411	G	A	8242	-0.32	0.07	0.00	0.00	20.90
rs3762577	2-aminobutyrate levels	GCST90200305	2	11611135	T	G	8242	0.09	0.02	0.00	0.00	22.58
rs2160387	2-aminobutyrate levels	GCST90200305	2	64993776	C	T	8242	0.17	0.02	0.00	0.01	114.26
rs6782881	2-aminobutyrate levels	GCST90200305	3	157621936	T	G	8242	0.17	0.04	0.00	0.00	20.03
rs7665697	2-aminobutyrate levels	GCST90200305	4	7136266	T	C	8242	0.08	0.02	0.00	0.00	20.52
rs10022462	2-aminobutyrate levels	GCST90200305	4	88322666	T	C	8242	-0.12	0.02	0.00	0.01	61.15
rs111586617	2-aminobutyrate levels	GCST90200305	4	123771043	A	G	8242	-0.15	0.03	0.00	0.00	20.75
rs146428387	2-aminobutyrate levels	GCST90200305	5	88807504	C	G	8242	-0.22	0.05	0.00	0.00	19.55
rs17111008	2-aminobutyrate levels	GCST90200305	5	150195230	A	C	8242	-0.14	0.03	0.00	0.00	19.79
rs188659719	2-aminobutyrate levels	GCST90200305	7	107649116	A	G	8242	0.08	0.02	0.00	0.00	20.31
rs112662446	2-aminobutyrate levels	GCST90200305	8	25935059	A	G	8242	-0.25	0.06	0.00	0.00	19.77
rs7302925	2-aminobutyrate levels	GCST90200305	12	56467674	G	A	8242	-0.10	0.02	0.00	0.00	25.50
rs148126430	2-aminobutyrate levels	GCST90200305	14	84444026	A	G	8242	-0.35	0.08	0.00	0.00	19.95
rs1535465	2-aminobutyrate levels	GCST90200305	14	100426616	A	G	8242	0.07	0.02	0.00	0.00	19.60
rs59268213	2-aminobutyrate levels	GCST90200305	15	37660977	C	T	8242	0.08	0.02	0.00	0.00	23.33
rs17684887	2-aminobutyrate levels	GCST90200305	15	39214140	C	T	8242	0.22	0.05	0.00	0.00	19.52
rs12978178	2-aminobutyrate levels	GCST90200305	19	57824486	T	C	8242	0.10	0.02	0.00	0.00	19.66
rs112083174	2-aminobutyrate levels	GCST90200305	20	15484782	A	T	8242	0.22	0.05	0.00	0.00	20.86
rs113615864	2-aminobutyrate levels	GCST90200305	22	26539641	T	C	8242	0.25	0.05	0.00	0.00	25.48
rs7525448	Butyrate/isobutyrate (4:0) levels	GCST90200306	1	220325106	A	G	8004	-0.07	0.02	0.00	0.00	20.54
rs58418656	Butyrate/isobutyrate (4:0) levels	GCST90200306	1	234382252	A	G	8004	0.12	0.03	0.00	0.00	20.55
rs1519645	Butyrate/isobutyrate (4:0) levels	GCST90200306	2	153602247	A	C	8004	-0.10	0.02	0.00	0.00	23.84
rs35851376	Butyrate/isobutyrate (4:0) levels	GCST90200306	2	241645505	G	A	8004	0.08	0.02	0.00	0.00	20.84

rs76496439	Butyrate/isobutyrate (4:0) levels	GCST90200306	4	37245702	T	C	8004	0.09	0.02	0.00	0.00	20.65
rs378544	Butyrate/isobutyrate (4:0) levels	GCST90200306	5	124366746	G	A	8004	-0.28	0.06	0.00	0.00	20.05
rs2078181	Butyrate/isobutyrate (4:0) levels	GCST90200306	7	80125328	C	T	8004	-0.08	0.02	0.00	0.00	21.13
rs138591655	Butyrate/isobutyrate (4:0) levels	GCST90200306	8	1257772	A	G	8004	0.25	0.05	0.00	0.00	20.16
rs78452327	Butyrate/isobutyrate (4:0) levels	GCST90200306	9	24749971	G	A	8004	0.15	0.03	0.00	0.00	25.54
rs538306	Butyrate/isobutyrate (4:0) levels	GCST90200306	11	109350928	G	A	8004	-0.12	0.02	0.00	0.00	21.88
rs536413588	Butyrate/isobutyrate (4:0) levels	GCST90200306	12	37598228	A	T	8004	0.35	0.08	0.00	0.00	19.62
rs1799958	Butyrate/isobutyrate (4:0) levels	GCST90200306	12	120738280	A	G	8004	0.13	0.02	0.00	0.01	52.62
rs192431765	Butyrate/isobutyrate (4:0) levels	GCST90200306	13	98287262	C	G	8004	0.40	0.09	0.00	0.00	20.75
rs72657920	Butyrate/isobutyrate (4:0) levels	GCST90200306	13	110424345	G	A	8004	0.16	0.03	0.00	0.00	22.79
rs17277844	Butyrate/isobutyrate (4:0) levels	GCST90200306	14	22758950	A	G	8004	0.21	0.05	0.00	0.00	20.62
rs9933684	Butyrate/isobutyrate (4:0) levels	GCST90200306	16	51983468	A	G	8004	-0.07	0.02	0.00	0.00	22.08
rs34149712	Butyrate/isobutyrate (4:0) levels	GCST90200306	16	73471300	C	T	8004	-0.09	0.02	0.00	0.00	21.80
rs148060822	Butyrate/isobutyrate (4:0) levels	GCST90200306	17	74503309	A	G	8004	-0.31	0.07	0.00	0.00	20.04
rs12958443	Butyrate/isobutyrate (4:0) levels	GCST90200306	18	6562238	A	G	8004	-0.08	0.02	0.00	0.00	21.73
rs56295971	Butyrate/isobutyrate (4:0) levels	GCST90200306	19	3615308	A	C	8004	-0.13	0.03	0.00	0.00	22.52
rs115743389	Butyrate/isobutyrate (4:0) levels	GCST90200306	19	14617278	A	G	8004	-3.03	0.57	0.00	0.00	28.49
rs148274710	Butyrate/isobutyrate (4:0) levels	GCST90200306	20	11388995	A	T	8004	-0.18	0.04	0.00	0.00	20.08
rs148063780	Butyrate/isobutyrate (4:0) levels	GCST90200306	20	51108556	T	A	8004	-0.26	0.06	0.00	0.00	20.09
rs197613	Urate levels	GCST90200307	1	57201558	C	G	8264	-0.06	0.01	0.00	0.00	20.34
rs1281169	Urate levels	GCST90200307	1	110553119	G	C	8264	0.12	0.02	0.00	0.00	25.26
rs6694357	Urate levels	GCST90200307	1	151063152	C	A	8264	-0.12	0.03	0.00	0.00	21.96
rs181726907	Urate levels	GCST90200307	2	24724446	T	G	8264	0.31	0.07	0.00	0.00	23.08
rs144699438	Urate levels	GCST90200307	2	36102583	T	C	8264	0.29	0.06	0.00	0.00	24.01
rs150809600	Urate levels	GCST90200307	2	61729105	G	C	8264	-0.43	0.09	0.00	0.00	22.42
rs145781764	Urate levels	GCST90200307	2	175043138	C	T	8264	-0.27	0.06	0.00	0.00	23.06
rs77026520	Urate levels	GCST90200307	2	206609029	G	A	8264	0.33	0.06	0.00	0.00	31.68
rs13387495	Urate levels	GCST90200307	2	212420333	C	T	8264	-0.09	0.02	0.00	0.00	20.92
rs12485725	Urate levels	GCST90200307	3	7960983	A	G	8264	0.09	0.02	0.00	0.00	20.75
rs74365347	Urate levels	GCST90200307	3	179511327	A	C	8264	-0.33	0.07	0.00	0.00	19.81
rs9994216	Urate levels	GCST90200307	4	9982917	T	G	8264	0.27	0.02	0.00	0.04	302.07
rs2231142	Urate levels	GCST90200307	4	88131171	T	G	8264	0.14	0.02	0.00	0.00	39.13

rs78112251	Urate levels	GCST90200307	4	170153079	T	C	8264	0.14	0.03	0.00	0.00	20.05
rs13181893	Urate levels	GCST90200307	5	34426050	T	C	8264	-0.07	0.01	0.00	0.00	21.56
rs1373962	Urate levels	GCST90200307	5	84232044	C	T	8264	0.06	0.01	0.00	0.00	20.01
rs1747550	Urate levels	GCST90200307	6	25851305	G	A	8264	0.07	0.01	0.00	0.00	24.25
rs9472482	Urate levels	GCST90200307	6	45390692	T	G	8264	-0.14	0.03	0.00	0.00	20.72
rs112339303	Urate levels	GCST90200307	6	52645410	A	G	8264	0.16	0.04	0.00	0.00	20.69
rs17790499	Urate levels	GCST90200307	6	75120692	A	T	8264	0.14	0.03	0.00	0.00	21.37
rs606405	Urate levels	GCST90200307	7	105699600	C	T	8264	-0.30	0.07	0.00	0.00	19.82
rs2436105	Urate levels	GCST90200307	8	132109331	A	G	8264	0.08	0.02	0.00	0.00	21.25
rs1414990	Urate levels	GCST90200307	10	33497360	T	C	8264	-0.07	0.02	0.00	0.00	20.08
rs149975995	Urate levels	GCST90200307	10	123687104	A	G	8264	-0.24	0.04	0.00	0.00	28.06
rs12363578	Urate levels	GCST90200307	11	64597394	T	C	8264	-0.08	0.01	0.00	0.00	33.76
rs147897751	Urate levels	GCST90200307	11	89690616	C	T	8264	0.33	0.07	0.00	0.00	19.76
rs509287	Urate levels	GCST90200307	11	105070297	T	G	8264	-0.44	0.10	0.00	0.00	21.18
rs2156157	Urate levels	GCST90200307	11	124564457	G	C	8264	-0.07	0.01	0.00	0.00	21.57
rs111541878	Urate levels	GCST90200307	12	58557090	A	G	8264	0.20	0.04	0.00	0.00	22.01
rs144853353	Urate levels	GCST90200307	12	114021156	T	G	8264	-0.29	0.05	0.00	0.00	30.21
rs73154060	Urate levels	GCST90200307	13	26945507	G	A	8264	-0.31	0.06	0.00	0.00	26.62
rs9583107	Urate levels	GCST90200307	13	106667264	G	T	8264	-0.09	0.02	0.00	0.00	26.22
rs111471465	Urate levels	GCST90200307	14	57625885	T	C	8264	0.11	0.02	0.00	0.00	23.51
rs7536506	3-hydroxyisobutyrate levels	GCST90200308	1	5468457	G	A	8177	0.07	0.02	0.00	0.00	19.91
rs150011608	3-hydroxyisobutyrate levels	GCST90200308	1	147589979	C	T	8177	-0.31	0.07	0.00	0.00	20.58
rs6773840	3-hydroxyisobutyrate levels	GCST90200308	3	139376751	T	A	8177	0.12	0.03	0.00	0.00	20.82
rs143696406	3-hydroxyisobutyrate levels	GCST90200308	3	161965055	A	G	8177	-0.38	0.07	0.00	0.00	28.69
rs11925694	3-hydroxyisobutyrate levels	GCST90200308	3	185757918	G	A	8177	0.08	0.02	0.00	0.00	22.85
rs13125359	3-hydroxyisobutyrate levels	GCST90200308	4	82404421	A	G	8177	-0.22	0.05	0.00	0.00	19.57
rs56053960	3-hydroxyisobutyrate levels	GCST90200308	5	37917816	C	T	8177	-0.14	0.03	0.00	0.00	24.24
rs117216657	3-hydroxyisobutyrate levels	GCST90200308	6	170440383	A	G	8177	0.35	0.08	0.00	0.00	19.77
rs73063704	3-hydroxyisobutyrate levels	GCST90200308	7	21680389	C	T	8177	-0.42	0.09	0.00	0.00	21.47
rs79207887	3-hydroxyisobutyrate levels	GCST90200308	7	40759027	T	G	8177	0.17	0.04	0.00	0.00	22.36
rs1638756	3-hydroxyisobutyrate levels	GCST90200308	7	157759675	C	G	8177	0.14	0.03	0.00	0.00	22.65
rs34208684	3-hydroxyisobutyrate levels	GCST90200308	8	49757743	C	T	8177	0.17	0.04	0.00	0.00	21.04
rs112647662	3-hydroxyisobutyrate levels	GCST90200308	12	95380896	G	C	8177	0.11	0.02	0.00	0.00	22.81
rs4899488	3-hydroxyisobutyrate levels	GCST90200308	14	74008147	T	A	8177	-0.08	0.02	0.00	0.00	27.39
rs16976919	3-hydroxyisobutyrate levels	GCST90200308	15	56470964	G	A	8177	-0.15	0.03	0.00	0.00	22.44
rs4784753	3-hydroxyisobutyrate levels	GCST90200308	16	57034136	T	C	8177	0.08	0.02	0.00	0.00	21.10

rs17762434	3-hydroxyisobutyrate levels	GCST90200308	17	57971281	G	T	8177	-0.12	0.03	0.00	0.00	20.63
rs6565566	3-hydroxyisobutyrate levels	GCST90200308	17	81413692	G	C	8177	0.28	0.06	0.00	0.00	20.91
rs74931926	3-hydroxyisobutyrate levels	GCST90200308	19	12530305	A	G	8177	-0.11	0.02	0.00	0.00	21.49
rs4649043	Vanillylmandelate (VMA) levels	GCST90200309	1	25015765	A	T	8216	0.12	0.03	0.00	0.00	21.81
rs75117559	Vanillylmandelate (VMA) levels	GCST90200309	1	50416834	C	T	8216	0.14	0.03	0.00	0.00	22.14
rs113478941	Vanillylmandelate (VMA) levels	GCST90200309	1	160774732	T	C	8216	-0.14	0.03	0.00	0.00	23.94
rs61802613	Vanillylmandelate (VMA) levels	GCST90200309	1	168627532	C	T	8216	-0.34	0.08	0.00	0.00	20.04
rs13409321	Vanillylmandelate (VMA) levels	GCST90200309	2	38417064	C	T	8216	-0.16	0.04	0.00	0.00	20.10
rs115330083	Vanillylmandelate (VMA) levels	GCST90200309	2	146779140	A	G	8216	0.29	0.06	0.00	0.00	21.57
rs144098166	Vanillylmandelate (VMA) levels	GCST90200309	4	5519291	G	A	8216	0.33	0.07	0.00	0.00	23.80
rs147258590	Vanillylmandelate (VMA) levels	GCST90200309	4	34414007	G	T	8216	-0.25	0.05	0.00	0.00	22.07
rs111979882	Vanillylmandelate (VMA) levels	GCST90200309	4	34757815	T	A	8216	0.24	0.05	0.00	0.00	23.19
rs1531022	Vanillylmandelate (VMA) levels	GCST90200309	4	68666410	A	G	8216	-0.19	0.01	0.00	0.02	197.63
rs1443801	Vanillylmandelate (VMA) levels	GCST90200309	4	90018246	C	A	8216	-0.06	0.01	0.00	0.00	21.44
rs7657780	Vanillylmandelate (VMA) levels	GCST90200309	4	138308083	G	T	8216	-0.07	0.02	0.00	0.00	20.49
rs72717408	Vanillylmandelate (VMA) levels	GCST90200309	5	427929	T	C	8216	-0.18	0.04	0.00	0.00	19.90
rs111871379	Vanillylmandelate (VMA) levels	GCST90200309	6	80562538	T	C	8216	-0.27	0.06	0.00	0.00	21.61
rs118035806	Vanillylmandelate (VMA) levels	GCST90200309	6	98117662	T	A	8216	0.18	0.04	0.00	0.00	22.24
rs35848336	Vanillylmandelate (VMA) levels	GCST90200309	6	107971388	C	T	8216	0.10	0.02	0.00	0.00	19.95
rs145492539	Vanillylmandelate (VMA) levels	GCST90200309	7	32974536	T	C	8216	-0.28	0.05	0.00	0.00	26.83
rs35832921	Vanillylmandelate (VMA) levels	GCST90200309	7	77292014	C	G	8216	-0.28	0.06	0.00	0.00	19.54
rs17747688	Vanillylmandelate (VMA) levels	GCST90200309	8	1299058	T	C	8216	-0.18	0.04	0.00	0.00	24.63
rs73209125	Vanillylmandelate (VMA) levels	GCST90200309	8	16321683	C	T	8216	-0.19	0.04	0.00	0.00	21.60
rs28409557	Vanillylmandelate (VMA) levels	GCST90200309	8	18357943	A	T	8216	-0.10	0.02	0.00	0.00	19.55

rs2205270	Vanillylmande late (VMA) levels	GCST90200309	8	116146152	T	C	8216	0.10	0.02	0.00	0.00	24.21
rs1928578	Vanillylmande late (VMA) levels	GCST90200309	9	24506906	A	G	8216	0.12	0.03	0.00	0.00	20.33
rs20182319 7	Vanillylmande late (VMA) levels	GCST90200309	9	98513059	C	T	8216	0.06	0.01	0.00	0.00	20.38
rs78842928	Vanillylmande late (VMA) levels	GCST90200309	9	129938723	T	G	8216	0.12	0.03	0.00	0.00	20.63
rs6271	Vanillylmande late (VMA) levels	GCST90200309	9	133657152	T	C	8216	-0.13	0.03	0.00	0.00	26.48
rs17444672	Vanillylmande late (VMA) levels	GCST90200309	10	17366454	C	T	8216	0.19	0.04	0.00	0.00	19.73
rs12419444	Vanillylmande late (VMA) levels	GCST90200309	11	2188428	T	C	8216	0.09	0.02	0.00	0.00	30.38
rs6483616	Vanillylmande late (VMA) levels	GCST90200309	11	19826476	C	T	8216	0.07	0.01	0.00	0.00	22.37
rs53080385 7	Vanillylmande late (VMA) levels	GCST90200309	11	47400077	C	A	8216	-0.28	0.06	0.00	0.00	20.95
rs54364670 4	Vanillylmande late (VMA) levels	GCST90200309	11	108146045	G	A	8216	0.39	0.09	0.00	0.00	20.24
rs19219579 5	Vanillylmande late (VMA) levels	GCST90200309	14	104722122	G	T	8216	0.24	0.05	0.00	0.00	20.34
rs28544423	Vanillylmande late (VMA) levels	GCST90200309	16	20348311	T	C	8216	-0.11	0.02	0.00	0.00	35.94
rs8080108	Vanillylmande late (VMA) levels	GCST90200309	17	49436349	C	T	8216	0.09	0.01	0.00	0.00	33.35
rs8073139	Vanillylmande late (VMA) levels	GCST90200309	17	54576850	C	T	8216	-0.07	0.01	0.00	0.00	22.95
rs14096249 0	Vanillylmande late (VMA) levels	GCST90200309	17	68108749	A	G	8216	-0.17	0.04	0.00	0.00	20.28
rs34912310	Vanillylmande late (VMA) levels	GCST90200309	19	1084846	A	G	8216	0.11	0.03	0.00	0.00	19.55
rs3844453	Vanillylmande late (VMA) levels	GCST90200309	19	53854510	T	C	8216	0.08	0.02	0.00	0.00	24.51
rs11227061 1	3- aminoisobutyr ate levels	GCST90200310	1	59855382	A	G	8265	0.36	0.08	0.00	0.00	20.31
rs1885003	3- aminoisobutyr ate levels	GCST90200310	1	114233105	G	A	8265	-0.08	0.02	0.00	0.00	20.86
rs55688012 8	3- aminoisobutyr ate levels	GCST90200310	1	157242474	T	G	8265	-0.29	0.06	0.00	0.00	19.93
rs1260326	3- aminoisobutyr ate levels	GCST90200310	2	27508073	C	T	8265	0.07	0.02	0.00	0.00	20.27
rs6781987	3- aminoisobutyr ate levels	GCST90200310	3	66314960	A	G	8265	0.12	0.02	0.00	0.00	36.99
rs1488299	3- aminoisobutyr ate levels	GCST90200310	4	27259821	C	T	8265	0.07	0.01	0.00	0.00	19.63
rs17494938	3- aminoisobutyr ate levels	GCST90200310	4	79326188	T	C	8265	-0.07	0.02	0.00	0.00	19.59

rs336465	3- aminoisobutyr ate levels	GCST90200310	5	34806565	A	G	8265	-0.11	0.02	0.00	0.00	40.64
rs16869174	3- aminoisobutyr ate levels	GCST90200310	5	34895431	A	C	8265	0.31	0.07	0.00	0.00	21.13
rs34248297	3- aminoisobutyr ate levels	GCST90200310	5	35027066	G	C	8265	-0.32	0.03	0.00	0.01	110.59
rs37369	3- aminoisobutyr ate levels	GCST90200310	5	35037010	T	C	8265	0.94	0.02	0.00	0.15	#####
rs9314136	3- aminoisobutyr ate levels	GCST90200310	5	95421980	G	A	8265	-0.08	0.02	0.00	0.00	20.97
rs9342252	3- aminoisobutyr ate levels	GCST90200310	6	90880367	G	A	8265	0.07	0.02	0.00	0.00	19.79
rs2331221	3- aminoisobutyr ate levels	GCST90200310	7	45236896	C	T	8265	0.07	0.02	0.00	0.00	19.80
rs19143374 0	3- aminoisobutyr ate levels	GCST90200310	8	14185359	T	C	8265	-0.31	0.07	0.00	0.00	21.81
rs72781347	3- aminoisobutyr ate levels	GCST90200310	10	13273627	G	A	8265	0.15	0.03	0.00	0.00	20.13
rs12419357	3- aminoisobutyr ate levels	GCST90200310	11	56963913	C	T	8265	-0.23	0.05	0.00	0.00	20.69
rs10774020	3- aminoisobutyr ate levels	GCST90200310	12	239710	C	T	8265	0.23	0.02	0.00	0.02	208.51
rs61915331	3- aminoisobutyr ate levels	GCST90200310	12	16569142	T	C	8265	0.35	0.08	0.00	0.00	19.54
rs2291247	3- aminoisobutyr ate levels	GCST90200310	12	125134407	G	C	8265	-0.08	0.02	0.00	0.00	25.10
rs9592544	3- aminoisobutyr ate levels	GCST90200310	13	68086084	G	A	8265	0.13	0.03	0.00	0.00	20.30
rs4772462	3- aminoisobutyr ate levels	GCST90200310	13	102347685	C	G	8265	-0.08	0.02	0.00	0.00	21.18
rs61979342	3- aminoisobutyr ate levels	GCST90200310	14	34305994	A	T	8265	-0.10	0.02	0.00	0.00	19.69
rs72698770	3- aminoisobutyr ate levels	GCST90200310	14	100840348	G	A	8265	-0.30	0.06	0.00	0.00	21.73
rs1893384	3- aminoisobutyr ate levels	GCST90200310	18	21771383	C	A	8265	-0.07	0.02	0.00	0.00	19.93
rs72959508	3- aminoisobutyr ate levels	GCST90200310	18	58786698	T	C	8265	0.17	0.04	0.00	0.00	21.46
rs7238179	3- aminoisobutyr ate levels	GCST90200310	18	74241133	T	C	8265	0.12	0.03	0.00	0.00	19.66
rs3790341	3- aminoisobutyr ate levels	GCST90200310	20	1936563	A	G	8265	-0.17	0.04	0.00	0.00	21.81
rs59823684	3- aminoisobutyr ate levels	GCST90200310	20	8260191	C	T	8265	-0.11	0.03	0.00	0.00	19.98
rs12483517	3- aminoisobutyr ate levels	GCST90200310	21	41319993	A	C	8265	0.08	0.02	0.00	0.00	19.81
rs738368	3- aminoisobutyr ate levels	GCST90200310	22	35566013	G	A	8265	0.09	0.02	0.00	0.00	21.17

rs12135418	4- acetamidobuta noate levels	GCST90200311	1	58505830	T	C	8154	0.24	0.05	0.00	0.00	21.80
rs14271619 7	4- acetamidobuta noate levels	GCST90200311	2	102772056	C	T	8154	0.33	0.07	0.00	0.00	22.73
rs1830321	4- acetamidobuta noate levels	GCST90200311	2	145067988	T	C	8154	0.07	0.01	0.00	0.00	19.86
rs7430798	4- acetamidobuta noate levels	GCST90200311	3	119439132	T	C	8154	-0.08	0.02	0.00	0.00	22.22
rs4616704	4- acetamidobuta noate levels	GCST90200311	4	160748204	A	G	8154	0.08	0.02	0.00	0.00	19.51
rs14080273 2	4- acetamidobuta noate levels	GCST90200311	4	170055517	T	C	8154	0.21	0.05	0.00	0.00	21.06
rs6885803	4- acetamidobuta noate levels	GCST90200311	5	144210098	C	G	8154	0.12	0.03	0.00	0.00	20.81
rs72926646	4- acetamidobuta noate levels	GCST90200311	6	92581899	A	C	8154	0.13	0.03	0.00	0.00	21.61
rs6461306	4- acetamidobuta noate levels	GCST90200311	7	17200086	C	G	8154	0.10	0.02	0.00	0.00	22.32
rs14753382 1	4- acetamidobuta noate levels	GCST90200311	7	135049086	T	C	8154	-0.19	0.04	0.00	0.00	19.69
rs895703	4- acetamidobuta noate levels	GCST90200311	8	3490319	G	A	8154	0.07	0.01	0.00	0.00	23.59
rs4921913	4- acetamidobuta noate levels	GCST90200311	8	18414867	T	C	8154	-0.32	0.02	0.00	0.04	346.44
rs7960031	4- acetamidobuta noate levels	GCST90200311	12	117808260	A	G	8154	-0.14	0.03	0.00	0.00	22.15
rs12585597	4- acetamidobuta noate levels	GCST90200311	13	108078934	T	G	8154	0.10	0.02	0.00	0.00	20.32
rs1874015	4- acetamidobuta noate levels	GCST90200311	16	84843926	C	T	8154	0.07	0.02	0.00	0.00	20.33
rs7212438	4- acetamidobuta noate levels	GCST90200311	17	55644118	T	C	8154	-0.14	0.03	0.00	0.00	20.41
rs2013353	4- acetamidobuta noate levels	GCST90200311	18	71727716	A	G	8154	-0.07	0.02	0.00	0.00	22.46
rs18340091 6	4- acetamidobuta noate levels	GCST90200311	19	21068305	T	C	8154	-0.27	0.06	0.00	0.00	20.39
rs14838195 3	2- acetamidobuta noate levels	GCST90200311	22	50123655	G	A	8154	0.34	0.05	0.00	0.00	38.27
rs2821034	2- hydroxysteara te levels	GCST90200312	1	3495402	C	T	8241	-0.08	0.02	0.00	0.00	20.40
rs28550594	2- hydroxysteara te levels	GCST90200312	1	16089094	A	G	8241	-0.08	0.02	0.00	0.00	22.72
rs79399329	2- hydroxysteara te levels	GCST90200312	1	153544257	A	G	8241	0.16	0.03	0.00	0.00	22.11
rs1528801	2- hydroxysteara te levels	GCST90200312	2	51478241	T	G	8241	0.09	0.02	0.00	0.00	22.12
rs7610402	2- hydroxysteara te levels	GCST90200312	3	152913465	A	G	8241	-0.07	0.02	0.00	0.00	21.50

rs13099809	2-hydroxystearate levels	GCST90200312	3	190651173	T	A	8241	0.21	0.05	0.00	0.00	20.10
rs12191298	2-hydroxystearate levels	GCST90200312	6	42569870	G	A	8241	-0.18	0.04	0.00	0.00	26.84
rs4236287	2-hydroxystearate levels	GCST90200312	7	16353839	C	G	8241	-0.09	0.02	0.00	0.00	25.38
rs151043937	2-hydroxystearate levels	GCST90200312	8	38231982	G	C	8241	0.24	0.05	0.00	0.00	21.11
rs11782161	2-hydroxystearate levels	GCST90200312	8	41152757	T	C	8241	-0.21	0.04	0.00	0.00	27.14
rs7024062	2-hydroxystearate levels	GCST90200312	9	69130157	G	A	8241	0.09	0.02	0.00	0.00	21.27
rs296709	2-hydroxystearate levels	GCST90200312	9	90976267	G	C	8241	-0.09	0.02	0.00	0.00	21.05
rs4881150	2-hydroxystearate levels	GCST90200312	10	3301962	T	G	8241	-0.18	0.04	0.00	0.00	24.80
rs11201988	2-hydroxystearate levels	GCST90200312	10	86353718	A	G	8241	-0.11	0.02	0.00	0.00	21.62
rs181899314	2-hydroxystearate levels	GCST90200312	10	115723659	A	G	8241	-0.45	0.10	0.00	0.00	21.00
rs59897174	2-hydroxystearate levels	GCST90200312	11	97238738	G	C	8241	-0.14	0.03	0.00	0.00	19.75
rs12280621	2-hydroxystearate levels	GCST90200312	11	125073935	A	G	8241	-0.09	0.02	0.00	0.00	23.53
rs148003337	2-hydroxystearate levels	GCST90200312	13	74245656	G	A	8241	-0.31	0.07	0.00	0.00	20.10
rs117818461	2-hydroxystearate levels	GCST90200312	13	99085751	A	G	8241	0.20	0.04	0.00	0.00	25.59
rs72743364	2-hydroxystearate levels	GCST90200312	15	73812581	A	C	8241	0.12	0.03	0.00	0.00	21.15
rs1794242	2-hydroxystearate levels	GCST90200312	16	14008691	A	G	8241	0.07	0.02	0.00	0.00	20.30
rs8074523	2-hydroxystearate levels	GCST90200312	17	9085232	G	A	8241	0.08	0.02	0.00	0.00	19.78
rs143725339	2-hydroxystearate levels	GCST90200312	20	49450248	T	C	8241	0.31	0.07	0.00	0.00	20.16
rs35200126	N1-methyladenosine levels	GCST90200313	1	162921547	A	G	8247	0.22	0.05	0.00	0.00	20.83
rs1438139	N1-methyladenosine levels	GCST90200313	2	23264806	G	A	8247	0.15	0.03	0.00	0.00	19.56
rs368575921	N1-methyladenosine levels	GCST90200313	2	73463756	G	A	8247	-0.09	0.02	0.00	0.00	23.12
rs7588478	N1-methyladenosine levels	GCST90200313	2	96323762	G	A	8247	0.28	0.06	0.00	0.00	20.93
rs334035	N1-methyladenosine levels	GCST90200313	2	178224658	C	G	8247	0.07	0.02	0.00	0.00	21.59
rs78229370	N1-methyladenosine levels	GCST90200313	3	35372933	C	T	8247	-0.14	0.03	0.00	0.00	27.01

rs9820797	N1-methyladenosine levels	GCST90200313	3	196852618	C	T	8247	0.07	0.02	0.00	0.00	21.84
rs181489813	N1-methyladenosine levels	GCST90200313	5	79180289	C	T	8247	0.16	0.04	0.00	0.00	20.39
rs2033419	N1-methyladenosine levels	GCST90200313	6	36773877	A	C	8247	-0.15	0.03	0.00	0.00	25.30
rs12526284	N1-methyladenosine levels	GCST90200313	6	41232555	C	T	8247	-0.07	0.01	0.00	0.00	24.26
rs4715846	N1-methyladenosine levels	GCST90200313	6	60598502	A	G	8247	-0.10	0.02	0.00	0.00	21.22
rs117174316	N1-methyladenosine levels	GCST90200313	6	132183636	G	A	8247	-0.26	0.06	0.00	0.00	20.73
rs316022	N1-methyladenosine levels	GCST90200313	6	160246568	A	G	8247	-0.11	0.02	0.00	0.01	42.25
rs80090058	N1-methyladenosine levels	GCST90200313	7	9839955	T	G	8247	0.10	0.02	0.00	0.00	20.97
rs117767138	N1-methyladenosine levels	GCST90200313	7	53642531	T	C	8247	-0.20	0.04	0.00	0.00	21.01
rs67733428	N1-methyladenosine levels	GCST90200313	9	20168626	T	G	8247	0.15	0.03	0.00	0.00	23.54
rs74640040	N1-methyladenosine levels	GCST90200313	9	32837644	C	T	8247	-0.20	0.04	0.00	0.00	21.63
rs10980089	N1-methyladenosine levels	GCST90200313	9	109856475	G	A	8247	0.09	0.02	0.00	0.00	19.69
rs117310538	N1-methyladenosine levels	GCST90200313	10	68558986	A	G	8247	-0.32	0.07	0.00	0.00	20.99
rs609948	N1-methyladenosine levels	GCST90200313	11	83646057	G	T	8247	0.07	0.02	0.00	0.00	21.03
rs199789839	N1-methyladenosine levels	GCST90200313	12	77904388	A	G	8247	0.10	0.02	0.00	0.00	20.59
rs2596774	N1-methyladenosine levels	GCST90200313	12	95471501	A	T	8247	0.22	0.05	0.00	0.00	19.88
rs149952918	N1-methyladenosine levels	GCST90200313	13	55562496	C	G	8247	-0.33	0.07	0.00	0.00	20.09
rs117015620	N1-methyladenosine levels	GCST90200313	16	6471877	T	C	8247	-0.21	0.05	0.00	0.00	19.86
rs77924615	N1-methyladenosine levels	GCST90200313	16	20381010	A	G	8247	-0.09	0.02	0.00	0.00	22.49
rs8044237	N1-methyladenosine levels	GCST90200313	16	50077084	G	C	8247	-0.15	0.03	0.00	0.00	29.19
rs189171499	N1-methyladenosine levels	GCST90200313	16	60868395	G	A	8247	0.29	0.07	0.00	0.00	19.69
rs12962802	N1-methyladenosine levels	GCST90200313	18	40231259	T	C	8247	0.17	0.04	0.00	0.00	20.19
rs145472028	N1-methyladenosine levels	GCST90200313	18	78640863	T	C	8247	-0.27	0.06	0.00	0.00	20.07
rs7258240	N1-methyladenosine levels	GCST90200313	19	15661604	A	G	8247	0.07	0.02	0.00	0.00	19.51

rs62111387	N1-methyladenosine levels	GCST90200313	19	36132939	A	G	8247	-0.12	0.03	0.00	0.00	20.03
rs12461345	N1-methyladenosine levels	GCST90200313	19	51509604	A	G	8247	-0.22	0.05	0.00	0.00	21.45
rs78473150	N1-methyladenosine levels	GCST90200313	20	37585831	A	G	8247	-0.19	0.04	0.00	0.00	21.35
rs2007720	N1-methyladenosine levels	GCST90200313	20	44648047	G	A	8247	-0.10	0.02	0.00	0.00	32.14
rs2065525	N-acetylneuraminate levels	GCST90200314	1	3387374	G	C	8200	0.07	0.01	0.00	0.00	22.48
rs10489136	N-acetylneuraminate levels	GCST90200314	1	4873175	A	G	8200	0.09	0.02	0.00	0.00	20.50
rs2797185	N-acetylneuraminate levels	GCST90200314	1	115835778	T	C	8200	0.07	0.02	0.00	0.00	19.85
rs6704003	N-acetylneuraminate levels	GCST90200314	1	182808231	A	G	8200	-0.14	0.03	0.00	0.00	25.81
rs58423714	N-acetylneuraminate levels	GCST90200314	1	183135750	C	A	8200	0.58	0.06	0.00	0.01	80.11
rs560565899	N-acetylneuraminate levels	GCST90200314	2	7878330	G	A	8200	0.28	0.06	0.00	0.00	24.91
rs58171576	N-acetylneuraminate levels	GCST90200314	3	31422350	A	G	8200	-0.11	0.02	0.00	0.00	24.65
rs9861033	N-acetylneuraminate levels	GCST90200314	3	56827194	G	A	8200	0.07	0.01	0.00	0.00	22.68
rs1147238	N-acetylneuraminate levels	GCST90200314	3	196947647	G	A	8200	-0.10	0.02	0.00	0.00	20.62
rs116671237	N-acetylneuraminate levels	GCST90200314	4	7456301	G	A	8200	0.41	0.08	0.00	0.00	26.79
rs58980659	N-acetylneuraminate levels	GCST90200314	5	11329911	C	T	8200	0.36	0.08	0.00	0.00	21.29
rs73743903	N-acetylneuraminate levels	GCST90200314	5	21623889	C	A	8200	-0.10	0.02	0.00	0.00	19.55
rs62355194	N-acetylneuraminate levels	GCST90200314	5	29230330	T	C	8200	-0.11	0.02	0.00	0.00	19.94
rs9383281	N-acetylneuraminate levels	GCST90200314	6	17388498	T	C	8200	0.07	0.01	0.00	0.00	20.02
rs6919649	N-acetylneuraminate levels	GCST90200314	6	82893366	T	C	8200	0.14	0.03	0.00	0.00	22.75
rs117963669	N-acetylneuraminate levels	GCST90200314	7	113962330	A	G	8200	-0.25	0.05	0.00	0.00	22.29
rs56148299	N-acetylneuraminate levels	GCST90200314	7	158025357	T	G	8200	0.17	0.04	0.00	0.00	20.95
rs2458285	N-acetylneuraminate levels	GCST90200314	8	102951650	T	C	8200	0.06	0.01	0.00	0.00	20.00
rs13296756	N-acetylneuraminate levels	GCST90200314	9	131571836	G	A	8200	0.12	0.02	0.00	0.00	21.87
rs11245408	N-acetylneuraminate levels	GCST90200314	10	124887103	G	A	8200	0.07	0.01	0.00	0.00	21.69

rs117920231	N-acetylneuraminate levels	GCST90200314	12	27022409	T	C	8200	0.19	0.04	0.00	0.00	22.20
rs61921506	N-acetylneuraminate levels	GCST90200314	12	65463119	T	C	8200	-0.07	0.01	0.00	0.00	25.47
rs11070796	N-acetylneuraminate levels	GCST90200314	15	31084162	G	A	8200	0.07	0.01	0.00	0.00	19.90
rs987385	N-acetylneuraminate levels	GCST90200314	15	72867532	A	G	8200	0.07	0.02	0.00	0.00	22.39
rs11073878	N-acetylneuraminate levels	GCST90200314	15	89600153	T	G	8200	-0.07	0.01	0.00	0.00	22.05
rs118103287	N-acetylneuraminate levels	GCST90200314	15	92224423	A	G	8200	-0.25	0.05	0.00	0.00	24.17
rs77924615	N-acetylneuraminate levels	GCST90200314	16	20381010	A	G	8200	-0.11	0.02	0.00	0.00	34.44
rs222854	N-acetylneuraminate levels	GCST90200314	17	7209561	T	C	8200	-0.07	0.01	0.00	0.00	20.31
rs4353533	N-acetylneuraminate levels	GCST90200314	17	62821857	T	C	8200	-0.07	0.01	0.00	0.00	20.31
rs1318	N-acetylneuraminate levels	GCST90200314	17	67695266	G	A	8200	-0.09	0.02	0.00	0.00	22.80
rs144845421	N-acetylneuraminate levels	GCST90200314	18	30638802	T	C	8200	0.32	0.07	0.00	0.00	24.00
rs62203530	N-acetylneuraminate levels	GCST90200314	20	51144783	T	C	8200	0.20	0.04	0.00	0.00	20.47
rs77602225	N-acetylneuraminate levels	GCST90200314	20	63418304	A	G	8200	-0.10	0.02	0.00	0.00	20.46
rs1181893	Gamma-glutamylhistidine levels	GCST90200315	1	3774906	C	A	8220	0.32	0.07	0.00	0.00	19.62
rs17510781	Gamma-glutamylhistidine levels	GCST90200315	1	82972988	G	T	8220	0.28	0.06	0.00	0.00	19.74
rs115593970	Gamma-glutamylhistidine levels	GCST90200315	2	204005014	G	A	8220	0.29	0.06	0.00	0.00	24.46
rs715	Gamma-glutamylhistidine levels	GCST90200315	2	210678331	C	T	8220	-0.10	0.02	0.00	0.00	37.54
rs77680772	Gamma-glutamylhistidine levels	GCST90200315	3	13828069	G	C	8220	0.64	0.14	0.00	0.00	20.64
rs112505701	Gamma-glutamylhistidine levels	GCST90200315	3	87029978	T	G	8220	-0.18	0.04	0.00	0.00	20.54
rs188156090	Gamma-glutamylhistidine levels	GCST90200315	3	102824362	A	G	8220	0.49	0.11	0.00	0.00	20.15
rs142311471	Gamma-glutamylhistidine levels	GCST90200315	4	146089522	T	C	8220	0.30	0.06	0.00	0.00	22.61
rs116605664	Gamma-glutamylhistidine levels	GCST90200315	4	159248000	T	G	8220	0.25	0.05	0.00	0.00	25.22
rs148183459	Gamma-glutamylhistidine levels	GCST90200315	5	174061672	G	T	8220	0.29	0.06	0.00	0.00	22.37
rs1150679	Gamma-glutamylhistidine levels	GCST90200315	6	28183278	C	T	8220	-0.08	0.02	0.00	0.00	24.93

rs75642331	Gamma-glutamylhistidine levels	GCST90200315	8	123342341	T	C	8220	0.28	0.06	0.00	0.00	22.36
rs10961496	Gamma-glutamylhistidine levels	GCST90200315	9	14382956	C	G	8220	0.12	0.03	0.00	0.00	22.39
rs138789761	Gamma-glutamylhistidine levels	GCST90200315	9	25123254	C	T	8220	0.34	0.07	0.00	0.00	21.08
rs138823761	Gamma-glutamylhistidine levels	GCST90200315	10	96502325	T	C	8220	0.29	0.06	0.00	0.00	20.30
rs117346025	Gamma-glutamylhistidine levels	GCST90200315	10	116221384	A	G	8220	-0.26	0.06	0.00	0.00	20.14
rs181934483	Gamma-glutamylhistidine levels	GCST90200315	11	67518626	A	T	8220	0.30	0.06	0.00	0.00	20.74
rs148841718	Gamma-glutamylhistidine levels	GCST90200315	11	112896559	A	T	8220	0.34	0.07	0.00	0.00	20.64
rs2183247	Gamma-glutamylhistidine levels	GCST90200315	13	41106935	G	A	8220	-0.09	0.02	0.00	0.00	19.93
rs7180745	Gamma-glutamylhistidine levels	GCST90200315	15	85360468	G	C	8220	0.08	0.02	0.00	0.00	20.58
rs13338347	Gamma-glutamylhistidine levels	GCST90200315	16	15856134	T	C	8220	-0.08	0.02	0.00	0.00	21.38
rs80072916	Gamma-glutamylhistidine levels	GCST90200315	16	24354374	T	C	8220	0.16	0.04	0.00	0.00	19.68
rs34186740	Gamma-glutamylhistidine levels	GCST90200315	17	72591647	C	A	8220	0.14	0.03	0.00	0.00	25.38
rs56210061	Gamma-glutamylhistidine levels	GCST90200315	19	14905681	A	G	8220	0.09	0.02	0.00	0.00	20.53
rs71649205	N-acetylglucosaminylasparagine levels	GCST90200316	1	65976257	A	C	8144	-0.23	0.05	0.00	0.00	20.54
rs72692719	N-acetylglucosaminylasparagine levels	GCST90200316	1	151559247	A	G	8144	-0.08	0.02	0.00	0.00	21.00
rs2856028	N-acetylglucosaminylasparagine levels	GCST90200316	3	60602894	A	C	8144	-0.12	0.03	0.00	0.00	19.72
rs115440122	N-acetylglucosaminylasparagine levels	GCST90200316	3	145141544	A	G	8144	-0.24	0.05	0.00	0.00	20.71
rs11935444	N-acetylglucosaminylasparagine levels	GCST90200316	4	76291064	C	T	8144	0.07	0.02	0.00	0.00	21.00
rs13133517	N-acetylglucosaminylasparagine levels	GCST90200316	4	177440833	C	T	8144	0.15	0.02	0.00	0.01	82.33
rs142462017	N-acetylglucosaminylasparagine levels	GCST90200316	6	19243994	T	C	8144	-0.11	0.02	0.00	0.00	20.08
rs7751552	N-acetylglucosaminylasparagine levels	GCST90200316	6	104068800	A	G	8144	-0.17	0.04	0.00	0.00	21.45

rs2076007	N-acetylglucosamine levels	GCST90200316	6	167294271	T	C	8144	-0.54	0.02	0.00	0.06	511.01
rs909546	N-acetylglucosamine levels	GCST90200316	6	167341214	T	C	8144	-0.13	0.02	0.00	0.01	69.72
rs10240649	N-acetylglucosamine levels	GCST90200316	7	49303698	T	G	8144	0.07	0.02	0.00	0.00	19.65
rs606405	N-acetylglucosamine levels	GCST90200316	7	105699600	C	T	8144	-0.32	0.07	0.00	0.00	19.83
rs75583314	N-acetylglucosamine levels	GCST90200316	7	116993680	A	C	8144	-0.28	0.06	0.00	0.00	23.96
rs142995169	N-acetylglucosamine levels	GCST90200316	8	53223560	A	C	8144	-0.38	0.08	0.00	0.00	23.02
rs7116918	N-acetylglucosamine levels	GCST90200316	11	117621939	A	G	8144	0.07	0.02	0.00	0.00	20.06
rs11048402	N-acetylglucosamine levels	GCST90200316	12	26074948	A	G	8144	-0.15	0.03	0.00	0.00	27.18
rs11111044	N-acetylglucosamine levels	GCST90200316	12	101821036	A	C	8144	0.10	0.02	0.00	0.00	26.31
rs10781642	N-acetylglucosamine levels	GCST90200316	12	132460407	C	T	8144	0.11	0.02	0.00	0.00	23.93
rs2324331	N-acetylglucosamine levels	GCST90200316	13	39508394	A	G	8144	0.08	0.02	0.00	0.00	22.88
rs61953870	N-acetylglucosamine levels	GCST90200316	13	58730704	A	T	8144	0.08	0.02	0.00	0.00	20.27
rs28929474	N-acetylglucosamine levels	GCST90200316	14	94378610	T	C	8144	0.44	0.06	0.00	0.01	59.58
rs78357146	N-acetylglucosamine levels	GCST90200316	17	66308933	G	A	8144	0.35	0.04	0.00	0.01	61.50
rs12944325	N-acetylglucosamine levels	GCST90200316	17	72961551	C	T	8144	0.14	0.03	0.00	0.00	19.78
rs144845421	N-acetylglucosamine levels	GCST90200316	18	30638802	T	C	8144	0.36	0.07	0.00	0.00	27.45
rs429358	N-acetylglucosamine levels	GCST90200316	19	44908684	C	T	8144	-0.10	0.02	0.00	0.00	20.94
rs72717429	Homovanillate (hva) levels	GCST90200317	1	177799955	G	A	6320	0.27	0.05	0.00	0.00	27.42
rs7582338	Homovanillate (hva) levels	GCST90200317	2	15677917	G	A	6320	0.10	0.02	0.00	0.00	20.25
rs72857541	Homovanillate (hva) levels	GCST90200317	2	29922178	G	C	6320	0.38	0.08	0.00	0.00	20.31

rs150488329	Homovanillate (hva) levels	GCST90200317	2	58601838	G	A	6320	0.38	0.07	0.00	0.00	27.69
rs138069101	Homovanillate (hva) levels	GCST90200317	2	106178404	T	G	6320	-0.16	0.04	0.00	0.00	19.84
rs114127005	Homovanillate (hva) levels	GCST90200317	3	156686992	A	G	6320	0.27	0.06	0.00	0.00	23.17
rs4602438	Homovanillate (hva) levels	GCST90200317	3	159737038	G	A	6320	-0.08	0.02	0.00	0.00	22.11
rs7690552	Homovanillate (hva) levels	GCST90200317	4	4365272	G	T	6320	0.08	0.02	0.00	0.00	19.81
rs4865075	Homovanillate (hva) levels	GCST90200317	4	56246964	G	A	6320	-0.10	0.02	0.00	0.00	23.05
rs4702173	Homovanillate (hva) levels	GCST90200317	5	16790974	T	C	6320	-0.14	0.03	0.00	0.00	23.30
rs1044690	Homovanillate (hva) levels	GCST90200317	6	44277504	C	G	6320	-0.10	0.02	0.00	0.00	21.70
rs6910089	Homovanillate (hva) levels	GCST90200317	6	46904248	C	T	6320	-0.11	0.02	0.00	0.00	20.83
rs9388948	Homovanillate (hva) levels	GCST90200317	6	131924522	G	A	6320	0.09	0.02	0.00	0.00	20.53
rs218148	Homovanillate (hva) levels	GCST90200317	7	31428692	G	T	6320	0.09	0.02	0.00	0.00	21.16
rs2978177	Homovanillate (hva) levels	GCST90200317	8	94024697	C	T	6320	0.17	0.04	0.00	0.00	20.15
rs7836250	Homovanillate (hva) levels	GCST90200317	8	138623640	C	A	6320	0.14	0.03	0.00	0.00	19.92
rs11795262	Homovanillate (hva) levels	GCST90200317	9	23435114	T	C	6320	-0.20	0.05	0.00	0.00	19.87
rs6271	Homovanillate (hva) levels	GCST90200317	9	133657152	T	C	6320	0.15	0.03	0.00	0.00	21.85
rs9787428	Homovanillate (hva) levels	GCST90200317	10	22559078	G	T	6320	0.17	0.03	0.00	0.00	24.34
rs73083274	Homovanillate (hva) levels	GCST90200317	12	26444233	A	G	6320	0.35	0.07	0.00	0.00	22.86
rs73157386	Homovanillate (hva) levels	GCST90200317	12	81935399	T	C	6320	-0.20	0.04	0.00	0.00	21.69
rs8064677	Homovanillate (hva) levels	GCST90200317	17	6057529	A	G	6320	0.08	0.02	0.00	0.00	22.72
rs117396731	Homovanillate (hva) levels	GCST90200317	17	60145985	C	G	6320	-0.34	0.07	0.00	0.00	23.33
rs112324482	Homovanillate (hva) levels	GCST90200317	18	31954993	A	G	6320	0.09	0.02	0.00	0.00	21.14
rs148697214	Homovanillate (hva) levels	GCST90200317	18	78159875	C	G	6320	-0.31	0.07	0.00	0.00	20.31
rs144781051	Acetoacetate levels	GCST90200318	3	136181035	T	C	6883	0.37	0.08	0.00	0.00	21.60
rs2523853	Acetoacetate levels	GCST90200318	6	31054780	A	G	6883	0.12	0.03	0.00	0.00	21.64
rs76821212	Acetoacetate levels	GCST90200318	6	165508129	C	T	6883	-0.19	0.04	0.00	0.00	23.19
rs7782383	Acetoacetate levels	GCST90200318	7	8697688	G	A	6883	0.20	0.04	0.00	0.00	22.12
rs10952495	Acetoacetate levels	GCST90200318	7	154564876	G	A	6883	0.13	0.03	0.00	0.00	22.60
rs9650348	Acetoacetate levels	GCST90200318	8	13604889	A	G	6883	-0.09	0.02	0.00	0.00	27.79
rs142734742	Acetoacetate levels	GCST90200318	8	58930374	C	T	6883	0.47	0.10	0.00	0.00	21.21
rs11789158	Acetoacetate levels	GCST90200318	9	117116083	A	G	6883	-0.08	0.02	0.00	0.00	21.74
rs117830458	Acetoacetate levels	GCST90200318	10	21593335	T	C	6883	0.29	0.06	0.00	0.00	26.32
rs556141	Acetoacetate levels	GCST90200318	12	40030190	G	T	6883	0.09	0.02	0.00	0.00	23.38
rs1149019	Acetoacetate levels	GCST90200318	12	71652961	A	C	6883	-0.09	0.02	0.00	0.00	22.06
rs143339259	Acetoacetate levels	GCST90200318	12	81816031	T	C	6883	0.36	0.08	0.00	0.00	23.24
rs440622	Acetoacetate levels	GCST90200318	13	62329330	A	G	6883	0.08	0.02	0.00	0.00	22.98
rs4798161	Acetoacetate levels	GCST90200318	18	4062986	T	A	6883	0.08	0.02	0.00	0.00	19.78
rs149095400	Acetoacetate levels	GCST90200318	21	29922164	A	C	6883	-0.26	0.06	0.00	0.00	20.58

rs10799515	Cys-gly, oxidized levels	GCST90200319	1	229150827	C	G	8256	0.07	0.02	0.00	0.00	19.73
rs6732751	Cys-gly, oxidized levels	GCST90200319	2	54730279	A	G	8256	-0.08	0.02	0.00	0.00	19.70
rs2160387	Cys-gly, oxidized levels	GCST90200319	2	64993776	C	T	8256	-0.07	0.02	0.00	0.00	23.92
rs35625701	Cys-gly, oxidized levels	GCST90200319	2	222163554	C	A	8256	0.12	0.03	0.00	0.00	20.54
rs12494689	Cys-gly, oxidized levels	GCST90200319	3	21745738	A	C	8256	-0.20	0.04	0.00	0.00	21.14
rs34530577	Cys-gly, oxidized levels	GCST90200319	3	53069780	T	G	8256	-0.07	0.02	0.00	0.00	20.15
rs1864046	Cys-gly, oxidized levels	GCST90200319	5	123405227	T	G	8256	-0.08	0.02	0.00	0.00	20.15
rs17511835	Cys-gly, oxidized levels	GCST90200319	6	35275893	T	C	8256	0.13	0.03	0.00	0.00	20.34
rs191278224	Cys-gly, oxidized levels	GCST90200319	6	91709170	T	A	8256	0.38	0.08	0.00	0.00	21.75
rs1033671	Cys-gly, oxidized levels	GCST90200319	6	165436048	A	G	8256	-0.09	0.02	0.00	0.00	19.53
rs13241926	Cys-gly, oxidized levels	GCST90200319	7	11268087	C	A	8256	-0.07	0.02	0.00	0.00	22.38
rs76418193	Cys-gly, oxidized levels	GCST90200319	7	95116740	G	A	8256	-0.22	0.05	0.00	0.00	19.86
rs17385465	Cys-gly, oxidized levels	GCST90200319	8	19106535	A	T	8256	0.18	0.04	0.00	0.00	21.60
rs78564166	Cys-gly, oxidized levels	GCST90200319	8	142212224	A	G	8256	0.15	0.03	0.00	0.00	24.38
rs72965466	Cys-gly, oxidized levels	GCST90200319	11	91628742	C	T	8256	0.25	0.05	0.00	0.00	21.56
rs11223299	Cys-gly, oxidized levels	GCST90200319	11	132961898	G	A	8256	0.10	0.02	0.00	0.00	23.83
rs74876289	Cys-gly, oxidized levels	GCST90200319	12	101958212	T	C	8256	-0.31	0.07	0.00	0.00	20.90
rs144577924	Cys-gly, oxidized levels	GCST90200319	13	70461884	A	G	8256	-0.25	0.05	0.00	0.00	20.80
rs924135	Cys-gly, oxidized levels	GCST90200319	16	16029602	T	A	8256	0.20	0.02	0.00	0.02	171.47
rs74880807	Cys-gly, oxidized levels	GCST90200319	16	88714080	G	C	8256	0.19	0.04	0.00	0.00	27.97
rs258341	Cys-gly, oxidized levels	GCST90200319	16	89624734	C	T	8256	-0.41	0.02	0.00	0.08	727.45
rs62054658	Cys-gly, oxidized levels	GCST90200319	16	90074286	G	A	8256	0.19	0.03	0.00	0.00	32.63
rs12936311	Cys-gly, oxidized levels	GCST90200319	17	70750231	G	A	8256	-0.07	0.02	0.00	0.00	19.73
rs79487637	Cys-gly, oxidized levels	GCST90200319	19	52123376	A	G	8256	0.22	0.05	0.00	0.00	23.96
rs2828056	Cys-gly, oxidized levels	GCST90200319	21	23319655	C	T	8256	-0.15	0.03	0.00	0.00	21.39
rs9305295	Cys-gly, oxidized levels	GCST90200319	21	26960688	C	G	8256	-0.14	0.03	0.00	0.00	21.28
rs4820600	Cys-gly, oxidized levels	GCST90200319	22	24597400	A	G	8256	0.08	0.02	0.00	0.00	23.59
rs142156573	Dihomo-linoleate (20:2n6) levels	GCST90200320	1	8849188	C	A	8284	-0.29	0.06	0.00	0.00	19.99
rs12497825	linoleate (20:2n6) levels	GCST90200320	3	47628057	T	A	8284	-0.08	0.02	0.00	0.00	24.46
rs116530753	Dihomo-linoleate (20:2n6) levels	GCST90200320	4	156785921	A	G	8284	-0.16	0.03	0.00	0.00	21.65
rs77207094	linoleate (20:2n6) levels	GCST90200320	5	11520799	C	T	8284	-0.26	0.06	0.00	0.00	21.68
rs114414442	Dihomo-linoleate (20:2n6) levels	GCST90200320	5	21817138	G	A	8284	-0.15	0.03	0.00	0.00	20.72
rs80144245	linoleate (20:2n6) levels	GCST90200320	5	96792319	C	T	8284	-0.20	0.04	0.00	0.00	21.08

rs197490	Dihomo- linoleate (20:2n6) levels	GCST90200320	6	142741666	C	T	8284	-0.07	0.02	0.00	0.00	21.39
rs7803343	Dihomo- linoleate (20:2n6) levels	GCST90200320	7	10226349	A	G	8284	-0.08	0.02	0.00	0.00	21.55
rs13927894 6	Dihomo- linoleate (20:2n6) levels	GCST90200320	7	96776335	A	T	8284	-0.22	0.05	0.00	0.00	21.96
rs79715983	Dihomo- linoleate (20:2n6) levels	GCST90200320	9	14170637	C	T	8284	0.11	0.02	0.00	0.00	21.01
rs79950608	Dihomo- linoleate (20:2n6) levels	GCST90200320	9	110873692	T	C	8284	0.17	0.04	0.00	0.00	22.69
rs79507970	Dihomo- linoleate (20:2n6) levels	GCST90200320	12	24993537	C	G	8284	0.27	0.05	0.00	0.00	24.89
rs78418678	Dihomo- linoleate (20:2n6) levels	GCST90200320	13	42376490	A	G	8284	-0.32	0.07	0.00	0.00	20.26
rs9561312	Dihomo- linoleate (20:2n6) levels	GCST90200320	13	93332280	A	G	8284	0.08	0.02	0.00	0.00	19.81
rs75550590	Dihomo- linoleate (20:2n6) levels	GCST90200320	15	85905140	G	A	8284	0.24	0.05	0.00	0.00	19.75
rs10423657	Dihomo- linoleate (20:2n6) levels	GCST90200320	19	14277965	A	C	8284	-0.32	0.07	0.00	0.00	19.77
rs11391569 1	Dihomo- linoleate (20:2n6) levels	GCST90200320	19	56248382	A	G	8284	-0.14	0.03	0.00	0.00	19.78
rs18280484 8	Dihomo- linoleate (20:2n6) levels	GCST90200320	20	26309659	C	T	8284	-0.57	0.12	0.00	0.00	22.06
rs14658138 8	Cholate levels	GCST90200321	1	89267876	T	C	7892	0.39	0.08	0.00	0.00	23.15
rs2160643	Cholate levels	GCST90200321	2	229006377	C	A	7892	0.09	0.02	0.00	0.00	22.23
rs62248512	Cholate levels	GCST90200321	3	26508226	A	G	7892	0.10	0.02	0.00	0.00	24.22
rs76444380	Cholate levels	GCST90200321	3	107674324	A	G	7892	0.21	0.05	0.00	0.00	20.80
rs35918469	Cholate levels	GCST90200321	3	152145412	A	T	7892	-0.08	0.02	0.00	0.00	19.81
rs13864713 8	Cholate levels	GCST90200321	4	34298713	T	A	7892	0.23	0.05	0.00	0.00	20.92
rs279407	Cholate levels	GCST90200321	5	167703703	C	T	7892	-0.08	0.02	0.00	0.00	20.41
rs386453	Cholate levels	GCST90200321	6	160338808	T	C	7892	0.12	0.03	0.00	0.00	20.13
rs17317312	Cholate levels	GCST90200321	7	25460900	A	C	7892	0.14	0.03	0.00	0.00	21.16
rs79790687	Cholate levels	GCST90200321	7	123701884	G	T	7892	0.11	0.02	0.00	0.00	22.33
rs4585753	Cholate levels	GCST90200321	8	16070811	C	G	7892	-0.08	0.02	0.00	0.00	21.94
rs14780049 9	Cholate levels	GCST90200321	8	27209442	A	C	7892	0.35	0.08	0.00	0.00	20.87
rs535508	Cholate levels	GCST90200321	11	102997410	A	T	7892	0.09	0.02	0.00	0.00	21.07
rs11718173 4	Cholate levels	GCST90200321	13	34705850	G	A	7892	0.13	0.03	0.00	0.00	21.43
rs18774622 5	Cholate levels	GCST90200321	13	83815312	A	G	7892	-0.35	0.08	0.00	0.00	19.65
rs11626067	Cholate levels	GCST90200321	14	31575521	G	A	7892	-0.13	0.03	0.00	0.00	20.25
rs11076828	Cholate levels	GCST90200321	16	4397770	T	C	7892	0.10	0.02	0.00	0.00	33.36
rs35107059	Cholate levels	GCST90200321	19	6551837	T	C	7892	-0.15	0.03	0.00	0.00	19.73
rs11420086 4	Beta- hydroxyisoval erate levels	GCST90200322	1	6274241	A	G	8201	-0.29	0.05	0.00	0.00	31.36
rs11209891	Beta- hydroxyisoval erate levels	GCST90200322	1	72015609	T	G	8201	-0.15	0.03	0.00	0.00	19.79
rs10888445	Beta- hydroxyisoval erate levels	GCST90200322	1	151869294	T	A	8201	0.11	0.02	0.00	0.01	52.05
rs6683045	Beta- hydroxyisoval erate levels	GCST90200322	1	240716400	T	C	8201	0.08	0.02	0.00	0.00	22.46
rs15040614 5	Beta- hydroxyisoval erate levels	GCST90200322	2	6231058	A	G	8201	-0.36	0.07	0.00	0.00	23.58

rs115533628	Beta-hydroxyisovalerate levels	GCST90200322	2	150908052	A	G	8201	0.40	0.09	0.00	0.00	22.12
rs6443851	Beta-hydroxyisovalerate levels	GCST90200322	3	183101261	G	A	8201	-0.13	0.02	0.00	0.01	64.51
rs72674392	Beta-hydroxyisovalerate levels	GCST90200322	4	120642634	C	T	8201	-0.24	0.05	0.00	0.00	21.25
rs147720411	Beta-hydroxyisovalerate levels	GCST90200322	5	117115889	C	A	8201	-0.19	0.04	0.00	0.00	19.62
rs35081598	Beta-hydroxyisovalerate levels	GCST90200322	6	87789314	A	G	8201	-0.37	0.08	0.00	0.00	22.14
rs11968601	Beta-hydroxyisovalerate levels	GCST90200322	6	115812696	T	C	8201	0.14	0.03	0.00	0.00	22.10
rs112201728	Beta-hydroxyisovalerate levels	GCST90200322	6	160130454	T	C	8201	0.13	0.03	0.00	0.00	20.03
rs1533100	Beta-hydroxyisovalerate levels	GCST90200322	8	8880139	T	C	8201	0.20	0.04	0.00	0.00	23.17
rs4732689	Beta-hydroxyisovalerate levels	GCST90200322	8	29546567	C	T	8201	0.08	0.02	0.00	0.00	23.19
rs67132155	Beta-hydroxyisovalerate levels	GCST90200322	8	118971619	A	G	8201	-0.11	0.02	0.00	0.00	24.69
rs1322141	Beta-hydroxyisovalerate levels	GCST90200322	9	10233064	T	A	8201	-0.08	0.02	0.00	0.00	20.69
rs67029205	Beta-hydroxyisovalerate levels	GCST90200322	10	6601352	T	C	8201	0.08	0.02	0.00	0.00	21.39
rs35819171	Beta-hydroxyisovalerate levels	GCST90200322	10	133362309	C	G	8201	-0.16	0.04	0.00	0.00	20.05
rs1994519	Beta-hydroxyisovalerate levels	GCST90200322	11	6320518	T	C	8201	0.07	0.02	0.00	0.00	19.55
rs117706923	Beta-hydroxyisovalerate levels	GCST90200322	11	65804770	A	G	8201	0.21	0.05	0.00	0.00	20.40
rs117758111	Beta-hydroxyisovalerate levels	GCST90200322	11	70105590	A	G	8201	-0.24	0.05	0.00	0.00	24.94
rs1154510	Beta-hydroxyisovalerate levels	GCST90200322	12	121857429	C	T	8201	0.21	0.02	0.00	0.01	87.69
rs56105039	Beta-hydroxyisovalerate levels	GCST90200322	14	84254771	T	C	8201	-0.29	0.06	0.00	0.00	20.17
rs899529	Beta-hydroxyisovalerate levels	GCST90200322	15	92341191	G	C	8201	0.07	0.02	0.00	0.00	20.02
rs2541530	Beta-hydroxyisovalerate levels	GCST90200322	16	10640617	G	A	8201	0.08	0.02	0.00	0.00	19.91
rs77863699	Beta-hydroxyisovalerate levels	GCST90200322	16	20552206	C	T	8201	0.36	0.05	0.00	0.01	52.64
rs8106803	Beta-hydroxyisovalerate levels	GCST90200322	19	12538550	G	A	8201	0.09	0.02	0.00	0.00	25.69
rs4806061	Beta-hydroxyisovalerate levels	GCST90200322	19	34868427	A	T	8201	0.07	0.02	0.00	0.00	22.76
rs858033	Beta-hydroxyisovalerate levels	GCST90200322	21	37729218	T	C	8201	0.08	0.02	0.00	0.00	25.38

rs76188550	Beta-hydroxyisovalerate levels	GCST90200322	22	34418872	A	G	8201	-0.24	0.05	0.00	0.00	26.24
rs4658949	Creatine levels	GCST90200323	1	231812573	T	G	8285	-0.07	0.02	0.00	0.00	22.16
rs7609488	Creatine levels	GCST90200323	2	101166266	T	G	8285	0.07	0.02	0.00	0.00	20.39
rs1047891	Creatine levels	GCST90200323	2	210675783	A	C	8285	0.20	0.02	0.00	0.02	181.42
rs2542930	Creatine levels	GCST90200323	2	210843606	C	G	8285	0.11	0.02	0.00	0.00	19.53
rs115284235	Creatine levels	GCST90200323	3	125619582	G	A	8285	0.22	0.04	0.00	0.00	23.72
rs12506181	Creatine levels	GCST90200323	4	15966154	C	T	8285	-0.07	0.02	0.00	0.00	21.87
rs201778594	Creatine levels	GCST90200323	4	131076033	A	C	8285	0.34	0.08	0.00	0.00	19.93
rs12521617	Creatine levels	GCST90200323	5	175885609	A	G	8285	0.11	0.02	0.00	0.00	23.24
rs11243013	Creatine levels	GCST90200323	6	5434713	G	A	8285	-0.08	0.02	0.00	0.00	21.94
rs4516950	Creatine levels	GCST90200323	6	101095306	G	T	8285	0.07	0.02	0.00	0.00	20.80
rs2781656	Creatine levels	GCST90200323	6	131561431	T	C	8285	0.09	0.02	0.00	0.00	25.38
rs34060476	Creatine levels	GCST90200323	7	73623626	G	A	8285	-0.10	0.02	0.00	0.00	21.45
rs143845801	Creatine levels	GCST90200323	7	84805233	C	G	8285	-0.44	0.09	0.00	0.00	26.69
rs17445209	Creatine levels	GCST90200323	8	126391903	G	A	8285	-0.17	0.04	0.00	0.00	21.87
rs28372141	Creatine levels	GCST90200323	9	81470433	C	T	8285	-0.86	0.17	0.00	0.00	24.19
rs142560218	Creatine levels	GCST90200323	11	66339067	T	C	8285	-0.29	0.06	0.00	0.00	21.62
rs117112755	Creatine levels	GCST90200323	13	34763757	A	G	8285	-0.28	0.06	0.00	0.00	19.75
rs12877168	Creatine levels	GCST90200323	13	65446751	C	A	8285	0.06	0.01	0.00	0.00	20.29
rs142907014	Creatine levels	GCST90200323	14	46702492	C	T	8285	0.21	0.05	0.00	0.00	20.03
rs55746827	Creatine levels	GCST90200323	14	95450513	C	A	8285	0.08	0.02	0.00	0.00	21.13
rs1145086	Creatine levels	GCST90200323	15	45362129	G	A	8285	0.11	0.01	0.00	0.01	54.14
rs977835	Creatine levels	GCST90200323	15	98157689	T	C	8285	-0.12	0.03	0.00	0.00	21.22
rs62043903	Creatine levels	GCST90200323	16	81426059	T	C	8285	0.18	0.04	0.00	0.00	21.52
rs2074184	Creatine levels	GCST90200323	17	13243729	A	G	8285	-0.08	0.02	0.00	0.00	19.99
rs78802404	Creatine levels	GCST90200323	21	41817942	A	T	8285	0.28	0.06	0.00	0.00	20.85
rs12029767	Anthranilate levels	GCST90200324	1	17912168	G	A	5773	0.21	0.05	0.00	0.00	20.21
rs638155	Anthranilate levels	GCST90200324	1	234195047	T	A	5773	0.15	0.03	0.00	0.00	24.31
rs850239	Anthranilate levels	GCST90200324	1	234473943	T	A	5773	-0.09	0.02	0.00	0.00	21.66
rs113391130	Anthranilate levels	GCST90200324	2	9886116	G	A	5773	-0.37	0.08	0.00	0.00	20.75
rs77503991	Anthranilate levels	GCST90200324	2	47841508	T	C	5773	-0.12	0.02	0.00	0.00	23.36
rs4954022	Anthranilate levels	GCST90200324	2	133020416	G	A	5773	-0.10	0.02	0.00	0.00	21.39
rs16858175	Anthranilate levels	GCST90200324	2	142880146	C	T	5773	0.18	0.04	0.00	0.00	20.56
rs72951392	Anthranilate levels	GCST90200324	2	178362880	A	G	5773	-0.24	0.05	0.00	0.00	20.92
rs188235581	Anthranilate levels	GCST90200324	2	197718556	T	C	5773	0.49	0.10	0.00	0.00	22.27
rs114045554	Anthranilate levels	GCST90200324	3	31021306	T	C	5773	0.43	0.09	0.00	0.00	21.65
rs145331393	Anthranilate levels	GCST90200324	3	69649986	A	G	5773	-0.55	0.10	0.00	0.01	29.10
rs6801939	Anthranilate levels	GCST90200324	3	173842172	G	C	5773	0.29	0.06	0.00	0.00	20.62
rs189789743	Anthranilate levels	GCST90200324	4	98522023	G	A	5773	-0.75	0.17	0.00	0.00	19.98
rs11953426	Anthranilate levels	GCST90200324	5	65202010	T	C	5773	0.11	0.02	0.00	0.00	19.69
rs12188472	Anthranilate levels	GCST90200324	5	67824887	T	C	5773	0.12	0.03	0.00	0.00	22.40
rs6914546	Anthranilate levels	GCST90200324	6	5869319	T	C	5773	0.12	0.03	0.00	0.00	19.92
rs4715315	Anthranilate levels	GCST90200324	6	52761093	A	G	5773	0.08	0.02	0.00	0.00	19.85
rs144629700	Anthranilate levels	GCST90200324	6	157195486	T	C	5773	0.21	0.05	0.00	0.00	20.27
rs143692294	Anthranilate levels	GCST90200324	7	102433755	A	G	5773	0.23	0.05	0.00	0.00	20.83
rs138134798	Anthranilate levels	GCST90200324	8	20709989	G	A	5773	0.44	0.09	0.00	0.00	26.48

rs4613992	Anthranilate levels	GCST90200324	8	83667747	C	T	5773	0.15	0.03	0.00	0.00	24.47
rs117759348	Anthranilate levels	GCST90200324	12	106703108	T	C	5773	-0.37	0.08	0.00	0.00	23.83
rs77802035	Anthranilate levels	GCST90200324	13	48724773	T	C	5773	-0.36	0.08	0.00	0.00	20.67
rs72798651	Anthranilate levels	GCST90200324	16	74934346	G	T	5773	-0.15	0.03	0.00	0.00	21.43
rs894502	Anthranilate levels	GCST90200324	17	56534136	G	A	5773	0.10	0.02	0.00	0.00	24.35
rs9912789	Anthranilate levels	GCST90200324	17	81204396	T	C	5773	0.08	0.02	0.00	0.00	20.59
rs11664285	Anthranilate levels	GCST90200324	18	5129080	C	T	5773	-0.15	0.03	0.00	0.00	19.58
rs60143203	Anthranilate levels	GCST90200324	20	56941522	T	A	5773	0.14	0.03	0.00	0.00	20.63
rs4078443	Anthranilate levels	GCST90200324	22	49962907	C	T	5773	0.10	0.02	0.00	0.00	20.55
rs142156573	Glycerol levels	GCST90200325	1	8849188	C	A	8285	-0.26	0.06	0.00	0.00	20.42
rs2596837	Glycerol levels	GCST90200325	3	10786082	C	G	8285	-0.07	0.02	0.00	0.00	22.28
rs56040563	Glycerol levels	GCST90200325	3	132984079	T	C	8285	0.10	0.02	0.00	0.00	19.76
rs61621666	Glycerol levels	GCST90200325	4	38981993	G	A	8285	0.14	0.03	0.00	0.00	20.75
rs12505581	Glycerol levels	GCST90200325	4	152027660	G	A	8285	0.11	0.02	0.00	0.00	21.71
rs7662677	Glycerol levels	GCST90200325	4	181644540	G	A	8285	0.06	0.01	0.00	0.00	20.54
rs115154795	Glycerol levels	GCST90200325	5	14813052	A	G	8285	-0.28	0.06	0.00	0.00	19.87
rs405883	Glycerol levels	GCST90200325	6	89199018	C	G	8285	0.06	0.01	0.00	0.00	20.24
rs59829244	Glycerol levels	GCST90200325	6	148469185	G	A	8285	-0.09	0.02	0.00	0.00	20.07
rs2299257	Glycerol levels	GCST90200325	7	95313453	C	A	8285	0.06	0.01	0.00	0.00	20.36
rs2371397	Glycerol levels	GCST90200325	7	144404409	A	G	8285	-0.06	0.01	0.00	0.00	20.75
rs62493774	Glycerol levels	GCST90200325	8	19189104	A	C	8285	0.09	0.02	0.00	0.00	21.40
rs7070122	Glycerol levels	GCST90200325	10	76937548	G	C	8285	-0.09	0.02	0.00	0.00	21.79
rs148335511	Glycerol levels	GCST90200325	10	123983416	G	A	8285	-0.26	0.06	0.00	0.00	19.82
rs79507970	Glycerol levels	GCST90200325	12	24993537	C	G	8285	0.23	0.05	0.00	0.00	23.25
rs11107955	Glycerol levels	GCST90200325	12	95256176	T	C	8285	-0.11	0.02	0.00	0.00	22.14
rs117536244	Glycerol levels	GCST90200325	14	37392148	C	G	8285	-0.16	0.03	0.00	0.00	22.55
rs1829257	Glycerol levels	GCST90200325	15	24186656	A	G	8285	0.08	0.02	0.00	0.00	20.85
rs13335139	Glycerol levels	GCST90200325	16	19971439	G	A	8285	0.72	0.16	0.00	0.00	19.53
rs112965362	Glycerol levels	GCST90200325	17	51536441	T	A	8285	0.19	0.04	0.00	0.00	19.83
rs7241147	Glycerol levels	GCST90200325	18	61632432	C	G	8285	-0.14	0.03	0.00	0.00	27.60
rs62116851	Glycerol levels	GCST90200325	19	16077000	G	A	8285	-0.11	0.02	0.00	0.00	19.97
rs12162222	Glycerol levels	GCST90200325	19	44845265	T	G	8285	-0.07	0.01	0.00	0.00	20.60
rs34437475	Glycerol levels	GCST90200325	21	26902493	A	G	8285	0.08	0.02	0.00	0.00	22.94
rs2200795	Gamma-glutamylleucine levels	GCST90200326	1	164814601	G	A	8041	-0.08	0.02	0.00	0.00	22.84
rs111409470	Gamma-glutamylleucine levels	GCST90200326	1	222533230	C	T	8041	0.16	0.04	0.00	0.00	19.65
rs10490256	Gamma-glutamylleucine levels	GCST90200326	2	40555911	G	C	8041	0.11	0.03	0.00	0.00	19.91
rs3791978	Gamma-glutamylleucine levels	GCST90200326	2	217849963	C	A	8041	-0.07	0.02	0.00	0.00	22.98
rs146004755	Gamma-glutamylleucine levels	GCST90200326	5	74149125	A	T	8041	-0.55	0.12	0.00	0.00	22.21
rs78078361	Gamma-glutamylleucine levels	GCST90200326	5	153278187	C	G	8041	-0.54	0.12	0.00	0.00	21.05
rs2032852	Gamma-glutamylleucine levels	GCST90200326	5	165429839	T	C	8041	0.08	0.02	0.00	0.00	20.16
rs116960637	Gamma-glutamylleucine levels	GCST90200326	7	3701586	A	G	8041	0.26	0.06	0.00	0.00	20.50
rs17363054	Gamma-glutamylleucine levels	GCST90200326	7	115288165	A	G	8041	0.08	0.02	0.00	0.00	20.11

rs11996316	Gamma-glutamylleucine levels	GCST90200326	8	61859596	G	A	8041	-0.09	0.02	0.00	0.00	22.38
rs16914365	Gamma-glutamylleucine levels	GCST90200326	11	25684719	G	C	8041	0.14	0.03	0.00	0.00	21.86
rs140102715	Gamma-glutamylleucine levels	GCST90200326	11	45667992	A	G	8041	0.32	0.07	0.00	0.00	19.70
rs56184188	Gamma-glutamylleucine levels	GCST90200326	16	83018735	A	G	8041	0.13	0.03	0.00	0.00	20.42
rs112271315	Gamma-glutamylleucine levels	GCST90200326	17	37712966	A	G	8041	0.23	0.05	0.00	0.00	19.52
rs8093078	Gamma-glutamylleucine levels	GCST90200326	18	6651779	T	A	8041	-0.09	0.02	0.00	0.00	19.58
rs118077066	Gamma-glutamylleucine levels	GCST90200326	18	77404239	T	C	8041	0.29	0.06	0.00	0.00	20.31
rs116896027	Gamma-glutamylleucine levels	GCST90200326	21	15595580	A	T	8041	0.27	0.06	0.00	0.00	20.34
rs45590338	Gamma-glutamylleucine levels	GCST90200326	22	36226381	C	G	8041	0.19	0.04	0.00	0.00	19.83
rs72652541	Choline levels	GCST90200327	1	24375025	T	C	8262	-0.19	0.04	0.00	0.00	20.54
rs4657468	Choline levels	GCST90200327	1	165699056	T	G	8262	0.07	0.02	0.00	0.00	20.65
rs1047891	Choline levels	GCST90200327	2	210675783	A	C	8262	-0.09	0.02	0.00	0.00	31.97
rs144202047	Choline levels	GCST90200327	3	145870877	G	A	8262	0.26	0.06	0.00	0.00	20.19
rs11945818	Choline levels	GCST90200327	4	11291151	T	C	8262	-0.08	0.02	0.00	0.00	20.55
rs4976375	Choline levels	GCST90200327	5	135855772	A	G	8262	0.08	0.01	0.00	0.00	27.45
rs115783940	Choline levels	GCST90200327	5	175479923	A	G	8262	-0.25	0.05	0.00	0.00	22.48
rs9372344	Choline levels	GCST90200327	6	112741784	T	C	8262	-0.08	0.02	0.00	0.00	22.18
rs12528228	Choline levels	GCST90200327	6	163862756	A	G	8262	-0.15	0.03	0.00	0.00	20.56
rs118049220	Choline levels	GCST90200327	7	41097060	A	G	8262	-0.20	0.04	0.00	0.00	21.89
rs71560489	Choline levels	GCST90200327	7	75830678	A	G	8262	-0.14	0.03	0.00	0.00	23.91
rs4624945	Choline levels	GCST90200327	7	140676771	C	A	8262	-0.12	0.02	0.00	0.00	21.95
rs138616307	Choline levels	GCST90200327	8	19677891	C	A	8262	-0.36	0.07	0.00	0.00	26.93
rs143120013	Choline levels	GCST90200327	8	118637544	T	G	8262	0.30	0.06	0.00	0.00	24.28
rs1441017	Choline levels	GCST90200327	10	34146522	A	C	8262	0.07	0.02	0.00	0.00	22.14
rs11219092	Choline levels	GCST90200327	11	123260043	T	C	8262	-0.25	0.05	0.00	0.00	21.50
rs1383390	Choline levels	GCST90200327	12	28873761	T	A	8262	-0.10	0.02	0.00	0.00	20.48
rs9300439	Choline levels	GCST90200327	13	97721078	G	T	8262	0.07	0.02	0.00	0.00	21.58
rs547368502	Choline levels	GCST90200327	14	20948136	A	G	8262	-0.22	0.05	0.00	0.00	19.88
rs118077512	Choline levels	GCST90200327	16	21220115	A	G	8262	-0.28	0.06	0.00	0.00	21.97
rs11656215	Choline levels	GCST90200327	17	17549753	T	C	8262	-0.11	0.01	0.00	0.01	60.76
rs116668146	Choline levels	GCST90200327	20	63677476	G	A	8262	0.12	0.03	0.00	0.00	19.89
rs9680576	Choline levels	GCST90200327	22	45462173	T	C	8262	0.13	0.03	0.00	0.00	19.51
rs77245299	3-methoxytyrosine levels	GCST90200328	1	147595859	G	T	8258	-0.23	0.05	0.00	0.00	22.10
rs4665972	3-methoxytyrosine levels	GCST90200328	2	27375230	C	T	8258	0.08	0.01	0.00	0.00	29.15
rs1179712	3-methoxytyrosine levels	GCST90200328	2	216841252	G	C	8258	-0.07	0.02	0.00	0.00	20.60
rs115820723	3-methoxytyrosine levels	GCST90200328	3	125883903	T	C	8258	0.19	0.04	0.00	0.00	25.09
rs10033191	3-methoxytyrosine levels	GCST90200328	4	31369074	A	C	8258	0.10	0.02	0.00	0.00	22.28

rs7719875	3-methoxytyrosine levels	GCST90200328	5	1189973	G	A	8258	0.10	0.01	0.00	0.01	48.29
rs17790436	3-methoxytyrosine levels	GCST90200328	5	82482729	G	A	8258	-0.08	0.02	0.00	0.00	20.24
rs487624	3-methoxytyrosine levels	GCST90200328	6	25879311	A	C	8258	-0.11	0.01	0.00	0.01	51.80
rs551014270	3-methoxytyrosine levels	GCST90200328	7	14661702	T	C	8258	-0.24	0.05	0.00	0.00	19.85
rs73695512	3-methoxytyrosine levels	GCST90200328	7	50520274	G	A	8258	0.49	0.05	0.00	0.01	80.09
rs149898249	3-methoxytyrosine levels	GCST90200328	8	112861455	A	G	8258	0.31	0.07	0.00	0.00	20.40
rs78330554	3-methoxytyrosine levels	GCST90200328	10	1381338	C	T	8258	-0.11	0.02	0.00	0.00	21.18
rs113945618	3-methoxytyrosine levels	GCST90200328	11	2189428	G	A	8258	0.22	0.02	0.00	0.02	157.71
rs145896206	3-methoxytyrosine levels	GCST90200328	11	16069954	T	C	8258	0.13	0.03	0.00	0.00	19.55
rs10505751	3-methoxytyrosine levels	GCST90200328	12	10057112	G	A	8258	-0.11	0.02	0.00	0.00	28.96
rs67981690	3-methoxytyrosine levels	GCST90200328	12	21190952	G	A	8258	-0.11	0.02	0.00	0.00	24.61
rs187015603	3-methoxytyrosine levels	GCST90200328	14	36205997	T	C	8258	-0.31	0.07	0.00	0.00	19.96
rs7141433	3-methoxytyrosine levels	GCST90200328	14	54869559	T	C	8258	-0.16	0.02	0.00	0.01	49.42
rs408253	3-methoxytyrosine levels	GCST90200328	16	85741148	G	A	8258	-0.07	0.02	0.00	0.00	19.53
rs1344546	3-methoxytyrosine levels	GCST90200328	17	55256027	A	G	8258	-0.07	0.01	0.00	0.00	24.95
rs138935386	3-methoxytyrosine levels	GCST90200328	17	68086291	A	G	8258	-0.26	0.06	0.00	0.00	19.57
rs2052854	3-methoxytyrosine levels	GCST90200328	19	48062780	C	T	8258	-0.08	0.02	0.00	0.00	24.67
rs45563841	3-methoxytyrosine levels	GCST90200328	20	63357986	A	G	8258	-0.19	0.04	0.00	0.00	21.21
rs4680	3-methoxytyrosine levels	GCST90200328	22	19963748	A	G	8258	-0.09	0.01	0.00	0.01	42.87
rs7528963	3-phosphoglycerate levels	GCST90200329	1	62820576	G	A	8196	-0.09	0.02	0.00	0.00	20.39
rs114235998	3-phosphoglycerate levels	GCST90200329	1	119245156	A	T	8196	0.15	0.03	0.00	0.00	19.71
rs75258258	3-phosphoglycerate levels	GCST90200329	1	181473194	C	A	8196	-0.08	0.02	0.00	0.00	21.63
rs112020944	3-phosphoglycerate levels	GCST90200329	1	191533032	C	T	8196	-0.32	0.07	0.00	0.00	20.59
rs11903996	3-phosphoglycerate levels	GCST90200329	2	162946994	A	C	8196	-0.15	0.03	0.00	0.00	19.95

rs1354034	3-phosphoglycerate levels	GCST90200329	3	56815721	C	T	8196	0.08	0.02	0.00	0.00	23.42
rs555052	3-phosphoglycerate levels	GCST90200329	3	74276475	C	T	8196	0.07	0.02	0.00	0.00	19.77
rs17279471	3-phosphoglycerate levels	GCST90200329	7	17038584	A	T	8196	-0.08	0.02	0.00	0.00	24.00
rs62488266	3-phosphoglycerate levels	GCST90200329	7	113712411	A	T	8196	-0.21	0.04	0.00	0.00	24.87
rs7778085	3-phosphoglycerate levels	GCST90200329	7	129645555	A	G	8196	-0.13	0.03	0.00	0.00	22.38
rs72668507	3-phosphoglycerate levels	GCST90200329	8	68751105	A	C	8196	0.14	0.03	0.00	0.00	22.39
rs10761980	3-phosphoglycerate levels	GCST90200329	10	65443381	A	G	8196	-0.11	0.02	0.00	0.00	21.00
rs79970697	3-phosphoglycerate levels	GCST90200329	10	121064629	C	A	8196	-0.24	0.05	0.00	0.00	23.28
rs7938467	3-phosphoglycerate levels	GCST90200329	11	27481128	G	C	8196	0.07	0.02	0.00	0.00	21.59
rs200221	3-phosphoglycerate levels	GCST90200329	13	50386041	G	A	8196	0.23	0.05	0.00	0.00	19.77
rs1384963	3-phosphoglycerate levels	GCST90200329	14	22501343	T	C	8196	-0.08	0.02	0.00	0.00	19.87
rs113464900	3-phosphoglycerate levels	GCST90200329	15	89425268	G	A	8196	0.10	0.02	0.00	0.00	21.46
rs150477495	3-phosphoglycerate levels	GCST90200329	17	31546197	T	C	8196	0.33	0.07	0.00	0.00	20.37
rs62078793	3-phosphoglycerate levels	GCST90200329	17	44553352	A	G	8196	-0.11	0.02	0.00	0.00	19.56
rs144460129	3-phosphoglycerate levels	GCST90200329	17	59721334	A	G	8196	-0.33	0.07	0.00	0.00	22.65
rs117629373	3-phosphoglycerate levels	GCST90200329	19	30865086	A	G	8196	-0.25	0.05	0.00	0.00	22.56
rs182631758	3-phosphoglycerate levels	GCST90200329	19	55396794	C	A	8196	0.33	0.07	0.00	0.00	19.94
rs6051418	3-phosphoglycerate levels	GCST90200329	20	2821401	T	G	8196	-0.32	0.07	0.00	0.00	22.60
rs6025931	3-phosphoglycerate levels	GCST90200329	20	57959604	C	A	8196	-0.08	0.02	0.00	0.00	26.12
rs117097035	3-phosphoglycerate levels	GCST90200329	21	21787098	T	C	8196	-0.21	0.05	0.00	0.00	19.80
rs1168041	1-palmitoyl-2-linoleoyl-gpc levels	GCST90200330	1	62494579	C	T	8230	0.11	0.02	0.00	0.01	41.39
rs140385009	1-palmitoyl-2-linoleoyl-gpc levels	GCST90200330	1	166120409	A	G	8230	-0.27	0.06	0.00	0.00	19.84
rs858799	1-palmitoyl-2-linoleoyl-gpc levels	GCST90200330	1	166797112	C	T	8230	-0.21	0.05	0.00	0.00	20.46

rs4665715	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	2	21336804	A	G	8230	0.08	0.02	0.00	0.00	20.24
rs79026325	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	2	151619214	T	C	8230	0.39	0.09	0.00	0.00	20.32
rs1878566	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	2	212600611	G	A	8230	0.10	0.02	0.00	0.00	20.34
rs74870204	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	3	79234420	A	G	8230	-0.16	0.03	0.00	0.00	21.76
rs4711777	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	6	44186588	T	C	8230	-0.08	0.02	0.00	0.00	20.52
rs9353721	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	6	90384011	A	G	8230	0.12	0.03	0.00	0.00	20.40
rs73032261	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	6	162082337	A	C	8230	-0.10	0.02	0.00	0.00	26.65
rs12544703	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	8	58397865	G	A	8230	-0.10	0.02	0.00	0.00	24.51
rs55912803	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	9	3130815	A	G	8230	0.20	0.04	0.00	0.00	20.11
rs13295729	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	9	114178209	T	C	8230	0.14	0.03	0.00	0.00	21.58
rs62578597	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	9	132530573	T	C	8230	-0.09	0.02	0.00	0.00	19.57
rs61861308	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	10	58823824	T	C	8230	0.13	0.03	0.00	0.00	20.83
rs2018783	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	10	60256024	A	G	8230	0.07	0.02	0.00	0.00	21.50
rs57015719	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	10	119427980	A	G	8230	-0.25	0.06	0.00	0.00	20.06
rs174564	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	11	61820833	G	A	8230	0.28	0.02	0.00	0.04	307.23
rs14913663 7	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	11	79741748	A	T	8230	0.31	0.07	0.00	0.00	21.47
rs2240760	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	12	4685185	G	A	8230	-0.08	0.02	0.00	0.00	19.56
rs11417759 4	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	12	130868241	C	T	8230	-0.27	0.06	0.00	0.00	22.84

rs77660324	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	12	132576118	C	T	8230	-0.38	0.09	0.00	0.00	19.88
rs9562025	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	13	96101376	G	A	8230	-0.07	0.02	0.00	0.00	19.91
rs111765708	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	13	110505153	G	A	8230	-0.26	0.06	0.00	0.00	22.06
rs7142686	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	14	44152752	G	A	8230	0.13	0.03	0.00	0.00	21.68
rs261290	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	15	58386521	C	T	8230	-0.08	0.02	0.00	0.00	23.80
rs4500751	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	16	15046354	T	C	8230	0.09	0.02	0.00	0.00	33.54
rs173539	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	16	56954132	T	C	8230	0.09	0.02	0.00	0.00	31.83
rs140615168	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	17	41054700	T	C	8230	-0.30	0.07	0.00	0.00	19.77
rs9963514	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	18	67636725	A	G	8230	0.16	0.04	0.00	0.00	20.51
rs139690031	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	19	22678826	T	C	8230	-0.29	0.07	0.00	0.00	19.79
rs13039698	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	20	44071720	A	G	8230	0.11	0.02	0.00	0.00	20.79
rs147816457	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	21	23278054	C	A	8230	-0.37	0.08	0.00	0.00	21.50
rs9607482	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	22	21986746	C	G	8230	-0.15	0.03	0.00	0.00	19.59
rs6004644	1-palmitoyl-2-linoleoyl-gpc (16:0/18:2) levels	GCST90200330	22	25422864	C	T	8230	-0.16	0.04	0.00	0.00	21.54
rs12033230	oleoyl-GPE (16:0/18:1) levels	GCST90200331	1	15236377	A	G	8262	-0.08	0.02	0.00	0.00	20.02
rs11263985	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	1	37129044	T	C	8262	-0.08	0.02	0.00	0.00	19.88
rs11586345	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	1	241028169	A	G	8262	-0.24	0.04	0.00	0.00	32.02
rs200981432	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	2	12629745	G	A	8262	0.27	0.06	0.00	0.00	20.99

rs780093	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	2	27519736	C	T	8262	-0.09	0.02	0.00	0.00	31.65
rs13382655	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	2	43264911	A	G	8262	0.25	0.05	0.00	0.00	28.73
rs75611541	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	2	187136894	G	A	8262	-0.46	0.10	0.00	0.00	19.85
rs13081352	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	3	136222574	A	C	8262	-0.11	0.02	0.00	0.00	20.72
rs12638256	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	3	142936448	G	A	8262	0.12	0.02	0.00	0.01	57.73
rs145113914	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	4	107805090	C	T	8262	0.26	0.06	0.00	0.00	19.91
rs74570883	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	5	51950181	A	C	8262	-0.24	0.05	0.00	0.00	20.01
rs12193772	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	6	52059765	T	C	8262	0.26	0.06	0.00	0.00	21.91
rs13208413	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	6	86346327	T	C	8262	0.13	0.03	0.00	0.00	21.67
rs9455500	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	6	167771043	A	G	8262	-0.08	0.02	0.00	0.00	22.75
rs34447150	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	8	14887029	C	T	8262	0.13	0.03	0.00	0.00	20.76
rs79278977	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	8	94215352	T	C	8262	0.31	0.07	0.00	0.00	20.63
rs17248848	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	8	106209851	A	G	8262	-0.21	0.05	0.00	0.00	20.77
rs12685522	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	9	14786964	C	T	8262	0.07	0.02	0.00	0.00	21.41
rs10828184	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	10	21080075	A	T	8262	0.12	0.02	0.00	0.00	24.06
rs72965369	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	11	21814496	C	T	8262	-0.15	0.03	0.00	0.00	25.36
rs174564	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	11	61820833	G	A	8262	0.11	0.02	0.00	0.01	42.61
rs695112	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	11	75745535	T	A	8262	0.10	0.02	0.00	0.00	24.16

rs964184	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	11	116778201	C	G	8262	-0.15	0.02	0.00	0.01	44.18
rs5005275	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	11	131968353	G	A	8262	0.16	0.03	0.00	0.00	23.25
rs145326144	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	15	44644381	C	T	8262	0.27	0.05	0.00	0.00	28.84
rs34663616	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	15	58277131	A	C	8262	0.11	0.02	0.00	0.00	26.17
rs10468017	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	15	58386313	T	C	8262	0.32	0.02	0.00	0.04	374.92
rs633695	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	15	58433640	G	A	8262	0.22	0.02	0.00	0.02	166.50
rs72799043	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	16	76515834	C	T	8262	-0.17	0.04	0.00	0.00	19.78
rs59007384	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	19	44893408	T	G	8262	0.09	0.02	0.00	0.00	21.55
rs117143142	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	20	42464994	A	G	8262	-0.32	0.07	0.00	0.00	20.93
rs73194667	1-palmitoyl-2-oleoyl-GPE (16:0/18:1) levels	GCST90200331	21	18347104	A	C	8262	-0.11	0.02	0.00	0.00	19.98
rs12239737	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	1	62620330	A	T	8115	-0.10	0.02	0.00	0.00	34.39
rs143221246	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	1	98534606	C	T	8115	-0.27	0.05	0.00	0.00	24.01
rs554067	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	1	243994344	A	G	8115	-0.11	0.02	0.00	0.00	22.34
rs10197694	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	2	144407099	C	T	8115	0.07	0.02	0.00	0.00	21.70
rs113703749	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	2	166203672	T	G	8115	0.29	0.06	0.00	0.00	20.60
rs144800978	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	4	181743597	A	G	8115	0.33	0.07	0.00	0.00	20.03
rs390035	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	5	41267226	C	T	8115	0.08	0.02	0.00	0.00	21.89
rs17119241	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	5	140840654	T	A	8115	0.10	0.02	0.00	0.00	22.06

rs3134939	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	6	32201844	A	T	8115	-0.09	0.02	0.00	0.00	34.07
rs28497741	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	6	34294727	G	A	8115	-0.46	0.10	0.00	0.00	21.65
rs641971	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	6	157752721	G	A	8115	-0.08	0.02	0.00	0.00	19.78
rs19278792 1	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	7	24319511	T	C	8115	0.54	0.11	0.00	0.00	22.96
rs78519165	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	7	103891124	T	C	8115	0.27	0.06	0.00	0.00	20.93
rs14141823 7	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	10	12345904	A	G	8115	0.19	0.04	0.00	0.00	20.07
rs75917318	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	10	107095051	C	G	8115	-0.12	0.03	0.00	0.00	21.65
rs2045700	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	11	37225035	C	T	8115	0.08	0.02	0.00	0.00	21.36
rs174564	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	11	61820833	G	A	8115	0.18	0.02	0.00	0.02	128.28
rs2701180	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	12	121014063	T	C	8115	0.07	0.02	0.00	0.00	21.16
rs6491411	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	13	98252314	A	T	8115	-0.10	0.02	0.00	0.00	21.34
rs10468017	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	15	58386313	T	C	8115	0.08	0.02	0.00	0.00	21.13
rs56043834	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	19	40825244	T	C	8115	-0.09	0.02	0.00	0.00	19.56
rs7412	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	19	44908822	T	C	8115	0.16	0.03	0.00	0.00	31.03
rs8736	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	19	54173495	C	T	8115	-0.20	0.02	0.00	0.02	161.47
rs6133675	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	20	991319	T	G	8115	0.13	0.03	0.00	0.00	21.32
rs2424708	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2) levels	GCST90200332	20	25300762	T	C	8115	0.09	0.02	0.00	0.00	36.54
rs75856230	Taurocholic acid levels	GCST90200333	1	8925891	T	C	7743	0.14	0.03	0.00	0.00	20.78
rs10204814	Taurocholic acid levels	GCST90200333	2	230674589	T	C	7743	0.08	0.02	0.00	0.00	20.09
rs56326229	Taurocholic acid levels	GCST90200333	3	8682084	C	G	7743	0.31	0.06	0.00	0.00	23.06

rs191245370	Taurocholic acid levels	GCST90200333	3	134416433	C	T	7743	-0.25	0.05	0.00	0.00	24.14
rs72960519	Taurocholic acid levels	GCST90200333	4	160400285	G	A	7743	0.10	0.02	0.00	0.00	24.53
rs7714690	Taurocholic acid levels	GCST90200333	5	36472417	C	T	7743	0.09	0.02	0.00	0.00	21.06
rs335170	Taurocholic acid levels	GCST90200333	5	123146549	C	A	7743	-0.08	0.02	0.00	0.00	21.54
rs112156304	Taurocholic acid levels	GCST90200333	6	69642607	T	C	7743	0.17	0.03	0.00	0.00	24.72
rs150033131	Taurocholic acid levels	GCST90200333	6	102980285	G	C	7743	0.43	0.10	0.00	0.00	20.11
rs2046973	Taurocholic acid levels	GCST90200333	7	128750089	C	G	7743	0.15	0.03	0.00	0.00	22.01
rs10952376	Taurocholic acid levels	GCST90200333	7	152962972	A	C	7743	0.09	0.02	0.00	0.00	25.36
rs112929420	Taurocholic acid levels	GCST90200333	8	8848917	T	A	7743	0.17	0.04	0.00	0.00	19.62
rs4739015	Taurocholic acid levels	GCST90200333	8	54589619	A	T	7743	0.17	0.04	0.00	0.00	21.52
rs141105780	Taurocholic acid levels	GCST90200333	11	61178427	G	T	7743	0.35	0.08	0.00	0.00	21.30
rs10848050	Taurocholic acid levels	GCST90200333	12	130242234	G	A	7743	-0.08	0.02	0.00	0.00	21.03
rs7987688	Taurocholic acid levels	GCST90200333	13	30223621	G	A	7743	-0.09	0.02	0.00	0.00	20.32
rs8036635	Taurocholic acid levels	GCST90200333	15	67953150	G	T	7743	0.10	0.02	0.00	0.00	19.94
rs2933555	Taurocholic acid levels	GCST90200333	16	62613050	G	A	7743	0.08	0.02	0.00	0.00	21.81
rs76149982	Taurocholic acid levels	GCST90200333	17	10808360	A	C	7743	-0.15	0.03	0.00	0.00	24.82
rs141870697	Taurocholic acid levels	GCST90200333	17	30784095	A	G	7743	0.30	0.07	0.00	0.00	19.79
rs2878884	Taurocholic acid levels	GCST90200333	18	48735385	C	T	7743	-0.12	0.03	0.00	0.00	19.80
rs12460888	Taurocholic acid levels	GCST90200333	19	29772568	A	C	7743	-0.10	0.02	0.00	0.00	20.21
rs73532962	Taurocholic acid levels	GCST90200333	19	30105210	A	G	7743	0.21	0.05	0.00	0.00	19.64
rs117409421	Taurocholic acid levels	GCST90200333	19	52505874	G	A	7743	-0.20	0.05	0.00	0.00	20.60
rs8120082	Taurocholic acid levels	GCST90200333	20	31852196	G	A	7743	-0.18	0.04	0.00	0.00	24.64
rs913967	Taurocholic acid levels	GCST90200333	20	37681614	C	T	7743	0.28	0.06	0.00	0.00	21.27
rs2426643	Taurocholic acid levels	GCST90200333	20	56717423	G	A	7743	-0.09	0.02	0.00	0.00	28.66
rs34520316	Taurodeoxycholate levels	GCST90200334	1	1902679	A	T	7287	-0.23	0.05	0.00	0.00	20.57
rs11118991	Taurodeoxycholate levels	GCST90200334	1	208126783	T	C	7287	-0.09	0.02	0.00	0.00	21.08
rs115240947	Taurodeoxycholate levels	GCST90200334	1	233910630	C	T	7287	0.16	0.03	0.00	0.00	21.59
rs146174820	Taurodeoxycholate levels	GCST90200334	2	68387100	A	G	7287	-0.27	0.06	0.00	0.00	20.19
rs561141837	Taurodeoxycholate levels	GCST90200334	2	108660664	T	C	7287	-0.44	0.10	0.00	0.00	20.40
rs17275803	Taurodeoxycholate levels	GCST90200334	2	188749683	T	C	7287	0.20	0.04	0.00	0.00	23.54
rs7624084	Taurodeoxycholate levels	GCST90200334	3	141374443	C	T	7287	-0.07	0.02	0.00	0.00	20.16
rs191378379	Taurodeoxycholate levels	GCST90200334	4	6527093	A	G	7287	-0.36	0.08	0.00	0.00	21.51
rs62304746	Taurodeoxycholate levels	GCST90200334	4	89253095	A	C	7287	-0.18	0.04	0.00	0.00	20.62
rs80078071	Taurodeoxycholate levels	GCST90200334	4	180100099	A	G	7287	0.10	0.02	0.00	0.00	22.41
rs138222210	Taurodeoxycholate levels	GCST90200334	5	40524371	T	A	7287	-0.34	0.08	0.00	0.00	20.15
rs6868187	Taurodeoxycholate levels	GCST90200334	5	178284740	G	A	7287	0.22	0.05	0.00	0.00	24.58
rs760767	Taurodeoxycholate levels	GCST90200334	6	14010288	T	C	7287	0.08	0.02	0.00	0.00	20.52

rs10229386	Taurodeoxycholate levels	GCST90200334	7	43204423	T	G	7287	-0.21	0.04	0.00	0.00	24.32
rs4731512	Taurodeoxycholate levels	GCST90200334	7	128733480	A	G	7287	0.17	0.04	0.00	0.00	22.55
rs7387343	Taurodeoxycholate levels	GCST90200334	8	143201201	C	G	7287	-0.09	0.02	0.00	0.00	20.04
rs7046339	Taurodeoxycholate levels	GCST90200334	9	98885841	A	G	7287	-0.08	0.02	0.00	0.00	19.53
rs144169319	Taurodeoxycholate levels	GCST90200334	10	32858835	C	T	7287	-0.31	0.07	0.00	0.00	20.34
rs11004887	Taurodeoxycholate levels	GCST90200334	10	55476517	C	A	7287	-0.13	0.03	0.00	0.00	22.01
rs2944489	Taurodeoxycholate levels	GCST90200334	10	131212568	A	G	7287	-0.19	0.04	0.00	0.00	19.82
rs145613406	Taurodeoxycholate levels	GCST90200334	12	94727594	G	A	7287	0.27	0.06	0.00	0.00	20.13
rs117854331	Taurodeoxycholate levels	GCST90200334	13	81655765	A	C	7287	-0.20	0.04	0.00	0.00	20.52
rs77090629	Taurodeoxycholate levels	GCST90200334	21	18012724	T	C	7287	-0.40	0.09	0.00	0.00	20.47
rs2794324	sphingomyelin (d18:1/18:0) levels	GCST90200335	1	3535804	C	G	8258	-0.23	0.05	0.00	0.00	21.25
rs113807400	sphingomyelin (d18:1/18:0) levels	GCST90200335	1	21966292	C	T	8258	0.14	0.03	0.00	0.00	21.21
rs17114133	sphingomyelin (d18:1/18:0) levels	GCST90200335	1	56591418	T	C	8258	-0.24	0.05	0.00	0.00	23.62
rs17123032	sphingomyelin (d18:1/18:0) levels	GCST90200335	1	62058359	A	G	8258	-0.19	0.04	0.00	0.00	19.81
rs3895559	sphingomyelin (d18:1/18:0) levels	GCST90200335	1	109270398	A	G	8258	0.07	0.02	0.00	0.00	22.38
rs146159084	sphingomyelin (d18:1/18:0) levels	GCST90200335	1	168653352	A	G	8258	-0.35	0.07	0.00	0.00	21.83
rs16846237	sphingomyelin (d18:1/18:0) levels	GCST90200335	1	200175720	A	G	8258	0.41	0.09	0.00	0.00	20.31
rs11122398	sphingomyelin (d18:1/18:0) levels	GCST90200335	1	232043712	C	T	8258	0.19	0.04	0.00	0.00	20.28
rs13419910	sphingomyelin (d18:1/18:0) levels	GCST90200335	2	5699554	G	A	8258	-0.07	0.02	0.00	0.00	19.62
rs188389015	sphingomyelin (d18:1/18:0) levels	GCST90200335	3	39310633	C	G	8258	-0.41	0.09	0.00	0.00	21.87
rs9846165	sphingomyelin (d18:1/18:0) levels	GCST90200335	3	68925401	C	T	8258	-0.09	0.02	0.00	0.00	29.11
rs11930021	sphingomyelin (d18:1/18:0) levels	GCST90200335	4	31676327	A	C	8258	-0.07	0.02	0.00	0.00	19.73
rs2297983	sphingomyelin (d18:1/18:0) levels	GCST90200335	6	54320891	T	G	8258	0.07	0.01	0.00	0.00	19.66

rs55730499	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	6	160584578	T	C	8258	0.16	0.03	0.00	0.00	29.23
rs76572147	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	7	91558598	T	C	8258	-0.48	0.09	0.00	0.00	28.63
rs11989411	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	8	8533707	A	G	8258	0.09	0.02	0.00	0.00	25.50
rs14183858 8	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	8	112611547	C	T	8258	-0.17	0.03	0.00	0.00	34.39
rs13988941 1	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	9	16659254	A	G	8258	-0.30	0.07	0.00	0.00	19.91
rs75431233	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	9	92019612	A	G	8258	-0.23	0.05	0.00	0.00	23.77
rs7871183	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	9	121594300	T	C	8258	-0.32	0.07	0.00	0.00	23.47
rs174604	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	11	61858798	G	C	8258	-0.10	0.02	0.00	0.00	37.38
rs14452862 4	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	12	49289066	T	C	8258	-0.26	0.05	0.00	0.00	27.39
rs11698796 4	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	12	92892438	C	T	8258	-0.27	0.06	0.00	0.00	20.86
rs76300790	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	12	111964865	T	A	8258	0.10	0.02	0.00	0.00	24.03
rs7135337	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	12	120966352	C	A	8258	0.08	0.02	0.00	0.00	27.69
rs11811876 5	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	14	37447534	G	A	8258	-0.31	0.06	0.00	0.00	22.82
rs17101394	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	14	63765668	A	G	8258	0.18	0.02	0.00	0.01	79.63
rs11743595 2	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	14	77261768	A	G	8258	-0.15	0.03	0.00	0.00	19.96
rs4787181	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	16	8334290	G	C	8258	-0.11	0.03	0.00	0.00	19.64
rs1466448	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	19	8224635	A	C	8258	0.23	0.02	0.00	0.02	149.73
rs7260306	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	19	11160874	T	G	8258	-0.07	0.02	0.00	0.00	20.78

rs445925	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	19	44912383	A	G	8258	-0.15	0.02	0.00	0.00	36.30
rs35193317	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	19	44967087	T	C	8258	0.07	0.02	0.00	0.00	21.24
rs168622	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	20	12985441	G	T	8258	-0.09	0.02	0.00	0.00	35.88
rs78831353	Stearoyl sphingomyelin (d18:1/18:0) levels	GCST90200335	21	43302097	C	T	8258	-0.25	0.05	0.00	0.00	21.85
rs1168041	Ceramide (d18:1/16:0) levels	GCST90200336	1	62494579	C	T	8266	0.08	0.02	0.00	0.00	25.71
rs11405458 6	Ceramide (d18:1/16:0) levels	GCST90200336	2	5867174	A	C	8266	0.28	0.06	0.00	0.00	19.57
rs700949	Ceramide (d18:1/16:0) levels	GCST90200336	2	7693542	C	G	8266	-0.07	0.02	0.00	0.00	20.45
rs11201544 9	Ceramide (d18:1/16:0) levels	GCST90200336	3	42683906	A	G	8266	-0.14	0.03	0.00	0.00	21.87
rs7636303	Ceramide (d18:1/16:0) levels	GCST90200336	3	140302564	C	T	8266	0.07	0.02	0.00	0.00	20.86
rs72814876	Ceramide (d18:1/16:0) levels	GCST90200336	5	109938111	T	C	8266	-0.17	0.04	0.00	0.00	21.70
rs72867545	Ceramide (d18:1/16:0) levels	GCST90200336	6	43134488	G	A	8266	-0.09	0.02	0.00	0.00	19.64
rs77104570	Ceramide (d18:1/16:0) levels	GCST90200336	6	96062096	A	G	8266	0.17	0.04	0.00	0.00	22.69
rs15004128 1	Ceramide (d18:1/16:0) levels	GCST90200336	6	129407275	G	C	8266	0.28	0.06	0.00	0.00	22.09
rs18812514 2	Ceramide (d18:1/16:0) levels	GCST90200336	7	52312772	T	C	8266	0.37	0.08	0.00	0.00	22.20
rs11753296 7	Ceramide (d18:1/16:0) levels	GCST90200336	8	28825190	C	T	8266	0.18	0.04	0.00	0.00	20.29
rs14183858 8	Ceramide (d18:1/16:0) levels	GCST90200336	8	112611547	C	T	8266	-0.14	0.03	0.00	0.00	20.57
rs76895855	Ceramide (d18:1/16:0) levels	GCST90200336	9	89599167	G	C	8266	-0.39	0.08	0.00	0.00	24.05
rs14868578 9	Ceramide (d18:1/16:0) levels	GCST90200336	11	26494557	A	G	8266	-0.26	0.05	0.00	0.00	26.39
rs11601631	Ceramide (d18:1/16:0) levels	GCST90200336	11	50142808	A	G	8266	-0.08	0.02	0.00	0.00	22.21
rs964184	Ceramide (d18:1/16:0) levels	GCST90200336	11	116778201	C	G	8266	-0.13	0.02	0.00	0.00	33.99
rs7398567	Ceramide (d18:1/16:0) levels	GCST90200336	12	50157375	A	G	8266	-0.08	0.02	0.00	0.00	23.95
rs77519877	Ceramide (d18:1/16:0) levels	GCST90200336	12	68050888	C	T	8266	0.10	0.02	0.00	0.00	21.90
rs9518568	Ceramide (d18:1/16:0) levels	GCST90200336	13	101812735	T	C	8266	-0.08	0.02	0.00	0.00	19.90

rs7320739	Ceramide (d18:1/16:0) levels	GCST90200336	13	106285700	G	T	8266	-0.10	0.02	0.00	0.00	21.38
rs76652113	Ceramide (d18:1/16:0) levels	GCST90200336	14	55539840	A	G	8266	-0.19	0.04	0.00	0.00	24.06
rs4965335	Ceramide (d18:1/16:0) levels	GCST90200336	15	100780411	A	G	8266	0.11	0.02	0.00	0.00	19.52
rs11655347	Ceramide (d18:1/16:0) levels	GCST90200336	17	12628834	G	A	8266	-0.07	0.02	0.00	0.00	20.67
rs75081768	Ceramide (d18:1/16:0) levels	GCST90200336	17	57713167	T	G	8266	0.10	0.02	0.00	0.00	20.69
rs6506246	Ceramide (d18:1/16:0) levels	GCST90200336	18	4756388	A	G	8266	0.22	0.05	0.00	0.00	22.31
rs12961923	Ceramide (d18:1/16:0) levels	GCST90200336	18	57635037	A	G	8266	-0.07	0.02	0.00	0.00	20.47
rs16986570	Ceramide (d18:1/16:0) levels	GCST90200336	21	30311245	T	C	8266	0.27	0.06	0.00	0.00	21.14
rs75856230	Taurochenode oxycholate levels	GCST90200337	1	8925891	T	C	8048	0.15	0.03	0.00	0.00	24.81
rs12758529	Taurochenode oxycholate levels	GCST90200337	1	66463397	C	T	8048	-0.08	0.02	0.00	0.00	22.78
rs11415021 7	Taurochenode oxycholate levels	GCST90200337	1	199225571	T	C	8048	-0.25	0.05	0.00	0.00	23.28
rs11524094 7	Taurochenode oxycholate levels	GCST90200337	1	233910630	C	T	8048	0.15	0.03	0.00	0.00	21.89
rs4667669	Taurochenode oxycholate levels	GCST90200337	2	170980511	A	G	8048	-0.54	0.12	0.00	0.00	20.17
rs11602657 4	Taurochenode oxycholate levels	GCST90200337	3	104178315	T	C	8048	0.23	0.05	0.00	0.00	20.48
rs62259485	Taurochenode oxycholate levels	GCST90200337	3	104263009	A	G	8048	-0.15	0.03	0.00	0.00	22.77
rs11200678 3	Taurochenode oxycholate levels	GCST90200337	5	64675647	T	G	8048	0.15	0.03	0.00	0.00	25.47
rs806386	Taurochenode oxycholate levels	GCST90200337	6	57213016	T	A	8048	0.15	0.03	0.00	0.00	20.28
rs11215630 4	Taurochenode oxycholate levels	GCST90200337	6	69642607	T	C	8048	0.15	0.03	0.00	0.00	21.28
rs72662576	Taurochenode oxycholate levels	GCST90200337	8	90839805	A	G	8048	-0.16	0.04	0.00	0.00	19.99
rs62550921	Taurochenode oxycholate levels	GCST90200337	9	16085484	A	G	8048	0.24	0.05	0.00	0.00	21.61
rs11691613 3	Taurochenode oxycholate levels	GCST90200337	10	127918736	A	G	8048	0.29	0.06	0.00	0.00	21.23
rs1945774	Taurochenode oxycholate levels	GCST90200337	11	20643858	T	C	8048	0.08	0.02	0.00	0.00	19.64
rs75674989	Taurochenode oxycholate levels	GCST90200337	12	94226656	T	G	8048	0.19	0.04	0.00	0.00	19.62
rs14260846 6	Taurochenode oxycholate levels	GCST90200337	13	99675887	T	C	8048	0.32	0.07	0.00	0.00	19.87

rs11626929	Taurochenode												
	oxycholate levels	GCST90200337	14	24407031	T	C	8048	0.07	0.02	0.00	0.00	20.59	
rs76149982	Taurochenode												
	oxycholate levels	GCST90200337	17	10808360	A	C	8048	-0.15	0.03	0.00	0.00	25.79	
rs292450	Taurochenode												
	oxycholate levels	GCST90200337	18	58225985	T	C	8048	-0.09	0.02	0.00	0.00	26.54	
rs1294031	4-												
	hydroxypheny acetate levels	GCST90200338	1	9301115	T	C	7906	-0.14	0.03	0.00	0.00	24.79	
rs116199731	4-												
	hydroxypheny acetate levels	GCST90200338	1	67034716	A	C	7906	-0.31	0.06	0.00	0.00	28.09	
rs111510535	4-												
	hydroxypheny acetate levels	GCST90200338	2	11845725	A	G	7906	-0.08	0.02	0.00	0.00	21.07	
rs10934750	4-												
	hydroxypheny acetate levels	GCST90200338	3	126149553	A	T	7906	0.07	0.02	0.00	0.00	19.54	
rs68162400	4-												
	hydroxypheny acetate levels	GCST90200338	3	151798401	G	T	7906	0.09	0.02	0.00	0.00	21.08	
rs77839014	4-												
	hydroxypheny acetate levels	GCST90200338	3	182939398	A	T	7906	0.27	0.06	0.00	0.00	20.36	
rs4686760	4-												
	hydroxypheny acetate levels	GCST90200338	3	184796825	A	G	7906	0.07	0.02	0.00	0.00	23.11	
rs4438875	4-												
	hydroxypheny acetate levels	GCST90200338	5	12991227	A	C	7906	0.18	0.03	0.00	0.00	29.85	
rs184549942	4-												
	hydroxypheny acetate levels	GCST90200338	5	129729920	A	C	7906	0.77	0.17	0.00	0.00	21.59	
rs112349090	4-												
	hydroxypheny acetate levels	GCST90200338	6	760477	A	G	7906	0.32	0.07	0.00	0.00	22.76	
rs72844672	4-												
	hydroxypheny acetate levels	GCST90200338	6	3454006	C	T	7906	0.33	0.07	0.00	0.00	19.78	
rs114774963	4-												
	hydroxypheny acetate levels	GCST90200338	6	49925134	A	G	7906	-0.16	0.03	0.00	0.00	24.54	
rs78060664	4-												
	hydroxypheny acetate levels	GCST90200338	7	80477496	G	A	7906	-0.18	0.04	0.00	0.00	19.75	
rs117410676	4-												
	hydroxypheny acetate levels	GCST90200338	7	91285446	T	C	7906	0.39	0.09	0.00	0.00	20.68	
rs7850788	4-												
	hydroxypheny acetate levels	GCST90200338	9	101968541	G	T	7906	0.20	0.04	0.00	0.00	21.11	
rs118127398	4-												
	hydroxypheny acetate levels	GCST90200338	11	40793378	A	G	7906	0.20	0.05	0.00	0.00	19.91	
rs516253	4-												
	hydroxypheny acetate levels	GCST90200338	11	133217548	C	T	7906	0.08	0.02	0.00	0.00	20.71	
rs148506064	4-												
	hydroxypheny acetate levels	GCST90200338	15	25416859	C	T	7906	-0.27	0.06	0.00	0.00	22.12	
rs4924442	4-												
	hydroxypheny acetate levels	GCST90200338	15	40275127	G	C	7906	-0.19	0.04	0.00	0.00	21.76	
rs117594840	4-												
	hydroxypheny acetate levels	GCST90200338	16	11991733	T	C	7906	0.13	0.03	0.00	0.00	19.61	
rs11866855	4-												
	hydroxypheny acetate levels	GCST90200338	16	26568816	A	G	7906	-0.08	0.02	0.00	0.00	19.56	

rs77296624	4-hydroxyphenyl acetate levels	GCST90200338	18	37790038	G	T	7906	0.12	0.03	0.00	0.00	19.53
rs12974461	4-hydroxyphenyl acetate levels	GCST90200338	19	13756204	G	C	7906	-0.23	0.05	0.00	0.00	22.47
rs116770801	4-hydroxyphenyl acetate levels	GCST90200338	20	83326	G	A	7906	0.27	0.06	0.00	0.00	20.26
rs10753544	5,6-dihydrothymin e levels	GCST90200339	1	22764780	C	T	8219	0.07	0.02	0.00	0.00	20.38
rs12135163	5,6-dihydrothymin e levels	GCST90200339	1	208418474	T	C	8219	0.12	0.02	0.00	0.00	22.68
rs143742584	5,6-dihydrothymin e levels	GCST90200339	1	232035424	C	T	8219	-0.19	0.04	0.00	0.00	22.17
rs72796409	5,6-dihydrothymin e levels	GCST90200339	2	20533661	A	G	8219	-0.08	0.02	0.00	0.00	21.24
rs145483109	5,6-dihydrothymin e levels	GCST90200339	2	138924168	T	G	8219	0.26	0.06	0.00	0.00	21.74
rs2103208	5,6-dihydrothymin e levels	GCST90200339	2	202508307	G	A	8219	-0.07	0.02	0.00	0.00	19.84
rs75581340	5,6-dihydrothymin e levels	GCST90200339	3	149543237	T	A	8219	0.14	0.03	0.00	0.00	19.93
rs1450953	5,6-dihydrothymin e levels	GCST90200339	5	52738331	G	C	8219	0.07	0.02	0.00	0.00	21.24
rs56689763	5,6-dihydrothymin e levels	GCST90200339	5	79083002	A	G	8219	-0.51	0.11	0.00	0.00	19.74
rs12188587	5,6-dihydrothymin e levels	GCST90200339	5	128906867	G	A	8219	0.18	0.04	0.00	0.00	21.00
rs4713349	5,6-dihydrothymin e levels	GCST90200339	6	11293835	G	C	8219	-0.10	0.02	0.00	0.00	20.29
rs9271344	5,6-dihydrothymin e levels	GCST90200339	6	32615551	C	T	8219	-0.07	0.02	0.00	0.00	20.99
rs62422451	5,6-dihydrothymin e levels	GCST90200339	6	169484622	G	A	8219	-0.27	0.06	0.00	0.00	19.82
rs77057517	5,6-dihydrothymin e levels	GCST90200339	8	20603080	T	C	8219	-0.16	0.04	0.00	0.00	19.80
rs10967756	5,6-dihydrothymin e levels	GCST90200339	9	27172440	C	T	8219	-0.22	0.05	0.00	0.00	19.90
rs80241890	5,6-dihydrothymin e levels	GCST90200339	9	121222828	A	G	8219	-0.16	0.04	0.00	0.00	21.37
rs10742974	5,6-dihydrothymin e levels	GCST90200339	11	6534684	A	G	8219	0.08	0.02	0.00	0.00	21.25
rs9556644	5,6-dihydrothymin e levels	GCST90200339	13	96968436	C	G	8219	0.07	0.02	0.00	0.00	21.30
rs58312733	5,6-dihydrothymin e levels	GCST90200339	19	41019502	T	C	8219	0.12	0.03	0.00	0.00	20.17
rs117260337	5,6-dihydrothymin e levels	GCST90200339	22	32466199	A	T	8219	0.47	0.10	0.00	0.00	20.38
rs131807	5,6-dihydrothymin e levels	GCST90200339	22	50525111	C	G	8219	0.11	0.02	0.00	0.01	48.40

rs14556084 1	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	1	54917776	G	A	8249	0.34	0.07	0.00	0.00	26.14
rs11163320	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	1	81508747	T	C	8249	0.16	0.04	0.00	0.00	19.84
rs12129379	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	1	159995471	T	G	8249	0.10	0.02	0.00	0.00	24.94
rs77150123	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	2	67245487	C	T	8249	-0.22	0.05	0.00	0.00	20.03
rs2920504	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	3	12293713	G	A	8249	-0.07	0.02	0.00	0.00	21.15
rs62268866	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	3	143726897	T	A	8249	-0.12	0.03	0.00	0.00	20.26
rs4527483	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	4	98500590	C	T	8249	-0.08	0.02	0.00	0.00	20.41
rs14009572 4	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	4	132609758	G	A	8249	0.46	0.10	0.00	0.00	20.55
rs11562983 7	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	5	162080502	C	T	8249	-0.37	0.08	0.00	0.00	21.58
rs12210213	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	6	30387922	A	G	8249	-0.16	0.03	0.00	0.00	20.91
rs12155488	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	7	97263795	A	G	8249	-0.07	0.02	0.00	0.00	19.86
rs12334629	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	8	35513542	C	A	8249	-0.15	0.03	0.00	0.00	30.01
rs11191842	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	10	103880050	T	C	8249	0.09	0.02	0.00	0.00	21.59
rs2577374	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	10	116194589	A	G	8249	0.07	0.02	0.00	0.00	20.89
rs14635121 3	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	12	79505468	G	C	8249	-0.29	0.06	0.00	0.00	25.60
rs10506881	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	12	82930275	T	C	8249	0.10	0.02	0.00	0.00	21.10
rs9511156	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	13	24223648	A	G	8249	0.12	0.03	0.00	0.00	19.75
rs62001693	1-palmitoyl-2- oleoyl-gpc (16:0/18:1) levels	GCST90200340	15	58322693	A	C	8249	0.17	0.04	0.00	0.00	22.63

rs10468017	1-palmitoyl-2-oleoyl-gpc (16:0/18:1) levels	GCST90200340	15	58386313	T	C	8249	0.10	0.02	0.00	0.00	31.91
rs56316267	1-palmitoyl-2-oleoyl-gpc (16:0/18:1) levels	GCST90200340	16	86090813	T	C	8249	-0.09	0.02	0.00	0.00	20.93
rs149615216	1-palmitoyl-2-oleoyl-gpc (16:0/18:1) levels	GCST90200340	18	49579658	T	C	8249	0.33	0.07	0.00	0.00	20.27
rs997424	1-palmitoyl-2-oleoyl-gpc (16:0/18:1) levels	GCST90200340	20	16876894	T	G	8249	-0.08	0.02	0.00	0.00	21.57
rs77881374	1-palmitoyl-2-oleoyl-gpc (16:0/18:1) levels	GCST90200340	20	17531715	C	T	8249	-0.22	0.04	0.00	0.00	24.39
rs78528652	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	2	101425019	C	A	8254	-0.10	0.02	0.00	0.00	22.69
rs35497803	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	3	177454126	G	T	8254	0.17	0.04	0.00	0.00	23.42
rs115220599	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	4	187266947	G	T	8254	-0.20	0.05	0.00	0.00	19.80
rs140703203	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	6	34729333	T	A	8254	-0.10	0.02	0.00	0.00	20.06
rs73319459	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	7	4620101	A	G	8254	0.25	0.06	0.00	0.00	20.22
rs73233400	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	7	125944364	T	C	8254	-0.19	0.04	0.00	0.00	21.42
rs137883016	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	8	138763113	A	G	8254	-0.25	0.06	0.00	0.00	20.55
rs7082076	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	10	63517185	G	C	8254	-0.12	0.02	0.00	0.00	36.79
rs12414178	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	10	79335762	T	C	8254	0.08	0.02	0.00	0.00	19.98
rs1155821	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	11	22337174	G	A	8254	-0.08	0.02	0.00	0.00	22.18
rs964184	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	11	116778201	C	G	8254	-0.11	0.02	0.00	0.00	21.46
rs7310409	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	12	120987058	G	A	8254	0.08	0.02	0.00	0.00	27.34
rs7160525	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	14	63765502	A	G	8254	0.13	0.02	0.00	0.01	42.51

rs9646215	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	15	36779983	A	T	8254	-0.13	0.03	0.00	0.00	22.65
rs147535575	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	16	4677047	T	G	8254	-0.25	0.06	0.00	0.00	19.64
rs12598822	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	16	7559761	G	A	8254	-0.26	0.06	0.00	0.00	20.01
rs150964207	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	18	41163975	T	C	8254	-0.36	0.08	0.00	0.00	20.55
rs12961923	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	18	57635037	A	G	8254	-0.10	0.02	0.00	0.00	34.21
rs1466448	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	19	8224635	A	C	8254	0.21	0.02	0.00	0.01	116.90
rs10422859	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	19	14079694	C	T	8254	-0.07	0.02	0.00	0.00	21.20
rs364585	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	20	12982070	G	A	8254	-0.12	0.02	0.00	0.01	55.25
rs112263469	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	20	56408480	C	T	8254	0.11	0.02	0.00	0.00	21.91
rs34967683	N-stearoyl-sphingosine (d18:1/18:0) levels	GCST90200341	22	46669577	G	C	8254	-0.09	0.02	0.00	0.00	31.40
rs72633464	Glycochenodeoxycholate levels	GCST90200342	1	6417603	A	T	8164	-0.20	0.04	0.00	0.00	21.33
rs75123481	Glycochenodeoxycholate levels	GCST90200342	1	188656980	G	A	8164	0.15	0.03	0.00	0.00	20.65
rs540984823	Glycochenodeoxycholate levels	GCST90200342	2	228832033	C	A	8164	-0.18	0.04	0.00	0.00	19.78
rs6734969	Glycochenodeoxycholate levels	GCST90200342	2	237422526	A	C	8164	0.43	0.10	0.00	0.00	20.06
rs116024052	Glycochenodeoxycholate levels	GCST90200342	3	4283967	T	C	8164	-0.15	0.03	0.00	0.00	21.22
rs74797398	Glycochenodeoxycholate levels	GCST90200342	3	72646571	C	G	8164	-0.16	0.03	0.00	0.00	22.10
rs191245370	Glycochenodeoxycholate levels	GCST90200342	3	134416433	C	T	8164	-0.26	0.05	0.00	0.00	26.81
rs114246107	Glycochenodeoxycholate levels	GCST90200342	3	156651721	A	G	8164	-0.30	0.07	0.00	0.00	20.32
rs6824850	Glycochenodeoxycholate levels	GCST90200342	4	20639024	A	G	8164	0.08	0.02	0.00	0.00	21.32
rs6845571	Glycochenodeoxycholate levels	GCST90200342	4	43110364	C	T	8164	-0.09	0.02	0.00	0.00	19.58
rs74368836	Glycochenodeoxycholate levels	GCST90200342	4	88957662	C	T	8164	-0.19	0.04	0.00	0.00	20.73

rs2455304	Glycochenode oxycholate levels	GCST90200342	5	40964580	T	C	8164	0.10	0.02	0.00	0.00	29.31
rs1738457	Glycochenode oxycholate levels	GCST90200342	6	37585419	C	T	8164	0.07	0.02	0.00	0.00	20.61
rs62411867	Glycochenode oxycholate levels	GCST90200342	6	56210462	A	C	8164	0.25	0.05	0.00	0.00	23.26
rs4392688	Glycochenode oxycholate levels	GCST90200342	6	68469813	G	A	8164	0.13	0.03	0.00	0.00	20.28
rs73018220	Glycochenode oxycholate levels	GCST90200342	6	158724296	A	G	8164	0.14	0.03	0.00	0.00	19.94
rs7785105	Glycochenode oxycholate levels	GCST90200342	7	12790140	A	G	8164	0.09	0.02	0.00	0.00	26.97
rs14162293 4	Glycochenode oxycholate levels	GCST90200342	8	4735075	A	G	8164	0.46	0.10	0.00	0.00	22.36
rs6559397	Glycochenode oxycholate levels	GCST90200342	9	69256708	A	G	8164	-0.08	0.02	0.00	0.00	20.03
rs7104311	Glycochenode oxycholate levels	GCST90200342	11	13232957	A	C	8164	0.09	0.02	0.00	0.00	20.97
rs74525554	Glycochenode oxycholate levels	GCST90200342	11	16556974	T	G	8164	-0.21	0.05	0.00	0.00	20.70
rs2017948	Glycochenode oxycholate levels	GCST90200342	11	134053403	G	A	8164	-0.12	0.03	0.00	0.00	19.84
rs73059027	Glycochenode oxycholate levels	GCST90200342	12	15444081	T	C	8164	0.37	0.08	0.00	0.00	19.87
rs79004436	Glycochenode oxycholate levels	GCST90200342	12	94785165	T	A	8164	-0.17	0.04	0.00	0.00	20.33
rs56176022	Glycochenode oxycholate levels	GCST90200342	12	128399580	C	T	8164	-0.13	0.03	0.00	0.00	20.87
rs9318797	Glycochenode oxycholate levels	GCST90200342	13	81736628	G	A	8164	-0.08	0.02	0.00	0.00	21.63
rs6564681	Glycochenode oxycholate levels	GCST90200342	16	79618823	T	C	8164	0.08	0.02	0.00	0.00	22.34
rs76149982	Glycochenode oxycholate levels	GCST90200342	17	10808360	A	C	8164	-0.13	0.03	0.00	0.00	19.64
rs192659	Glycochenode oxycholate levels	GCST90200342	18	58228556	G	A	8164	-0.08	0.02	0.00	0.00	25.46
rs7280608	Glycochenode oxycholate levels	GCST90200342	21	34816191	T	C	8164	-0.29	0.06	0.00	0.00	23.43
rs12076023	N- formylmethion ine levels	GCST90200343	1	70470691	C	T	8235	-0.07	0.01	0.00	0.00	23.84
rs36004306	N- formylmethion ine levels	GCST90200343	1	197091956	C	A	8235	0.15	0.03	0.00	0.00	19.93
rs79171773	N- formylmethion ine levels	GCST90200343	2	139131563	C	T	8235	0.24	0.05	0.00	0.00	19.90
rs14880438 2	N- formylmethion ine levels	GCST90200343	3	52078217	A	C	8235	0.42	0.07	0.00	0.00	34.48
rs73195880	N- formylmethion ine levels	GCST90200343	4	4328027	T	C	8235	-0.17	0.04	0.00	0.00	20.92

rs17230332	N-formylmethionine levels	GCST90200343	4	54594984	A	T	8235	0.10	0.02	0.00	0.00	20.95
rs73850513	N-formylmethionine levels	GCST90200343	4	138310588	T	C	8235	-0.12	0.02	0.00	0.00	24.70
rs79911842	N-formylmethionine levels	GCST90200343	5	164081657	C	A	8235	0.28	0.06	0.00	0.00	20.18
rs78187635	N-formylmethionine levels	GCST90200343	7	140660274	A	G	8235	-0.13	0.03	0.00	0.00	21.83
rs504434	N-formylmethionine levels	GCST90200343	9	127715489	A	G	8235	-0.17	0.01	0.00	0.02	135.63
rs1227983	N-formylmethionine levels	GCST90200343	10	110353464	A	G	8235	0.09	0.02	0.00	0.00	22.75
rs11197567	N-formylmethionine levels	GCST90200343	10	116172681	A	G	8235	-0.08	0.02	0.00	0.00	22.35
rs545037259	N-formylmethionine levels	GCST90200343	11	60823342	G	A	8235	0.42	0.09	0.00	0.00	20.91
rs147786398	N-formylmethionine levels	GCST90200343	15	74963919	T	G	8235	0.24	0.05	0.00	0.00	21.54
rs9928003	N-formylmethionine levels	GCST90200343	16	20346926	C	A	8235	-0.11	0.02	0.00	0.00	34.85
rs74581562	N-formylmethionine levels	GCST90200343	16	22798772	G	A	8235	0.17	0.04	0.00	0.00	20.32
rs9912388	N-formylmethionine levels	GCST90200343	17	6827374	G	A	8235	0.07	0.01	0.00	0.00	21.96
rs71375101	N-formylmethionine levels	GCST90200343	17	82405390	G	A	8235	0.28	0.06	0.00	0.00	19.96
rs1426239	N-formylmethionine levels	GCST90200343	18	2301217	C	T	8235	0.07	0.02	0.00	0.00	20.44
rs16946205	N-formylmethionine levels	GCST90200343	18	29103316	G	A	8235	-0.44	0.09	0.00	0.00	22.46
rs151287767	N-formylmethionine levels	GCST90200343	19	617466	G	A	8235	0.36	0.08	0.00	0.00	21.74
rs11881315	N-formylmethionine levels	GCST90200343	19	10799277	T	C	8235	-0.09	0.02	0.00	0.00	23.28
rs79623398	N6,n6,n6-trimethyllysine levels	GCST90200344	1	114059417	C	T	8180	-0.35	0.08	0.00	0.00	19.82
rs77321565	N6,n6,n6-trimethyllysine levels	GCST90200344	2	123989478	A	G	8180	-0.10	0.02	0.00	0.00	22.88
rs11890921	N6,n6,n6-trimethyllysine levels	GCST90200344	2	205238149	A	G	8180	-0.09	0.02	0.00	0.00	20.40
rs72978667	N6,n6,n6-trimethyllysine levels	GCST90200344	2	229339894	A	G	8180	0.25	0.06	0.00	0.00	20.62
rs146527815	N6,n6,n6-trimethyllysine levels	GCST90200344	2	234000747	T	C	8180	0.25	0.06	0.00	0.00	20.05
rs12509064	N6,n6,n6-trimethyllysine levels	GCST90200344	4	155049309	G	A	8180	0.11	0.02	0.00	0.00	20.50
rs149611367	N6,n6,n6-trimethyllysine levels	GCST90200344	5	117216968	A	C	8180	0.29	0.06	0.00	0.00	22.91

rs314650	N6,n6,n6-trimethyllysine levels	GCST90200344	7	4385503	G	A	8180	-0.10	0.02	0.00	0.00	19.84
rs11744032	N6,n6,n6-trimethyllysine levels	GCST90200344	7	79030012	T	C	8180	-0.26	0.06	0.00	0.00	19.80
rs73194880	N6,n6,n6-trimethyllysine levels	GCST90200344	7	110821599	C	G	8180	0.24	0.05	0.00	0.00	24.63
rs2565096	N6,n6,n6-trimethyllysine levels	GCST90200344	8	40518910	A	G	8180	0.08	0.02	0.00	0.00	21.79
rs9332453	N6,n6,n6-trimethyllysine levels	GCST90200344	9	81383431	T	C	8180	0.07	0.02	0.00	0.00	21.08
rs34400381	N6,n6,n6-trimethyllysine levels	GCST90200344	11	65376421	A	G	8180	0.47	0.04	0.00	0.02	133.84
rs11796247	N6,n6,n6-trimethyllysine levels	GCST90200344	11	65530339	T	C	8180	0.47	0.07	0.00	0.01	41.19
rs7986530	N6,n6,n6-trimethyllysine levels	GCST90200344	13	25579458	T	C	8180	-0.14	0.03	0.00	0.00	20.65
rs12874375	N6,n6,n6-trimethyllysine levels	GCST90200344	13	26244765	T	C	8180	0.08	0.02	0.00	0.00	21.12
rs9925773	N6,n6,n6-trimethyllysine levels	GCST90200344	16	68278961	G	A	8180	0.12	0.02	0.00	0.01	48.76
rs17468469	N6,n6,n6-trimethyllysine levels	GCST90200344	18	28052084	T	A	8180	0.25	0.06	0.00	0.00	20.03
rs45590338	N6,n6,n6-trimethyllysine levels	GCST90200344	22	36226381	C	G	8180	0.20	0.04	0.00	0.00	23.16
rs6000632	N6,n6,n6-trimethyllysine levels	GCST90200344	22	37248075	C	T	8180	0.08	0.02	0.00	0.00	20.36
rs3815792	S-adenosylhomocysteine (SAH) levels	GCST90200345	1	15463238	G	A	6142	-0.08	0.02	0.00	0.00	20.93
rs1257248	S-adenosylhomocysteine (SAH) levels	GCST90200345	1	201280980	A	G	6142	-0.26	0.06	0.00	0.00	20.73
rs59873377	S-adenosylhomocysteine (SAH) levels	GCST90200345	2	238144629	A	G	6142	-0.26	0.06	0.00	0.00	20.43
rs9826694	S-adenosylhomocysteine (SAH) levels	GCST90200345	3	132464074	G	A	6142	0.09	0.02	0.00	0.00	19.98
rs7654754	S-adenosylhomocysteine (SAH) levels	GCST90200345	4	76488642	A	G	6142	0.09	0.02	0.00	0.00	29.27
rs7744436	S-adenosylhomocysteine (SAH) levels	GCST90200345	6	128326729	A	G	6142	0.27	0.06	0.00	0.00	21.67
rs9688867	S-adenosylhomocysteine (SAH) levels	GCST90200345	6	149770776	G	A	6142	0.18	0.02	0.00	0.02	112.76
rs3798943	S-adenosylhomocysteine (SAH) levels	GCST90200345	6	161254459	C	T	6142	0.07	0.02	0.00	0.00	20.48

rs77354398	S-adenosylhomocysteine (SAH) levels	GCST90200345	7	18857383	A	T	6142	-0.14	0.03	0.00	0.00	19.78
rs140168668	S-adenosylhomocysteine (SAH) levels	GCST90200345	8	33677542	A	C	6142	-0.38	0.09	0.00	0.00	19.92
rs3133752	S-adenosylhomocysteine (SAH) levels	GCST90200345	8	95366774	C	A	6142	-0.13	0.03	0.00	0.00	19.57
rs6475515	S-adenosylhomocysteine (SAH) levels	GCST90200345	9	2129184	T	C	6142	0.13	0.03	0.00	0.00	19.89
rs16938058	S-adenosylhomocysteine (SAH) levels	GCST90200345	9	20411356	A	G	6142	0.35	0.07	0.00	0.00	25.26
rs79090078	S-adenosylhomocysteine (SAH) levels	GCST90200345	10	102753040	T	A	6142	0.29	0.06	0.00	0.00	24.35
rs35497888	S-adenosylhomocysteine (SAH) levels	GCST90200345	10	105054563	G	A	6142	-0.31	0.07	0.00	0.00	19.88
rs113713371	S-adenosylhomocysteine (SAH) levels	GCST90200345	11	105760243	C	T	6142	-0.21	0.05	0.00	0.00	20.09
rs4770416	S-adenosylhomocysteine (SAH) levels	GCST90200345	13	23231939	A	C	6142	0.26	0.05	0.00	0.00	24.06
rs7319156	S-adenosylhomocysteine (SAH) levels	GCST90200345	13	45321551	G	A	6142	-0.09	0.02	0.00	0.00	20.38
rs77924615	S-adenosylhomocysteine (SAH) levels	GCST90200345	16	20381010	A	G	6142	-0.10	0.02	0.00	0.00	23.09
rs1119321	S-adenosylhomocysteine (SAH) levels	GCST90200345	16	51956725	C	T	6142	-0.08	0.02	0.00	0.00	21.84
rs31118	S-adenosylhomocysteine (SAH) levels	GCST90200345	16	55347259	T	C	6142	0.10	0.02	0.00	0.00	24.91
rs72874025	S-adenosylhomocysteine (SAH) levels	GCST90200345	18	6075080	C	T	6142	0.27	0.06	0.00	0.00	21.45
rs74982186	S-adenosylhomocysteine (SAH) levels	GCST90200345	19	35339914	T	C	6142	0.76	0.16	0.00	0.00	23.42
rs11667953	S-adenosylhomocysteine (SAH) levels	GCST90200345	19	53711836	A	T	6142	0.08	0.02	0.00	0.00	25.29
rs763383	S-adenosylhomocysteine (SAH) levels	GCST90200345	20	10917230	A	C	6142	0.08	0.02	0.00	0.00	21.49
rs17812573	S-adenosylhomocysteine (SAH) levels	GCST90200345	20	19180023	G	A	6142	0.09	0.02	0.00	0.00	20.51

rs1994999	S-adenosylhomocysteine (SAH) levels	GCST90200345	22	34055829	G	A	6142	0.13	0.03	0.00	0.00	23.55
rs55817315	4-acetaminophen sulfate levels	GCST90200346	1	115324996	T	C	4197	0.14	0.03	0.00	0.00	20.74
rs76408942	4-acetaminophen sulfate levels	GCST90200346	2	49339044	C	A	4197	0.17	0.04	0.00	0.00	20.16
rs112088295	4-acetaminophen sulfate levels	GCST90200346	2	177605362	T	C	4197	-0.34	0.08	0.00	0.00	19.97
rs4684474	4-acetaminophen sulfate levels	GCST90200346	3	5296250	G	A	4197	0.18	0.04	0.00	0.01	24.55
rs111453384	4-acetaminophen sulfate levels	GCST90200346	3	35193824	C	G	4197	0.40	0.09	0.00	0.00	20.94
rs17761406	4-acetaminophen sulfate levels	GCST90200346	3	74007594	G	A	4197	0.18	0.04	0.00	0.00	19.51
rs709092	4-acetaminophen sulfate levels	GCST90200346	3	191744500	A	G	4197	0.10	0.02	0.00	0.01	23.09
rs2920754	4-acetaminophen sulfate levels	GCST90200346	5	22349436	A	T	4197	0.31	0.07	0.00	0.00	19.73
rs7779625	4-acetaminophen sulfate levels	GCST90200346	7	2663241	C	T	4197	-0.13	0.03	0.00	0.01	21.27
rs76618189	4-acetaminophen sulfate levels	GCST90200346	7	146877296	A	G	4197	0.24	0.05	0.00	0.00	20.10
rs145590927	4-acetaminophen sulfate levels	GCST90200346	9	93522063	C	G	4197	0.36	0.08	0.00	0.01	21.58
rs74514309	4-acetaminophen sulfate levels	GCST90200346	9	127103411	T	C	4197	-0.23	0.05	0.00	0.01	21.27
rs7940112	4-acetaminophen sulfate levels	GCST90200346	11	890405	C	T	4197	0.10	0.02	0.00	0.01	21.66
rs187337583	4-acetaminophen sulfate levels	GCST90200346	12	96216982	T	C	4197	0.69	0.15	0.00	0.01	21.24
rs61964376	4-acetaminophen sulfate levels	GCST90200346	13	82640845	A	G	4197	-0.25	0.06	0.00	0.00	19.69
rs58579729	4-acetaminophen sulfate levels	GCST90200346	13	94248748	A	C	4197	0.25	0.05	0.00	0.01	21.27
rs76956050	4-acetaminophen sulfate levels	GCST90200346	13	109895269	G	A	4197	-0.21	0.05	0.00	0.01	21.45
rs8021408	4-acetaminophen sulfate levels	GCST90200346	14	79489072	T	C	4197	0.11	0.02	0.00	0.00	20.35
rs741686	4-acetaminophen sulfate levels	GCST90200346	16	8403943	T	C	4197	0.14	0.03	0.00	0.00	19.96
rs56210737	4-acetaminophen sulfate levels	GCST90200346	16	60990580	T	C	4197	0.36	0.07	0.00	0.01	25.83
rs76468629	4-acetaminophen sulfate levels	GCST90200346	16	77800333	G	A	4197	0.31	0.07	0.00	0.00	20.31
rs11077615	4-acetaminophen sulfate levels	GCST90200346	17	72600441	T	G	4197	-0.13	0.03	0.00	0.01	24.64
rs72989729	4-acetaminophen sulfate levels	GCST90200346	19	1618087	T	C	4197	0.24	0.05	0.00	0.00	19.92

rs146106053	4-acetaminophen sulfate levels	GCST90200346	19	15555949	T	C	4197	0.32	0.07	0.00	0.00	20.84
rs78169904	4-acetaminophen sulfate levels	GCST90200346	19	46396631	C	T	4197	-0.29	0.07	0.00	0.00	20.03
rs71640299	4-acetaminophen sulfate levels	GCST90200346	22	29581240	A	G	4197	0.22	0.05	0.00	0.00	20.43
rs72820734	2-hydroxyhippurate (salicylurate) levels	GCST90200347	2	75869386	G	A	8244	0.10	0.02	0.00	0.00	20.27
rs4428159	2-hydroxyhippurate (salicylurate) levels	GCST90200347	3	11154830	C	G	8244	-0.12	0.03	0.00	0.00	20.06
rs16864131	2-hydroxyhippurate (salicylurate) levels	GCST90200347	3	189233808	C	A	8244	-0.21	0.04	0.00	0.00	22.39
rs148726663	2-hydroxyhippurate (salicylurate) levels	GCST90200347	5	20667240	G	A	8244	0.39	0.09	0.00	0.00	20.27
rs2408038	2-hydroxyhippurate (salicylurate) levels	GCST90200347	5	124055230	C	T	8244	-0.07	0.02	0.00	0.00	21.93
rs116239256	2-hydroxyhippurate (salicylurate) levels	GCST90200347	6	22996457	C	T	8244	0.31	0.07	0.00	0.00	19.58
rs148279816	2-hydroxyhippurate (salicylurate) levels	GCST90200347	6	109844228	A	T	8244	0.21	0.04	0.00	0.00	24.42
rs17636421	2-hydroxyhippurate (salicylurate) levels	GCST90200347	7	51565362	C	T	8244	-0.07	0.02	0.00	0.00	20.66
rs56691608	2-hydroxyhippurate (salicylurate) levels	GCST90200347	7	70655422	G	C	8244	-0.08	0.02	0.00	0.00	21.52
rs11786331	2-hydroxyhippurate (salicylurate) levels	GCST90200347	8	136281839	G	C	8244	-0.08	0.02	0.00	0.00	22.05
rs7833279	2-hydroxyhippurate (salicylurate) levels	GCST90200347	8	136414347	T	G	8244	0.07	0.02	0.00	0.00	20.65
rs58910473	2-hydroxyhippurate (salicylurate) levels	GCST90200347	9	1279051	C	G	8244	-0.23	0.05	0.00	0.00	19.73
rs7020562	2-hydroxyhippurate (salicylurate) levels	GCST90200347	9	16206488	A	G	8244	0.09	0.02	0.00	0.00	19.93

rs2900371	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	9	104517277	A	G	8244	0.07	0.02	0.00	0.00	20.28
rs34637253	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	10	51818114	A	G	8244	0.27	0.06	0.00	0.00	20.13
rs34634483	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	10	69231453	T	C	8244	-0.12	0.03	0.00	0.00	20.07
rs55453196 1	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	12	128833434	G	T	8244	0.29	0.06	0.00	0.00	20.12
rs9514593	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	13	88324129	G	T	8244	-0.09	0.02	0.00	0.00	19.85
rs72715202	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	15	33831441	C	T	8244	0.22	0.04	0.00	0.00	23.91
rs77336697	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	15	46208884	T	G	8244	-0.13	0.03	0.00	0.00	20.27
rs9646223	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	15	96005222	C	T	8244	-0.07	0.02	0.00	0.00	21.09
rs13830599 8	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	16	79151247	T	C	8244	0.65	0.14	0.00	0.00	22.28
rs2324026	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	17	15772828	T	A	8244	-0.08	0.02	0.00	0.00	23.79
rs12978426	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	19	43985876	A	G	8244	-0.31	0.06	0.00	0.00	24.66
rs11711220 2	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	20	15460018	A	C	8244	0.21	0.05	0.00	0.00	20.20
rs558059	2- hydroxyhippu rate (salicylurate) levels	GCST90200347	21	31438586	A	C	8244	-0.08	0.02	0.00	0.00	22.72
rs11803696	Quinolate levels	GCST90200348	1	4907099	G	A	8203	0.09	0.02	0.00	0.00	21.88
rs61825638	Quinolate levels	GCST90200348	1	241550102	T	C	8203	-0.14	0.02	0.00	0.01	73.86
rs77260660	Quinolate levels	GCST90200348	2	74792202	G	T	8203	-0.15	0.03	0.00	0.00	21.16
rs3769023	Quinolate levels	GCST90200348	2	134956133	A	G	8203	-0.09	0.01	0.00	0.00	38.89

rs13069276	Quinolate levels	GCST90200348	3	6165377	C	T	8203	-0.07	0.01	0.00	0.00	19.72
rs115174365	Quinolate levels	GCST90200348	3	62265797	G	A	8203	0.18	0.04	0.00	0.00	20.90
rs6783384	Quinolate levels	GCST90200348	3	76066412	T	C	8203	-0.07	0.01	0.00	0.00	22.32
rs73130072	Quinolate levels	GCST90200348	4	33349650	T	G	8203	0.23	0.05	0.00	0.00	20.66
rs28496685	Quinolate levels	GCST90200348	4	61040479	A	G	8203	-0.27	0.06	0.00	0.00	22.73
rs114184437	Quinolate levels	GCST90200348	4	142620133	T	C	8203	-0.27	0.05	0.00	0.00	24.58
rs76047646	Quinolate levels	GCST90200348	5	106502017	T	G	8203	-0.17	0.04	0.00	0.00	19.71
rs74483775	Quinolate levels	GCST90200348	5	125678441	G	C	8203	0.11	0.02	0.00	0.00	22.70
rs314148	Quinolate levels	GCST90200348	5	170372746	T	C	8203	0.07	0.01	0.00	0.00	22.03
rs144793262	Quinolate levels	GCST90200348	5	175051167	C	T	8203	-0.39	0.09	0.00	0.00	19.67
rs80242092	Quinolate levels	GCST90200348	7	6400363	T	G	8203	-0.32	0.07	0.00	0.00	20.91
rs11779313	Quinolate levels	GCST90200348	8	39929326	T	C	8203	-0.09	0.01	0.00	0.00	34.73
rs2122723	Quinolate levels	GCST90200348	10	36262203	G	A	8203	0.08	0.02	0.00	0.00	19.87
rs4766578	Quinolate levels	GCST90200348	12	111466567	A	T	8203	-0.12	0.01	0.00	0.01	68.84
rs11059479	Quinolate levels	GCST90200348	12	128071327	C	T	8203	0.13	0.03	0.00	0.00	22.60
rs77924615	Quinolate levels	GCST90200348	16	20381010	A	G	8203	-0.10	0.02	0.00	0.00	28.91
rs79380182	Quinolate levels	GCST90200348	19	13342527	A	T	8203	0.35	0.08	0.00	0.00	21.78
rs66559745	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	1	43378497	A	G	8257	0.07	0.02	0.00	0.00	20.02
rs11715464	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	3	42868195	G	A	8257	-0.07	0.02	0.00	0.00	21.96
rs62263976	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	3	86351700	A	G	8257	0.13	0.03	0.00	0.00	20.13
rs7624307	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	3	131535825	T	G	8257	0.14	0.03	0.00	0.00	19.92
rs17487799	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	3	161594676	G	T	8257	-0.07	0.02	0.00	0.00	20.68
rs144705872	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	4	44800363	T	C	8257	0.70	0.15	0.00	0.00	20.52
rs77207094	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	5	11520799	C	T	8257	-0.25	0.06	0.00	0.00	21.25
rs13193426	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	6	92167790	A	G	8257	0.09	0.02	0.00	0.00	26.29
rs140634898	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	6	125607361	C	T	8257	0.26	0.06	0.00	0.00	19.64
rs187828726	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	6	158506347	G	T	8257	-0.23	0.05	0.00	0.00	22.02
rs34736275	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	7	80571027	A	G	8257	0.08	0.02	0.00	0.00	23.66
rs28618184	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	9	104421149	G	A	8257	0.16	0.04	0.00	0.00	20.01
rs150941261	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	10	129642407	C	T	8257	-0.30	0.07	0.00	0.00	20.47

rs174546	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	11	61802358	T	C	8257	-0.21	0.02	0.00	0.02	174.42
rs11228377	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	11	68835878	C	T	8257	0.07	0.01	0.00	0.00	22.58
rs9580401	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	13	22558263	C	A	8257	0.22	0.05	0.00	0.00	19.94
rs12584810	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	13	42711531	A	T	8257	-0.08	0.02	0.00	0.00	20.41
rs116912249	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	13	59196293	A	G	8257	0.13	0.03	0.00	0.00	19.72
rs144230997	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	13	70662972	T	A	8257	-0.31	0.07	0.00	0.00	19.84
rs12869987	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	13	81479238	A	G	8257	0.08	0.02	0.00	0.00	27.39
rs61959375	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	13	88151149	G	A	8257	0.17	0.03	0.00	0.00	24.44
rs149366313	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	14	50292598	T	C	8257	-0.24	0.05	0.00	0.00	19.71
rs12891547	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	14	91301133	A	G	8257	0.25	0.05	0.00	0.00	24.05
rs56184454	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	15	88052099	C	T	8257	0.08	0.02	0.00	0.00	19.60
rs8082659	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	17	78308451	C	T	8257	0.08	0.02	0.00	0.00	19.53
rs150012979	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	18	3881693	T	C	8257	0.28	0.06	0.00	0.00	21.08
rs139376795	Eicosapentaenoate (EPA; 20:5n3) levels	GCST90200349	19	10824129	T	C	8257	0.31	0.06	0.00	0.00	22.79
rs79346115	Laurate (12:0) levels	GCST90200350	1	39007648	G	A	8226	-0.27	0.06	0.00	0.00	19.58
rs1429226	Laurate (12:0) levels	GCST90200350	2	5854078	G	A	8226	0.13	0.03	0.00	0.00	20.25
rs55763646	Laurate (12:0) levels	GCST90200350	2	98373847	A	G	8226	-0.10	0.02	0.00	0.00	21.24
rs112924858	Laurate (12:0) levels	GCST90200350	2	160066501	T	C	8226	-0.25	0.06	0.00	0.00	19.94
rs7672067	Laurate (12:0) levels	GCST90200350	4	5152946	A	G	8226	-0.08	0.02	0.00	0.00	20.62
rs112066106	Laurate (12:0) levels	GCST90200350	5	133516935	C	T	8226	0.48	0.10	0.00	0.00	20.73
rs6870663	Laurate (12:0) levels	GCST90200350	5	172823258	A	G	8226	0.08	0.02	0.00	0.00	20.85
rs78325276	Laurate (12:0) levels	GCST90200350	6	80520159	C	T	8226	-0.11	0.02	0.00	0.00	19.76
rs6936162	Laurate (12:0) levels	GCST90200350	6	138759618	C	T	8226	0.34	0.07	0.00	0.00	20.91
rs11574245	Laurate (12:0) levels	GCST90200350	8	31089687	C	T	8226	0.11	0.02	0.00	0.00	19.96
rs10967866	Laurate (12:0) levels	GCST90200350	9	27295609	A	G	8226	0.08	0.02	0.00	0.00	22.86
rs6478954	Laurate (12:0) levels	GCST90200350	9	130234368	T	G	8226	-0.07	0.02	0.00	0.00	20.95
rs146947505	Laurate (12:0) levels	GCST90200350	12	117586522	A	G	8226	0.27	0.06	0.00	0.00	21.12
rs9530611	Laurate (12:0) levels	GCST90200350	13	76920392	A	G	8226	0.12	0.03	0.00	0.00	19.88
rs1201422	Laurate (12:0) levels	GCST90200350	14	56416152	T	A	8226	0.08	0.02	0.00	0.00	24.71
rs147937461	Laurate (12:0) levels	GCST90200350	16	68412307	A	C	8226	0.22	0.05	0.00	0.00	20.59

rs34642338	Laurate (12:0) levels	GCST90200350	18	41052239	A	G	8226	0.07	0.02	0.00	0.00	21.17
rs140887328	Laurate (12:0) levels	GCST90200350	18	73690943	T	C	8226	0.32	0.07	0.00	0.00	21.80
rs7255529	Laurate (12:0) levels	GCST90200350	19	2305593	G	A	8226	0.07	0.02	0.00	0.00	19.53
rs1180280	N-acetylputrescine levels	GCST90200351	1	39640423	A	G	8243	0.08	0.02	0.00	0.00	19.89
rs35665787	N-acetylputrescine levels	GCST90200351	1	42768317	G	A	8243	-0.15	0.03	0.00	0.00	22.92
rs35977677	N-acetylputrescine levels	GCST90200351	1	162918076	C	A	8243	-0.08	0.02	0.00	0.00	22.30
rs3900609	N-acetylputrescine levels	GCST90200351	2	10619247	T	C	8243	-0.07	0.01	0.00	0.00	22.19
rs16855457	N-acetylputrescine levels	GCST90200351	2	168547333	C	G	8243	0.31	0.07	0.00	0.00	21.79
rs115018358	N-acetylputrescine levels	GCST90200351	3	29920068	A	G	8243	-0.20	0.04	0.00	0.00	20.16
rs11934779	N-acetylputrescine levels	GCST90200351	4	14171336	T	A	8243	0.09	0.02	0.00	0.00	26.12
rs11746573	N-acetylputrescine levels	GCST90200351	5	484031	A	C	8243	0.08	0.02	0.00	0.00	20.65
rs114099890	N-acetylputrescine levels	GCST90200351	5	111278572	T	C	8243	0.30	0.06	0.00	0.00	21.97
rs12208357	N-acetylputrescine levels	GCST90200351	6	160122116	T	C	8243	0.16	0.03	0.00	0.00	30.61
rs118088575	N-acetylputrescine levels	GCST90200351	7	115302261	A	C	8243	0.16	0.03	0.00	0.00	23.73
rs1049742	N-acetylputrescine levels	GCST90200351	7	150857465	T	C	8243	0.21	0.03	0.00	0.01	54.85
rs141843816	N-acetylputrescine levels	GCST90200351	8	18147364	A	G	8243	0.38	0.07	0.00	0.00	29.42
rs4921913	N-acetylputrescine levels	GCST90200351	8	18414867	T	C	8243	-0.59	0.02	0.00	0.13	#####
rs66952577	N-acetylputrescine levels	GCST90200351	8	133508661	T	C	8243	0.10	0.02	0.00	0.00	20.92
rs12364215	N-acetylputrescine levels	GCST90200351	11	29335960	A	G	8243	-0.14	0.03	0.00	0.00	23.29
rs72902478	N-acetylputrescine levels	GCST90200351	11	45909667	C	T	8243	0.12	0.03	0.00	0.00	20.77
rs9795684	N-acetylputrescine levels	GCST90200351	12	61154644	T	C	8243	0.07	0.02	0.00	0.00	20.44
rs140360841	N-acetylputrescine levels	GCST90200351	12	106642031	C	A	8243	0.23	0.05	0.00	0.00	19.56
rs16944168	N-acetylputrescine levels	GCST90200351	15	90315863	G	A	8243	-0.09	0.02	0.00	0.00	21.85
rs62065890	N-acetylputrescine levels	GCST90200351	17	40783287	C	T	8243	-0.07	0.02	0.00	0.00	19.89
rs138521534	N-acetylputrescine levels	GCST90200351	18	40796239	A	G	8243	-0.25	0.05	0.00	0.00	21.60

rs12981878	N-acetylputrescine levels	GCST90200351	19	8215377	A	G	8243	0.08	0.02	0.00	0.00	21.89
rs148381953	N-acetylputrescine levels	GCST90200351	22	50123655	G	A	8243	0.54	0.06	0.00	0.01	92.75
rs34389199	Methylsuccinate levels	GCST90200352	1	86725224	G	A	7965	0.09	0.02	0.00	0.00	21.52
rs547773	Methylsuccinate levels	GCST90200352	2	30691515	A	G	7965	0.10	0.02	0.00	0.00	19.68
rs11927061	Methylsuccinate levels	GCST90200352	3	70285931	G	T	7965	0.09	0.02	0.00	0.00	21.29
rs2677247	Methylsuccinate levels	GCST90200352	3	103731747	C	A	7965	0.08	0.02	0.00	0.00	22.56
rs114270940	Methylsuccinate levels	GCST90200352	4	71050170	T	A	7965	-0.30	0.07	0.00	0.00	20.83
rs972681	Methylsuccinate levels	GCST90200352	5	91964663	T	C	7965	-0.08	0.02	0.00	0.00	19.82
rs145317668	Methylsuccinate levels	GCST90200352	6	41456637	C	A	7965	-0.35	0.07	0.00	0.00	22.25
rs610803	Methylsuccinate levels	GCST90200352	6	137612787	G	A	7965	0.11	0.02	0.00	0.00	32.45
rs183615662	Methylsuccinate levels	GCST90200352	6	159766451	A	G	7965	0.35	0.07	0.00	0.00	22.58
rs77016717	Methylsuccinate levels	GCST90200352	7	2050567	G	A	7965	-0.17	0.04	0.00	0.00	21.16
rs181685789	Methylsuccinate levels	GCST90200352	7	96009130	A	G	7965	0.27	0.06	0.00	0.00	20.72
rs140303807	Methylsuccinate levels	GCST90200352	10	6911326	T	C	7965	0.27	0.06	0.00	0.00	23.04
rs7122479	Methylsuccinate levels	GCST90200352	11	86454105	T	G	7965	0.09	0.02	0.00	0.00	20.97
rs117241561	Methylsuccinate levels	GCST90200352	12	26243812	A	G	7965	0.22	0.05	0.00	0.00	20.04
rs11182932	Methylsuccinate levels	GCST90200352	12	45236589	T	C	7965	0.13	0.03	0.00	0.00	20.46
rs3916	Methylsuccinate levels	GCST90200352	12	120739469	C	G	7965	0.39	0.02	0.00	0.06	525.75
rs10774580	Methylsuccinate levels	GCST90200352	12	121038620	G	A	7965	-0.07	0.02	0.00	0.00	22.30
rs9571791	Methylsuccinate levels	GCST90200352	13	34516310	A	G	7965	-0.07	0.02	0.00	0.00	19.96
rs149049731	Methylsuccinate levels	GCST90200352	13	113558276	A	G	7965	0.38	0.08	0.00	0.00	23.21
rs149720173	Methylsuccinate levels	GCST90200352	15	34858392	C	G	7965	0.24	0.05	0.00	0.00	19.93
rs112253169	Methylsuccinate levels	GCST90200352	17	75853999	T	C	7965	-0.12	0.03	0.00	0.00	23.67
rs4614842	Methylsuccinate levels	GCST90200352	19	52767207	A	G	7965	0.13	0.03	0.00	0.00	20.43
rs73149459	Methylsuccinate levels	GCST90200352	20	54991452	T	C	7965	0.19	0.04	0.00	0.00	26.91
rs114230367	9,10-DiHOME levels	GCST90200353	2	222689415	C	G	7557	0.20	0.04	0.00	0.00	21.96
rs10057965	9,10-DiHOME levels	GCST90200353	5	163692802	C	A	7557	-0.09	0.02	0.00	0.00	19.56
rs6912625	9,10-DiHOME levels	GCST90200353	6	111073399	C	T	7557	-0.09	0.02	0.00	0.00	25.23
rs56088608	9,10-DiHOME levels	GCST90200353	7	24307896	A	G	7557	-0.19	0.04	0.00	0.00	23.52
rs3757639	9,10-DiHOME levels	GCST90200353	7	27142523	A	G	7557	0.11	0.02	0.00	0.00	20.44
rs2212702	9,10-DiHOME levels	GCST90200353	8	101201557	A	G	7557	-0.25	0.05	0.00	0.00	22.69
rs4742502	9,10-DiHOME levels	GCST90200353	9	8430033	T	C	7557	0.08	0.02	0.00	0.00	21.52
rs296617	9,10-DiHOME levels	GCST90200353	9	91102089	C	A	7557	-0.21	0.04	0.00	0.00	25.19
rs192170212	9,10-DiHOME levels	GCST90200353	10	87016482	A	T	7557	0.22	0.05	0.00	0.00	21.84
rs701861	9,10-DiHOME levels	GCST90200353	10	93398993	G	A	7557	0.07	0.02	0.00	0.00	20.42
rs10500601	9,10-DiHOME levels	GCST90200353	11	4434725	C	T	7557	-0.08	0.02	0.00	0.00	21.22

rs2512828	9,10-DiHOME levels	GCST90200353	11	98658566	G	A	7557	-0.07	0.02	0.00	0.00	19.95
rs57000989	9,10-DiHOME levels	GCST90200353	12	116284818	C	T	7557	0.23	0.05	0.00	0.00	22.16
rs17196499	9,10-DiHOME levels	GCST90200353	13	94847815	A	G	7557	-0.22	0.04	0.00	0.00	28.18
rs36825102 2	9,10-DiHOME levels	GCST90200353	17	6872122	C	T	7557	0.21	0.05	0.00	0.00	19.67
rs865750	9,10-DiHOME levels	GCST90200353	17	47149976	A	C	7557	0.08	0.02	0.00	0.00	21.71
rs11685577 3	9,10-DiHOME levels	GCST90200353	18	44342893	G	A	7557	0.89	0.19	0.00	0.00	20.96
rs1884109	9,10-DiHOME levels	GCST90200353	20	972507	T	G	7557	0.45	0.10	0.00	0.00	20.64
rs2834290	9,10-DiHOME levels	GCST90200353	21	33894734	A	T	7557	0.08	0.02	0.00	0.00	24.17
rs73160866	9,10-DiHOME levels	GCST90200353	22	26450338	A	G	7557	-0.10	0.02	0.00	0.00	21.26
rs11285574 9	Linoleate (18:2n6) levels	GCST90200354	2	227407375	T	C	8260	-0.19	0.04	0.00	0.00	19.75
rs12497825	Linoleate (18:2n6) levels	GCST90200354	3	47628057	T	A	8260	-0.08	0.02	0.00	0.00	24.17
rs73215985	Linoleate (18:2n6) levels	GCST90200354	3	132422475	T	C	8260	-0.11	0.02	0.00	0.00	20.61
rs11653075 3	Linoleate (18:2n6) levels	GCST90200354	4	156785921	A	G	8260	-0.16	0.03	0.00	0.00	23.13
rs76646409	Linoleate (18:2n6) levels	GCST90200354	4	185629591	A	C	8260	-0.14	0.03	0.00	0.00	26.04
rs11441444 2	Linoleate (18:2n6) levels	GCST90200354	5	21817138	G	A	8260	-0.15	0.03	0.00	0.00	20.67
rs150621	Linoleate (18:2n6) levels	GCST90200354	5	37284624	G	A	8260	0.07	0.02	0.00	0.00	20.26
rs79859092	Linoleate (18:2n6) levels	GCST90200354	5	96814807	C	T	8260	-0.18	0.04	0.00	0.00	19.98
rs197490	Linoleate (18:2n6) levels	GCST90200354	6	142741666	C	T	8260	-0.07	0.02	0.00	0.00	21.78
rs11796684 7	Linoleate (18:2n6) levels	GCST90200354	8	81655670	A	G	8260	-0.21	0.04	0.00	0.00	23.16
rs79715983	Linoleate (18:2n6) levels	GCST90200354	9	14170637	C	T	8260	0.11	0.02	0.00	0.00	24.16
rs7046078	Linoleate (18:2n6) levels	GCST90200354	9	111824866	G	A	8260	0.07	0.02	0.00	0.00	20.98
rs11733285 9	Linoleate (18:2n6) levels	GCST90200354	11	9551285	A	G	8260	0.37	0.08	0.00	0.00	20.75
rs79507970	Linoleate (18:2n6) levels	GCST90200354	12	24993537	C	G	8260	0.26	0.05	0.00	0.00	23.37
rs11052059	Linoleate (18:2n6) levels	GCST90200354	12	32540963	A	G	8260	0.15	0.03	0.00	0.00	21.22
rs11183167	Linoleate (18:2n6) levels	GCST90200354	12	45692313	G	A	8260	0.11	0.02	0.00	0.00	25.16
rs14307206 8	Linoleate (18:2n6) levels	GCST90200354	13	109276811	C	T	8260	-0.26	0.06	0.00	0.00	20.95
rs11734402 6	Linoleate (18:2n6) levels	GCST90200354	16	57964839	T	G	8260	-0.19	0.04	0.00	0.00	20.62
rs11391569 1	Linoleate (18:2n6) levels	GCST90200354	19	56248382	A	G	8260	-0.14	0.03	0.00	0.00	21.63
rs6086526	Linoleate (18:2n6) levels	GCST90200354	20	8593394	A	C	8260	-0.09	0.02	0.00	0.00	19.63
rs6043232	Linoleate (18:2n6) levels	GCST90200354	20	15360716	G	C	8260	-0.08	0.02	0.00	0.00	19.64
rs56662359 6	Linoleate (18:2n6) levels	GCST90200354	20	26237585	C	T	8260	-0.61	0.12	0.00	0.00	26.05
rs41297593	Adenosine 5'-diphosphate (ADP) levels	GCST90200355	1	39896111	C	G	4607	-0.13	0.03	0.00	0.00	21.25
rs76969758	Adenosine 5'-diphosphate (ADP) levels	GCST90200355	1	92125215	A	G	4607	0.29	0.06	0.00	0.00	22.23
rs18496571 0	Adenosine 5'-diphosphate (ADP) levels	GCST90200355	1	233676325	G	A	4607	-0.22	0.05	0.00	0.00	20.35
rs11256015 1	Adenosine 5'-diphosphate (ADP) levels	GCST90200355	2	117616115	T	C	4607	0.26	0.06	0.00	0.00	19.76

rs80332390	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	2	234191055	C	A	4607	0.29	0.06	0.00	0.00	23.02
rs14262237 3	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	3	118567183	T	C	4607	-0.17	0.04	0.00	0.00	21.24
rs12154017	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	6	10974455	A	G	4607	0.12	0.03	0.00	0.00	19.86
rs10236510	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	7	119632797	A	G	4607	-0.13	0.03	0.00	0.00	22.96
rs10503585	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	8	16856688	C	T	4607	-0.09	0.02	0.00	0.00	19.78
rs74754867	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	8	26932905	C	T	4607	0.36	0.07	0.00	0.01	25.02
rs7829662	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	8	100846652	G	T	4607	-0.15	0.03	0.00	0.01	24.77
rs66628241	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	9	7908256	T	C	4607	0.17	0.04	0.00	0.00	20.27
rs12003375	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	9	29378733	G	A	4607	0.11	0.02	0.00	0.01	23.25
rs72777711	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	10	11975968	C	A	4607	-0.19	0.04	0.00	0.00	21.07
rs2279601	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	10	86970420	G	A	4607	0.09	0.02	0.00	0.00	19.76
rs77506352	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	10	122384116	T	C	4607	-0.19	0.04	0.00	0.00	21.97
rs2299639	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	11	17419838	T	C	4607	-0.11	0.03	0.00	0.00	19.97
rs11771777 5	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	12	5278207	T	C	4607	-0.33	0.08	0.00	0.00	19.63
rs11773952 2	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	13	83396878	G	T	4607	0.35	0.08	0.00	0.00	21.06
rs2181066	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	14	95684913	T	C	4607	0.10	0.02	0.00	0.00	21.14
rs11203639 4	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	16	4812786	C	T	4607	-0.14	0.03	0.00	0.01	24.02
rs10468503	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	17	54661426	G	A	4607	0.14	0.03	0.00	0.00	22.14
rs62103136	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	19	34032190	C	T	4607	-0.17	0.04	0.00	0.00	20.46
rs76209394	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	21	42119054	T	C	4607	-0.22	0.05	0.00	0.00	22.57
rs79369357	Adenosine 5'- diphosphate (ADP) levels	GCST90200355	22	47566825	T	G	4607	-0.39	0.09	0.00	0.00	19.85
rs56337840	Adenosine 5'- monophosphat e (AMP) levels	GCST90200356	1	10854500	T	G	8218	-0.33	0.07	0.00	0.00	20.49
rs2744738	Adenosine 5'- monophosphat e (AMP) levels	GCST90200356	1	22225320	C	T	8218	-0.07	0.02	0.00	0.00	21.59
rs4856547	Adenosine 5'- monophosphat e (AMP) levels	GCST90200356	3	84791842	T	C	8218	-0.08	0.02	0.00	0.00	21.91

rs79386316	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	3	184391714	T	C	8218	0.14	0.03	0.00	0.00	21.67
rs17447439	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	3	189831634	G	A	8218	-0.17	0.04	0.00	0.00	19.80
rs2924463	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	5	8063981	A	G	8218	0.13	0.03	0.00	0.00	20.32
rs148214235	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	5	104075839	T	C	8218	0.11	0.02	0.00	0.00	19.90
rs62488266	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	7	113712411	A	T	8218	-0.19	0.04	0.00	0.00	19.93
rs806032	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	9	4097344	T	C	8218	0.07	0.02	0.00	0.00	20.05
rs139721493	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	10	58793279	T	C	8218	0.24	0.05	0.00	0.00	21.62
rs118182258	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	10	60980126	A	G	8218	0.23	0.05	0.00	0.00	22.69
rs2264772	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	12	116440229	G	C	8218	0.08	0.02	0.00	0.00	22.26
rs112614069	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	13	69301289	A	G	8218	0.19	0.04	0.00	0.00	21.71
rs144612973	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	14	44213611	G	A	8218	0.09	0.02	0.00	0.00	20.12
rs12941798	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	17	55212120	A	G	8218	-0.08	0.02	0.00	0.00	22.00
rs118103311	Adenosine 5'-monophosphate (AMP) levels	GCST90200356	18	74407627	C	T	8218	-0.26	0.06	0.00	0.00	20.15
rs18255327	3',5'-cyclic monophosphate (camn) levels	GCST90200357	1	30221668	C	T	6756	-0.35	0.08	0.00	0.00	20.81
rs706458	3',5'-cyclic monophosphate (camn) levels	GCST90200357	1	58455760	C	T	6756	-0.10	0.02	0.00	0.00	20.86
rs114034845	3',5'-cyclic monophosphate (camn) levels	GCST90200357	1	208457639	T	C	6756	0.32	0.07	0.00	0.00	20.82
rs79950599	3',5'-cyclic monophosphate (camn) levels	GCST90200357	1	236683995	T	C	6756	0.27	0.06	0.00	0.00	19.59
rs17596628	3',5'-cyclic monophosphate (camn) levels	GCST90200357	2	59684093	C	G	6756	-0.28	0.05	0.00	0.00	30.12
rs4848635	3',5'-cyclic monophosphate (camn) levels	GCST90200357	2	120811900	G	C	6756	0.08	0.02	0.00	0.00	21.18
rs149909923	3',5'-cyclic monophosphate (camn) levels	GCST90200357	2	130907724	T	C	6756	-0.10	0.02	0.00	0.00	24.28
rs9860446	3',5'-cyclic monophosphate (camn) levels	GCST90200357	3	7220800	A	T	6756	0.08	0.02	0.00	0.00	23.53

rs4687147	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	3	190505738	C	T	6756	0.10	0.02	0.00	0.00	19.54
rs66951727	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	4	35077544	C	T	6756	0.10	0.02	0.00	0.00	22.68
rs2054576	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	4	88107623	G	A	6756	-0.19	0.03	0.00	0.01	41.76
rs7672751	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	4	186984925	T	C	6756	-0.16	0.03	0.00	0.00	21.15
rs55653958	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	5	69352898	C	T	6756	0.25	0.05	0.00	0.00	21.75
rs79015260	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	7	6283558	A	G	6756	-0.20	0.04	0.00	0.00	19.83
rs4719374	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	7	13656540	A	G	6756	-0.09	0.02	0.00	0.00	20.02
rs10243245	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	7	149022979	C	T	6756	0.31	0.07	0.00	0.00	19.53
rs10085931	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	8	18387939	G	A	6756	-0.10	0.02	0.00	0.00	21.61
rs1461338	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	9	24977203	G	A	6756	0.11	0.02	0.00	0.00	22.51
rs10858153	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	9	135716716	T	C	6756	-0.09	0.02	0.00	0.00	21.74
rs1291879	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	10	11048674	G	A	6756	-0.13	0.03	0.00	0.00	19.93
rs11159912 1	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	10	30702037	A	G	6756	0.19	0.04	0.00	0.00	20.31
rs80060612	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	11	133723230	C	T	6756	0.16	0.03	0.00	0.00	23.95
rs9516557	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	13	95283173	A	G	6756	-0.14	0.02	0.00	0.01	57.63
rs2484984	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	13	95326569	C	A	6756	-0.08	0.02	0.00	0.00	21.22
rs4773143	Adenosine 3',5'-cyclic monophosphat e (camn) levels Adenosine	GCST90200357	13	110308338	C	T	6756	-0.08	0.02	0.00	0.00	24.36
rs14224357 9	Adenosine 3',5'-cyclic monophosphat e (camn) levels	GCST90200357	14	81920338	A	T	6756	0.32	0.07	0.00	0.00	22.22

rs76541707	Adenosine 3',5'-cyclic monophosphate (camp) levels	GCST90200357	15	88681884	A	G	6756	-0.21	0.05	0.00	0.00	19.57
rs171583	Adenosine 3',5'-cyclic monophosphate (camp) levels	GCST90200357	16	16038475	G	A	6756	-0.11	0.02	0.00	0.00	32.49
rs149272215	Adenosine 3',5'-cyclic monophosphate (camp) levels	GCST90200357	16	75392301	C	A	6756	-0.30	0.07	0.00	0.00	20.49
rs532428935	Adenosine 3',5'-cyclic monophosphate (camp) levels	GCST90200357	17	21140080	A	G	6756	-0.30	0.06	0.00	0.00	25.50
rs117310067	Adenosine 3',5'-cyclic monophosphate (camp) levels	GCST90200357	18	32663616	T	C	6756	-0.38	0.08	0.00	0.00	20.02
rs7413889	Arachidonate (20:4n6) levels	GCST90200358	1	5117216	G	T	8272	-0.07	0.02	0.00	0.00	21.37
rs78719682	Arachidonate (20:4n6) levels	GCST90200358	2	119395406	G	A	8272	0.14	0.03	0.00	0.00	22.25
rs4684366	Arachidonate (20:4n6) levels	GCST90200358	3	2871333	C	T	8272	-0.08	0.02	0.00	0.00	20.97
rs114964512	Arachidonate (20:4n6) levels	GCST90200358	3	48422390	G	T	8272	0.25	0.06	0.00	0.00	20.06
rs78685519	Arachidonate (20:4n6) levels	GCST90200358	4	48024799	T	G	8272	0.09	0.02	0.00	0.00	19.96
rs11131312	Arachidonate (20:4n6) levels	GCST90200358	4	61234778	T	A	8272	-0.07	0.02	0.00	0.00	20.30
rs17686579	Arachidonate (20:4n6) levels	GCST90200358	4	149408424	C	A	8272	-0.08	0.02	0.00	0.00	21.90
rs710362	Arachidonate (20:4n6) levels	GCST90200358	5	87845250	G	A	8272	0.16	0.03	0.00	0.00	19.88
rs17674015	Arachidonate (20:4n6) levels	GCST90200358	5	132026085	A	C	8272	0.07	0.02	0.00	0.00	20.01
rs116213385	Arachidonate (20:4n6) levels	GCST90200358	5	170030685	T	A	8272	-0.25	0.05	0.00	0.00	20.82
rs183683891	Arachidonate (20:4n6) levels	GCST90200358	6	132781317	T	C	8272	-0.34	0.07	0.00	0.00	20.93
rs192569019	Arachidonate (20:4n6) levels	GCST90200358	6	138799354	C	T	8272	0.35	0.07	0.00	0.00	21.69
rs139278946	Arachidonate (20:4n6) levels	GCST90200358	7	96776335	A	T	8272	-0.23	0.05	0.00	0.00	23.20
rs7829147	Arachidonate (20:4n6) levels	GCST90200358	8	15048453	A	G	8272	-0.07	0.02	0.00	0.00	20.79
rs117756469	Arachidonate (20:4n6) levels	GCST90200358	8	38084362	T	C	8272	0.23	0.05	0.00	0.00	22.38
rs79715983	Arachidonate (20:4n6) levels	GCST90200358	9	14170637	C	T	8272	0.10	0.02	0.00	0.00	19.61
rs150941261	Arachidonate (20:4n6) levels	GCST90200358	10	129642407	C	T	8272	-0.33	0.07	0.00	0.00	23.72
rs102275	Arachidonate (20:4n6) levels	GCST90200358	11	61790331	C	T	8272	-0.31	0.02	0.00	0.05	407.27
rs79215615	Arachidonate (20:4n6) levels	GCST90200358	11	62127972	G	A	8272	-0.29	0.06	0.00	0.00	20.47
rs10765739	Arachidonate (20:4n6) levels	GCST90200358	11	95466150	C	A	8272	0.07	0.02	0.00	0.00	20.24
rs2045842	Arachidonate (20:4n6) levels	GCST90200358	11	97619774	T	C	8272	-0.10	0.02	0.00	0.00	20.33
rs12431272	Arachidonate (20:4n6) levels	GCST90200358	13	31391571	G	A	8272	0.18	0.04	0.00	0.00	22.29
rs9545715	Arachidonate (20:4n6) levels	GCST90200358	13	81469066	C	G	8272	-0.08	0.02	0.00	0.00	25.64
rs12928099	Arachidonate (20:4n6) levels	GCST90200358	16	15056648	A	C	8272	0.08	0.02	0.00	0.00	20.71
rs12451489	Arachidonate (20:4n6) levels	GCST90200358	17	76826911	C	G	8272	-0.07	0.02	0.00	0.00	19.54
rs146567317	Arachidonate (20:4n6) levels	GCST90200358	17	83095380	A	G	8272	-0.30	0.07	0.00	0.00	19.77
rs145236408	Arachidonate (20:4n6) levels	GCST90200358	19	5331366	T	C	8272	-0.33	0.07	0.00	0.00	20.81

rs14297437	Arachidonate (20:4n6) levels	GCST90200358	19	8223911	T	C	8272	-0.20	0.04	0.00	0.00	20.56
rs11770202	Arachidonate (20:4n6) levels	GCST90200358	19	17993318	A	G	8272	-0.14	0.03	0.00	0.00	22.16
rs78721504	Arachidonate (20:4n6) levels	GCST90200358	20	51763193	A	G	8272	-0.20	0.04	0.00	0.00	20.10
rs11730663	Arachidonate (20:4n6) levels	GCST90200358	22	27418098	A	C	8272	-0.16	0.03	0.00	0.00	24.65
rs12628438	Arachidonate (20:4n6) levels	GCST90200358	22	49609657	C	G	8272	-0.10	0.02	0.00	0.00	23.83
rs11580751	methylthioadenosine (mta) levels	GCST90200359	1	158767214	A	C	8210	0.11	0.02	0.00	0.00	22.29
rs10497814	methylthioadenosine (mta) levels	GCST90200359	2	198096744	G	A	8210	0.14	0.03	0.00	0.00	21.52
rs1047891	methylthioadenosine (mta) levels	GCST90200359	2	210675783	A	C	8210	-0.11	0.02	0.00	0.01	43.00
rs4544437	methylthioadenosine (mta) levels	GCST90200359	2	215927585	T	C	8210	-0.09	0.02	0.00	0.00	23.85
rs10445741	methylthioadenosine (mta) levels	GCST90200359	2	229243032	T	C	8210	0.07	0.02	0.00	0.00	20.77
rs2663277	methylthioadenosine (mta) levels	GCST90200359	4	125264247	C	T	8210	-0.07	0.02	0.00	0.00	19.51
rs62334892	methylthioadenosine (mta) levels	GCST90200359	4	169039486	G	A	8210	-0.18	0.04	0.00	0.00	20.19
rs13951701	methylthioadenosine (mta) levels	GCST90200359	5	71751143	A	C	8210	-0.22	0.05	0.00	0.00	19.72
rs13355726	methylthioadenosine (mta) levels	GCST90200359	5	147880711	C	T	8210	-0.09	0.02	0.00	0.00	20.63
rs9471975	methylthioadenosine (mta) levels	GCST90200359	6	42951484	C	T	8210	0.09	0.02	0.00	0.00	38.89
rs17410405	methylthioadenosine (mta) levels	GCST90200359	6	75435291	C	T	8210	0.32	0.07	0.00	0.00	20.10
rs4870052	methylthioadenosine (mta) levels	GCST90200359	6	149839978	A	G	8210	-0.10	0.02	0.00	0.01	42.60
rs662138	methylthioadenosine (mta) levels	GCST90200359	6	160143444	G	C	8210	-0.11	0.02	0.00	0.00	33.61
rs14857864	methylthioadenosine (mta) levels	GCST90200359	7	10419029	A	G	8210	-0.27	0.06	0.00	0.00	19.61
rs11686170	methylthioadenosine (mta) levels	GCST90200359	8	38659098	C	T	8210	-0.28	0.06	0.00	0.00	19.85
rs1039336	methylthioadenosine (mta) levels	GCST90200359	9	8376287	G	A	8210	-0.08	0.02	0.00	0.00	20.66

rs111936620	5-methylthioadenosine (mta) levels	GCST90200359	10	71527041	T	C	8210	0.37	0.08	0.00	0.00	22.00
rs11200908	5-methylthioadenosine (mta) levels	GCST90200359	10	84181230	T	A	8210	-0.08	0.02	0.00	0.00	21.72
rs144145554	5-methylthioadenosine (mta) levels	GCST90200359	10	102106684	A	G	8210	0.23	0.05	0.00	0.00	22.65
rs79553426	5-methylthioadenosine (mta) levels	GCST90200359	13	22499793	A	G	8210	-0.25	0.06	0.00	0.00	20.43
rs1373567	5-methylthioadenosine (mta) levels	GCST90200359	13	43271845	G	A	8210	0.08	0.02	0.00	0.00	19.51
rs183900347	5-methylthioadenosine (mta) levels	GCST90200359	13	100223843	G	A	8210	0.37	0.08	0.00	0.00	22.17
rs2186080	5-methylthioadenosine (mta) levels	GCST90200359	14	62449441	A	G	8210	0.07	0.02	0.00	0.00	21.36
rs2351495	5-methylthioadenosine (mta) levels	GCST90200359	15	89762583	G	T	8210	-0.20	0.04	0.00	0.00	20.81
rs41278174	5-methylthioadenosine (mta) levels	GCST90200359	16	16165739	A	G	8210	0.29	0.05	0.00	0.00	37.19
rs212469	5-methylthioadenosine (mta) levels	GCST90200359	17	34397322	A	C	8210	0.08	0.02	0.00	0.00	23.64
rs135586	5-methylthioadenosine (mta) levels	GCST90200359	22	47602335	G	T	8210	-0.07	0.02	0.00	0.00	20.58
rs74998052	Cortisone levels	GCST90200360	1	116169298	A	C	8153	-0.23	0.05	0.00	0.00	20.83
rs114516108	Cortisone levels	GCST90200360	2	149374369	T	C	8153	0.19	0.04	0.00	0.00	20.35
rs58426046	Cortisone levels	GCST90200360	3	78305168	A	C	8153	-0.18	0.04	0.00	0.00	22.05
rs56155732	Cortisone levels	GCST90200360	3	116790409	G	T	8153	-0.07	0.02	0.00	0.00	19.60
rs115679395	Cortisone levels	GCST90200360	4	12517438	G	C	8153	-0.29	0.06	0.00	0.00	23.35
rs28617425	Cortisone levels	GCST90200360	4	25310156	G	C	8153	0.08	0.02	0.00	0.00	19.55
rs115916364	Cortisone levels	GCST90200360	4	170129132	T	G	8153	-0.20	0.04	0.00	0.00	25.89
rs6934373	Cortisone levels	GCST90200360	6	10180304	C	T	8153	-0.33	0.07	0.00	0.00	23.00
rs763097	Cortisone levels	GCST90200360	6	36125553	A	G	8153	0.09	0.02	0.00	0.00	22.27
rs1330804	Cortisone levels	GCST90200360	6	113238996	A	G	8153	0.08	0.02	0.00	0.00	21.64
rs11254304	Cortisone levels	GCST90200360	10	6732694	A	G	8153	-0.16	0.04	0.00	0.00	20.15
rs2512642	Cortisone levels	GCST90200360	11	131407161	A	G	8153	-0.11	0.02	0.00	0.00	20.17
rs575569133	Cortisone levels	GCST90200360	13	43163024	A	C	8153	0.24	0.05	0.00	0.00	20.80
rs8003944	Cortisone levels	GCST90200360	14	34833079	A	C	8153	0.07	0.02	0.00	0.00	20.37
rs11662439	Cortisone levels	GCST90200360	18	40354922	A	G	8153	0.28	0.06	0.00	0.00	21.03

rs9798519	Cortisone levels	GCST90200360	20	61238309	A	G	8153	-0.11	0.03	0.00	0.00	19.59
rs111993715	Cortisone levels	GCST90200360	22	36196809	T	C	8153	-0.41	0.09	0.00	0.00	20.79
rs4246514	Beta-alanine levels	GCST90200361	1	97832175	G	C	8114	0.09	0.02	0.00	0.00	20.64
rs12998269	Beta-alanine levels	GCST90200361	2	217302229	T	A	8114	0.07	0.02	0.00	0.00	21.64
rs182337324	Beta-alanine levels	GCST90200361	2	231080909	A	G	8114	0.30	0.06	0.00	0.00	26.73
rs116789695	Beta-alanine levels	GCST90200361	3	18653507	T	C	8114	0.22	0.05	0.00	0.00	21.57
rs6780429	Beta-alanine levels	GCST90200361	3	30708912	C	A	8114	-0.19	0.02	0.00	0.02	154.93
rs114194939	Beta-alanine levels	GCST90200361	3	138493559	A	G	8114	-0.25	0.06	0.00	0.00	20.28
rs114145973	Beta-alanine levels	GCST90200361	3	154682591	A	T	8114	0.17	0.04	0.00	0.00	19.62
rs7668649	Beta-alanine levels	GCST90200361	4	7268613	G	A	8114	0.07	0.02	0.00	0.00	21.60
rs138073555	Beta-alanine levels	GCST90200361	4	10593218	G	T	8114	0.40	0.08	0.00	0.00	25.20
rs10212920	Beta-alanine levels	GCST90200361	4	27605028	C	T	8114	0.08	0.02	0.00	0.00	27.03
rs72818539	Beta-alanine levels	GCST90200361	5	160684941	C	T	8114	0.30	0.06	0.00	0.00	22.59
rs1748433	Beta-alanine levels	GCST90200361	6	23676859	C	T	8114	-0.08	0.02	0.00	0.00	20.89
rs2263370	Beta-alanine levels	GCST90200361	6	101227393	A	G	8114	0.08	0.02	0.00	0.00	19.60
rs79041146	Beta-alanine levels	GCST90200361	8	127513454	G	T	8114	-0.17	0.04	0.00	0.00	19.63
rs11185889	Beta-alanine levels	GCST90200361	10	89813619	C	T	8114	0.09	0.02	0.00	0.00	21.69
rs12578256	Beta-alanine levels	GCST90200361	12	124317934	A	T	8114	-0.09	0.02	0.00	0.00	21.21
rs72662543	Beta-alanine levels	GCST90200361	14	28375855	C	A	8114	0.16	0.04	0.00	0.00	20.14
rs79240084	Beta-alanine levels	GCST90200361	15	66489922	G	C	8114	-0.29	0.06	0.00	0.00	20.01
rs72764780	Beta-alanine levels	GCST90200361	15	85998774	A	G	8114	0.12	0.03	0.00	0.00	20.49
rs72810510	Beta-alanine levels	GCST90200361	16	55874958	T	C	8114	0.27	0.06	0.00	0.00	20.25
rs12160583	Beta-alanine levels	GCST90200361	22	22713206	A	G	8114	0.44	0.10	0.00	0.00	20.06
rs118179979	Beta-alanine levels	GCST90200361	22	26363288	C	G	8114	0.44	0.09	0.00	0.00	26.28
rs75668162	Succinate levels	GCST90200362	1	61040197	T	C	7943	-0.37	0.08	0.00	0.00	21.49
rs75063089	Succinate levels	GCST90200362	1	99366276	A	G	7943	-0.44	0.09	0.00	0.00	24.32
rs139641222	Succinate levels	GCST90200362	1	182886750	C	T	7943	-0.37	0.08	0.00	0.00	21.34
rs112395657	Succinate levels	GCST90200362	2	181841114	G	A	7943	-0.21	0.05	0.00	0.00	21.21
rs75840919	Succinate levels	GCST90200362	2	235191516	T	C	7943	0.22	0.05	0.00	0.00	20.57
rs6784383	Succinate levels	GCST90200362	3	55542676	C	T	7943	0.31	0.07	0.00	0.00	21.35
rs75039175	Succinate levels	GCST90200362	3	96024434	T	C	7943	0.39	0.09	0.00	0.00	19.60
rs6794935	Succinate levels	GCST90200362	3	115652686	T	G	7943	0.08	0.02	0.00	0.00	19.67
rs78010144	Succinate levels	GCST90200362	3	191725661	G	A	7943	-0.46	0.10	0.00	0.00	23.02
rs10011572	Succinate levels	GCST90200362	4	184006257	T	G	7943	-0.09	0.02	0.00	0.00	20.47
rs79884158	Succinate levels	GCST90200362	5	95858405	T	C	7943	-0.38	0.09	0.00	0.00	20.16
rs118001555	Succinate levels	GCST90200362	5	179639867	A	G	7943	0.41	0.09	0.00	0.00	22.96
rs12207685	Succinate levels	GCST90200362	6	56661876	T	C	7943	-0.22	0.05	0.00	0.00	20.17

rs75318517	Succinate levels	GCST90200362	7	25038327	T	C	7943	-0.23	0.05	0.00	0.00	19.61
rs533055952	Succinate levels	GCST90200362	8	138661118	C	A	7943	0.13	0.03	0.00	0.00	20.29
rs4837476	Succinate levels	GCST90200362	9	130175254	C	T	7943	-0.09	0.02	0.00	0.00	21.60
rs390266	Succinate levels	GCST90200362	11	2898239	A	G	7943	0.08	0.02	0.00	0.00	21.47
rs11176426	Succinate levels	GCST90200362	12	66783645	T	C	7943	0.12	0.03	0.00	0.00	20.40
rs77933094	Succinate levels	GCST90200362	12	94426658	C	T	7943	-0.35	0.08	0.00	0.00	19.68
rs138715624	Succinate levels	GCST90200362	12	109089297	T	C	7943	-0.34	0.07	0.00	0.00	21.91
rs1333261	Succinate levels	GCST90200362	13	94253849	T	C	7943	-0.09	0.02	0.00	0.00	22.12
rs73530356	Succinate levels	GCST90200362	16	6357627	C	G	7943	-2.18	0.49	0.00	0.00	20.06
rs34466066	Succinate levels	GCST90200362	16	78244112	G	T	7943	-0.09	0.02	0.00	0.00	19.98
rs9905991	Succinate levels	GCST90200362	17	82094197	G	A	7943	0.07	0.02	0.00	0.00	20.77
rs117024175	Succinate levels	GCST90200362	20	2155948	T	C	7943	-1.49	0.32	0.00	0.00	21.09
rs118145288	Succinate levels	GCST90200362	20	16055888	C	A	7943	-0.21	0.04	0.00	0.00	21.08
rs56704741	Phosphocholine levels	GCST90200363	1	21378351	C	T	8245	-0.09	0.02	0.00	0.00	28.59
rs1780318	Phosphocholine levels	GCST90200363	1	21569132	T	A	8245	0.30	0.03	0.00	0.01	82.59
rs2198361	Phosphocholine levels	GCST90200363	2	11062675	G	A	8245	-0.07	0.02	0.00	0.00	20.09
rs55720386	Phosphocholine levels	GCST90200363	2	36745944	C	T	8245	-0.16	0.04	0.00	0.00	19.70
rs11925835	Phosphocholine levels	GCST90200363	3	56831417	C	T	8245	0.08	0.02	0.00	0.00	22.70
rs111941498	Phosphocholine levels	GCST90200363	3	70699051	G	T	8245	-0.34	0.08	0.00	0.00	19.58
rs77399645	Phosphocholine levels	GCST90200363	3	186269792	T	C	8245	-0.24	0.05	0.00	0.00	20.18
rs78293932	Phosphocholine levels	GCST90200363	4	184217948	T	C	8245	0.27	0.05	0.00	0.00	24.78
rs61156096	Phosphocholine levels	GCST90200363	5	77548160	T	A	8245	-0.27	0.06	0.00	0.00	20.44
rs142494088	Phosphocholine levels	GCST90200363	5	118358933	A	G	8245	0.29	0.06	0.00	0.00	20.09
rs35686288	Phosphocholine levels	GCST90200363	5	153553636	C	T	8245	-0.11	0.02	0.00	0.00	20.16
rs7715478	Phosphocholine levels	GCST90200363	5	170038857	A	G	8245	-0.07	0.02	0.00	0.00	20.14
rs9393424	Phosphocholine levels	GCST90200363	6	23631885	A	T	8245	0.08	0.02	0.00	0.00	21.33
rs114695683	Phosphocholine levels	GCST90200363	6	45923520	G	C	8245	0.22	0.05	0.00	0.00	21.60
rs140250085	Phosphocholine levels	GCST90200363	6	78227938	A	G	8245	0.17	0.04	0.00	0.00	19.70
rs117113720	Phosphocholine levels	GCST90200363	7	12959133	G	A	8245	0.27	0.06	0.00	0.00	19.91
rs117125473	Phosphocholine levels	GCST90200363	7	38174157	G	A	8245	-1.31	0.28	0.00	0.00	21.27
rs10255591	Phosphocholine levels	GCST90200363	7	76117091	C	T	8245	-0.08	0.02	0.00	0.00	19.92
rs116877216	Phosphocholine levels	GCST90200363	7	99955284	T	C	8245	-0.47	0.10	0.00	0.00	24.02
rs117652714	Phosphocholine levels	GCST90200363	7	136122435	A	G	8245	-0.23	0.05	0.00	0.00	21.65
rs75129536	Phosphocholine levels	GCST90200363	8	37530345	A	G	8245	-0.15	0.03	0.00	0.00	22.02
rs74123055	Phosphocholine levels	GCST90200363	10	22497829	C	T	8245	0.29	0.06	0.00	0.00	21.58
rs1873462	Phosphocholine levels	GCST90200363	10	76391437	T	A	8245	0.16	0.03	0.00	0.00	24.10
rs4945386	Phosphocholine levels	GCST90200363	11	79937336	A	G	8245	0.12	0.03	0.00	0.00	24.06

rs66559729	Phosphocholine levels	GCST90200363	11	127232540	A	T	8245	-0.08	0.02	0.00	0.00	22.38
rs1274496	Phosphocholine levels	GCST90200363	12	56231909	A	C	8245	-0.15	0.03	0.00	0.00	23.54
rs4143296	Phosphocholine levels	GCST90200363	13	107767279	A	C	8245	-0.16	0.04	0.00	0.00	20.00
rs34544938	Phosphocholine levels	GCST90200363	14	42552146	T	A	8245	-0.28	0.06	0.00	0.00	20.66
rs113464900	Phosphocholine levels	GCST90200363	15	89425268	G	A	8245	0.10	0.02	0.00	0.00	22.63
rs72761651	Phosphocholine levels	GCST90200363	15	101680241	T	C	8245	-0.13	0.03	0.00	0.00	20.53
rs55708662	Phosphocholine levels	GCST90200363	16	64029730	C	T	8245	0.15	0.03	0.00	0.00	23.37
rs7210041	Phosphocholine levels	GCST90200363	17	48036456	T	C	8245	0.14	0.03	0.00	0.00	19.85
rs56208992	Phosphocholine levels	GCST90200363	19	39944623	C	T	8245	0.11	0.02	0.00	0.00	19.55
rs6030477	Phosphocholine levels	GCST90200363	20	42796598	A	G	8245	-0.14	0.03	0.00	0.00	20.86
rs75642681	Phosphocholine levels	GCST90200363	22	24099578	G	A	8245	-0.20	0.03	0.00	0.00	33.76
rs12694483	Cysteinyglycine levels	GCST90200364	2	219799690	T	C	8214	0.07	0.02	0.00	0.00	23.11
rs73088289	Cysteinyglycine levels	GCST90200364	2	227215301	T	A	8214	0.22	0.05	0.00	0.00	20.14
rs77819491	Cysteinyglycine levels	GCST90200364	3	39510188	G	A	8214	-0.15	0.03	0.00	0.00	20.16
rs2169644	Cysteinyglycine levels	GCST90200364	3	111110920	T	C	8214	0.17	0.04	0.00	0.00	20.32
rs1871971	Cysteinyglycine levels	GCST90200364	6	44629489	C	G	8214	0.11	0.02	0.00	0.00	20.56
rs145236572	Cysteinyglycine levels	GCST90200364	6	147576245	G	A	8214	0.25	0.06	0.00	0.00	20.45
rs7806265	Cysteinyglycine levels	GCST90200364	7	1794386	T	A	8214	-0.08	0.02	0.00	0.00	21.07
rs17743836	Cysteinyglycine levels	GCST90200364	7	3493788	T	A	8214	0.19	0.04	0.00	0.00	22.16
rs118060208	Cysteinyglycine levels	GCST90200364	10	53284270	T	C	8214	0.18	0.04	0.00	0.00	22.16
rs61865116	Cysteinyglycine levels	GCST90200364	10	84658665	C	T	8214	0.17	0.04	0.00	0.00	20.05
rs9507298	Cysteinyglycine levels	GCST90200364	13	19028580	A	C	8214	0.07	0.02	0.00	0.00	20.49
rs72746838	Cysteinyglycine levels	GCST90200364	15	59235033	C	T	8214	-0.15	0.03	0.00	0.00	25.10
rs17805158	Cysteinyglycine levels	GCST90200364	16	12066471	T	G	8214	-0.07	0.02	0.00	0.00	21.23
rs2062541	Cysteinyglycine levels	GCST90200364	16	16033378	A	G	8214	0.13	0.02	0.00	0.01	65.42
rs409170	Cysteinyglycine levels	GCST90200364	16	89615942	G	A	8214	-0.24	0.02	0.00	0.03	234.17
rs114235860	Cysteinyglycine levels	GCST90200364	17	44557317	C	G	8214	-0.11	0.02	0.00	0.00	21.08
rs188711067	Cysteinyglycine levels	GCST90200364	19	52059338	C	A	8214	0.13	0.02	0.00	0.00	30.53
rs200766	Cysteinyglycine levels	GCST90200364	20	15632411	T	C	8214	0.11	0.02	0.00	0.00	23.67
rs6025627	Cysteinyglycine levels	GCST90200364	20	57557613	C	T	8214	-0.07	0.02	0.00	0.00	20.20
rs4816480	Cysteinyglycine levels	GCST90200364	21	34301228	A	G	8214	-0.07	0.02	0.00	0.00	22.55
rs72675902	Phenylpyruvate levels	GCST90200365	1	79028530	T	C	8241	-0.13	0.03	0.00	0.00	20.45
rs74650804	Phenylpyruvate levels	GCST90200365	2	39940045	T	C	8241	0.34	0.07	0.00	0.00	21.50
rs56823019	Phenylpyruvate levels	GCST90200365	2	65893779	T	G	8241	-0.24	0.05	0.00	0.00	21.45
rs3917335	Phenylpyruvate levels	GCST90200365	2	102154833	T	C	8241	0.17	0.04	0.00	0.00	23.06
rs62176574	Phenylpyruvate levels	GCST90200365	2	178815617	A	G	8241	0.08	0.02	0.00	0.00	22.51
rs12479016	Phenylpyruvate levels	GCST90200365	2	236759421	G	C	8241	0.13	0.03	0.00	0.00	23.69

rs11470233	Phenylpyruvate levels	GCST90200365	3	99740569	A	T	8241	0.25	0.06	0.00	0.00	19.90
rs14925274	Phenylpyruvate levels	GCST90200365	3	100660336	T	G	8241	0.17	0.04	0.00	0.00	20.18
rs76226838	Phenylpyruvate levels	GCST90200365	4	61300225	C	T	8241	0.20	0.04	0.00	0.00	22.69
rs72791845	Phenylpyruvate levels	GCST90200365	5	107581822	A	G	8241	0.28	0.06	0.00	0.00	20.39
rs76268396	Phenylpyruvate levels	GCST90200365	5	163808215	A	G	8241	-0.33	0.07	0.00	0.00	21.53
rs744250	Phenylpyruvate levels	GCST90200365	5	180177447	A	T	8241	-0.12	0.02	0.00	0.00	22.68
rs13177914	Phenylpyruvate levels	GCST90200365	5	180481873	C	G	8241	-0.07	0.02	0.00	0.00	20.82
rs13191380	Phenylpyruvate levels	GCST90200365	6	15759307	G	C	8241	0.08	0.02	0.00	0.00	23.11
rs10756523	Phenylpyruvate levels	GCST90200365	9	13992055	G	A	8241	-0.07	0.02	0.00	0.00	19.61
rs2997922	Phenylpyruvate levels	GCST90200365	9	128818465	T	C	8241	0.14	0.02	0.00	0.01	68.53
rs11259659	Phenylpyruvate levels	GCST90200365	10	15438136	T	G	8241	0.10	0.02	0.00	0.00	27.13
rs14157223	Phenylpyruvate levels	GCST90200365	10	133588306	A	T	8241	0.31	0.07	0.00	0.00	19.80
rs19214279	Phenylpyruvate levels	GCST90200365	11	101164120	T	A	8241	-0.37	0.08	0.00	0.00	20.81
rs14219685	Phenylpyruvate levels	GCST90200365	12	32128134	A	C	8241	0.34	0.08	0.00	0.00	20.12
rs937475	Phenylpyruvate levels	GCST90200365	12	102854494	G	A	8241	-0.08	0.02	0.00	0.00	28.09
rs4761001	Phenylpyruvate levels	GCST90200365	12	127667679	C	A	8241	-0.08	0.02	0.00	0.00	25.91
rs1340836	Phenylpyruvate levels	GCST90200365	13	87406080	T	C	8241	0.09	0.02	0.00	0.00	22.95
rs4778829	Phenylpyruvate levels	GCST90200365	15	80584267	A	G	8241	0.09	0.02	0.00	0.00	20.57
rs1473206	Phenylpyruvate levels	GCST90200365	16	58737529	A	G	8241	-0.11	0.01	0.00	0.01	53.39
rs14552845	Phenylpyruvate levels	GCST90200365	17	71173726	C	G	8241	-0.24	0.05	0.00	0.00	20.27
rs14988778	Phenylpyruvate levels	GCST90200365	18	7737230	A	G	8241	-0.15	0.03	0.00	0.00	19.97
rs10775444	Phenylpyruvate levels	GCST90200365	18	8924412	A	G	8241	-0.08	0.02	0.00	0.00	23.17
rs14516520	Phenylpyruvate levels	GCST90200365	18	72630017	A	G	8241	0.22	0.05	0.00	0.00	21.63
rs12975040	Phenylpyruvate levels	GCST90200365	19	48791691	A	G	8241	0.17	0.04	0.00	0.00	24.19
rs4919979	Phenylpyruvate levels	GCST90200365	21	41872713	G	C	8241	-0.08	0.02	0.00	0.00	20.33
rs11627667	Creatinine levels	GCST90200366	1	19009441	A	G	8239	0.24	0.05	0.00	0.00	19.77
rs1339135	Creatinine levels	GCST90200366	1	164891445	G	A	8239	-0.09	0.02	0.00	0.00	21.23
rs72804857	Creatinine levels	GCST90200366	2	26938608	C	G	8239	-0.08	0.02	0.00	0.00	19.95
rs14021572	Creatinine levels	GCST90200366	3	124179682	A	C	8239	0.47	0.10	0.00	0.00	21.18
rs71298304	Creatinine levels	GCST90200366	3	164162790	A	G	8239	-0.21	0.05	0.00	0.00	20.24
rs10016457	Creatinine levels	GCST90200366	4	57141081	T	G	8239	-0.07	0.01	0.00	0.00	20.64
rs76577211	Creatinine levels	GCST90200366	4	186019322	C	T	8239	-0.35	0.08	0.00	0.00	20.23
rs6882168	Creatinine levels	GCST90200366	5	39402545	T	C	8239	-0.07	0.01	0.00	0.00	21.00
rs555470	Creatinine levels	GCST90200366	5	80925178	C	T	8239	-0.09	0.02	0.00	0.00	21.03
rs11552397	Creatinine levels	GCST90200366	6	2684412	T	C	8239	0.15	0.03	0.00	0.00	19.99
rs2506843	Creatinine levels	GCST90200366	6	138095943	G	C	8239	0.06	0.01	0.00	0.00	19.92
rs11705020	Creatinine levels	GCST90200366	6	147224087	G	A	8239	-0.19	0.04	0.00	0.00	20.20

rs142466161	Creatinine levels	GCST90200366	7	5352292	A	G	8239	-0.33	0.07	0.00	0.00	19.56
rs28419687	Creatinine levels	GCST90200366	7	99427887	T	A	8239	0.12	0.02	0.00	0.00	25.10
rs2976548	Creatinine levels	GCST90200366	8	133355722	A	T	8239	0.06	0.01	0.00	0.00	20.46
rs144707673	Creatinine levels	GCST90200366	9	123863679	T	C	8239	-0.39	0.09	0.00	0.00	20.71
rs1517571	Creatinine levels	GCST90200366	11	28808618	C	A	8239	-0.08	0.02	0.00	0.00	19.96
rs118162901	Creatinine levels	GCST90200366	11	113180763	G	A	8239	-0.24	0.05	0.00	0.00	24.55
rs7308622	Creatinine levels	GCST90200366	12	59860742	C	T	8239	-0.06	0.01	0.00	0.00	21.82
rs117006351	Creatinine levels	GCST90200366	12	131139939	T	C	8239	-0.24	0.05	0.00	0.00	20.06
rs76171931	Creatinine levels	GCST90200366	13	113772763	G	A	8239	0.22	0.05	0.00	0.00	22.24
rs1077697	Creatinine levels	GCST90200366	14	90676435	T	C	8239	0.07	0.01	0.00	0.00	19.86
rs77924615	Creatinine levels	GCST90200366	16	20381010	A	G	8239	-0.10	0.02	0.00	0.00	33.55
rs2902932	Creatinine levels	GCST90200366	18	11096297	A	G	8239	0.07	0.02	0.00	0.00	21.50
rs138595782	Creatinine levels	GCST90200366	19	6059991	T	C	8239	0.26	0.06	0.00	0.00	19.96
rs144949756	Creatinine levels	GCST90200366	21	34797065	A	C	8239	0.34	0.07	0.00	0.00	22.36
rs117340666	Creatinine levels	GCST90200366	21	45942333	T	C	8239	-0.29	0.06	0.00	0.00	21.15
rs146064637	3-Hydroxybutyrate levels	GCST90200367	1	28767548	A	G	8292	0.27	0.06	0.00	0.00	22.94
rs1537758	3-Hydroxybutyrate levels	GCST90200367	1	93199594	A	G	8292	0.10	0.02	0.00	0.00	22.66
rs75408174	3-Hydroxybutyrate levels	GCST90200367	1	170680214	A	G	8292	-0.42	0.09	0.00	0.00	20.14
rs6754815	3-Hydroxybutyrate levels	GCST90200367	2	235052467	G	A	8292	0.09	0.02	0.00	0.00	19.56
rs7695116	3-Hydroxybutyrate levels	GCST90200367	4	171900826	C	G	8292	0.08	0.02	0.00	0.00	22.48
rs12189936	3-Hydroxybutyrate levels	GCST90200367	6	163637232	A	G	8292	0.18	0.04	0.00	0.00	20.42
rs17660635	3-Hydroxybutyrate levels	GCST90200367	8	9339740	G	A	8292	-0.10	0.02	0.00	0.00	29.34
rs34148427	3-Hydroxybutyrate levels	GCST90200367	9	117116690	T	C	8292	0.07	0.02	0.00	0.00	22.77
rs142065685	3-Hydroxybutyrate levels	GCST90200367	12	22238148	T	A	8292	-0.26	0.06	0.00	0.00	19.66
rs11115034	3-Hydroxybutyrate levels	GCST90200367	12	81816555	A	G	8292	-0.07	0.02	0.00	0.00	19.85
rs112131940	3-Hydroxybutyrate levels	GCST90200367	12	131397047	C	T	8292	-0.26	0.06	0.00	0.00	19.55
rs143072068	3-Hydroxybutyrate levels	GCST90200367	13	109276811	C	T	8292	-0.26	0.06	0.00	0.00	19.76
rs77011071	3-Hydroxybutyrate levels	GCST90200367	14	84563554	A	T	8292	-0.15	0.03	0.00	0.00	21.82
rs139590419	3-Hydroxybutyrate levels	GCST90200367	14	98090341	G	A	8292	-0.29	0.06	0.00	0.00	21.24

rs28653623	3-Hydroxybutyrate levels	GCST90200367	15	54844357	T	C	8292	0.10	0.02	0.00	0.00	19.65
rs34555756	3-Hydroxybutyrate levels	GCST90200367	20	62675279	A	G	8292	-0.11	0.02	0.00	0.00	21.16
rs4823981	3-Hydroxybutyrate levels	GCST90200367	22	49052352	T	G	8292	-0.08	0.02	0.00	0.00	23.13
rs1168041	Cholesterol levels	GCST90200368	1	62494579	C	T	8258	0.09	0.02	0.00	0.00	33.32
rs189716223	Cholesterol levels	GCST90200368	2	186509934	C	T	8258	-0.28	0.06	0.00	0.00	19.67
rs7680610	Cholesterol levels	GCST90200368	4	24116542	G	A	8258	-0.07	0.02	0.00	0.00	21.44
rs4410646	Cholesterol levels	GCST90200368	5	42569540	A	C	8258	-0.12	0.03	0.00	0.00	20.47
rs11241554	Cholesterol levels	GCST90200368	5	120582304	G	A	8258	-0.07	0.02	0.00	0.00	20.30
rs9345011	Cholesterol levels	GCST90200368	6	90410745	C	T	8258	0.07	0.02	0.00	0.00	20.50
rs1889819	Cholesterol levels	GCST90200368	9	9186007	C	G	8258	0.07	0.02	0.00	0.00	22.06
rs181675394	Cholesterol levels	GCST90200368	9	31392542	T	C	8258	0.28	0.06	0.00	0.00	20.54
rs78871628	Cholesterol levels	GCST90200368	9	37826581	A	G	8258	-0.33	0.07	0.00	0.00	22.15
rs10908901	Cholesterol levels	GCST90200368	9	89608274	T	C	8258	-0.47	0.10	0.00	0.00	21.94
rs12218877	Cholesterol levels	GCST90200368	10	14449372	C	T	8258	0.13	0.03	0.00	0.00	19.63
rs150739936	Cholesterol levels	GCST90200368	10	42654386	C	G	8258	0.44	0.09	0.00	0.00	23.51
rs118165736	Cholesterol levels	GCST90200368	10	61680307	A	T	8258	-0.28	0.06	0.00	0.00	20.20
rs184860164	Cholesterol levels	GCST90200368	10	103867854	T	C	8258	0.22	0.05	0.00	0.00	21.48
rs11049279	Cholesterol levels	GCST90200368	12	28010830	C	G	8258	-0.12	0.02	0.00	0.00	22.68
rs2479504	Cholesterol levels	GCST90200368	13	26746266	G	A	8258	0.08	0.02	0.00	0.00	21.01
rs3927443	Cholesterol levels	GCST90200368	13	101816286	G	T	8258	0.08	0.02	0.00	0.00	22.51
rs9514524	Cholesterol levels	GCST90200368	13	106277900	T	C	8258	-0.08	0.02	0.00	0.00	23.39
rs79608464	Cholesterol levels	GCST90200368	16	71298685	A	G	8258	0.26	0.06	0.00	0.00	21.86
rs4810165	Cholesterol levels	GCST90200368	20	59369478	T	C	8258	0.08	0.02	0.00	0.00	20.40
rs1972529	Cholesterol levels	GCST90200368	22	16757508	G	T	8258	-0.07	0.02	0.00	0.00	21.64
rs8139712	Cholesterol levels	GCST90200368	22	36952886	C	T	8258	0.11	0.02	0.00	0.00	22.43
rs77588809	2-hydroxyphenylacetate levels	GCST90200369	1	214877307	A	G	7564	-0.31	0.07	0.00	0.00	19.68
rs6706639	2-hydroxyphenylacetate levels	GCST90200369	2	134062839	A	G	7564	0.12	0.03	0.00	0.00	20.54
rs192079507	2-hydroxyphenylacetate levels	GCST90200369	3	88174098	C	T	7564	0.30	0.07	0.00	0.00	19.77
rs114092125	2-hydroxyphenylacetate levels	GCST90200369	4	14495249	G	A	7564	-0.18	0.04	0.00	0.00	20.63
rs60882594	2-hydroxyphenylacetate levels	GCST90200369	4	37548558	T	A	7564	0.10	0.02	0.00	0.00	20.13
rs1216370	2-hydroxyphenylacetate levels	GCST90200369	4	128574304	G	A	7564	0.11	0.02	0.00	0.00	22.81
rs139079920	2-hydroxyphenylacetate levels	GCST90200369	4	140689987	A	G	7564	0.30	0.06	0.00	0.00	24.08

rs78818214	2-hydroxyphenyl acetate levels	GCST90200369	4	153219817	A	G	7564	-0.34	0.08	0.00	0.00	19.90
rs572071915	2-hydroxyphenyl acetate levels	GCST90200369	4	182934995	A	C	7564	-0.18	0.04	0.00	0.00	19.69
rs72740683	2-hydroxyphenyl acetate levels	GCST90200369	5	27184851	A	G	7564	0.08	0.02	0.00	0.00	20.68
rs116365395	2-hydroxyphenyl acetate levels	GCST90200369	5	180092626	A	G	7564	-0.10	0.02	0.00	0.00	19.79
rs9356529	2-hydroxyphenyl acetate levels	GCST90200369	6	166857651	A	G	7564	-0.08	0.02	0.00	0.00	21.55
rs2935767	2-hydroxyphenyl acetate levels	GCST90200369	8	108645461	C	T	7564	0.09	0.02	0.00	0.00	19.87
rs147802807	2-hydroxyphenyl acetate levels	GCST90200369	9	5591042	T	C	7564	0.26	0.05	0.00	0.00	22.50
rs2977995	2-hydroxyphenyl acetate levels	GCST90200369	9	128821966	G	A	7564	0.18	0.02	0.00	0.01	102.53
rs75390405	2-hydroxyphenyl acetate levels	GCST90200369	10	6672448	G	C	7564	-0.19	0.04	0.00	0.00	20.06
rs117019108	2-hydroxyphenyl acetate levels	GCST90200369	10	45615887	T	C	7564	-0.35	0.07	0.00	0.00	23.44
rs117917716	2-hydroxyphenyl acetate levels	GCST90200369	10	83106126	A	T	7564	0.29	0.07	0.00	0.00	20.07
rs10219460	2-hydroxyphenyl acetate levels	GCST90200369	12	33175458	T	C	7564	-0.15	0.03	0.00	0.00	22.90
rs7974402	2-hydroxyphenyl acetate levels	GCST90200369	12	52742766	T	C	7564	0.09	0.02	0.00	0.00	19.66
rs117814568	2-hydroxyphenyl acetate levels	GCST90200369	12	99604360	G	A	7564	-0.31	0.06	0.00	0.00	23.93
rs11614623	2-hydroxyphenyl acetate levels	GCST90200369	12	121864680	T	C	7564	-0.17	0.02	0.00	0.01	52.04
rs9595199	2-hydroxyphenyl acetate levels	GCST90200369	13	44743477	C	G	7564	-0.09	0.02	0.00	0.00	23.00
rs186061028	2-hydroxyphenyl acetate levels	GCST90200369	13	63440390	T	C	7564	-0.39	0.09	0.00	0.00	20.58
rs114538296	2-hydroxyphenyl acetate levels	GCST90200369	14	80796448	C	A	7564	0.32	0.07	0.00	0.00	20.68
rs55643166	2-hydroxyphenyl acetate levels	GCST90200369	15	60026640	C	T	7564	0.16	0.04	0.00	0.00	19.53
rs670494	2-hydroxyphenyl acetate levels	GCST90200369	18	62611632	T	C	7564	-0.08	0.02	0.00	0.00	22.44
rs2000454	2-hydroxyphenyl acetate levels	GCST90200369	21	26096726	T	G	7564	-0.20	0.04	0.00	0.00	23.60
rs933493	Aspartate levels	GCST90200370	2	102094571	T	C	8253	0.08	0.02	0.00	0.00	22.30
rs1354034	Aspartate levels	GCST90200370	3	56815721	C	T	8253	0.16	0.02	0.00	0.01	113.96
rs78384757	Aspartate levels	GCST90200370	4	24627588	C	T	8253	-0.12	0.03	0.00	0.00	22.26
rs3792607	Aspartate levels	GCST90200370	4	177440467	A	T	8253	-0.07	0.02	0.00	0.00	21.56
rs62354638	Aspartate levels	GCST90200370	5	36638487	A	G	8253	-0.24	0.04	0.00	0.00	32.00

rs13191846	Aspartate levels	GCST90200370	6	43419332	A	G	8253	0.07	0.01	0.00	0.00	20.66
rs12662969	Aspartate levels	GCST90200370	6	105961950	G	A	8253	-0.10	0.02	0.00	0.00	21.67
rs147834125	Aspartate levels	GCST90200370	7	122383588	T	C	8253	0.33	0.07	0.00	0.00	25.07
rs76375145	Aspartate levels	GCST90200370	8	2741619	G	A	8253	0.28	0.06	0.00	0.00	19.73
rs80089106	Aspartate levels	GCST90200370	8	105072621	A	G	8253	-0.17	0.04	0.00	0.00	20.66
rs2291133	Aspartate levels	GCST90200370	8	144467379	T	G	8253	-0.07	0.02	0.00	0.00	23.61
rs10811820	Aspartate levels	GCST90200370	9	23027466	A	G	8253	0.15	0.03	0.00	0.00	20.13
rs147768523	Aspartate levels	GCST90200370	12	30794025	T	A	8253	0.31	0.07	0.00	0.00	20.50
rs78441838	Aspartate levels	GCST90200370	12	94867215	G	T	8253	0.18	0.04	0.00	0.00	20.16
rs150170008	Aspartate levels	GCST90200370	13	108684091	T	G	8253	0.15	0.03	0.00	0.00	19.83
rs12102586	Aspartate levels	GCST90200370	16	27366732	T	C	8253	0.13	0.03	0.00	0.00	22.91
rs62037364	Aspartate levels	GCST90200370	16	28857374	A	G	8253	0.07	0.02	0.00	0.00	21.27
rs16961756	Aspartate levels	GCST90200370	17	17456305	G	A	8253	-0.14	0.03	0.00	0.00	24.00
rs113402032	Aspartate levels	GCST90200370	17	34828940	A	G	8253	0.10	0.02	0.00	0.00	24.01
rs4553714	Aspartate levels	GCST90200370	18	46719033	A	G	8253	-0.18	0.04	0.00	0.00	24.05
rs363515	Aspartate levels	GCST90200370	21	29670197	G	A	8253	0.10	0.02	0.00	0.00	20.77
rs116942430	Aspartate levels	GCST90200370	21	40489964	T	C	8253	0.11	0.03	0.00	0.00	20.06
rs74224512	hydroxyphenyllactate levels	GCST90200371	1	6120926	A	G	8259	0.09	0.02	0.00	0.00	20.29
rs115617321	hydroxyphenyllactate levels	GCST90200371	1	156244942	A	G	8259	0.19	0.04	0.00	0.00	20.70
rs62238248	hydroxyphenyllactate levels	GCST90200371	3	653426	C	T	8259	0.11	0.02	0.00	0.00	23.19
rs114938316	hydroxyphenyllactate levels	GCST90200371	3	121956805	A	G	8259	0.20	0.04	0.00	0.00	21.07
rs2868943	hydroxyphenyllactate levels	GCST90200371	3	150333538	A	T	8259	-0.07	0.02	0.00	0.00	23.17
rs2091626	hydroxyphenyllactate levels	GCST90200371	4	3460173	T	G	8259	0.08	0.02	0.00	0.00	19.94
rs74570194	hydroxyphenyllactate levels	GCST90200371	4	183961987	A	G	8259	0.09	0.02	0.00	0.00	20.39
rs10066802	hydroxyphenyllactate levels	GCST90200371	5	77301636	A	G	8259	0.07	0.02	0.00	0.00	19.71
rs750493	hydroxyphenyllactate levels	GCST90200371	5	180177899	A	G	8259	-0.10	0.02	0.00	0.00	20.01
rs1216018	hydroxyphenyllactate levels	GCST90200371	6	111182084	T	C	8259	-0.10	0.02	0.00	0.00	38.03
rs6997338	hydroxyphenyllactate levels	GCST90200371	8	51609339	A	G	8259	-0.08	0.02	0.00	0.00	19.74
rs77917636	hydroxyphenyllactate levels	GCST90200371	8	96218890	A	T	8259	0.30	0.07	0.00	0.00	21.60
rs58824245	hydroxyphenyllactate levels	GCST90200371	9	128900739	C	T	8259	-0.19	0.04	0.00	0.00	23.81

rs10821960	3-(4-hydroxyphenyl)lactate levels	GCST90200371	10	62134511	G	A	8259	-0.08	0.02	0.00	0.00	20.51
rs10834052	3-(4-hydroxyphenyl)lactate levels	GCST90200371	11	1433445	C	T	8259	0.08	0.02	0.00	0.00	20.61
rs2439450	3-(4-hydroxyphenyl)lactate levels	GCST90200371	11	57445588	C	G	8259	0.08	0.02	0.00	0.00	20.38
rs7142830	3-(4-hydroxyphenyl)lactate levels	GCST90200371	14	43439461	T	C	8259	0.08	0.01	0.00	0.00	26.79
rs62008290	3-(4-hydroxyphenyl)lactate levels	GCST90200371	15	38519665	A	G	8259	0.26	0.06	0.00	0.00	19.73
rs111681646	3-(4-hydroxyphenyl)lactate levels	GCST90200371	16	3593910	T	C	8259	0.17	0.04	0.00	0.00	20.27
rs12931677	3-(4-hydroxyphenyl)lactate levels	GCST90200371	16	58828304	A	T	8259	0.11	0.02	0.00	0.00	21.88
rs17679693	3-(4-hydroxyphenyl)lactate levels	GCST90200371	16	72878981	G	A	8259	-0.17	0.03	0.00	0.00	24.22
rs12924138	3-(4-hydroxyphenyl)lactate levels	GCST90200371	16	89688036	T	G	8259	-0.07	0.01	0.00	0.00	22.27
rs12602385	3-(4-hydroxyphenyl)lactate levels	GCST90200371	17	35236737	T	C	8259	-0.07	0.02	0.00	0.00	19.72
rs12602929	3-(4-hydroxyphenyl)lactate levels	GCST90200371	17	82233285	C	T	8259	-0.16	0.02	0.00	0.01	104.02
rs11084541	3-(4-hydroxyphenyl)lactate levels	GCST90200371	19	58315155	G	T	8259	0.14	0.03	0.00	0.00	23.63
rs144505368	3-(4-hydroxyphenyl)lactate levels	GCST90200371	22	17930756	A	G	8259	0.34	0.08	0.00	0.00	19.57
rs62241692	3-(4-hydroxyphenyl)lactate levels	GCST90200371	22	35104270	G	C	8259	0.14	0.03	0.00	0.00	23.94
rs74106750	Arginine levels	GCST90200372	1	101192325	T	G	8237	0.11	0.02	0.00	0.00	23.96
rs34987402	Arginine levels	GCST90200372	1	238928602	A	G	8237	0.09	0.02	0.00	0.00	21.61
rs1047891	Arginine levels	GCST90200372	2	210675783	A	C	8237	-0.09	0.02	0.00	0.00	28.58
rs72920700	Arginine levels	GCST90200372	3	86363724	A	C	8237	-0.11	0.02	0.00	0.00	21.52
rs13061385	Arginine levels	GCST90200372	3	103294739	G	T	8237	-0.09	0.02	0.00	0.00	22.20
rs55674024	Arginine levels	GCST90200372	4	14965009	A	G	8237	-0.21	0.04	0.00	0.00	23.03
rs4502705	Arginine levels	GCST90200372	4	77083515	A	G	8237	0.10	0.02	0.00	0.00	39.90
rs77032225	Arginine levels	GCST90200372	4	91049630	A	G	8237	-0.40	0.09	0.00	0.00	20.99
rs150545	Arginine levels	GCST90200372	4	111023233	A	C	8237	0.13	0.03	0.00	0.00	22.65
rs17565369	Arginine levels	GCST90200372	5	26985551	C	T	8237	-0.14	0.03	0.00	0.00	22.06
rs2246012	Arginine levels	GCST90200372	6	131577068	C	T	8237	0.17	0.02	0.00	0.01	69.63
rs56335308	Arginine levels	GCST90200372	8	17561952	A	G	8237	-0.24	0.05	0.00	0.00	23.00
rs2182168	Arginine levels	GCST90200372	10	98388596	G	C	8237	0.14	0.02	0.00	0.01	72.83
rs10832657	Arginine levels	GCST90200372	11	16634698	T	A	8237	-0.08	0.02	0.00	0.00	24.83
rs78803796	Arginine levels	GCST90200372	12	46801273	C	G	8237	0.15	0.03	0.00	0.00	25.53
rs74093317	Arginine levels	GCST90200372	12	59540519	T	C	8237	0.13	0.02	0.00	0.00	27.46
rs149848836	Arginine levels	GCST90200372	12	119154709	T	G	8237	-0.24	0.05	0.00	0.00	20.08
rs79425973	Arginine levels	GCST90200372	13	70949923	G	T	8237	-0.22	0.05	0.00	0.00	20.44
rs78717724	Arginine levels	GCST90200372	13	78557618	G	A	8237	-0.31	0.06	0.00	0.00	23.06
rs17249437	Arginine levels	GCST90200372	14	67634170	C	T	8237	-0.08	0.02	0.00	0.00	20.87
rs11871026	Arginine levels	GCST90200372	17	69843882	A	G	8237	-0.11	0.02	0.00	0.00	20.83
rs79538672	Arginine levels	GCST90200372	21	21408354	G	C	8237	-0.39	0.08	0.00	0.00	22.68
rs9983116	Arginine levels	GCST90200372	21	39545399	A	T	8237	-0.08	0.02	0.00	0.00	24.44
rs144558125	Gluconate levels	GCST90200373	1	55238061	T	C	8106	-0.21	0.04	0.00	0.00	21.83
rs150074699	Gluconate levels	GCST90200373	1	64594052	A	G	8106	1.44	0.31	0.00	0.00	21.22
rs3790669	Gluconate levels	GCST90200373	1	165901329	G	A	8106	0.07	0.02	0.00	0.00	20.09
rs116239811	Gluconate levels	GCST90200373	1	236794466	C	T	8106	0.19	0.04	0.00	0.00	20.01

rs6547787	Gluconate levels	GCST90200373	2	88630218	G	T	8106	-0.08	0.02	0.00	0.00	24.05
rs6707035	Gluconate levels	GCST90200373	2	173253884	G	A	8106	-0.13	0.03	0.00	0.00	26.81
rs62247276	Gluconate levels	GCST90200373	3	22364108	T	C	8106	-0.09	0.02	0.00	0.00	20.24
rs145954659	Gluconate levels	GCST90200373	3	61696498	A	G	8106	0.26	0.06	0.00	0.00	22.39
rs2034718	Gluconate levels	GCST90200373	3	84737828	G	C	8106	0.08	0.02	0.00	0.00	26.88
rs1013383	Gluconate levels	GCST90200373	3	117182469	C	T	8106	-0.08	0.02	0.00	0.00	20.32
rs189407772	Gluconate levels	GCST90200373	4	99225517	G	A	8106	-0.67	0.05	0.00	0.02	178.38
rs10031168	Gluconate levels	GCST90200373	4	99360736	C	T	8106	-0.12	0.02	0.00	0.01	50.28
rs6848752	Gluconate levels	GCST90200373	4	99500654	A	C	8106	0.20	0.04	0.00	0.00	20.41
rs112557087	Gluconate levels	GCST90200373	4	145248050	G	A	8106	-0.49	0.10	0.00	0.00	22.53
rs78234346	Gluconate levels	GCST90200373	8	37620365	T	C	8106	-0.18	0.04	0.00	0.00	20.24
rs35881520	Gluconate levels	GCST90200373	9	74765925	C	T	8106	0.09	0.02	0.00	0.00	22.45
rs76934837	Gluconate levels	GCST90200373	9	130656470	A	C	8106	0.16	0.04	0.00	0.00	20.17
rs553668	Gluconate levels	GCST90200373	10	111079821	G	A	8106	0.09	0.02	0.00	0.00	19.63
rs111336382	Gluconate levels	GCST90200373	11	99576085	C	T	8106	0.25	0.06	0.00	0.00	19.79
rs12301003	Gluconate levels	GCST90200373	12	126363292	G	A	8106	-0.07	0.01	0.00	0.00	19.63
rs9566169	Gluconate levels	GCST90200373	13	36918335	A	G	8106	-0.08	0.02	0.00	0.00	22.94
rs142860457	Gluconate levels	GCST90200373	14	92697001	T	C	8106	-0.29	0.07	0.00	0.00	19.77
rs2058809	Gluconate levels	GCST90200373	16	49924812	C	T	8106	-0.08	0.02	0.00	0.00	22.07
rs188729286	Gluconate levels	GCST90200373	22	20755361	A	C	8106	-0.29	0.06	0.00	0.00	21.13
rs151123362	Sphinganine levels	GCST90200374	1	210890999	G	A	7429	-0.24	0.05	0.00	0.00	20.68
rs187960587	Sphinganine levels	GCST90200374	2	29140632	G	C	7429	-0.22	0.04	0.00	0.00	25.07
rs17038295	Sphinganine levels	GCST90200374	2	48914699	G	A	7429	-0.12	0.03	0.00	0.00	20.17
rs1354034	Sphinganine levels	GCST90200374	3	56815721	C	T	7429	0.12	0.02	0.00	0.01	54.10
rs2647716	Sphinganine levels	GCST90200374	3	84807069	G	A	7429	-0.09	0.02	0.00	0.00	25.17
rs149690428	Sphinganine levels	GCST90200374	3	140524121	C	G	7429	-0.38	0.08	0.00	0.00	20.41
rs7684791	Sphinganine levels	GCST90200374	4	108739713	T	C	7429	-0.15	0.03	0.00	0.00	19.74
rs2546073	Sphinganine levels	GCST90200374	5	165732420	G	A	7429	-0.08	0.02	0.00	0.00	21.30
rs9360664	Sphinganine levels	GCST90200374	6	73331701	A	G	7429	-0.10	0.02	0.00	0.00	20.89
rs1721048	Sphinganine levels	GCST90200374	7	16973583	G	A	7429	-0.08	0.02	0.00	0.00	23.28
rs73115859	Sphinganine levels	GCST90200374	7	38338702	T	G	7429	0.08	0.02	0.00	0.00	19.54
rs10113381	Sphinganine levels	GCST90200374	8	9129886	T	C	7429	0.08	0.02	0.00	0.00	20.04
rs77778288	Sphinganine levels	GCST90200374	9	21047562	C	A	7429	-0.11	0.02	0.00	0.00	20.89
rs41297040	Sphinganine levels	GCST90200374	10	14933907	C	G	7429	0.31	0.07	0.00	0.00	22.61
rs11604127	Sphinganine levels	GCST90200374	11	196944	T	C	7429	0.10	0.02	0.00	0.00	26.81
rs146387678	Sphinganine levels	GCST90200374	11	21343031	T	C	7429	0.45	0.10	0.00	0.00	21.46
rs77624064	Sphinganine levels	GCST90200374	12	52654310	T	C	7429	-0.21	0.04	0.00	0.00	22.55

rs9542758	Sphinganine levels	GCST90200374	13	71849924	C	A	7429	-0.17	0.04	0.00	0.00	22.32
rs140328019	Sphinganine levels	GCST90200374	13	103871516	A	G	7429	0.21	0.05	0.00	0.00	20.93
rs11846996	Sphinganine levels	GCST90200374	14	62090766	A	G	7429	0.14	0.03	0.00	0.00	25.49
rs77965882	Sphinganine levels	GCST90200374	15	94427621	T	C	7429	-0.28	0.06	0.00	0.00	19.55
rs76821496	Sphinganine levels	GCST90200374	19	1240537	T	C	7429	0.13	0.03	0.00	0.00	20.27
rs74622465	Gamma-glutamylglutamate levels	GCST90200375	1	7295339	A	G	8244	0.20	0.04	0.00	0.00	21.43
rs113558190	Gamma-glutamylglutamate levels	GCST90200375	1	102765968	G	A	8244	0.16	0.04	0.00	0.00	20.01
rs10918906	Gamma-glutamylglutamate levels	GCST90200375	1	168484190	G	C	8244	-0.10	0.02	0.00	0.00	23.66
rs2209169	Gamma-glutamylglutamate levels	GCST90200375	1	178632357	T	C	8244	-0.07	0.02	0.00	0.00	20.24
rs13385401	Gamma-glutamylglutamate levels	GCST90200375	2	4641733	A	G	8244	0.11	0.02	0.00	0.00	23.88
rs541090833	Gamma-glutamylglutamate levels	GCST90200375	2	199181456	C	T	8244	-0.26	0.06	0.00	0.00	19.67
rs3791976	Gamma-glutamylglutamate levels	GCST90200375	2	217850128	A	T	8244	-0.07	0.02	0.00	0.00	21.23
rs1479402	Gamma-glutamylglutamate levels	GCST90200375	3	61987447	T	C	8244	0.31	0.07	0.00	0.00	19.67
rs34618040	Gamma-glutamylglutamate levels	GCST90200375	3	98188515	A	G	8244	0.11	0.02	0.00	0.00	20.76
rs7614103	Gamma-glutamylglutamate levels	GCST90200375	3	122205150	T	G	8244	-0.07	0.02	0.00	0.00	21.59
rs10948077	Gamma-glutamylglutamate levels	GCST90200375	6	43427026	C	A	8244	0.10	0.02	0.00	0.00	41.30
rs113567875	Gamma-glutamylglutamate levels	GCST90200375	6	86061665	C	T	8244	0.20	0.04	0.00	0.00	20.42
rs2009129	Gamma-glutamylglutamate levels	GCST90200375	6	135842063	C	T	8244	0.08	0.02	0.00	0.00	20.49
rs142947473	Gamma-glutamylglutamate levels	GCST90200375	6	156282484	T	C	8244	-0.32	0.07	0.00	0.00	21.24
rs1324191	Gamma-glutamylglutamate levels	GCST90200375	9	13612155	T	G	8244	0.09	0.02	0.00	0.00	19.94
rs1937855	Gamma-glutamylglutamate levels	GCST90200375	10	5012016	A	G	8244	0.09	0.02	0.00	0.00	22.25
rs113421406	Gamma-glutamylglutamate levels	GCST90200375	11	5285714	T	C	8244	0.29	0.07	0.00	0.00	19.82
rs185237831	Gamma-glutamylglutamate levels	GCST90200375	11	60801912	C	T	8244	0.34	0.07	0.00	0.00	22.44
rs117838486	Gamma-glutamylglutamate levels	GCST90200375	11	106652501	T	G	8244	-0.47	0.11	0.00	0.00	19.58
rs1702339	Gamma-glutamylglutamate levels	GCST90200375	12	124417653	C	T	8244	-0.10	0.02	0.00	0.00	20.34
rs113874211	Gamma-glutamylglutamate levels	GCST90200375	13	53230856	A	G	8244	-0.33	0.07	0.00	0.00	21.30

rs1410284	Gamma-glutamylglutamate levels	GCST90200375	13	99131277	C	T	8244	0.10	0.02	0.00	0.00	27.36
rs76502482	Gamma-glutamylglutamate levels	GCST90200375	14	36425674	A	C	8244	0.29	0.06	0.00	0.00	24.79
rs72768751	Gamma-glutamylglutamate levels	GCST90200375	16	2711993	G	A	8244	0.18	0.04	0.00	0.00	21.31
rs4781721	Gamma-glutamylglutamate levels	GCST90200375	16	16013420	A	G	8244	0.08	0.02	0.00	0.00	25.23
rs17729572	Gamma-glutamylglutamate levels	GCST90200375	18	62509991	T	C	8244	-0.14	0.03	0.00	0.00	20.49
rs8131992	Gamma-glutamylglutamate levels	GCST90200375	21	34048613	A	C	8244	0.08	0.02	0.00	0.00	23.02
rs3859862	Gamma-glutamylglutamate levels	GCST90200375	22	24601103	G	A	8244	-0.11	0.02	0.00	0.01	46.12
rs12628903	Gamma-glutamylglutamate levels	GCST90200375	22	48360621	G	A	8244	0.21	0.05	0.00	0.00	21.03
rs12371	Flavin adenine dinucleotide (FAD) levels	GCST90200376	1	180194255	G	A	6257	-0.16	0.03	0.00	0.00	27.35
rs565705003	Flavin adenine dinucleotide (FAD) levels	GCST90200376	2	13911701	G	A	6257	0.43	0.10	0.00	0.00	19.53
rs6739570	Flavin adenine dinucleotide (FAD) levels	GCST90200376	2	48944910	T	C	6257	0.20	0.04	0.00	0.00	23.36
rs74710463	Flavin adenine dinucleotide (FAD) levels	GCST90200376	2	70185798	C	T	6257	0.28	0.04	0.00	0.01	63.99
rs2706762	Flavin adenine dinucleotide (FAD) levels	GCST90200376	2	70261338	T	C	6257	-0.50	0.02	0.00	0.06	411.45
rs72820022	Flavin adenine dinucleotide (FAD) levels	GCST90200376	2	74766905	C	G	6257	-0.27	0.06	0.00	0.00	20.86
rs6762415	Flavin adenine dinucleotide (FAD) levels	GCST90200376	3	133759713	G	T	6257	-0.08	0.02	0.00	0.00	22.34
rs17685453	Flavin adenine dinucleotide (FAD) levels	GCST90200376	4	137026657	A	T	6257	0.10	0.02	0.00	0.00	22.20
rs62395307	Flavin adenine dinucleotide (FAD) levels	GCST90200376	6	31461735	A	G	6257	0.26	0.04	0.00	0.01	42.97
rs73755399	Flavin adenine dinucleotide (FAD) levels	GCST90200376	6	93404636	C	T	6257	-0.10	0.02	0.00	0.00	21.00
rs6941437	Flavin adenine dinucleotide (FAD) levels	GCST90200376	6	168356328	A	G	6257	0.13	0.03	0.00	0.00	19.85
rs11766184	Flavin adenine dinucleotide (FAD) levels	GCST90200376	7	112151	C	T	6257	-0.09	0.02	0.00	0.00	21.09
rs145200157	Flavin adenine dinucleotide (FAD) levels	GCST90200376	7	26572024	A	G	6257	0.39	0.08	0.00	0.00	22.36
rs146203610	Flavin adenine dinucleotide (FAD) levels	GCST90200376	8	24032336	C	T	6257	-0.27	0.06	0.00	0.00	20.66
rs117822407	Flavin adenine dinucleotide (FAD) levels	GCST90200376	8	25272089	T	C	6257	0.28	0.06	0.00	0.00	19.56
rs1901413	Flavin adenine dinucleotide (FAD) levels	GCST90200376	8	62447883	A	G	6257	0.34	0.07	0.00	0.00	22.24

rs2283262	Flavin adenine dinucleotide (FAD) levels	GCST90200376	11	17429444	C	G	6257	-0.10	0.02	0.00	0.00	23.17
rs11029619	Flavin adenine dinucleotide (FAD) levels	GCST90200376	11	26565847	C	T	6257	-0.21	0.05	0.00	0.00	21.23
rs174559	Flavin adenine dinucleotide (FAD) levels	GCST90200376	11	61814184	A	G	6257	-0.10	0.02	0.00	0.00	22.64
rs17465783	Flavin adenine dinucleotide (FAD) levels	GCST90200376	12	23512782	G	T	6257	-0.19	0.04	0.00	0.00	21.24
rs1395537	Flavin adenine dinucleotide (FAD) levels	GCST90200376	12	61198275	A	G	6257	0.14	0.03	0.00	0.00	21.91
rs75300978	Flavin adenine dinucleotide (FAD) levels	GCST90200376	15	38249684	A	T	6257	-0.17	0.04	0.00	0.00	20.40
rs11247486 0	Flavin adenine dinucleotide (FAD) levels	GCST90200376	17	65080505	C	T	6257	-0.35	0.08	0.00	0.00	20.95
rs13994879 2	Flavin adenine dinucleotide (FAD) levels	GCST90200376	19	6599117	G	T	6257	1.09	0.24	0.00	0.00	20.45
rs58542926	Flavin adenine dinucleotide (FAD) levels	GCST90200376	19	19268740	T	C	6257	-0.18	0.03	0.00	0.00	27.48
rs4575105	Histidine	GCST90200377	1	27956901	C	T	8223	-0.08	0.02	0.00	0.00	19.81
rs14382475 7	Histidine levels	GCST90200377	1	67648379	T	C	8223	0.37	0.08	0.00	0.00	22.98
rs1260326	Histidine	GCST90200377	2	27508073	C	T	8223	0.07	0.02	0.00	0.00	21.92
rs715	Histidine	GCST90200377	2	210678331	C	T	8223	-0.10	0.02	0.00	0.00	33.05
rs7663032	Histidine	GCST90200377	4	9992214	T	C	8223	-0.10	0.02	0.00	0.00	32.81
rs12644272	Histidine	GCST90200377	4	40249501	C	T	8223	-0.07	0.02	0.00	0.00	20.84
rs7690067	Histidine	GCST90200377	4	134858810	A	G	8223	-0.07	0.02	0.00	0.00	20.41
rs18206396 0	Histidine levels	GCST90200377	5	119727204	A	G	8223	0.25	0.05	0.00	0.00	25.50
rs12195577	Histidine	GCST90200377	6	18790813	C	T	8223	0.07	0.02	0.00	0.00	21.49
rs11754370	Histidine	GCST90200377	6	155442136	C	T	8223	0.24	0.05	0.00	0.00	20.37
rs73220161	Histidine	GCST90200377	7	89779633	C	G	8223	0.12	0.03	0.00	0.00	19.84
rs4728144	Histidine	GCST90200377	7	129000280	T	A	8223	-0.07	0.02	0.00	0.00	21.38
rs11755886 2	Histidine levels	GCST90200377	8	134581392	C	G	8223	-0.24	0.05	0.00	0.00	19.81
rs4546750	Histidine	GCST90200377	9	18301448	G	A	8223	-0.09	0.02	0.00	0.00	28.36
rs11168934 2	Histidine levels	GCST90200377	9	93820493	T	C	8223	-0.29	0.07	0.00	0.00	19.83
rs11041699	Histidine	GCST90200377	11	7983923	A	G	8223	0.11	0.02	0.00	0.00	19.96
rs1520903	Histidine	GCST90200377	11	20167337	T	C	8223	-0.08	0.02	0.00	0.00	24.63
rs2060548	Histidine	GCST90200377	12	95933041	A	C	8223	-0.07	0.02	0.00	0.00	19.85
rs8007176	Histidine	GCST90200377	14	21034186	G	A	8223	-0.07	0.02	0.00	0.00	20.87
rs11071118	Histidine	GCST90200377	15	29175402	T	C	8223	-0.08	0.02	0.00	0.00	22.40
rs14685125 3	Histidine levels	GCST90200377	15	82582764	G	C	8223	-0.11	0.02	0.00	0.00	21.51
rs2926355	Histidine	GCST90200377	16	22314460	T	C	8223	-0.87	0.19	0.00	0.00	21.54
rs74963919	Histidine	GCST90200377	17	69062290	T	A	8223	0.31	0.06	0.00	0.00	25.50
rs11721620 6	Histidine levels	GCST90200377	19	46834193	G	A	8223	-0.19	0.04	0.00	0.00	20.91
rs1256287	Cortisol levels (plasma)	GCST90200378	1	161684903	G	A	8193	0.07	0.02	0.00	0.00	21.97
rs60852193	Cortisol levels (plasma)	GCST90200378	3	147314614	A	G	8193	0.08	0.02	0.00	0.00	20.42
rs17861928	Cortisol levels (plasma)	GCST90200378	4	117447883	T	C	8193	-0.17	0.04	0.00	0.00	20.21
rs13118145	Cortisol levels (plasma)	GCST90200378	4	122096386	C	G	8193	0.09	0.02	0.00	0.00	20.17
rs7684188	Cortisol levels (plasma)	GCST90200378	4	145322033	A	G	8193	0.09	0.02	0.00	0.00	19.73
rs72862263	Cortisol levels (plasma)	GCST90200378	6	43820702	G	A	8193	0.22	0.05	0.00	0.00	19.78
rs6937159	Cortisol levels (plasma)	GCST90200378	6	97712229	G	C	8193	-0.08	0.02	0.00	0.00	21.27
rs62456322	Cortisol levels (plasma)	GCST90200378	7	32208313	C	T	8193	0.16	0.03	0.00	0.00	26.40

rs11778584 1	Cortisol levels (plasma)	GCST90200378	7	148575466	T	C	8193	-0.21	0.05	0.00	0.00	21.53
rs13829724 9	Cortisol levels (plasma)	GCST90200378	8	36187530	A	G	8193	0.21	0.04	0.00	0.00	22.23
rs2513777	Cortisol levels (plasma)	GCST90200378	8	94099935	T	C	8193	0.19	0.04	0.00	0.00	20.34
rs11138526 1	Cortisol levels (plasma)	GCST90200378	9	14934052	G	A	8193	0.09	0.02	0.00	0.00	21.15
rs12259037	Cortisol levels (plasma)	GCST90200378	10	30011150	A	G	8193	-0.08	0.02	0.00	0.00	23.78
rs34564588	Cortisol levels (plasma)	GCST90200378	12	24051983	C	T	8193	0.09	0.02	0.00	0.00	19.66
rs11789174 9	Cortisol levels (plasma)	GCST90200378	12	89507093	C	A	8193	-0.37	0.07	0.00	0.00	26.79
rs798773	Cortisol levels (plasma)	GCST90200378	13	52790898	G	C	8193	0.09	0.02	0.00	0.00	19.63
rs73204696	Cortisol levels (plasma)	GCST90200378	13	55098132	T	C	8193	0.09	0.02	0.00	0.00	23.84
rs4491436	Cortisol levels (plasma)	GCST90200378	14	94338363	C	A	8193	0.12	0.02	0.00	0.01	42.86
rs7405731	Cortisol levels (plasma)	GCST90200378	17	41769673	G	A	8193	-0.09	0.02	0.00	0.00	22.04
rs5994434	Cortisol levels (plasma)	GCST90200378	22	31833663	A	G	8193	0.10	0.02	0.00	0.00	19.63
rs14963582 9	Cortisol levels (plasma)	GCST90200378	22	43150219	T	C	8193	0.28	0.06	0.00	0.00	22.89
rs6683715	Hypotaurine levels	GCST90200379	1	41571095	A	T	8212	-0.11	0.02	0.00	0.00	24.39
rs12129209	Hypotaurine levels	GCST90200379	1	109723565	T	A	8212	0.27	0.06	0.00	0.00	19.90
rs14566195 6	Hypotaurine levels	GCST90200379	1	161725007	G	A	8212	0.39	0.08	0.00	0.00	22.76
rs12059956	Hypotaurine levels	GCST90200379	1	171094121	A	G	8212	0.08	0.02	0.00	0.00	27.75
rs715	Hypotaurine levels	GCST90200379	2	210678331	C	T	8212	-0.07	0.02	0.00	0.00	19.96
rs13950591 8	Hypotaurine levels	GCST90200379	3	1843889	T	C	8212	0.17	0.04	0.00	0.00	21.68
rs73048024	Hypotaurine levels	GCST90200379	3	25507759	A	G	8212	-0.16	0.03	0.00	0.00	29.01
rs14249816 0	Hypotaurine levels	GCST90200379	3	103313939	C	A	8212	0.26	0.06	0.00	0.00	21.86
rs14114743 6	Hypotaurine levels	GCST90200379	3	157427264	A	G	8212	-0.15	0.03	0.00	0.00	28.33
rs56000860	Hypotaurine levels	GCST90200379	4	127601853	T	C	8212	0.28	0.06	0.00	0.00	20.21
rs1595693	Hypotaurine levels	GCST90200379	4	138122498	C	T	8212	-0.11	0.02	0.00	0.01	53.90
rs15013292 7	Hypotaurine levels	GCST90200379	4	140590996	A	G	8212	0.22	0.05	0.00	0.00	19.58
rs966554	Hypotaurine levels	GCST90200379	5	82233424	T	A	8212	0.07	0.01	0.00	0.00	19.88
rs80207864	Hypotaurine levels	GCST90200379	5	91453561	C	A	8212	0.17	0.04	0.00	0.00	21.48
rs1366463	Hypotaurine levels	GCST90200379	5	115713487	T	C	8212	-0.10	0.01	0.00	0.01	43.30
rs9467632	Hypotaurine levels	GCST90200379	6	25889478	G	A	8212	-0.11	0.02	0.00	0.00	21.60
rs9399136	Hypotaurine levels	GCST90200379	6	135081201	C	T	8212	0.08	0.02	0.00	0.00	24.62
rs10215967	Hypotaurine levels	GCST90200379	7	111440185	G	T	8212	-0.13	0.03	0.00	0.00	23.32
rs60859047	Hypotaurine levels	GCST90200379	9	114212700	T	C	8212	-0.13	0.03	0.00	0.00	22.35
rs10513480	Hypotaurine levels	GCST90200379	9	127277127	C	T	8212	0.11	0.02	0.00	0.00	24.39
rs7028191	Hypotaurine levels	GCST90200379	9	134225650	T	C	8212	-0.07	0.02	0.00	0.00	22.92
rs10826753	Hypotaurine levels	GCST90200379	10	30037847	T	C	8212	-0.08	0.02	0.00	0.00	25.50
rs10877332	Hypotaurine levels	GCST90200379	12	59737817	A	C	8212	-0.09	0.02	0.00	0.00	22.48
rs19281065 6	Hypotaurine levels	GCST90200379	13	24200506	C	G	8212	-0.36	0.08	0.00	0.00	20.36

rs17145645	Hypotaurine levels	GCST90200379	16	8283470	G	C	8212	0.32	0.07	0.00	0.00	20.41
rs1126464	Hypotaurine levels	GCST90200379	16	89637957	C	G	8212	0.10	0.02	0.00	0.00	32.65
rs11656171	Hypotaurine levels	GCST90200379	17	81410288	G	C	8212	0.10	0.02	0.00	0.00	22.86
rs8090864	Hypotaurine levels	GCST90200379	18	79404056	A	G	8212	0.08	0.02	0.00	0.00	21.28
rs113499369	Hypotaurine levels	GCST90200379	19	5753291	C	T	8212	0.12	0.03	0.00	0.00	20.97
rs8105903	Hypotaurine levels	GCST90200379	19	46784893	A	C	8212	-0.09	0.02	0.00	0.00	35.15
rs73154986	Hypotaurine levels	GCST90200379	20	62569013	T	C	8212	-0.14	0.03	0.00	0.00	20.87
rs4439992	Glutarate (C5-DC) levels	GCST90200380	2	3152030	T	C	7757	0.07	0.02	0.00	0.00	20.64
rs7425339	Glutarate (C5-DC) levels	GCST90200380	2	162800402	A	T	7757	0.08	0.02	0.00	0.00	22.63
rs7421	Glutarate (C5-DC) levels	GCST90200380	2	241672519	C	T	7757	-0.08	0.02	0.00	0.00	22.77
rs829183	Glutarate (C5-DC) levels	GCST90200380	3	14774745	C	T	7757	0.09	0.02	0.00	0.00	20.75
rs115852461	Glutarate (C5-DC) levels	GCST90200380	3	30744506	C	T	7757	0.18	0.04	0.00	0.00	20.57
rs13077535	Glutarate (C5-DC) levels	GCST90200380	3	116404458	G	A	7757	0.14	0.03	0.00	0.00	22.50
rs146086643	Glutarate (C5-DC) levels	GCST90200380	3	173240502	G	A	7757	0.30	0.07	0.00	0.00	21.52
rs13205491	Glutarate (C5-DC) levels	GCST90200380	6	152830044	T	C	7757	0.09	0.02	0.00	0.00	19.58
rs28362692	Glutarate (C5-DC) levels	GCST90200380	7	30912043	T	C	7757	0.18	0.04	0.00	0.00	19.83
rs117764138	Glutarate (C5-DC) levels	GCST90200380	8	46299363	A	G	7757	0.41	0.09	0.00	0.00	21.22
rs117266255	Glutarate (C5-DC) levels	GCST90200380	8	143691779	G	T	7757	0.21	0.05	0.00	0.00	19.80
rs538855243	Glutarate (C5-DC) levels	GCST90200380	9	19735034	C	T	7757	0.23	0.05	0.00	0.00	21.85
rs72719288	Glutarate (C5-DC) levels	GCST90200380	9	31848260	C	T	7757	0.24	0.05	0.00	0.00	20.65
rs117158033	Glutarate (C5-DC) levels	GCST90200380	9	128013402	A	G	7757	0.20	0.04	0.00	0.00	24.19
rs57388178	Glutarate (C5-DC) levels	GCST90200380	11	44334488	T	A	7757	0.08	0.02	0.00	0.00	25.56
rs12298346	Glutarate (C5-DC) levels	GCST90200380	12	2272744	A	T	7757	0.25	0.06	0.00	0.00	19.78
rs6538971	Glutarate (C5-DC) levels	GCST90200380	12	100770975	G	C	7757	0.08	0.02	0.00	0.00	26.91
rs139464783	Glutarate (C5-DC) levels	GCST90200380	13	103456865	G	A	7757	0.38	0.08	0.00	0.00	21.21
rs183294422	Glutarate (C5-DC) levels	GCST90200380	15	77898192	G	A	7757	0.24	0.05	0.00	0.00	21.46
rs11867584	Glutarate (C5-DC) levels	GCST90200380	17	5057417	T	C	7757	-0.08	0.02	0.00	0.00	20.63
rs192123848	Glutarate (C5-DC) levels	GCST90200380	17	47936020	A	G	7757	-0.33	0.07	0.00	0.00	25.54
rs118158040	Glutarate (C5-DC) levels	GCST90200380	17	81053576	G	C	7757	0.33	0.07	0.00	0.00	23.07
rs37405	Glutarate (C5-DC) levels	GCST90200380	19	53510047	C	T	7757	0.07	0.02	0.00	0.00	19.57
rs6106108	Glutarate (C5-DC) levels	GCST90200380	20	19586966	A	T	7757	-0.11	0.02	0.00	0.00	22.10
rs6032129	Glutarate (C5-DC) levels	GCST90200380	20	45346285	G	C	7757	-0.24	0.05	0.00	0.00	21.63
rs3092098	Glutarate (C5-DC) levels	GCST90200380	20	46616207	C	T	7757	0.12	0.02	0.00	0.00	35.84
rs146938766	Glutarate (C5-DC) levels	GCST90200380	21	24705491	T	A	7757	0.71	0.16	0.00	0.00	20.08
rs72862695	S-1-pyrroline-5-carboxylate levels	GCST90200381	1	8299739	G	A	8232	0.10	0.02	0.00	0.00	19.88
rs61757683	S-1-pyrroline-5-carboxylate levels	GCST90200381	1	18872954	T	G	8232	0.38	0.06	0.00	0.01	47.03

rs77020418	S-1-pyrroline-5-carboxylate levels	GCST90200381	1	91112061	T	G	8232	0.14	0.03	0.00	0.00	20.36
rs375983738	S-1-pyrroline-5-carboxylate levels	GCST90200381	1	241701280	G	A	8232	0.71	0.16	0.00	0.00	19.72
rs28991272	S-1-pyrroline-5-carboxylate levels	GCST90200381	2	1494435	A	G	8232	0.20	0.04	0.00	0.00	23.90
rs79381555	S-1-pyrroline-5-carboxylate levels	GCST90200381	2	12131019	G	A	8232	-0.25	0.06	0.00	0.00	19.83
rs4349372	S-1-pyrroline-5-carboxylate levels	GCST90200381	2	79292241	C	G	8232	0.10	0.02	0.00	0.00	23.52
rs112995499	S-1-pyrroline-5-carboxylate levels	GCST90200381	2	171548842	T	C	8232	0.18	0.04	0.00	0.00	19.75
rs148006308	S-1-pyrroline-5-carboxylate levels	GCST90200381	3	96174002	C	T	8232	-0.25	0.06	0.00	0.00	19.84
rs2688992	S-1-pyrroline-5-carboxylate levels	GCST90200381	3	125086766	C	A	8232	0.07	0.02	0.00	0.00	22.59
rs4535286	S-1-pyrroline-5-carboxylate levels	GCST90200381	4	143802976	G	T	8232	-0.09	0.02	0.00	0.00	26.70
rs2523006	S-1-pyrroline-5-carboxylate levels	GCST90200381	7	112121933	C	T	8232	0.10	0.02	0.00	0.00	20.23
rs77706195	S-1-pyrroline-5-carboxylate levels	GCST90200381	8	2954297	A	T	8232	0.29	0.06	0.00	0.00	25.45
rs73233494	S-1-pyrroline-5-carboxylate levels	GCST90200381	8	31582284	T	G	8232	0.18	0.04	0.00	0.00	19.62
rs2242090	S-1-pyrroline-5-carboxylate levels	GCST90200381	8	143606566	G	C	8232	-0.37	0.01	0.00	0.07	610.23
rs7917792	S-1-pyrroline-5-carboxylate levels	GCST90200381	10	95605870	T	C	8232	0.07	0.02	0.00	0.00	20.27
rs77568655	S-1-pyrroline-5-carboxylate levels	GCST90200381	11	3655414	A	T	8232	-0.31	0.07	0.00	0.00	21.12
rs78014775	S-1-pyrroline-5-carboxylate levels	GCST90200381	11	96271449	T	C	8232	0.09	0.02	0.00	0.00	22.00
rs143724042	S-1-pyrroline-5-carboxylate levels	GCST90200381	12	128664754	A	G	8232	-0.37	0.08	0.00	0.00	19.94
rs17067958	S-1-pyrroline-5-carboxylate levels	GCST90200381	13	46297916	A	G	8232	0.19	0.04	0.00	0.00	24.23
rs4949594	Cystine levels	GCST90200382	1	30392515	T	A	8177	-0.07	0.02	0.00	0.00	20.82
rs674514	Cystine levels	GCST90200382	4	118263414	T	C	8177	-0.09	0.02	0.00	0.00	22.51
rs79365446	Cystine levels	GCST90200382	4	187802224	T	C	8177	0.12	0.03	0.00	0.00	19.91
rs116250322	Cystine levels	GCST90200382	5	67459973	T	C	8177	-0.25	0.05	0.00	0.00	24.24
rs13166639	Cystine levels	GCST90200382	5	93300680	T	C	8177	-0.07	0.02	0.00	0.00	20.84
rs148490113	Cystine levels	GCST90200382	6	88196596	T	C	8177	0.17	0.04	0.00	0.00	19.93
rs73688203	Cystine levels	GCST90200382	7	40903195	C	G	8177	0.16	0.04	0.00	0.00	19.87
rs319334	Cystine levels	GCST90200382	7	95913566	G	A	8177	0.09	0.02	0.00	0.00	20.80
rs748660	Cystine levels	GCST90200382	9	124333370	G	C	8177	-0.07	0.02	0.00	0.00	20.57
rs140534351	Cystine levels	GCST90200382	10	81593294	G	A	8177	-0.26	0.06	0.00	0.00	20.09
rs78898937	Cystine levels	GCST90200382	11	8797596	C	A	8177	-0.26	0.06	0.00	0.00	21.60
rs74811177	Cystine levels	GCST90200382	11	111262296	G	T	8177	-0.21	0.05	0.00	0.00	20.38
rs114749741	Cystine levels	GCST90200382	11	113436911	T	C	8177	-0.24	0.05	0.00	0.00	22.14
rs79640257	Cystine levels	GCST90200382	12	95007537	G	A	8177	-0.17	0.04	0.00	0.00	19.94
rs4089064	Cystine levels	GCST90200382	15	24214232	T	G	8177	0.27	0.06	0.00	0.00	21.34
rs75930132	Cystine levels	GCST90200382	16	7732978	G	A	8177	-0.26	0.06	0.00	0.00	21.70

rs455868	Cystine levels	GCST90200382	16	89583267	A	G	8177	0.09	0.02	0.00	0.00	21.37
rs111519123	Cystine levels	GCST90200382	18	3587805	G	A	8177	0.27	0.06	0.00	0.00	19.93
rs73256196	Cystine levels	GCST90200382	20	17225698	A	T	8177	0.13	0.03	0.00	0.00	22.69
rs117672955	Cystine levels	GCST90200382	21	18336324	T	C	8177	-0.27	0.06	0.00	0.00	21.30
rs28941785	Cystathionine levels	GCST90200383	1	70415987	T	C	8014	0.92	0.08	0.00	0.02	147.19
rs2789543	Cystathionine levels	GCST90200383	1	111638276	T	C	8014	-0.09	0.02	0.00	0.00	23.28
rs41265109	Cystathionine levels	GCST90200383	2	231791587	A	G	8014	-0.22	0.04	0.00	0.00	27.80
rs71333666	Cystathionine levels	GCST90200383	3	130436010	C	T	8014	0.13	0.03	0.00	0.00	22.09
rs6773724	Cystathionine levels	GCST90200383	3	133924646	G	A	8014	0.07	0.02	0.00	0.00	19.52
rs113546193	Cystathionine levels	GCST90200383	4	40856499	T	C	8014	0.28	0.06	0.00	0.00	22.47
rs151323928	Cystathionine levels	GCST90200383	4	182260063	A	G	8014	-0.30	0.07	0.00	0.00	20.41
rs182681029	Cystathionine levels	GCST90200383	4	182979292	A	G	8014	0.28	0.06	0.00	0.00	20.83
rs77585417	Cystathionine levels	GCST90200383	5	63241660	T	C	8014	0.26	0.06	0.00	0.00	21.58
rs61701247	Cystathionine levels	GCST90200383	5	109245518	C	T	8014	-0.12	0.03	0.00	0.00	20.69
rs999306	Cystathionine levels	GCST90200383	6	44613435	A	G	8014	0.08	0.02	0.00	0.00	19.65
rs13219502	Cystathionine levels	GCST90200383	6	94692318	C	T	8014	0.12	0.03	0.00	0.00	20.31
rs2321699	Cystathionine levels	GCST90200383	6	163501074	T	C	8014	-0.20	0.04	0.00	0.00	20.46
rs13260564	Cystathionine levels	GCST90200383	8	6176378	C	T	8014	0.07	0.02	0.00	0.00	19.70
rs75395288	Cystathionine levels	GCST90200383	8	9193949	T	C	8014	0.23	0.05	0.00	0.00	21.81
rs72641968	Cystathionine levels	GCST90200383	8	37828169	T	C	8014	0.10	0.02	0.00	0.00	20.68
rs77623996	Cystathionine levels	GCST90200383	8	120280598	C	T	8014	-0.29	0.06	0.00	0.00	20.21
rs41289989	Cystathionine levels	GCST90200383	9	77419804	T	C	8014	0.21	0.04	0.00	0.00	22.47
rs6477541	Cystathionine levels	GCST90200383	9	106743887	A	C	8014	-0.07	0.02	0.00	0.00	19.95
rs79143472	Cystathionine levels	GCST90200383	11	16826520	A	G	8014	0.27	0.06	0.00	0.00	20.48
rs2638314	Cystathionine levels	GCST90200383	12	56472550	A	T	8014	0.09	0.02	0.00	0.00	19.92
rs9506902	Cystathionine levels	GCST90200383	13	22669506	A	G	8014	0.08	0.02	0.00	0.00	19.78
rs75333264	Cystathionine levels	GCST90200383	13	40719248	C	T	8014	-0.31	0.07	0.00	0.00	20.28
rs61949546	Cystathionine levels	GCST90200383	13	56609230	A	C	8014	-0.15	0.03	0.00	0.00	23.74
rs12586836	Cystathionine levels	GCST90200383	14	51268476	T	C	8014	0.09	0.02	0.00	0.00	21.51
rs60931351	Cystathionine levels	GCST90200383	15	56013343	T	A	8014	-0.14	0.03	0.00	0.00	22.16
rs117682342	Cystathionine levels	GCST90200383	15	60839796	A	G	8014	-0.21	0.05	0.00	0.00	21.12
rs80192356	Cystathionine levels	GCST90200383	15	100338085	T	A	8014	0.15	0.03	0.00	0.00	20.57
rs11076826	Cystathionine levels	GCST90200383	16	4377009	C	G	8014	0.08	0.02	0.00	0.00	21.77
rs117519040	Cystathionine levels	GCST90200383	17	69063421	T	G	8014	-0.24	0.05	0.00	0.00	19.76
rs78069146	Cystathionine levels	GCST90200383	18	46628037	C	T	8014	0.11	0.02	0.00	0.00	19.81
rs12608955	Cystathionine levels	GCST90200383	19	32911901	C	T	8014	0.12	0.02	0.00	0.00	36.67
rs118181180	Cystathionine levels	GCST90200383	20	59275432	A	C	8014	0.25	0.05	0.00	0.00	21.85
rs112565244	Cystathionine levels	GCST90200383	21	32262196	T	C	8014	0.20	0.04	0.00	0.00	20.06

rs479229	Cystathionine levels	GCST90200383	22	27330110	G	A	8014	0.09	0.02	0.00	0.00	23.30
rs146563507	Guanidinoacetate levels	GCST90200384	1	167813190	G	A	8238	0.32	0.07	0.00	0.00	22.78
rs4430397	Guanidinoacetate levels	GCST90200384	1	203660882	G	A	8238	0.33	0.07	0.00	0.00	20.47
rs151185316	Guanidinoacetate levels	GCST90200384	2	62817173	T	A	8238	0.26	0.06	0.00	0.00	21.00
rs4673558	Guanidinoacetate levels	GCST90200384	2	210797173	T	C	8238	0.09	0.02	0.00	0.00	25.50
rs73212143	Guanidinoacetate levels	GCST90200384	3	196266611	T	C	8238	-0.10	0.02	0.00	0.00	19.70
rs146666788	Guanidinoacetate levels	GCST90200384	4	23756749	C	G	8238	-0.24	0.05	0.00	0.00	20.10
rs7667746	Guanidinoacetate levels	GCST90200384	4	141567731	T	C	8238	0.07	0.02	0.00	0.00	19.57
rs115087674	Guanidinoacetate levels	GCST90200384	4	155770669	T	A	8238	-0.29	0.06	0.00	0.00	21.11
rs62415385	Guanidinoacetate levels	GCST90200384	6	43294720	T	A	8238	0.08	0.01	0.00	0.00	25.42
rs2781668	Guanidinoacetate levels	GCST90200384	6	131576138	T	C	8238	0.12	0.02	0.00	0.00	37.18
rs11256439	Guanidinoacetate levels	GCST90200384	10	10012422	G	T	8238	0.07	0.02	0.00	0.00	19.91
rs3740032	Guanidinoacetate levels	GCST90200384	10	89467824	G	T	8238	0.08	0.02	0.00	0.00	20.93
rs214099	Guanidinoacetate levels	GCST90200384	11	17269663	C	T	8238	0.07	0.02	0.00	0.00	21.38
rs34400381	Guanidinoacetate levels	GCST90200384	11	65376421	A	G	8238	-0.35	0.04	0.00	0.01	74.37
rs11062102	Guanidinoacetate levels	GCST90200384	12	239619	C	T	8238	0.13	0.02	0.00	0.01	67.02
rs9538392	Guanidinoacetate levels	GCST90200384	13	59350656	C	G	8238	-0.11	0.02	0.00	0.00	20.41
rs12431540	Guanidinoacetate levels	GCST90200384	14	50267564	G	T	8238	-0.08	0.02	0.00	0.00	25.77
rs111245176	Guanidinoacetate levels	GCST90200384	14	100351992	T	C	8238	0.31	0.05	0.00	0.01	46.51
rs1346266	Guanidinoacetate levels	GCST90200384	15	45402318	T	G	8238	-0.09	0.02	0.00	0.00	26.28
rs8049638	Guanidinoacetate levels	GCST90200384	16	52363590	T	C	8238	-0.27	0.06	0.00	0.00	19.90
rs12939324	Guanidinoacetate levels	GCST90200384	17	48610390	A	C	8238	-0.10	0.02	0.00	0.00	25.45
rs17851582	Guanidinoacetate levels	GCST90200384	19	1397444	A	G	8238	0.12	0.02	0.00	0.00	23.83
rs117399633	Guanidinoacetate levels	GCST90200384	19	27984662	T	C	8238	-0.25	0.05	0.00	0.00	22.50
rs72629024	Guanidinoacetate levels	GCST90200384	20	63521166	G	C	8238	0.16	0.02	0.00	0.01	60.81
rs73229158	Guanidinoacetate levels	GCST90200384	21	40390777	A	G	8238	-0.28	0.06	0.00	0.00	23.34
rs2503704	Sphingosine levels	GCST90200385	1	2152298	C	T	7982	-0.08	0.02	0.00	0.00	20.37
rs11585688	Sphingosine levels	GCST90200385	1	29822406	T	C	7982	0.32	0.07	0.00	0.00	22.28
rs72625853	Sphingosine levels	GCST90200385	3	22380643	T	C	7982	-0.12	0.03	0.00	0.00	20.31
rs1354034	Sphingosine levels	GCST90200385	3	56815721	C	T	7982	0.14	0.02	0.00	0.01	71.20
rs13077684	Sphingosine levels	GCST90200385	3	128404404	T	C	7982	-0.30	0.07	0.00	0.00	19.87
rs34796754	Sphingosine levels	GCST90200385	3	172026172	A	G	7982	0.09	0.02	0.00	0.00	29.44
rs918511	Sphingosine levels	GCST90200385	5	129165069	A	G	7982	-0.07	0.02	0.00	0.00	19.56
rs138638162	Sphingosine levels	GCST90200385	8	2709116	G	A	7982	-0.24	0.05	0.00	0.00	19.98
rs1503562	Sphingosine levels	GCST90200385	8	106344952	C	T	7982	-0.07	0.02	0.00	0.00	20.63
rs72770342	Sphingosine levels	GCST90200385	9	135713516	A	G	7982	-0.20	0.04	0.00	0.00	20.18
rs11603942	Sphingosine levels	GCST90200385	11	266804	T	C	7982	0.09	0.02	0.00	0.00	26.84

rs17309370	Sphingosine levels	GCST90200385	11	26696411	G	A	7982	0.12	0.03	0.00	0.00	19.87
rs11696657 1	Sphingosine levels	GCST90200385	14	87026169	A	T	7982	0.23	0.05	0.00	0.00	19.84
rs12900707	Sphingosine levels	GCST90200385	15	53482820	C	A	7982	-0.08	0.02	0.00	0.00	22.44
rs7202565	Sphingosine levels	GCST90200385	16	83457982	C	G	7982	-0.07	0.02	0.00	0.00	20.77
rs57594061 2	Sphingosine levels	GCST90200385	17	50024996	G	C	7982	0.28	0.06	0.00	0.00	20.79
rs11077609	Sphingosine levels	GCST90200385	17	68544934	C	T	7982	0.07	0.02	0.00	0.00	19.84
rs6102059	Sphingosine levels	GCST90200385	20	40600144	T	C	7982	0.08	0.02	0.00	0.00	22.26
rs137205	Sphingosine levels	GCST90200385	22	26294573	A	G	7982	-0.08	0.02	0.00	0.00	20.86
rs15110646 2	Deoxycholate levels	GCST90200386	1	18434973	T	G	7649	0.24	0.05	0.00	0.00	20.45
rs61805807	Deoxycholate levels	GCST90200386	1	171928518	C	G	7649	0.09	0.02	0.00	0.00	23.03
rs14603292 7	Deoxycholate levels	GCST90200386	1	208617840	A	T	7649	-0.36	0.07	0.00	0.00	23.24
rs15057968 5	Deoxycholate levels	GCST90200386	2	148818090	A	G	7649	-0.41	0.09	0.00	0.00	21.18
rs78252486	Deoxycholate levels	GCST90200386	2	166383347	C	G	7649	-0.13	0.03	0.00	0.00	21.34
rs3805004	Deoxycholate levels	GCST90200386	3	4753365	T	G	7649	-0.08	0.02	0.00	0.00	19.54
rs14250836 3	Deoxycholate levels	GCST90200386	3	140224284	A	G	7649	-0.21	0.05	0.00	0.00	21.13
rs71316206	Deoxycholate levels	GCST90200386	3	193575738	A	G	7649	-0.24	0.05	0.00	0.00	21.31
rs11439144 2	Deoxycholate levels	GCST90200386	4	30444886	G	C	7649	0.42	0.09	0.00	0.00	23.69
rs18159687 2	Deoxycholate levels	GCST90200386	4	104688208	A	G	7649	-0.08	0.02	0.00	0.00	22.67
rs80159151	Deoxycholate levels	GCST90200386	5	89230748	C	T	7649	0.12	0.02	0.00	0.00	23.81
rs3869145	Deoxycholate levels	GCST90200386	6	31883577	A	G	7649	-0.21	0.04	0.00	0.00	22.20
rs9353514	Deoxycholate levels	GCST90200386	6	87977193	C	T	7649	-0.21	0.05	0.00	0.00	19.58
rs917399	Deoxycholate levels	GCST90200386	7	39398181	A	G	7649	0.11	0.02	0.00	0.00	21.25
rs10107182	Deoxycholate levels	GCST90200386	8	58480178	T	C	7649	0.10	0.02	0.00	0.00	38.05
rs6999120	Deoxycholate levels	GCST90200386	8	61737989	G	A	7649	0.07	0.02	0.00	0.00	19.75
rs11140094	Deoxycholate levels	GCST90200386	9	83449982	A	T	7649	-0.10	0.02	0.00	0.00	20.17
rs10822089	Deoxycholate levels	GCST90200386	10	62935383	G	A	7649	-0.07	0.02	0.00	0.00	20.89
rs55695203	Deoxycholate levels	GCST90200386	12	21204819	C	G	7649	0.13	0.02	0.00	0.00	34.62
rs11787358 9	Deoxycholate levels	GCST90200386	12	64969773	A	C	7649	-0.32	0.07	0.00	0.00	19.94
rs1484213	Deoxycholate levels	GCST90200386	15	74291062	T	C	7649	0.10	0.02	0.00	0.00	20.57
rs11074642	Deoxycholate levels	GCST90200386	16	24642627	G	C	7649	0.08	0.02	0.00	0.00	20.40
rs9921755	Deoxycholate levels	GCST90200386	16	79494755	C	T	7649	-0.20	0.04	0.00	0.00	21.56
rs11656028	Deoxycholate levels	GCST90200386	17	662456	G	A	7649	0.11	0.02	0.00	0.00	22.82
rs56027252	Deoxycholate levels	GCST90200386	17	71190394	A	T	7649	-0.12	0.03	0.00	0.00	19.60
rs28447619	Deoxycholate levels	GCST90200386	18	22050797	A	T	7649	-0.12	0.02	0.00	0.00	22.85
rs59753541	Deoxycholate levels	GCST90200386	20	9302553	G	A	7649	0.16	0.04	0.00	0.00	20.82
rs74373300	Glycocholate levels	GCST90200387	1	237683828	A	G	8247	0.14	0.03	0.00	0.00	20.48
rs76904731	Glycocholate levels	GCST90200387	2	11564158	A	G	8247	0.25	0.06	0.00	0.00	20.54

rs114715181	Glycocholate levels	GCST90200387	2	238162493	T	C	8247	-0.23	0.05	0.00	0.00	20.82
rs191245370	Glycocholate levels	GCST90200387	3	134416433	C	T	8247	-0.26	0.05	0.00	0.00	26.59
rs4680361	Glycocholate levels	GCST90200387	3	157424236	C	T	8247	-0.07	0.02	0.00	0.00	19.70
rs62296161	Glycocholate levels	GCST90200387	4	35294993	T	C	8247	-0.11	0.02	0.00	0.00	20.92
rs113379968	Glycocholate levels	GCST90200387	4	89045867	C	T	8247	-0.22	0.04	0.00	0.00	29.10
rs4975588	Glycocholate levels	GCST90200387	5	996872	A	C	8247	-0.09	0.02	0.00	0.00	20.00
rs115579404	Glycocholate levels	GCST90200387	5	83237865	G	A	8247	-0.18	0.04	0.00	0.00	19.86
rs4713731	Glycocholate levels	GCST90200387	6	33978144	G	A	8247	0.09	0.02	0.00	0.00	23.89
rs62411867	Glycocholate levels	GCST90200387	6	56210462	A	C	8247	0.25	0.05	0.00	0.00	23.61
rs9345201	Glycocholate levels	GCST90200387	6	92134495	A	G	8247	0.10	0.02	0.00	0.00	21.10
rs6942294	Glycocholate levels	GCST90200387	6	143386683	A	G	8247	0.25	0.06	0.00	0.00	19.74
rs9648955	Glycocholate levels	GCST90200387	7	110826667	C	T	8247	-0.08	0.02	0.00	0.00	20.50
rs144656974	Glycocholate levels	GCST90200387	7	151699025	T	C	8247	0.28	0.06	0.00	0.00	22.82
rs4875826	Glycocholate levels	GCST90200387	8	2518508	C	G	8247	0.07	0.02	0.00	0.00	19.60
rs11780424	Glycocholate levels	GCST90200387	8	21360327	C	T	8247	-0.07	0.02	0.00	0.00	19.58
rs5001310	Glycocholate levels	GCST90200387	8	58172280	C	A	8247	0.09	0.02	0.00	0.00	22.51
rs7861529	Glycocholate levels	GCST90200387	9	18390741	A	G	8247	-0.09	0.02	0.00	0.00	19.78
rs2637258	Glycocholate levels	GCST90200387	10	76556482	A	G	8247	-0.22	0.04	0.00	0.00	24.19
rs79549670	Glycocholate levels	GCST90200387	11	25978069	G	A	8247	-0.22	0.05	0.00	0.00	22.44
rs17107008	Glycocholate levels	GCST90200387	11	107476508	A	G	8247	-0.20	0.04	0.00	0.00	21.60
rs146127148	Glycocholate levels	GCST90200387	12	90652794	C	T	8247	0.52	0.12	0.00	0.00	20.47
rs58248007	Glycocholate levels	GCST90200387	12	113907019	A	G	8247	0.11	0.02	0.00	0.00	19.62
rs11058996	Glycocholate levels	GCST90200387	12	127130762	T	C	8247	0.33	0.07	0.00	0.00	22.63
rs9514591	Glycocholate levels	GCST90200387	13	106902887	C	T	8247	-0.08	0.02	0.00	0.00	23.41
rs118024487	Glycocholate levels	GCST90200387	14	81194706	C	T	8247	-0.35	0.08	0.00	0.00	20.07
rs186248945	Glycocholate levels	GCST90200387	14	93956189	T	C	8247	0.35	0.08	0.00	0.00	20.37
rs1017363	Glycocholate levels	GCST90200387	15	27055226	T	C	8247	0.09	0.02	0.00	0.00	22.70
rs60556060	Glycocholate levels	GCST90200387	16	80141559	T	G	8247	-0.17	0.04	0.00	0.00	23.12
rs76149982	Glycocholate levels	GCST90200387	17	10808360	A	C	8247	-0.14	0.03	0.00	0.00	22.32
rs72841972	Glycocholate levels	GCST90200387	17	19890651	G	C	8247	-0.21	0.04	0.00	0.00	22.61
rs292450	Glycocholate levels	GCST90200387	18	58225985	T	C	8247	-0.09	0.02	0.00	0.00	29.39
rs62130083	Glycocholate levels	GCST90200387	19	1694511	A	G	8247	-0.11	0.02	0.00	0.00	26.00
rs73532962	Glycocholate levels	GCST90200387	19	30105210	A	G	8247	0.21	0.05	0.00	0.00	20.23
rs6040971	Glycocholate levels	GCST90200387	20	11894621	A	G	8247	-0.17	0.04	0.00	0.00	21.16
rs62206283	Glycocholate levels	GCST90200387	20	31853669	G	A	8247	-0.16	0.04	0.00	0.00	21.18
rs6123665	Glycocholate levels	GCST90200387	20	57144721	G	T	8247	-0.07	0.02	0.00	0.00	21.27
rs143706129	Palmitoleate (16:1n7) levels	GCST90200388	2	230022412	A	G	8290	-0.13	0.03	0.00	0.00	21.28

rs12497825	Palmitoleate (16:1n7) levels	GCST90200388	3	47628057	T	A	8290	-0.08	0.02	0.00	0.00	25.67
rs18479010	Palmitoleate (16:1n7) levels	GCST90200388	3	85927621	C	T	8290	-0.25	0.06	0.00	0.00	19.89
rs14487070	Palmitoleate (16:1n7) levels	GCST90200388	3	107620561	T	C	8290	-0.17	0.04	0.00	0.00	19.83
rs10933724	Palmitoleate (16:1n7) levels	GCST90200388	3	194249062	C	G	8290	-0.10	0.02	0.00	0.00	20.65
rs74359901	Palmitoleate (16:1n7) levels	GCST90200388	4	163033822	T	A	8290	0.16	0.03	0.00	0.00	20.12
rs6552232	Palmitoleate (16:1n7) levels	GCST90200388	4	177427940	T	C	8290	0.10	0.02	0.00	0.00	21.87
rs11441444	Palmitoleate (16:1n7) levels	GCST90200388	5	21817138	G	A	8290	-0.15	0.03	0.00	0.00	21.33
rs75198642	Palmitoleate (16:1n7) levels	GCST90200388	7	89354866	T	G	8290	-0.13	0.03	0.00	0.00	22.59
rs2517099	Palmitoleate (16:1n7) levels	GCST90200388	8	17461254	T	G	8290	-0.10	0.02	0.00	0.00	19.53
rs72656089	Palmitoleate (16:1n7) levels	GCST90200388	8	56370472	T	C	8290	0.13	0.03	0.00	0.00	20.10
rs7852780	Palmitoleate (16:1n7) levels	GCST90200388	9	111698657	T	C	8290	0.07	0.01	0.00	0.00	21.76
rs57711118	Palmitoleate (16:1n7) levels	GCST90200388	10	18344386	C	T	8290	-0.25	0.05	0.00	0.00	21.92
rs7070122	Palmitoleate (16:1n7) levels	GCST90200388	10	76937548	G	C	8290	-0.10	0.02	0.00	0.00	21.56
rs603424	Palmitoleate (16:1n7) levels	GCST90200388	10	100315722	A	G	8290	-0.13	0.02	0.00	0.01	46.00
rs15094126	Palmitoleate (16:1n7) levels	GCST90200388	10	129642407	C	T	8290	-0.28	0.06	0.00	0.00	19.52
rs11214239	Palmitoleate (16:1n7) levels	GCST90200388	11	112548351	T	C	8290	-0.36	0.08	0.00	0.00	19.95
rs11051139	Palmitoleate (16:1n7) levels	GCST90200388	12	30885715	A	G	8290	0.17	0.04	0.00	0.00	22.66
rs18067066	Palmitoleate (16:1n7) levels	GCST90200388	12	70769855	A	G	8290	0.14	0.03	0.00	0.00	23.58
rs14816387	Palmitoleate (16:1n7) levels	GCST90200388	12	97667788	A	G	8290	-0.26	0.06	0.00	0.00	20.83
rs4776767	Palmitoleate (16:1n7) levels	GCST90200388	15	66236885	T	C	8290	-0.07	0.01	0.00	0.00	22.58
rs73451393	Palmitoleate (16:1n7) levels	GCST90200388	15	82147485	C	A	8290	-0.14	0.03	0.00	0.00	21.08
rs291035	Palmitoleate (16:1n7) levels	GCST90200388	15	95095723	A	C	8290	0.09	0.02	0.00	0.00	19.51
rs6498691	Palmitoleate (16:1n7) levels	GCST90200388	16	17353995	T	C	8290	0.07	0.01	0.00	0.00	20.11
rs14755139	Palmitoleate (16:1n7) levels	GCST90200388	18	68748916	G	A	8290	0.24	0.05	0.00	0.00	20.45
rs11391569	Palmitoleate (16:1n7) levels	GCST90200388	19	56248382	A	G	8290	-0.14	0.03	0.00	0.00	22.20
rs2839473	Palmitoleate (16:1n7) levels	GCST90200388	21	42138261	A	G	8290	-0.09	0.02	0.00	0.00	20.29
rs155647	Leucine levels	GCST90200389	1	112144879	G	A	8252	0.07	0.02	0.00	0.00	21.86
rs17033387	Leucine levels	GCST90200389	2	45289473	T	C	8252	0.16	0.03	0.00	0.00	21.13
rs1529101	Leucine levels	GCST90200389	2	64245979	G	C	8252	0.08	0.02	0.00	0.00	23.57
rs11536984	Leucine levels	GCST90200389	2	120440832	A	G	8252	0.17	0.04	0.00	0.00	22.78
rs11460025	Leucine levels	GCST90200389	2	240140390	A	G	8252	0.28	0.06	0.00	0.00	20.42
rs73158634	Leucine levels	GCST90200389	3	152685455	G	T	8252	0.33	0.07	0.00	0.00	20.50
rs12654931	Leucine levels	GCST90200389	5	102535423	T	A	8252	0.09	0.02	0.00	0.00	23.24
rs17223514	Leucine levels	GCST90200389	5	142621588	T	C	8252	0.16	0.03	0.00	0.00	23.64
rs14720666	Leucine levels	GCST90200389	6	132533457	G	A	8252	0.30	0.07	0.00	0.00	20.59
rs28743006	Leucine levels	GCST90200389	6	168952193	C	G	8252	-0.12	0.02	0.00	0.00	23.61
rs14778582	Leucine levels	GCST90200389	9	32254860	G	A	8252	-0.21	0.04	0.00	0.00	21.32
rs11756925	Leucine levels	GCST90200389	9	79435092	G	A	8252	-0.17	0.04	0.00	0.00	19.77
rs11397903	Leucine levels	GCST90200389	9	87880785	A	G	8252	-0.18	0.04	0.00	0.00	19.63
rs10887866	Leucine levels	GCST90200389	10	88911993	T	G	8252	0.13	0.03	0.00	0.00	21.52
rs7946890	Leucine levels	GCST90200389	11	117624230	C	A	8252	-0.13	0.03	0.00	0.00	24.83

rs140114695	Leucine levels	GCST90200389	12	32407821	T	C	8252	0.28	0.06	0.00	0.00	21.82
rs11058034	Leucine levels	GCST90200389	12	122410389	T	G	8252	0.08	0.02	0.00	0.00	20.88
rs145150132	Leucine levels	GCST90200389	13	69504553	C	T	8252	0.26	0.06	0.00	0.00	22.06
rs6574951	Leucine levels	GCST90200389	14	87573553	A	G	8252	0.08	0.02	0.00	0.00	20.78
rs76255768	Leucine levels	GCST90200389	18	11079468	C	T	8252	0.28	0.06	0.00	0.00	23.47
rs7413889	Stearate (18:0) levels	GCST90200390	1	5117216	G	T	8272	-0.07	0.02	0.00	0.00	20.13
rs55823596	Stearate (18:0) levels	GCST90200390	3	47758541	G	A	8272	0.08	0.02	0.00	0.00	21.21
rs6801298	Stearate (18:0) levels	GCST90200390	3	67956289	G	T	8272	0.09	0.02	0.00	0.00	19.90
rs4955746	Stearate (18:0) levels	GCST90200390	3	170645666	A	T	8272	0.14	0.03	0.00	0.00	20.63
rs116530753	Stearate (18:0) levels	GCST90200390	4	156785921	A	G	8272	-0.17	0.04	0.00	0.00	22.42
rs2671912	Stearate (18:0) levels	GCST90200390	5	374992	C	T	8272	-0.08	0.02	0.00	0.00	20.50
rs79859092	Stearate (18:0) levels	GCST90200390	5	96814807	C	T	8272	-0.21	0.04	0.00	0.00	25.47
rs200257	Stearate (18:0) levels	GCST90200390	6	50442969	T	C	8272	-0.11	0.03	0.00	0.00	19.84
rs73045049	Stearate (18:0) levels	GCST90200390	7	2658714	A	G	8272	-0.19	0.04	0.00	0.00	20.55
rs117756469	Stearate (18:0) levels	GCST90200390	8	38084362	T	C	8272	0.21	0.05	0.00	0.00	19.74
rs12376024	Stearate (18:0) levels	GCST90200390	9	14169558	T	C	8272	0.11	0.02	0.00	0.00	21.99
rs79950608	Stearate (18:0) levels	GCST90200390	9	110873692	T	C	8272	0.17	0.04	0.00	0.00	20.57
rs577111185	Stearate (18:0) levels	GCST90200390	10	18344386	C	T	8272	-0.27	0.06	0.00	0.00	22.26
rs603424	Stearate (18:0) levels	GCST90200390	10	100315722	A	G	8272	0.10	0.02	0.00	0.00	23.37
rs141744792	Stearate (18:0) levels	GCST90200390	11	9667496	A	G	8272	0.41	0.09	0.00	0.00	19.77
rs2045842	Stearate (18:0) levels	GCST90200390	11	97619774	T	C	8272	-0.11	0.02	0.00	0.00	20.16
rs2325324	Stearate (18:0) levels	GCST90200390	13	70833829	A	T	8272	-0.10	0.02	0.00	0.00	22.52
rs9962055	Stearate (18:0) levels	GCST90200390	18	68153003	G	A	8272	0.10	0.02	0.00	0.00	20.50
rs111949383	Stearate (18:0) levels	GCST90200390	19	56248371	G	C	8272	-0.16	0.03	0.00	0.00	24.56
rs148758368	Stearate (18:0) levels	GCST90200390	20	22738936	T	A	8272	0.37	0.08	0.00	0.00	19.59
rs142692985	Stearate (18:0) levels	GCST90200390	22	33720884	C	G	8272	0.36	0.08	0.00	0.00	19.99
rs41313373	Methionine levels	GCST90200391	1	92474854	T	C	8222	0.12	0.02	0.00	0.00	24.33
rs149469557	Methionine levels	GCST90200391	1	118704964	G	T	8222	0.14	0.03	0.00	0.00	19.78
rs149942876	Methionine levels	GCST90200391	1	218796257	A	G	8222	0.26	0.05	0.00	0.00	22.63
rs72750069	Methionine levels	GCST90200391	1	233233492	C	T	8222	0.22	0.05	0.00	0.00	19.96
rs74623425	Methionine levels	GCST90200391	1	236075511	G	A	8222	0.24	0.06	0.00	0.00	19.65
rs4669047	Methionine levels	GCST90200391	2	6246094	T	C	8222	-0.09	0.02	0.00	0.00	24.17
rs1258432	Methionine levels	GCST90200391	2	88347629	A	T	8222	0.09	0.02	0.00	0.00	24.46
rs112414844	Methionine levels	GCST90200391	2	165099470	C	G	8222	0.13	0.03	0.00	0.00	24.34
rs138314904	Methionine levels	GCST90200391	2	236352923	C	G	8222	0.49	0.11	0.00	0.00	21.88
rs1876155	Methionine levels	GCST90200391	6	100350014	T	G	8222	0.11	0.02	0.00	0.00	23.37
rs77721269	Methionine levels	GCST90200391	6	127519647	C	T	8222	-0.26	0.06	0.00	0.00	21.63
rs7780890	Methionine levels	GCST90200391	7	44199925	G	T	8222	0.32	0.07	0.00	0.00	24.48

rs34375472	Methionine levels	GCST90200391	8	68398245	C	T	8222	-0.15	0.03	0.00	0.00	20.10
rs7850323	Methionine levels	GCST90200391	9	10960675	C	G	8222	-0.09	0.02	0.00	0.00	20.28
rs6475432	Methionine levels	GCST90200391	9	20465007	T	C	8222	-0.08	0.02	0.00	0.00	19.59
rs112378336	Methionine levels	GCST90200391	9	71779572	C	G	8222	0.09	0.02	0.00	0.00	20.24
rs7094952	Methionine levels	GCST90200391	10	13934810	T	C	8222	-0.10	0.02	0.00	0.00	26.21
rs79113443	Methionine levels	GCST90200391	10	71046619	T	G	8222	-0.10	0.02	0.00	0.00	19.53
rs687448	Methionine levels	GCST90200391	12	3140340	G	C	8222	-0.08	0.02	0.00	0.00	27.48
rs2629804	Methionine levels	GCST90200391	12	104000637	C	T	8222	0.09	0.02	0.00	0.00	21.98
rs112387872	Methionine levels	GCST90200391	14	43910941	A	T	8222	0.32	0.07	0.00	0.00	21.94
rs74963919	Methionine levels	GCST90200391	17	69062290	T	A	8222	0.30	0.06	0.00	0.00	23.08
rs117306307	Methionine levels	GCST90200391	20	57909168	A	G	8222	0.27	0.06	0.00	0.00	19.95
rs61813511	Orotate levels	GCST90200392	1	156613824	A	G	8128	-0.13	0.03	0.00	0.00	25.30
rs79332970	Orotate levels	GCST90200392	1	222636132	A	G	8128	0.13	0.03	0.00	0.00	24.59
rs142045915	Orotate levels	GCST90200392	2	12204011	A	G	8128	0.21	0.04	0.00	0.00	22.71
rs155140	Orotate levels	GCST90200392	2	181453608	T	A	8128	0.28	0.06	0.00	0.00	22.66
rs2651616	Orotate levels	GCST90200392	3	124586647	C	G	8128	-0.07	0.02	0.00	0.00	21.11
rs16835929	Orotate levels	GCST90200392	3	124736367	G	A	8128	-0.64	0.02	0.00	0.12	#####
rs112845131	Orotate levels	GCST90200392	3	144385482	T	A	8128	0.32	0.07	0.00	0.00	21.26
rs933604	Orotate levels	GCST90200392	3	169608657	G	C	8128	0.08	0.02	0.00	0.00	20.69
rs6811193	Orotate levels	GCST90200392	4	12933850	G	A	8128	-0.11	0.02	0.00	0.00	21.31
rs147354844	Orotate levels	GCST90200392	4	47679632	A	G	8128	0.34	0.08	0.00	0.00	20.10
rs6858426	Orotate levels	GCST90200392	4	179230062	G	A	8128	0.09	0.02	0.00	0.00	21.30
rs12514603	Orotate levels	GCST90200392	5	164340	T	C	8128	-0.07	0.02	0.00	0.00	21.08
rs4316067	Orotate levels	GCST90200392	7	33041902	G	A	8128	-0.34	0.02	0.00	0.05	429.04
rs117742456	Orotate levels	GCST90200392	7	33455612	T	C	8128	-0.22	0.05	0.00	0.00	23.53
rs7832272	Orotate levels	GCST90200392	8	4631025	G	C	8128	0.33	0.07	0.00	0.00	21.83
rs116923742	Orotate levels	GCST90200392	9	14615653	C	T	8128	0.30	0.07	0.00	0.00	19.71
rs7093087	Orotate levels	GCST90200392	10	102940687	A	G	8128	-0.09	0.02	0.00	0.00	21.28
rs4435036	Orotate levels	GCST90200392	11	113544423	C	T	8128	-0.07	0.02	0.00	0.00	20.36
rs117160826	Orotate levels	GCST90200392	11	131741813	T	C	8128	-0.21	0.05	0.00	0.00	21.29
rs35293940	Orotate levels	GCST90200392	12	12569130	G	C	8128	-0.41	0.08	0.00	0.00	25.56
rs10146099	Orotate levels	GCST90200392	14	98662527	C	T	8128	0.10	0.02	0.00	0.00	19.68
rs2415033	Orotate levels	GCST90200392	15	69333664	A	C	8128	0.08	0.02	0.00	0.00	20.81
rs80074555	Orotate levels	GCST90200392	15	93171143	T	C	8128	0.27	0.06	0.00	0.00	20.47
rs17621854	Orotate levels	GCST90200392	16	77489014	A	G	8128	-0.08	0.02	0.00	0.00	21.98
rs12448772	Orotate levels	GCST90200392	16	81406086	C	T	8128	0.08	0.02	0.00	0.00	20.62
rs4797980	Orotate levels	GCST90200392	18	2452853	G	C	8128	-0.08	0.02	0.00	0.00	20.40
rs12969951	Orotate levels	GCST90200392	18	14784794	T	A	8128	0.22	0.05	0.00	0.00	19.66
rs7243577	Orotate levels	GCST90200392	18	29101768	T	C	8128	-0.17	0.04	0.00	0.00	22.14
rs113656266	Orotate levels	GCST90200392	18	62377059	A	G	8128	0.12	0.03	0.00	0.00	20.57
rs2825127	Orotate levels	GCST90200392	21	18800513	G	C	8128	0.35	0.07	0.00	0.00	25.48
rs74729572	Orotate levels	GCST90200392	21	32749659	A	T	8128	0.18	0.04	0.00	0.00	19.78
rs3788544	Orotate levels	GCST90200392	22	38668961	T	C	8128	-0.08	0.02	0.00	0.00	19.64
rs470119	Orotate levels	GCST90200392	22	50528485	C	T	8128	0.09	0.02	0.00	0.00	30.35
rs12132412	Phosphate levels (UKB data field 30810)	GCST90200393	1	21493549	G	A	8247	0.10	0.02	0.00	0.00	40.10
rs1781070	Phosphate levels (UKB data field 30810)	GCST90200393	1	108027076	A	G	8247	-0.08	0.02	0.00	0.00	28.73
rs112313662	Phosphate levels (UKB data field 30810)	GCST90200393	1	242708186	C	T	8247	0.09	0.02	0.00	0.00	19.73

rs4974503	Phosphate levels (UKB data field 30810)	GCST90200393	3	134399905	C	T	8247	-0.07	0.02	0.00	0.00	21.58
rs850314	Phosphate levels (UKB data field 30810)	GCST90200393	3	187234799	T	C	8247	0.07	0.02	0.00	0.00	20.29
rs78247962	Phosphate levels (UKB data field 30810)	GCST90200393	4	7429125	C	T	8247	0.09	0.02	0.00	0.00	20.02
rs28588878	Phosphate levels (UKB data field 30810)	GCST90200393	4	130301983	T	C	8247	0.25	0.05	0.00	0.00	22.21
rs9469582	Phosphate levels (UKB data field 30810)	GCST90200393	6	33748162	G	A	8247	-0.21	0.03	0.00	0.01	51.35
rs9498162	Phosphate levels (UKB data field 30810)	GCST90200393	6	148801625	C	T	8247	-0.09	0.02	0.00	0.00	20.51
rs11976736	Phosphate levels (UKB data field 30810)	GCST90200393	7	8105571	A	G	8247	-0.08	0.02	0.00	0.00	19.74
rs11697626 2	Phosphate levels (UKB data field 30810)	GCST90200393	8	17530115	C	T	8247	-0.17	0.03	0.00	0.00	24.20
rs11710759 0	Phosphate levels (UKB data field 30810)	GCST90200393	8	54399090	T	C	8247	0.26	0.06	0.00	0.00	22.31
rs77625001	Phosphate levels (UKB data field 30810)	GCST90200393	8	117235655	A	G	8247	-0.21	0.04	0.00	0.00	21.86
rs76633208	Phosphate levels (UKB data field 30810)	GCST90200393	10	18977425	G	A	8247	-0.15	0.03	0.00	0.00	19.84
rs12267678	Phosphate levels (UKB data field 30810)	GCST90200393	10	104440179	A	G	8247	-0.09	0.02	0.00	0.00	22.53
rs78361175	Phosphate levels (UKB data field 30810)	GCST90200393	10	131715913	T	C	8247	-0.47	0.11	0.00	0.00	20.18
rs4539348	Phosphate levels (UKB data field 30810)	GCST90200393	11	71531415	T	C	8247	-0.07	0.02	0.00	0.00	19.76
rs2970818	Phosphate levels (UKB data field 30810)	GCST90200393	12	4497002	A	T	8247	0.13	0.03	0.00	0.00	27.60
rs11782972 1	Phosphate levels (UKB data field 30810)	GCST90200393	12	74886917	G	A	8247	0.18	0.04	0.00	0.00	20.79
rs12903202	Phosphate levels (UKB data field 30810)	GCST90200393	15	58014595	G	A	8247	0.12	0.03	0.00	0.00	22.54
rs74030608	Phosphate levels (UKB data field 30810)	GCST90200393	15	80786691	T	G	8247	-0.37	0.08	0.00	0.00	20.03

rs76300649	Phosphate levels (UKB data field 30810)	GCST90200393	17	78035083	T	G	8247	-0.24	0.05	0.00	0.00	22.24
rs111663143	Phosphate levels (UKB data field 30810)	GCST90200393	18	8935242	C	T	8247	0.13	0.03	0.00	0.00	23.36
rs116883473	Phosphate levels (UKB data field 30810)	GCST90200393	18	65818278	G	A	8247	0.36	0.07	0.00	0.00	25.86
rs4817555	Phosphate levels (UKB data field 30810)	GCST90200393	21	33253819	A	G	8247	-0.09	0.02	0.00	0.00	20.08
rs61780531	Inosine levels	GCST90200394	1	31122127	T	A	4940	0.12	0.03	0.00	0.00	20.13
rs11682827	Inosine levels	GCST90200394	2	4114137	C	G	4940	0.33	0.07	0.00	0.00	20.00
rs6726582	Inosine levels	GCST90200394	2	136283796	G	C	4940	-0.13	0.03	0.00	0.00	23.39
rs7596030	Inosine levels	GCST90200394	2	205663162	A	C	4940	-0.10	0.02	0.00	0.00	23.28
rs4684093	Inosine levels	GCST90200394	3	11983856	C	A	4940	-0.10	0.02	0.00	0.00	20.58
rs115697096	Inosine levels	GCST90200394	3	14348760	A	C	4940	-0.41	0.09	0.00	0.00	21.04
rs80100103	Inosine levels	GCST90200394	4	13644813	T	C	4940	0.32	0.07	0.00	0.00	22.20
rs144006837	Inosine levels	GCST90200394	4	68360712	A	G	4940	0.16	0.04	0.00	0.00	20.15
rs114028426	Inosine levels	GCST90200394	4	180679966	A	G	4940	-0.45	0.09	0.00	0.00	23.42
rs9383146	Inosine levels	GCST90200394	6	16267244	T	C	4940	0.10	0.02	0.00	0.00	23.15
rs17439165	Inosine levels	GCST90200394	7	27396485	G	A	4940	-0.18	0.04	0.00	0.00	20.00
rs12544187	Inosine levels	GCST90200394	8	38466908	A	C	4940	0.09	0.02	0.00	0.00	19.80
rs10095211	Inosine levels	GCST90200394	8	121481894	T	C	4940	0.10	0.02	0.00	0.00	22.49
rs183252202	Inosine levels	GCST90200394	9	31272235	A	G	4940	0.22	0.05	0.00	0.00	20.42
rs79731025	Inosine levels	GCST90200394	11	88422110	A	G	4940	-0.43	0.10	0.00	0.00	20.71
rs12426091	Inosine levels	GCST90200394	12	67435825	C	A	4940	-0.13	0.03	0.00	0.00	20.54
rs117828795	Inosine levels	GCST90200394	15	62036652	C	T	4940	-0.38	0.08	0.00	0.00	21.50
rs77874798	Inosine levels	GCST90200394	16	52905630	T	G	4940	0.34	0.07	0.00	0.00	21.64
rs4622569	Inosine levels	GCST90200394	17	17979923	A	G	4940	0.14	0.03	0.00	0.00	21.24
rs151043279	Inosine levels	GCST90200394	17	78302914	A	C	4940	0.40	0.09	0.00	0.00	19.73
rs148222624	Inosine levels	GCST90200394	19	37779231	G	C	4940	0.27	0.06	0.00	0.00	20.04
rs145407553	Inosine levels	GCST90200394	22	47591196	A	G	4940	0.30	0.07	0.00	0.00	19.73
rs150103370	Inosine 5'-monophosphate (IMP) levels	GCST90200395	1	22173550	T	A	4639	-0.46	0.09	0.00	0.01	23.67
rs138068770	Inosine 5'-monophosphate (IMP) levels	GCST90200395	2	144937850	G	A	4639	-0.33	0.07	0.00	0.00	19.53
rs1354034	Inosine 5'-monophosphate (IMP) levels	GCST90200395	3	56815721	C	T	4639	0.10	0.02	0.00	0.00	22.35
rs9816900	Inosine 5'-monophosphate (IMP) levels	GCST90200395	3	96611358	C	T	4639	-0.20	0.04	0.00	0.00	22.96
rs78185304	Inosine 5'-monophosphate (IMP) levels	GCST90200395	3	130407329	C	T	4639	-0.37	0.08	0.00	0.00	19.89
rs2049544	Inosine 5'-monophosphate (IMP) levels	GCST90200395	4	9494280	C	T	4639	-0.14	0.03	0.00	0.01	23.84
rs150162267	Inosine 5'-monophosphate (IMP) levels	GCST90200395	4	77547772	C	A	4639	0.21	0.04	0.00	0.00	22.56
rs17013669	Inosine 5'-monophosphate (IMP) levels	GCST90200395	4	128767347	T	C	4639	-0.19	0.04	0.00	0.01	23.39
rs185796711	Inosine 5'-monophosphate (IMP) levels	GCST90200395	4	149286128	T	C	4639	0.47	0.11	0.00	0.00	19.80

rs72773085	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	5	81701196	A	C	4639	0.14	0.03	0.00	0.00	19.62
rs62384543	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	5	101198240	T	C	4639	-0.14	0.03	0.00	0.00	19.76
rs17681009	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	5	171482701	T	C	4639	0.24	0.05	0.00	0.00	22.19
rs14441314 2	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	6	93034193	G	A	4639	0.20	0.04	0.00	0.00	20.31
rs11761910	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	7	32094526	A	G	4639	-0.11	0.02	0.00	0.01	24.11
rs11784663 5	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	7	145208663	A	G	4639	-0.22	0.05	0.00	0.00	20.91
rs28655196	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	8	81122557	T	C	4639	0.10	0.02	0.00	0.01	24.23
rs1445327	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	11	26985566	G	T	4639	-0.13	0.03	0.00	0.00	20.27
rs7940073	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	11	119107701	C	G	4639	0.22	0.05	0.00	0.00	19.88
rs76657508	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	12	117753142	C	T	4639	0.26	0.06	0.00	0.00	20.90
rs55818967 9	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	16	62996844	T	C	4639	-0.17	0.04	0.00	0.00	21.09
rs16947101	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	16	78083979	C	T	4639	0.14	0.03	0.00	0.00	21.03
rs11795589 9	Inosine 5'- monophosphat e (IMP) levels	GCST90200395	19	11125127	T	C	4639	0.51	0.10	0.00	0.01	24.75
rs34699288	Phenylalanine levels	GCST90200396	1	101033704	T	A	8228	0.18	0.04	0.00	0.00	20.93
rs14925213 4	Phenylalanine levels	GCST90200396	3	42102659	C	A	8228	-0.15	0.03	0.00	0.00	19.51
rs73172239	Phenylalanine levels	GCST90200396	3	179493713	G	A	8228	0.22	0.05	0.00	0.00	21.87
rs2345004	Phenylalanine levels	GCST90200396	4	108915366	T	C	8228	-0.08	0.02	0.00	0.00	21.32
rs11520901 8	Phenylalanine levels	GCST90200396	4	165003229	T	C	8228	0.24	0.05	0.00	0.00	26.12
rs13185663	Phenylalanine levels	GCST90200396	5	174552256	G	T	8228	-0.08	0.02	0.00	0.00	23.75
rs11746864	Phenylalanine levels	GCST90200396	5	178411867	G	A	8228	0.07	0.02	0.00	0.00	20.34
rs9472189	Phenylalanine levels	GCST90200396	6	44013142	G	T	8228	0.13	0.03	0.00	0.00	19.79
rs11715962 9	Phenylalanine levels	GCST90200396	7	1829421	A	G	8228	-0.28	0.06	0.00	0.00	20.63
rs6967692	Phenylalanine levels	GCST90200396	7	55744739	G	A	8228	0.26	0.06	0.00	0.00	21.17
rs15024949 0	Phenylalanine levels	GCST90200396	8	10100145	T	C	8228	-0.38	0.08	0.00	0.00	21.84
rs34375472	Phenylalanine levels	GCST90200396	8	68398245	C	T	8228	-0.16	0.03	0.00	0.00	23.78
rs14844400 6	Phenylalanine levels	GCST90200396	9	88071519	T	C	8228	0.24	0.05	0.00	0.00	19.51
rs79909098	Phenylalanine levels	GCST90200396	9	91549237	T	C	8228	-0.28	0.06	0.00	0.00	24.51
rs174574	Phenylalanine levels	GCST90200396	11	61832870	C	A	8228	-0.07	0.02	0.00	0.00	20.71
rs937475	Phenylalanine levels	GCST90200396	12	102854494	G	A	8228	-0.14	0.02	0.00	0.01	83.54
rs7969789	Phenylalanine levels	GCST90200396	12	102932003	T	C	8228	-0.09	0.02	0.00	0.00	29.09

rs11772078 2	Phenylalanine levels	GCST90200396	13	100163879	G	C	8228	0.35	0.08	0.00	0.00	20.99
rs11811151 3	Phenylalanine levels	GCST90200396	14	29125934	A	G	8228	0.25	0.05	0.00	0.00	20.66
rs72899355	Phenylalanine levels	GCST90200396	18	7691811	A	C	8228	0.37	0.08	0.00	0.00	19.54
rs62111449	Phenylalanine levels	GCST90200396	19	35235285	T	C	8228	0.08	0.02	0.00	0.00	23.40
rs56214525	Palmitate (16:0) levels	GCST90200397	1	206023974	C	G	8269	-0.42	0.09	0.00	0.00	22.68
rs80018125	Palmitate (16:0) levels	GCST90200397	3	14805969	T	C	8269	-0.19	0.04	0.00	0.00	20.60
rs12497825	Palmitate (16:0) levels	GCST90200397	3	47628057	T	A	8269	-0.08	0.02	0.00	0.00	25.74
rs11338487 9	Palmitate (16:0) levels	GCST90200397	4	4788689	A	G	8269	-0.21	0.04	0.00	0.00	21.52
rs11653075 3	Palmitate (16:0) levels	GCST90200397	4	156785921	A	G	8269	-0.18	0.03	0.00	0.00	26.44
rs62352255	Palmitate (16:0) levels	GCST90200397	4	165147155	G	C	8269	-0.10	0.02	0.00	0.00	20.93
rs79859092	Palmitate (16:0) levels	GCST90200397	5	96814807	C	T	8269	-0.22	0.04	0.00	0.00	28.03
rs6916106	Palmitate (16:0) levels	GCST90200397	6	57311692	G	A	8269	0.09	0.02	0.00	0.00	19.81
rs7803343	Palmitate (16:0) levels	GCST90200397	7	10226349	A	G	8269	-0.07	0.02	0.00	0.00	19.61
rs75198642	Palmitate (16:0) levels	GCST90200397	7	89354866	T	G	8269	-0.13	0.03	0.00	0.00	19.56
rs11775646 9	Palmitate (16:0) levels	GCST90200397	8	38084362	T	C	8269	0.21	0.05	0.00	0.00	20.03
rs79715983	Palmitate (16:0) levels	GCST90200397	9	14170637	C	T	8269	0.11	0.02	0.00	0.00	20.98
rs10993728	Palmitate (16:0) levels	GCST90200397	9	90860956	A	G	8269	0.10	0.02	0.00	0.00	19.62
rs79950608	Palmitate (16:0) levels	GCST90200397	9	110873692	T	C	8269	0.16	0.04	0.00	0.00	20.50
rs57711118 5	Palmitate (16:0) levels	GCST90200397	10	18344386	C	T	8269	-0.26	0.06	0.00	0.00	22.69
rs79507970	Palmitate (16:0) levels	GCST90200397	12	24993537	C	G	8269	0.26	0.05	0.00	0.00	22.61
rs2306885	Palmitate (16:0) levels	GCST90200397	12	95262746	C	A	8269	-0.12	0.03	0.00	0.00	21.19
rs2281810	Palmitate (16:0) levels	GCST90200397	13	42887507	G	A	8269	0.07	0.02	0.00	0.00	20.40
rs12325369	Palmitate (16:0) levels	GCST90200397	16	17839438	C	T	8269	-0.08	0.02	0.00	0.00	19.68
rs11391569 1	Palmitate (16:0) levels	GCST90200397	19	56248382	A	G	8269	-0.16	0.03	0.00	0.00	25.19
rs2826831	Palmitate (16:0) levels	GCST90200397	21	21428005	A	G	8269	-0.09	0.02	0.00	0.00	21.08
rs80053496	Palmitate (16:0) levels	GCST90200397	21	39201944	A	G	8269	-0.24	0.05	0.00	0.00	20.35
rs10196167	Malate levels	GCST90200398	2	34726352	G	C	8187	0.07	0.02	0.00	0.00	20.05
rs11633667 7	Malate levels	GCST90200398	2	39567159	G	A	8187	0.24	0.05	0.00	0.00	21.85
rs3789738	Malate levels	GCST90200398	2	108897330	T	A	8187	-0.09	0.02	0.00	0.00	20.03
rs6795728	Malate levels	GCST90200398	3	182636155	G	A	8187	0.28	0.06	0.00	0.00	20.54
rs6846728	Malate levels	GCST90200398	4	38361785	G	T	8187	0.10	0.02	0.00	0.00	19.90
rs1497900	Malate levels	GCST90200398	4	61683752	C	G	8187	-0.07	0.02	0.00	0.00	21.11
rs12640669	Malate levels	GCST90200398	4	94585380	A	G	8187	0.08	0.02	0.00	0.00	24.22
rs7681811	Malate levels	GCST90200398	4	161448937	T	C	8187	-0.14	0.03	0.00	0.00	23.89
rs80069347	Malate levels	GCST90200398	5	98432711	G	T	8187	0.17	0.04	0.00	0.00	19.78
rs9379746	Malate levels	GCST90200398	6	25264249	T	C	8187	0.07	0.02	0.00	0.00	20.62
rs75307575	Malate levels	GCST90200398	6	50735121	G	A	8187	0.10	0.02	0.00	0.00	22.56
rs76631463	Malate levels	GCST90200398	8	4801375	T	C	8187	0.29	0.06	0.00	0.00	20.45
rs729554	Malate levels	GCST90200398	10	131159864	A	G	8187	0.08	0.02	0.00	0.00	21.73
rs14624152 8	Malate levels	GCST90200398	12	48425437	A	G	8187	0.21	0.05	0.00	0.00	20.00
rs80281674	Malate levels	GCST90200398	15	81207452	A	G	8187	0.25	0.06	0.00	0.00	19.80
rs57378841	Malate levels	GCST90200398	16	33516824	A	G	8187	1.21	0.27	0.00	0.00	20.57
rs14986602 3	Malate levels	GCST90200398	17	65593398	T	C	8187	-0.25	0.05	0.00	0.00	20.82
rs35121878	Malate levels	GCST90200398	17	82232895	C	T	8187	-0.17	0.02	0.00	0.02	131.87
rs11672496	Malate levels	GCST90200398	19	46271870	T	A	8187	0.10	0.02	0.00	0.00	19.63

rs6124830	Malate levels	GCST90200398	20	46608139	C	T	8187	0.19	0.02	0.00	0.01	93.88
rs79343412	Isoleucine levels	GCST90200399	1	201513207	C	T	8255	-0.15	0.03	0.00	0.00	24.08
rs10490256	Isoleucine levels	GCST90200399	2	40555911	G	C	8255	0.12	0.03	0.00	0.00	23.48
rs17033387	Isoleucine levels	GCST90200399	2	45289473	T	C	8255	0.17	0.03	0.00	0.00	25.23
rs114600258	Isoleucine levels	GCST90200399	2	240140390	A	G	8255	0.28	0.06	0.00	0.00	21.27
rs6845380	Isoleucine levels	GCST90200399	4	112635503	C	T	8255	-0.10	0.02	0.00	0.00	19.73
rs6891258	Isoleucine levels	GCST90200399	5	102536433	A	G	8255	0.09	0.02	0.00	0.00	20.81
rs17223514	Isoleucine levels	GCST90200399	5	142621588	T	C	8255	0.16	0.03	0.00	0.00	22.53
rs10073154	Isoleucine levels	GCST90200399	5	173966955	G	C	8255	0.07	0.02	0.00	0.00	21.98
rs147206660	Isoleucine levels	GCST90200399	6	132533457	G	A	8255	0.31	0.07	0.00	0.00	20.66
rs77074723	Isoleucine levels	GCST90200399	6	156515365	A	G	8255	-0.14	0.03	0.00	0.00	19.72
rs2227678	Isoleucine levels	GCST90200399	7	101133013	C	G	8255	-0.17	0.04	0.00	0.00	22.43
rs57112193	Isoleucine levels	GCST90200399	8	15398054	A	G	8255	-0.18	0.04	0.00	0.00	22.40
rs138975286	Isoleucine levels	GCST90200399	8	57072385	G	A	8255	0.28	0.06	0.00	0.00	19.54
rs147785826	Isoleucine levels	GCST90200399	9	32254860	G	A	8255	-0.20	0.05	0.00	0.00	19.60
rs113979038	Isoleucine levels	GCST90200399	9	87880785	A	G	8255	-0.18	0.04	0.00	0.00	20.41
rs10885207	Isoleucine levels	GCST90200399	10	111549014	T	G	8255	-0.07	0.02	0.00	0.00	20.61
rs117701120	Isoleucine levels	GCST90200399	10	128809875	G	C	8255	0.21	0.05	0.00	0.00	19.99
rs12228383	Isoleucine levels	GCST90200399	12	76826080	G	A	8255	-0.13	0.03	0.00	0.00	19.74
rs884313	Isoleucine levels	GCST90200399	13	113041894	T	A	8255	-0.12	0.02	0.00	0.00	24.02
rs11661293	Isoleucine levels	GCST90200399	18	67710598	T	C	8255	0.10	0.02	0.00	0.00	22.56
rs79434713	Isoleucine levels	GCST90200399	19	6700971	A	C	8255	-0.16	0.03	0.00	0.00	22.30
rs116927510	Isoleucine levels	GCST90200399	19	42935320	G	C	8255	-0.11	0.02	0.00	0.00	20.66
rs138894876	Isoleucine levels	GCST90200399	21	13223932	C	T	8255	1.32	0.29	0.00	0.00	20.36
rs146081060	Isoleucine levels	GCST90200399	21	45614847	A	G	8255	-0.32	0.07	0.00	0.00	22.63
rs12353979	Nicotinamide levels	GCST90200400	1	29591142	G	A	8110	0.11	0.02	0.00	0.00	20.81
rs148244996	Nicotinamide levels	GCST90200400	1	197738335	T	A	8110	0.38	0.08	0.00	0.00	20.23
rs4665924	Nicotinamide levels	GCST90200400	2	26916437	C	T	8110	0.08	0.02	0.00	0.00	26.26
rs79366070	Nicotinamide levels	GCST90200400	2	158421006	A	G	8110	0.24	0.05	0.00	0.00	23.40
rs67524001	Nicotinamide levels	GCST90200400	2	235161263	T	C	8110	0.08	0.02	0.00	0.00	23.57
rs4132577	Nicotinamide levels	GCST90200400	3	95172463	G	C	8110	0.07	0.02	0.00	0.00	21.87
rs114328071	Nicotinamide levels	GCST90200400	3	112129254	A	G	8110	-0.26	0.06	0.00	0.00	21.40
rs6798308	Nicotinamide levels	GCST90200400	3	162177521	C	T	8110	-0.07	0.02	0.00	0.00	20.37
rs6835705	Nicotinamide levels	GCST90200400	4	15736747	A	G	8110	0.20	0.04	0.00	0.00	20.82
rs7657217	Nicotinamide levels	GCST90200400	4	168840554	T	C	8110	-0.10	0.02	0.00	0.00	20.93
rs76965804	Nicotinamide levels	GCST90200400	5	111209093	A	C	8110	0.13	0.03	0.00	0.00	21.37
rs6887037	Nicotinamide levels	GCST90200400	5	174792086	A	T	8110	0.08	0.02	0.00	0.00	24.68

rs722585	Nicotinamide levels	GCST90200400	6	1775629	A	G	8110	0.08	0.02	0.00	0.00	22.06
rs9373605	Nicotinamide levels	GCST90200400	6	101211446	A	G	8110	0.12	0.02	0.00	0.00	24.05
rs579090	Nicotinamide levels	GCST90200400	7	54728759	A	T	8110	-0.23	0.05	0.00	0.00	20.42
rs1283687	Nicotinamide levels	GCST90200400	8	107404211	G	A	8110	-0.09	0.02	0.00	0.00	20.18
rs76072284	Nicotinamide levels	GCST90200400	8	124138990	T	C	8110	0.21	0.05	0.00	0.00	20.92
rs72686880	Nicotinamide levels	GCST90200400	9	18390839	C	T	8110	-0.10	0.02	0.00	0.00	21.19
rs11794871	Nicotinamide levels	GCST90200400	15	52739571	C	A	8110	-0.21	0.05	0.00	0.00	20.33
rs56801126	Nicotinamide levels	GCST90200400	16	5499750	T	G	8110	0.11	0.02	0.00	0.00	20.15
rs72795906	Nicotinamide levels	GCST90200400	16	29002728	A	G	8110	0.09	0.02	0.00	0.00	19.99
rs75799357	Nicotinamide levels	GCST90200400	16	50233142	T	G	8110	0.14	0.03	0.00	0.00	20.56
rs4888987	Nicotinamide levels	GCST90200400	16	79485932	C	G	8110	-0.10	0.02	0.00	0.00	20.81
rs14516814	Nicotinamide levels	GCST90200400	19	39367913	T	G	8110	0.41	0.09	0.00	0.00	19.55
rs11759689	Nicotinamide levels	GCST90200400	20	38951012	C	A	8110	-0.29	0.06	0.00	0.00	28.12
rs56234300	Nicotinamide levels	GCST90200400	20	41396613	G	T	8110	0.17	0.04	0.00	0.00	21.09
rs18811719	Myo-inositol levels	GCST90200401	1	13602490	T	C	8193	-0.25	0.06	0.00	0.00	19.59
rs12742160	Myo-inositol levels	GCST90200401	1	167650153	C	A	8193	0.14	0.03	0.00	0.00	19.53
rs72790519	Myo-inositol levels	GCST90200401	2	22579129	A	G	8193	-0.18	0.04	0.00	0.00	20.43
rs56927592	Myo-inositol levels	GCST90200401	2	131557720	T	A	8193	0.17	0.04	0.00	0.00	19.78
rs19239559	Myo-inositol levels	GCST90200401	2	214272892	C	G	8193	0.20	0.04	0.00	0.00	21.87
rs1583110	Myo-inositol levels	GCST90200401	2	217769274	T	C	8193	0.19	0.04	0.00	0.00	23.77
rs493412	Myo-inositol levels	GCST90200401	3	43084913	T	C	8193	-0.08	0.02	0.00	0.00	25.11
rs2336809	Myo-inositol levels	GCST90200401	3	66547508	G	A	8193	0.07	0.02	0.00	0.00	19.96
rs72662211	Myo-inositol levels	GCST90200401	4	108270027	G	T	8193	0.30	0.06	0.00	0.00	24.30
rs11334667	Myo-inositol levels	GCST90200401	4	118774637	A	G	8193	0.15	0.03	0.00	0.00	24.35
rs11409356	Myo-inositol levels	GCST90200401	4	175153711	T	C	8193	-0.22	0.05	0.00	0.00	22.75
rs11497340	Myo-inositol levels	GCST90200401	5	39698963	T	C	8193	-0.31	0.07	0.00	0.00	19.88
rs77831418	Myo-inositol levels	GCST90200401	5	124942246	T	C	8193	-0.07	0.02	0.00	0.00	19.70
rs1862164	Myo-inositol levels	GCST90200401	5	129477834	T	C	8193	0.08	0.02	0.00	0.00	24.14
rs2062327	Myo-inositol levels	GCST90200401	6	65980030	G	C	8193	-0.07	0.02	0.00	0.00	23.06
rs72966660	Myo-inositol levels	GCST90200401	6	123794194	A	C	8193	-0.23	0.05	0.00	0.00	22.51
rs73307290	Myo-inositol levels	GCST90200401	7	16862394	C	G	8193	0.24	0.05	0.00	0.00	20.88
rs491431	Myo-inositol levels	GCST90200401	7	78860917	T	G	8193	0.07	0.02	0.00	0.00	21.24
rs7120279	Myo-inositol levels	GCST90200401	11	95987111	C	T	8193	-0.09	0.02	0.00	0.00	23.01
rs17418967	Myo-inositol levels	GCST90200401	11	112907379	C	T	8193	0.13	0.03	0.00	0.00	21.59
rs78621900	Myo-inositol levels	GCST90200401	11	121902882	T	C	8193	0.22	0.05	0.00	0.00	20.19
rs7294800	Myo-inositol levels	GCST90200401	12	32758404	A	C	8193	-0.11	0.02	0.00	0.00	21.92
rs73184607	Myo-inositol levels	GCST90200401	13	48883524	A	C	8193	0.20	0.05	0.00	0.00	19.62

rs1928936	Myo-inositol levels	GCST90200401	13	109713920	C	T	8193	-0.07	0.02	0.00	0.00	19.66
rs12884050	Myo-inositol levels	GCST90200401	14	43427674	C	T	8193	0.10	0.02	0.00	0.00	20.47
rs111570199	Myo-inositol levels	GCST90200401	14	84604777	T	C	8193	0.20	0.04	0.00	0.00	24.44
rs72770483	Myo-inositol levels	GCST90200401	16	24914993	G	T	8193	-0.19	0.03	0.00	0.00	40.04
rs12944265	Myo-inositol levels	GCST90200401	17	14110817	C	T	8193	-0.07	0.02	0.00	0.00	21.54
rs172032	Myo-inositol levels	GCST90200401	19	18522945	C	T	8193	0.09	0.02	0.00	0.00	31.72
rs7250166	Myo-inositol levels	GCST90200401	19	56995175	C	A	8193	0.08	0.02	0.00	0.00	23.29
rs76486638	Myo-inositol levels	GCST90200401	20	42091339	C	T	8193	-0.34	0.08	0.00	0.00	20.18
rs77612379	Lysine levels	GCST90200402	1	43338997	T	G	8250	0.21	0.05	0.00	0.00	20.06
rs140411476	Lysine levels	GCST90200402	2	21625257	G	A	8250	-0.34	0.08	0.00	0.00	20.30
rs2278484	Lysine levels	GCST90200402	2	24834225	A	G	8250	-0.25	0.06	0.00	0.00	20.91
rs113070516	Lysine levels	GCST90200402	2	48913371	A	G	8250	0.10	0.02	0.00	0.00	22.43
rs75292120	Lysine levels	GCST90200402	2	170449176	A	G	8250	0.22	0.05	0.00	0.00	20.42
rs149378511	Lysine levels	GCST90200402	2	224882972	T	C	8250	0.31	0.07	0.00	0.00	19.55
rs11732574	Lysine levels	GCST90200402	4	5041947	C	T	8250	0.08	0.02	0.00	0.00	21.47
rs114610637	Lysine levels	GCST90200402	4	64880904	A	G	8250	0.27	0.06	0.00	0.00	21.36
rs3796687	Lysine levels	GCST90200402	4	184850380	C	G	8250	0.07	0.02	0.00	0.00	19.81
rs138373837	Lysine levels	GCST90200402	5	36219608	T	C	8250	0.34	0.05	0.00	0.01	46.98
rs348401	Lysine levels	GCST90200402	5	101431723	T	C	8250	0.09	0.02	0.00	0.00	21.57
rs17667423	Lysine levels	GCST90200402	5	169128907	A	G	8250	0.24	0.05	0.00	0.00	19.98
rs12207578	Lysine levels	GCST90200402	6	6904009	A	G	8250	0.09	0.02	0.00	0.00	27.13
rs186956449	Lysine levels	GCST90200402	7	27899522	T	C	8250	-0.73	0.16	0.00	0.00	20.04
rs7812187	Lysine levels	GCST90200402	7	80043798	G	C	8250	0.07	0.02	0.00	0.00	20.07
rs61667237	Lysine levels	GCST90200402	8	26737235	A	C	8250	-0.14	0.03	0.00	0.00	24.37
rs1876717	Lysine levels	GCST90200402	8	49082409	G	T	8250	0.12	0.02	0.00	0.01	64.73
rs149456259	Lysine levels	GCST90200402	8	86816999	T	C	8250	-0.25	0.05	0.00	0.00	21.20
rs4977256	Lysine levels	GCST90200402	9	20464020	G	A	8250	-0.09	0.02	0.00	0.00	25.35
rs7022420	Lysine levels	GCST90200402	9	79657759	G	A	8250	-0.12	0.03	0.00	0.00	19.84
rs1923702	Lysine levels	GCST90200402	10	96355927	G	T	8250	0.11	0.02	0.00	0.00	24.59
rs188129305	Lysine levels	GCST90200402	11	66498094	A	G	8250	-0.27	0.06	0.00	0.00	20.75
rs118146357	Lysine levels	GCST90200402	12	3003360	C	T	8250	0.22	0.05	0.00	0.00	19.78
rs117694712	Lysine levels	GCST90200402	12	14021370	A	G	8250	-0.25	0.05	0.00	0.00	22.85
rs117991925	Lysine levels	GCST90200402	12	119398335	T	C	8250	-0.20	0.05	0.00	0.00	20.10
rs79425973	Lysine levels	GCST90200402	13	70949923	G	T	8250	-0.24	0.05	0.00	0.00	24.63
rs75279310	Lysine levels	GCST90200402	14	100242972	T	C	8250	-0.10	0.02	0.00	0.00	28.24
rs77730322	Lysine levels	GCST90200402	15	59060914	A	G	8250	-0.28	0.06	0.00	0.00	20.23
rs355916	Lysine levels	GCST90200402	16	66697727	A	T	8250	-0.26	0.06	0.00	0.00	20.65
rs9925773	Lysine levels	GCST90200402	16	68278961	G	A	8250	0.17	0.02	0.00	0.01	96.32
rs17766576	Lysine levels	GCST90200402	16	84847871	A	T	8250	-0.08	0.02	0.00	0.00	20.64
rs74699554	Lysine levels	GCST90200402	17	72794137	C	T	8250	-0.20	0.04	0.00	0.00	19.75
rs147711624	Lysine levels	GCST90200402	19	16287505	A	G	8250	0.48	0.10	0.00	0.00	21.96
rs76579512	Lysine levels	GCST90200402	20	52948914	C	T	8250	-0.21	0.05	0.00	0.00	20.54
rs1043066	Lysine levels	GCST90200402	22	24416304	A	G	8250	0.15	0.03	0.00	0.00	22.02
rs60296118	Lysine levels	GCST90200402	22	37024849	T	C	8250	-0.23	0.03	0.00	0.01	47.08
rs461020	Citrulline	GCST90200403	1	30275972	T	C	8157	-0.09	0.02	0.00	0.00	19.52
rs1136046	Citrulline	GCST90200403	1	161958981	A	G	8157	0.12	0.03	0.00	0.00	20.60
rs114731706	Citrulline levels	GCST90200403	2	19412192	T	G	8157	-0.15	0.03	0.00	0.00	20.73
rs57005658	Citrulline	GCST90200403	2	29019673	G	T	8157	0.08	0.02	0.00	0.00	20.58
rs2139162	Citrulline	GCST90200403	2	49789441	C	T	8157	-0.08	0.02	0.00	0.00	19.65
rs75101610	Citrulline	GCST90200403	2	177794563	G	A	8157	0.20	0.04	0.00	0.00	19.88
rs3732055	Citrulline	GCST90200403	2	210469984	C	A	8157	0.10	0.02	0.00	0.01	41.62
rs111632417	Citrulline levels	GCST90200403	3	51921699	G	A	8157	-0.13	0.03	0.00	0.00	19.57

rs525773	Citrulline	GCST90200403	3	136217611	A	G	8157	0.07	0.02	0.00	0.00	23.76
rs13091836	Citrulline	GCST90200403	3	193888738	C	A	8157	0.09	0.02	0.00	0.00	26.43
rs14636774	Citrulline	GCST90200403	4	59470831	C	T	8157	-0.25	0.05	0.00	0.00	23.49
1	levels											
rs72682470	Citrulline	GCST90200403	4	130638951	C	T	8157	-0.29	0.06	0.00	0.00	20.66
rs1343680	Citrulline	GCST90200403	5	30838380	A	G	8157	-0.17	0.04	0.00	0.00	23.01
rs56209527	Citrulline	GCST90200403	5	75035868	C	T	8157	-0.23	0.05	0.00	0.00	20.37
rs12697771	Citrulline	GCST90200403	5	87033523	T	A	8157	0.08	0.02	0.00	0.00	19.68
rs34286635	Citrulline	GCST90200403	6	148249266	G	A	8157	0.08	0.02	0.00	0.00	19.63
rs17141042	Citrulline	GCST90200403	7	19282786	G	A	8157	0.37	0.08	0.00	0.00	22.66
rs18513896	Citrulline											
3	levels	GCST90200403	7	40350338	A	G	8157	-0.30	0.06	0.00	0.00	21.84
rs7800331	Citrulline	GCST90200403	7	155144686	T	C	8157	-0.08	0.02	0.00	0.00	21.42
rs14526096	Citrulline	GCST90200403	9	27352813	A	G	8157	0.30	0.06	0.00	0.00	23.29
6	levels											
rs1746787	Citrulline	GCST90200403	9	92370408	G	A	8157	0.21	0.05	0.00	0.00	20.99
rs11244231	Citrulline	GCST90200403	9	130412180	T	C	8157	0.08	0.02	0.00	0.00	25.79
rs10901047	Citrulline	GCST90200403	9	130448288	C	T	8157	0.11	0.02	0.00	0.01	43.78
rs76528032	Citrulline	GCST90200403	10	107246618	C	T	8157	-0.49	0.11	0.00	0.00	19.58
rs61916052	Citrulline	GCST90200403	11	101532593	A	G	8157	-0.24	0.05	0.00	0.00	22.64
rs14517707	Citrulline											
6	levels	GCST90200403	12	124063558	T	C	8157	0.27	0.06	0.00	0.00	21.75
rs14899451	Citrulline											
3	levels	GCST90200403	14	25631373	G	A	8157	0.40	0.09	0.00	0.00	21.99
rs11869990	Citrulline	GCST90200403	17	73490164	G	C	8157	-0.46	0.10	0.00	0.00	23.13
rs18149160	Citrulline	GCST90200403	18	4197092	C	G	8157	0.38	0.08	0.00	0.00	20.76
9	levels											
rs34735724	Citrulline	GCST90200403	19	54795755	T	C	8157	0.11	0.02	0.00	0.00	20.83
rs6092172	Citrulline	GCST90200403	20	55769922	T	G	8157	-0.10	0.02	0.00	0.00	19.65
rs6662527	Ornithine	GCST90200404	1	7069328	T	C	8255	0.08	0.02	0.00	0.00	21.76
rs2803283	Ornithine	GCST90200404	1	48476668	T	C	8255	0.25	0.05	0.00	0.00	24.31
rs11591384	Ornithine	GCST90200404	2	191276326	G	A	8255	-0.24	0.05	0.00	0.00	20.39
3	levels											
rs62182127	Ornithine	GCST90200404	2	218414865	A	G	8255	0.07	0.02	0.00	0.00	21.73
rs14879670	Ornithine	GCST90200404	3	50037870	A	G	8255	0.30	0.06	0.00	0.00	21.45
5	levels											
rs17363144	Ornithine	GCST90200404	3	59860613	G	A	8255	0.28	0.06	0.00	0.00	22.90
rs56297003	Ornithine	GCST90200404	4	25792485	C	A	8255	-0.08	0.02	0.00	0.00	27.93
rs76318499	Ornithine	GCST90200404	4	157949285	C	G	8255	0.17	0.04	0.00	0.00	20.10
rs1718792	Ornithine	GCST90200404	4	170297757	G	A	8255	0.08	0.02	0.00	0.00	23.42
rs18335601	Ornithine	GCST90200404	5	137302422	T	A	8255	0.34	0.07	0.00	0.00	21.08
5	levels											
rs6596988	Ornithine	GCST90200404	6	3627375	C	T	8255	-0.08	0.02	0.00	0.00	24.09
rs17788484	Ornithine	GCST90200404	6	131573218	T	C	8255	0.44	0.06	0.00	0.01	62.12
rs11752646	Ornithine	GCST90200404	8	35127482	C	T	8255	0.14	0.03	0.00	0.00	19.63
6	levels											
rs35462242	Ornithine	GCST90200404	9	33527447	A	G	8255	-0.09	0.02	0.00	0.00	23.17
rs15067639	Ornithine	GCST90200404	9	92331211	T	C	8255	-0.43	0.09	0.00	0.00	22.24
4	levels											
rs28421011	Ornithine	GCST90200404	9	110285347	A	G	8255	-0.09	0.02	0.00	0.00	28.54
rs66603704	Ornithine	GCST90200404	10	95940127	T	C	8255	-0.09	0.02	0.00	0.00	20.44
rs11244629	Ornithine	GCST90200404	10	124382239	G	A	8255	-0.08	0.02	0.00	0.00	20.30
rs10901612	Ornithine	GCST90200404	10	126456530	T	C	8255	0.07	0.02	0.00	0.00	21.22
rs74934378	Ornithine	GCST90200404	12	76819069	A	G	8255	-0.13	0.03	0.00	0.00	19.96
rs2014374	Ornithine	GCST90200404	12	120937082	C	A	8255	0.07	0.02	0.00	0.00	19.64
rs7986321	Ornithine	GCST90200404	13	99123478	A	G	8255	-0.08	0.02	0.00	0.00	19.77
rs18273232	Ornithine											
6	levels	GCST90200404	14	43780141	A	G	8255	-0.33	0.08	0.00	0.00	19.72
rs14213395	Ornithine											
0	levels	GCST90200404	15	33264451	T	C	8255	-0.45	0.09	0.00	0.00	22.86
rs19267576	Ornithine	GCST90200404	15	74744708	T	C	8255	-0.33	0.07	0.00	0.00	20.09
5	levels											
rs75699923	Ornithine	GCST90200404	18	35024080	G	A	8255	-0.30	0.06	0.00	0.00	22.83
rs11085824	Ornithine	GCST90200404	19	12890733	G	A	8255	0.07	0.02	0.00	0.00	20.72
rs19280911	Ornithine	GCST90200404	20	997019	A	G	8255	0.54	0.12	0.00	0.00	20.62
1	levels											
rs338919	(Vitamin A) Retinol	GCST90200405	1	58399727	A	G	8247	0.07	0.02	0.00	0.00	19.85
	levels											
rs10802946	(Vitamin A) Retinol	GCST90200405	1	241288195	T	C	8247	0.07	0.02	0.00	0.00	22.47
	levels											

rs4665985	Retinol (Vitamin A) levels	GCST90200405	2	27531011	C	A	8247	0.08	0.02	0.00	0.00	21.70
rs11528604 6	Retinol (Vitamin A) levels	GCST90200405	2	240653364	A	G	8247	-0.23	0.05	0.00	0.00	20.31
rs11710347	Retinol (Vitamin A) levels	GCST90200405	3	9277277	G	T	8247	0.45	0.10	0.00	0.00	20.56
rs4678438	Retinol (Vitamin A) levels	GCST90200405	3	136626078	C	A	8247	-0.09	0.02	0.00	0.00	28.84
rs9869809	Retinol (Vitamin A) levels	GCST90200405	3	175103749	T	A	8247	-0.07	0.02	0.00	0.00	19.84
rs6831628	Retinol (Vitamin A) levels	GCST90200405	4	37695410	G	A	8247	0.10	0.02	0.00	0.00	21.79
rs56655759	Retinol (Vitamin A) levels	GCST90200405	4	188555557	C	G	8247	-0.08	0.02	0.00	0.00	20.38
rs72822335	Retinol (Vitamin A) levels	GCST90200405	6	9471662	C	A	8247	-0.26	0.06	0.00	0.00	20.35
rs14118496 4	Retinol (Vitamin A) levels	GCST90200405	6	38373520	A	G	8247	0.37	0.08	0.00	0.00	20.20
rs79548267	Retinol (Vitamin A) levels	GCST90200405	6	38504210	T	C	8247	0.33	0.07	0.00	0.00	19.95
rs37178922 9	Retinol (Vitamin A) levels	GCST90200405	6	58266648	T	C	8247	0.28	0.06	0.00	0.00	20.52
rs72946289	Retinol (Vitamin A) levels	GCST90200405	6	112044763	A	G	8247	-0.09	0.02	0.00	0.00	19.66
rs9485279	Retinol (Vitamin A) levels	GCST90200405	6	148324927	A	G	8247	-0.14	0.03	0.00	0.00	19.84
rs14153762 6	Retinol (Vitamin A) levels	GCST90200405	7	291461	A	C	8247	0.07	0.02	0.00	0.00	20.08
rs9406638	Retinol (Vitamin A) levels	GCST90200405	9	16388163	T	A	8247	-0.07	0.02	0.00	0.00	20.31
rs3780804	Retinol (Vitamin A) levels	GCST90200405	9	133733006	G	T	8247	-0.09	0.02	0.00	0.00	19.92
rs3752802	Retinol (Vitamin A) levels	GCST90200405	10	3144115	A	G	8247	0.08	0.02	0.00	0.00	23.31
rs2505415	Retinol (Vitamin A) levels	GCST90200405	10	32310784	C	G	8247	0.08	0.02	0.00	0.00	23.10
rs14443471 1	Retinol (Vitamin A) levels	GCST90200405	10	88144941	C	G	8247	0.23	0.05	0.00	0.00	23.11
rs11187539	Retinol (Vitamin A) levels	GCST90200405	10	93587181	A	G	8247	-0.08	0.02	0.00	0.00	24.28
rs11604481	Retinol (Vitamin A) levels	GCST90200405	11	6542335	C	A	8247	-0.08	0.02	0.00	0.00	21.22
rs14985617 0	Retinol (Vitamin A) levels	GCST90200405	11	127610772	C	T	8247	-0.36	0.08	0.00	0.00	20.53
rs1795977	Retinol (Vitamin A) levels	GCST90200405	12	78493920	C	G	8247	-0.13	0.03	0.00	0.00	21.06
rs9301447	Retinol (Vitamin A) levels	GCST90200405	13	110351771	G	A	8247	-0.09	0.02	0.00	0.00	20.06

rs115971394	Retinol (Vitamin A) levels	GCST90200405	14	28134480	T	C	8247	0.28	0.06	0.00	0.00	22.80
rs11624628	Retinol (Vitamin A) levels	GCST90200405	14	74603354	T	C	8247	-0.27	0.06	0.00	0.00	21.20
rs111840312	Retinol (Vitamin A) levels	GCST90200405	17	527226	G	C	8247	-0.12	0.03	0.00	0.00	20.07
rs1667226	Retinol (Vitamin A) levels	GCST90200405	18	31560497	T	A	8247	0.10	0.02	0.00	0.01	42.90
rs1883711	Retinol (Vitamin A) levels	GCST90200405	20	40551182	C	G	8247	-0.28	0.05	0.00	0.00	37.37
rs2500252	1-methylnicotina mide levels	GCST90200406	1	3244789	T	C	8194	-0.13	0.03	0.00	0.00	21.10
rs141157490	1-methylnicotina mide levels	GCST90200406	1	11951811	T	C	8194	-0.34	0.08	0.00	0.00	20.98
rs2791140	1-methylnicotina mide levels	GCST90200406	1	163501815	T	C	8194	-0.07	0.02	0.00	0.00	20.64
rs59621444	1-methylnicotina mide levels	GCST90200406	2	134978078	C	T	8194	-0.09	0.02	0.00	0.00	22.64
rs62192878	1-methylnicotina mide levels	GCST90200406	2	233175104	C	G	8194	-0.10	0.02	0.00	0.00	20.94
rs1376020	1-methylnicotina mide levels	GCST90200406	3	35235834	G	T	8194	-0.10	0.02	0.00	0.00	21.84
rs116429233	1-methylnicotina mide levels	GCST90200406	3	86183884	A	G	8194	0.17	0.04	0.00	0.00	20.31
rs34130495	1-methylnicotina mide levels	GCST90200406	6	160139792	A	G	8194	0.22	0.05	0.00	0.00	21.54
rs3798167	1-methylnicotina mide levels	GCST90200406	6	160146896	T	G	8194	-0.11	0.02	0.00	0.00	35.35
rs75971087	1-methylnicotina mide levels	GCST90200406	7	81802855	C	T	8194	0.21	0.04	0.00	0.00	25.06
rs11785956	1-methylnicotina mide levels	GCST90200406	8	97110274	C	T	8194	-0.08	0.02	0.00	0.00	24.13
rs10961107	1-methylnicotina mide levels	GCST90200406	9	13522926	T	C	8194	0.18	0.04	0.00	0.00	23.82
rs776747	1-methylnicotina mide levels	GCST90200406	9	18643056	C	A	8194	0.13	0.03	0.00	0.00	19.65
rs74362332	1-methylnicotina mide levels	GCST90200406	11	110684234	C	A	8194	0.13	0.03	0.00	0.00	22.99
rs117614371	1-methylnicotina mide levels	GCST90200406	14	28081633	T	C	8194	-0.25	0.05	0.00	0.00	20.47
rs146761778	1-methylnicotina mide levels	GCST90200406	14	45882589	T	C	8194	0.23	0.05	0.00	0.00	22.17
rs77335083	1-methylnicotina mide levels	GCST90200406	15	95103394	T	G	8194	0.32	0.07	0.00	0.00	22.08
rs117127895	1-methylnicotina mide levels	GCST90200406	17	27932234	T	C	8194	-0.13	0.03	0.00	0.00	22.67
rs7508957	1-methylnicotina mide levels	GCST90200406	20	649182	C	T	8194	0.10	0.02	0.00	0.00	22.61
rs66731853	Uridine levels	GCST90200407	1	20589745	A	G	8253	-0.15	0.02	0.00	0.01	79.66
rs12061503	Uridine levels	GCST90200407	1	101377698	G	A	8253	-0.10	0.02	0.00	0.00	20.14

rs140908005	Uridine levels	GCST90200407	1	103378316	G	C	8253	0.22	0.05	0.00	0.00	19.81
rs12135008	Uridine levels	GCST90200407	1	154411817	A	G	8253	0.19	0.04	0.00	0.00	19.86
rs80107677	Uridine levels	GCST90200407	1	196412220	T	A	8253	0.24	0.05	0.00	0.00	19.54
rs11572381	Uridine levels	GCST90200407	1	217090949	T	C	8253	0.08	0.02	0.00	0.00	22.29
rs148953003	Uridine levels	GCST90200407	2	32117274	G	A	8253	-0.32	0.07	0.00	0.00	19.70
rs74527714	Uridine levels	GCST90200407	2	164131009	G	A	8253	0.32	0.07	0.00	0.00	19.75
rs116573100	Uridine levels	GCST90200407	2	228636771	A	G	8253	0.20	0.04	0.00	0.00	26.49
rs62233031	Uridine levels	GCST90200407	3	13651811	A	T	8253	-0.07	0.02	0.00	0.00	20.73
rs140057306	Uridine levels	GCST90200407	3	150317819	A	G	8253	-0.29	0.06	0.00	0.00	20.90
rs144081959	Uridine levels	GCST90200407	4	136403913	A	G	8253	0.22	0.05	0.00	0.00	21.02
rs10278152	Uridine levels	GCST90200407	7	48089060	A	T	8253	-0.10	0.02	0.00	0.00	39.46
rs117013665	Uridine levels	GCST90200407	7	115011261	A	G	8253	-0.19	0.04	0.00	0.00	20.68
rs114536678	Uridine levels	GCST90200407	10	66986496	C	T	8253	-0.07	0.02	0.00	0.00	20.19
rs190248136	Uridine levels	GCST90200407	10	96380475	A	G	8253	-0.43	0.08	0.00	0.00	25.61
rs3217936	Uridine levels	GCST90200407	12	4305786	C	G	8253	0.07	0.02	0.00	0.00	19.76
rs12423022	Uridine levels	GCST90200407	12	20479988	G	A	8253	0.08	0.02	0.00	0.00	19.64
rs187411275	Uridine levels	GCST90200407	17	21481662	G	A	8253	-0.25	0.06	0.00	0.00	19.96
rs4132069	Uridine levels	GCST90200407	19	8941822	T	C	8253	-0.09	0.02	0.00	0.00	19.77
rs112239224	Uridine levels	GCST90200407	20	49010681	C	G	8253	0.20	0.04	0.00	0.00	24.34
rs131805	Uridine levels	GCST90200407	22	50525724	C	T	8253	-0.15	0.02	0.00	0.01	68.65
rs78681939	Plasma lactate levels	GCST90200408	1	66129347	G	A	8217	-0.14	0.03	0.00	0.00	22.16
rs76969758	Plasma lactate levels	GCST90200408	1	92125215	A	G	8217	0.21	0.05	0.00	0.00	21.52
rs55965158	Plasma lactate levels	GCST90200408	3	175288773	T	C	8217	-0.11	0.02	0.00	0.00	20.03
rs9841356	Plasma lactate levels	GCST90200408	3	184049175	G	A	8217	-0.10	0.02	0.00	0.00	21.21
rs78654087	Plasma lactate levels	GCST90200408	4	54672360	C	T	8217	0.14	0.03	0.00	0.00	23.78
rs111716847	Plasma lactate levels	GCST90200408	4	65664915	T	C	8217	0.33	0.06	0.00	0.00	27.37
rs2314095	Plasma lactate levels	GCST90200408	4	161452641	T	G	8217	-0.14	0.03	0.00	0.00	20.29
rs145905740	Plasma lactate levels	GCST90200408	5	98601046	C	T	8217	0.41	0.08	0.00	0.00	25.46
rs35352527	Plasma lactate levels	GCST90200408	5	101046869	A	G	8217	-0.15	0.03	0.00	0.00	20.83
rs80224139	Plasma lactate levels	GCST90200408	5	119483686	G	A	8217	-0.26	0.06	0.00	0.00	20.64
rs72848557	Plasma lactate levels	GCST90200408	6	36297915	A	G	8217	0.19	0.04	0.00	0.00	21.05
rs186237001	Plasma lactate levels	GCST90200408	6	44469447	G	A	8217	0.48	0.11	0.00	0.00	20.12
rs9347881	Plasma lactate levels	GCST90200408	6	164613342	A	G	8217	0.07	0.02	0.00	0.00	19.62
rs11258502	Plasma lactate levels	GCST90200408	10	13657698	G	A	8217	0.22	0.05	0.00	0.00	20.24
rs72845741	Plasma lactate levels	GCST90200408	11	2336664	C	T	8217	0.14	0.03	0.00	0.00	19.56
rs190872624	Plasma lactate levels	GCST90200408	12	96284242	A	G	8217	0.31	0.07	0.00	0.00	19.61
rs7968964	Plasma lactate levels	GCST90200408	12	126783989	T	C	8217	0.09	0.02	0.00	0.00	25.48
rs189996033	Plasma lactate levels	GCST90200408	17	56092495	T	C	8217	0.39	0.08	0.00	0.00	25.96
rs192517272	Plasma lactate levels	GCST90200408	20	1118444	A	C	8217	0.34	0.08	0.00	0.00	20.28
rs115863668	Pristanate levels	GCST90200409	3	80662999	A	C	6497	-0.34	0.07	0.00	0.00	26.74
rs9880812	Pristanate levels	GCST90200409	3	152868626	A	G	6497	0.08	0.02	0.00	0.00	19.75
rs2062229	Pristanate levels	GCST90200409	4	39285146	T	G	6497	-0.08	0.02	0.00	0.00	21.35

rs10520445	Pristanate levels	GCST90200409	4	180355149	C	T	6497	0.10	0.02	0.00	0.00	21.74
rs143751600	Pristanate levels	GCST90200409	7	80342379	G	A	6497	-0.39	0.09	0.00	0.00	20.03
rs147180344	Pristanate levels	GCST90200409	9	8985804	G	A	6497	-0.40	0.09	0.00	0.00	19.96
rs10969105	Pristanate levels	GCST90200409	9	29361769	C	G	6497	0.09	0.02	0.00	0.00	19.76
rs79708704	Pristanate levels	GCST90200409	10	122059412	T	G	6497	-0.14	0.03	0.00	0.00	25.16
rs4590906	Pristanate levels	GCST90200409	11	5376603	G	A	6497	-0.08	0.02	0.00	0.00	20.03
rs11061881	Pristanate levels	GCST90200409	12	1630670	C	G	6497	-0.29	0.06	0.00	0.00	21.31
rs7143692	Pristanate levels	GCST90200409	14	77232936	G	A	6497	0.10	0.02	0.00	0.00	22.35
rs112488805	Pristanate levels	GCST90200409	19	56892637	A	G	6497	-0.34	0.07	0.00	0.00	20.67
rs79033469	Pristanate levels	GCST90200409	20	32365713	G	C	6497	-0.37	0.08	0.00	0.00	19.52
rs12627468	Pristanate levels	GCST90200409	21	28054491	A	C	6497	0.08	0.02	0.00	0.00	20.48
rs77499448	Phytanate levels	GCST90200410	1	49002074	C	T	8223	0.23	0.05	0.00	0.00	22.49
rs12151812	Phytanate levels	GCST90200410	2	210771323	C	T	8223	0.08	0.02	0.00	0.00	19.84
rs191953342	Phytanate levels	GCST90200410	4	24398188	A	G	8223	0.41	0.08	0.00	0.00	25.27
rs185014085	Phytanate levels	GCST90200410	4	95109834	A	G	8223	-0.23	0.05	0.00	0.00	19.70
rs116432761	Phytanate levels	GCST90200410	4	164475022	C	T	8223	0.25	0.05	0.00	0.00	21.51
rs184055872	Phytanate levels	GCST90200410	5	44062443	G	T	8223	0.26	0.05	0.00	0.00	23.16
rs16899885	Phytanate levels	GCST90200410	5	82743655	C	T	8223	0.36	0.07	0.00	0.00	25.33
rs236226	Phytanate levels	GCST90200410	6	78406208	A	G	8223	0.11	0.02	0.00	0.00	19.57
rs143751600	Phytanate levels	GCST90200410	7	80342379	G	A	8223	-0.36	0.07	0.00	0.00	23.70
rs13249767	Phytanate levels	GCST90200410	8	455688	G	C	8223	0.10	0.02	0.00	0.00	19.72
rs16905254	Phytanate levels	GCST90200410	8	134829721	G	A	8223	-0.11	0.03	0.00	0.00	19.71
rs10975083	Phytanate levels	GCST90200410	9	5377177	G	A	8223	-0.08	0.02	0.00	0.00	20.51
rs150572890	Phytanate levels	GCST90200410	10	52243686	T	C	8223	0.22	0.04	0.00	0.00	24.28
rs2601669	Phytanate levels	GCST90200410	11	97536844	A	G	8223	0.08	0.02	0.00	0.00	24.62
rs80045490	Phytanate levels	GCST90200410	12	77749852	A	T	8223	-0.23	0.05	0.00	0.00	25.28
rs57821801	Phytanate levels	GCST90200410	14	77975077	G	A	8223	0.08	0.02	0.00	0.00	26.66
rs7164165	Phytanate levels	GCST90200410	15	71492197	T	G	8223	0.10	0.02	0.00	0.00	19.74
rs76968452	Phytanate levels	GCST90200410	15	93110932	G	A	8223	-0.36	0.08	0.00	0.00	22.20
rs78909870	Phytanate levels	GCST90200410	16	14199669	G	A	8223	-0.29	0.06	0.00	0.00	22.46
rs144000101	Phytanate levels	GCST90200410	19	46179463	A	G	8223	-0.45	0.09	0.00	0.00	22.05
rs73136250	Phytanate levels	GCST90200410	20	53734835	G	T	8223	0.13	0.03	0.00	0.00	20.75
rs2075445	Phytanate levels	GCST90200410	22	17884055	T	C	8223	0.12	0.03	0.00	0.00	19.88
rs17258815	Plasma free proline levels	GCST90200411	1	207182117	A	G	8257	0.08	0.02	0.00	0.00	24.38
rs77306138	Plasma free proline levels	GCST90200411	2	115073680	C	G	8257	-0.32	0.07	0.00	0.00	21.11
rs2953039	Plasma free proline levels	GCST90200411	3	106501969	C	T	8257	0.07	0.02	0.00	0.00	20.13
rs55754236	Plasma free proline levels	GCST90200411	4	5467508	C	T	8257	0.21	0.04	0.00	0.00	24.98

rs78891787	Plasma free proline levels	GCST90200411	4	37873491	A	G	8257	-0.11	0.02	0.00	0.00	20.73
rs11957497	Plasma free proline levels	GCST90200411	5	61783995	T	C	8257	0.15	0.03	0.00	0.00	21.50
rs4958949	Plasma free proline levels	GCST90200411	5	177973703	G	A	8257	-0.08	0.02	0.00	0.00	19.64
rs77826363	Plasma free proline levels	GCST90200411	6	1128802	T	G	8257	0.21	0.04	0.00	0.00	21.90
rs115084361	Plasma free proline levels	GCST90200411	6	10963782	A	G	8257	0.25	0.05	0.00	0.00	22.36
rs55638918	Plasma free proline levels	GCST90200411	7	53977550	C	T	8257	0.18	0.04	0.00	0.00	22.46
rs139815576	Plasma free proline levels	GCST90200411	7	94013562	G	A	8257	-0.32	0.07	0.00	0.00	21.21
rs143292073	Plasma free proline levels	GCST90200411	8	22030339	G	A	8257	-0.14	0.03	0.00	0.00	19.56
rs11135715	Plasma free proline levels	GCST90200411	8	23255733	G	A	8257	-0.08	0.02	0.00	0.00	21.62
rs7830312	Plasma free proline levels	GCST90200411	8	126011637	G	A	8257	-0.22	0.05	0.00	0.00	21.85
rs4469435	Plasma free proline levels	GCST90200411	8	140271800	G	A	8257	-0.08	0.02	0.00	0.00	20.06
rs117340747	Plasma free proline levels	GCST90200411	9	3582799	G	C	8257	-0.21	0.05	0.00	0.00	20.03
rs61858978	Plasma free proline levels	GCST90200411	10	80052460	A	G	8257	0.33	0.07	0.00	0.00	21.72
rs72853108	Plasma free proline levels	GCST90200411	10	129031589	T	C	8257	0.17	0.04	0.00	0.00	20.53
rs142292830	Plasma free proline levels	GCST90200411	11	58677663	G	A	8257	-0.22	0.04	0.00	0.00	25.24
rs72937102	Plasma free proline levels	GCST90200411	11	80107742	C	T	8257	-0.32	0.07	0.00	0.00	19.79
rs11601073	Plasma free proline levels	GCST90200411	11	117906032	T	C	8257	-0.07	0.02	0.00	0.00	23.03
rs7133203	Plasma free proline levels	GCST90200411	12	48489882	T	C	8257	0.17	0.04	0.00	0.00	20.14
rs7306237	Plasma free proline levels	GCST90200411	12	108624660	C	A	8257	0.28	0.06	0.00	0.00	20.21
rs75857744	Plasma free proline levels	GCST90200411	14	94742187	C	T	8257	-0.18	0.04	0.00	0.00	19.92
rs12440185	Plasma free proline levels	GCST90200411	15	60795903	T	C	8257	0.21	0.04	0.00	0.00	28.50
rs4492997	Plasma free proline levels	GCST90200411	15	94033180	A	G	8257	0.11	0.02	0.00	0.00	19.96
rs185864528	Plasma free proline levels	GCST90200411	16	63509784	C	T	8257	0.20	0.04	0.00	0.00	20.93
rs116965831	Plasma free proline levels	GCST90200411	16	81316749	G	A	8257	0.24	0.05	0.00	0.00	21.06
rs183972392	Plasma free proline levels	GCST90200411	17	47397542	A	G	8257	-0.18	0.04	0.00	0.00	23.82
rs118098270	Plasma free proline levels	GCST90200411	17	72374071	A	G	8257	-0.23	0.05	0.00	0.00	22.67
rs7239591	Plasma free proline levels	GCST90200411	18	43581557	T	G	8257	-0.15	0.03	0.00	0.00	20.25
rs76531193	Plasma free proline levels	GCST90200411	19	47857434	A	T	8257	-0.09	0.02	0.00	0.00	21.35
rs2540640	Plasma free proline levels	GCST90200411	22	18972067	C	G	8257	0.47	0.03	0.00	0.04	339.07
rs13433658	Plasma free proline levels	GCST90200411	22	19028734	G	C	8257	-0.11	0.02	0.00	0.00	32.23
rs3790569	Glutamate levels	GCST90200412	1	67371177	C	T	8287	0.08	0.02	0.00	0.00	20.07
rs59243420	Glutamate levels	GCST90200412	2	135826968	T	A	8287	-0.10	0.02	0.00	0.00	26.73
rs28672701	Glutamate levels	GCST90200412	4	40675054	A	G	8287	-0.07	0.01	0.00	0.00	22.67
rs7682527	Glutamate levels	GCST90200412	4	170969252	T	A	8287	-0.14	0.03	0.00	0.00	20.25
rs62354638	Glutamate levels	GCST90200412	5	36638487	A	G	8287	-0.27	0.04	0.00	0.01	41.81
rs38156	Glutamate levels	GCST90200412	7	20004405	T	C	8287	0.24	0.05	0.00	0.00	20.02
rs112520895	Glutamate levels	GCST90200412	7	21367197	A	G	8287	0.29	0.06	0.00	0.00	22.26

rs10101003	Glutamate levels	GCST90200412	8	15362997	C	T	8287	-0.11	0.02	0.00	0.00	20.78
rs28587335	Glutamate levels	GCST90200412	8	28607929	G	C	8287	0.09	0.02	0.00	0.00	21.85
rs150956299	Glutamate levels	GCST90200412	9	18308726	C	G	8287	0.10	0.02	0.00	0.00	20.10
rs758587	Glutamate levels	GCST90200412	10	114007537	A	T	8287	-0.07	0.02	0.00	0.00	21.81
rs7324476	Glutamate levels	GCST90200412	13	22600091	C	T	8287	-0.09	0.02	0.00	0.00	22.73
rs118058334	Glutamate levels	GCST90200412	13	50382197	C	T	8287	0.28	0.06	0.00	0.00	19.61
rs1118898	Glutamate levels	GCST90200412	13	86339121	C	T	8287	-0.14	0.03	0.00	0.00	21.26
rs2476320	Glutamate levels	GCST90200412	13	113097027	A	G	8287	0.09	0.02	0.00	0.00	21.39
rs7149583	Glutamate levels	GCST90200412	14	70512526	A	G	8287	0.19	0.04	0.00	0.00	21.85
rs6498990	Glutamate levels	GCST90200412	16	52641140	G	A	8287	-0.10	0.02	0.00	0.00	26.19
rs16961756	Glutamate levels	GCST90200412	17	17456305	G	A	8287	-0.13	0.03	0.00	0.00	24.96
rs146748702	Glutamate levels	GCST90200412	17	46766285	G	A	8287	0.25	0.06	0.00	0.00	20.58
rs62129186	Glutamate levels	GCST90200412	19	49807518	T	C	8287	-0.09	0.02	0.00	0.00	19.73
rs78350689	Glutamate levels	GCST90200412	20	18599724	C	T	8287	0.12	0.03	0.00	0.00	19.86
rs135586	Glutamate levels	GCST90200412	22	47602335	G	T	8287	-0.07	0.01	0.00	0.00	24.04
rs115115143	2'-deoxyuridine	GCST90200413	1	3837148	C	A	7915	-0.27	0.06	0.00	0.00	22.71
rs66731853	2'-deoxyuridine	GCST90200413	1	20589745	A	G	7915	-0.11	0.02	0.00	0.01	42.62
rs882478	2'-deoxyuridine	GCST90200413	1	208525700	C	T	7915	-0.13	0.03	0.00	0.00	20.37
rs374161528	2'-deoxyuridine	GCST90200413	2	73620192	A	G	7915	-0.28	0.06	0.00	0.00	19.65
rs13010450	2'-deoxyuridine	GCST90200413	2	109685950	A	G	7915	-0.08	0.02	0.00	0.00	19.88
rs2541999	2'-deoxyuridine	GCST90200413	2	228898257	T	A	7915	0.07	0.02	0.00	0.00	20.07
rs13094935	2'-deoxyuridine	GCST90200413	3	73909566	C	T	7915	-0.16	0.03	0.00	0.00	25.17
rs62299448	2'-deoxyuridine	GCST90200413	4	54342308	T	C	7915	0.07	0.02	0.00	0.00	21.71
rs61386854	2'-deoxyuridine	GCST90200413	4	60442186	C	T	7915	0.15	0.03	0.00	0.00	22.66
rs6845129	2'-deoxyuridine	GCST90200413	4	70868634	T	C	7915	0.27	0.06	0.00	0.00	23.17
rs72818832	2'-deoxyuridine	GCST90200413	5	144059981	T	C	7915	-0.27	0.06	0.00	0.00	19.91
rs4868153	2'-deoxyuridine	GCST90200413	5	172258224	T	C	7915	-0.10	0.02	0.00	0.00	21.59
rs7751693	2'-deoxyuridine	GCST90200413	6	35727497	A	G	7915	0.23	0.04	0.00	0.00	32.62
rs17296353	2'-deoxyuridine	GCST90200413	8	58894377	G	A	7915	0.08	0.02	0.00	0.00	20.10
rs390993	2'-deoxyuridine	GCST90200413	8	89760982	A	G	7915	-0.09	0.02	0.00	0.00	25.48
rs10466271	2'-deoxyuridine	GCST90200413	10	6760140	C	G	7915	-0.09	0.02	0.00	0.00	20.85
rs11065979	2'-deoxyuridine	GCST90200413	12	111621753	T	C	7915	-0.08	0.02	0.00	0.00	25.87
rs73177369	2'-deoxyuridine	GCST90200413	13	44039247	G	A	7915	0.09	0.02	0.00	0.00	20.30
rs1410803	2'-deoxyuridine	GCST90200413	13	109170205	A	T	7915	0.13	0.03	0.00	0.00	19.82
rs4792607	2'-deoxyuridine	GCST90200413	17	15422269	G	C	7915	0.12	0.02	0.00	0.00	23.16
rs117028303	2'-deoxyuridine	GCST90200413	18	10398598	A	G	7915	0.24	0.05	0.00	0.00	22.76
rs62102790	2'-deoxyuridine	GCST90200413	18	73653886	T	C	7915	-0.14	0.03	0.00	0.00	22.52

rs131805	2'- deoxyuridine	GCST90200413	22	50525724	C	T	7915	-0.32	0.02	0.00	0.04	306.39
rs9616789	2'- deoxyuridine	GCST90200413	22	50540075	A	G	7915	-0.17	0.03	0.00	0.00	29.64
rs1971863	Myristate (14:0) levels	GCST90200414	1	159669141	C	T	8282	-0.08	0.02	0.00	0.00	21.17
rs4657374	Myristate (14:0) levels	GCST90200414	1	164791381	T	A	8282	0.08	0.02	0.00	0.00	22.77
rs10864859	Myristate (14:0) levels	GCST90200414	2	120682642	T	G	8282	-0.12	0.03	0.00	0.00	20.15
rs11292485 8	Myristate (14:0) levels	GCST90200414	2	160066501	T	C	8282	-0.25	0.06	0.00	0.00	19.90
rs12479292	Myristate (14:0) levels	GCST90200414	2	168505032	T	C	8282	0.07	0.01	0.00	0.00	19.57
rs12497825	Myristate (14:0) levels	GCST90200414	3	47628057	T	A	8282	-0.07	0.02	0.00	0.00	20.90
rs1447739	Myristate (14:0) levels	GCST90200414	3	143696869	T	C	8282	-0.16	0.04	0.00	0.00	19.87
rs62410027	Myristate (14:0) levels	GCST90200414	4	41196032	A	G	8282	-0.11	0.02	0.00	0.00	20.77
rs62316458	Myristate (14:0) levels	GCST90200414	4	87862419	A	T	8282	-0.08	0.02	0.00	0.00	21.00
rs74359901	Myristate (14:0) levels	GCST90200414	4	163033822	T	A	8282	0.16	0.04	0.00	0.00	20.63
rs6870663	Myristate (14:0) levels	GCST90200414	5	172823258	A	G	8282	0.08	0.02	0.00	0.00	23.55
rs72955114	Myristate (14:0) levels	GCST90200414	6	74043534	T	C	8282	-0.13	0.03	0.00	0.00	21.31
rs78325276	Myristate (14:0) levels	GCST90200414	6	80520159	C	T	8282	-0.11	0.02	0.00	0.00	21.20
rs1349890	Myristate (14:0) levels	GCST90200414	6	156385615	C	T	8282	-0.07	0.01	0.00	0.00	19.88
rs2588210	Myristate (14:0) levels	GCST90200414	8	17505579	A	G	8282	-0.19	0.04	0.00	0.00	19.53
rs79507970	Myristate (14:0) levels	GCST90200414	12	24993537	C	G	8282	0.25	0.05	0.00	0.00	22.19
rs18067066 9	Myristate (14:0) levels	GCST90200414	12	70769855	A	G	8282	0.14	0.03	0.00	0.00	20.76
rs14311129 3	Myristate (14:0) levels	GCST90200414	15	82598511	A	G	8282	-0.19	0.04	0.00	0.00	21.69
rs62011351	Myristate (14:0) levels	GCST90200414	16	1428263	A	G	8282	-0.17	0.04	0.00	0.00	22.75
rs11391569 1	Myristate (14:0) levels	GCST90200414	19	56248382	A	G	8282	-0.16	0.03	0.00	0.00	29.59
rs2826831	Myristate (14:0) levels	GCST90200414	21	21428005	A	G	8282	-0.09	0.02	0.00	0.00	20.72
rs75187018	Myristate (14:0) levels	GCST90200414	21	29887576	A	G	8282	-0.18	0.04	0.00	0.00	19.60
rs56407592	Myristate (14:0) levels	GCST90200414	21	33951034	A	G	8282	-0.10	0.02	0.00	0.00	19.72
rs12404355	Serine levels	GCST90200415	1	3490537	T	C	8271	0.24	0.05	0.00	0.00	21.64
rs14545780 9	Serine levels	GCST90200415	1	4296861	G	A	8271	0.29	0.06	0.00	0.00	21.85
rs11643463 4	Serine levels	GCST90200415	1	79167310	A	C	8271	0.24	0.05	0.00	0.00	23.39
rs2363498	Serine levels	GCST90200415	1	119672201	A	T	8271	0.28	0.06	0.00	0.00	25.24
rs561931	Serine levels	GCST90200415	1	119711883	G	A	8271	0.18	0.02	0.00	0.02	142.63
rs14695304 6	Serine levels	GCST90200415	1	119735449	G	T	8271	-0.30	0.07	0.00	0.00	19.62
rs15064617 1	Serine levels	GCST90200415	1	176565475	A	G	8271	-0.44	0.10	0.00	0.00	21.01
rs780093	Serine levels	GCST90200415	2	27519736	C	T	8271	0.08	0.02	0.00	0.00	24.94
rs75859613	Serine levels	GCST90200415	2	158807504	C	T	8271	-0.23	0.04	0.00	0.00	27.04
rs1047891	Serine levels	GCST90200415	2	210675783	A	C	8271	0.21	0.02	0.00	0.02	159.32
rs4393918	Serine levels	GCST90200415	3	175279872	C	G	8271	0.07	0.02	0.00	0.00	20.93
rs7628649	Serine levels	GCST90200415	3	186867592	C	T	8271	-0.11	0.02	0.00	0.00	20.74
rs13136680	Serine levels	GCST90200415	4	28843383	C	T	8271	0.17	0.04	0.00	0.00	21.14
rs6856689	Serine levels	GCST90200415	4	114865315	A	G	8271	-0.16	0.03	0.00	0.00	23.55
rs12659929	Serine levels	GCST90200415	5	76115073	G	A	8271	0.09	0.02	0.00	0.00	20.61
rs17428922	Serine levels	GCST90200415	5	165718241	C	A	8271	0.11	0.03	0.00	0.00	20.11
rs35780223	Serine levels	GCST90200415	5	179083069	T	C	8271	-0.17	0.03	0.00	0.00	24.27
rs155501	Serine levels	GCST90200415	6	7948976	G	T	8271	-0.08	0.02	0.00	0.00	19.95
rs6461757	Serine levels	GCST90200415	7	2996018	G	A	8271	0.08	0.02	0.00	0.00	24.49
rs816411	Serine levels	GCST90200415	7	56103796	T	C	8271	-0.15	0.02	0.00	0.01	97.49

rs56335308	Serine levels	GCST90200415	8	17561952	A	G	8271	0.23	0.05	0.00	0.00	22.85
rs7046643	Serine levels	GCST90200415	9	6682871	G	A	8271	-0.08	0.02	0.00	0.00	20.29
rs149814267	Serine levels	GCST90200415	9	69215601	A	G	8271	-0.31	0.06	0.00	0.00	24.23
rs141999665	Serine levels	GCST90200415	9	100136378	G	A	8271	0.28	0.06	0.00	0.00	20.98
rs1002607	Serine levels	GCST90200415	9	111096653	C	T	8271	-0.08	0.02	0.00	0.00	25.31
rs4382808	Serine levels	GCST90200415	10	2874366	G	A	8271	-0.08	0.02	0.00	0.00	19.82
rs4553269	Serine levels	GCST90200415	10	13945999	T	C	8271	-0.09	0.02	0.00	0.00	21.50
rs77195831	Serine levels	GCST90200415	11	107970093	C	T	8271	-0.14	0.03	0.00	0.00	19.54
rs11214896	Serine levels	GCST90200415	11	114197301	A	G	8271	-0.08	0.02	0.00	0.00	23.16
rs113117335	Serine levels	GCST90200415	13	60253728	T	G	8271	0.09	0.02	0.00	0.00	19.98
rs1205042	Serine levels	GCST90200415	14	71908571	T	C	8271	-0.15	0.03	0.00	0.00	22.74
rs11638845	Serine levels	GCST90200415	15	90099615	G	T	8271	-0.07	0.02	0.00	0.00	20.46
rs2344872	Serine levels	GCST90200415	17	73064198	T	C	8271	-0.09	0.02	0.00	0.00	20.97
rs168020	Serine levels	GCST90200415	18	71374106	A	C	8271	0.07	0.02	0.00	0.00	19.53
rs149220021	Serine levels	GCST90200415	19	29103892	A	G	8271	-0.30	0.07	0.00	0.00	19.92
rs738161	Serine levels	GCST90200415	22	27049475	A	C	8271	-0.07	0.02	0.00	0.00	20.03
rs12124409	urocanate levels	GCST90200416	1	168619276	A	C	8198	0.11	0.02	0.00	0.00	19.99
rs4832108	Trans-urocanate levels	GCST90200416	2	84713353	C	T	8198	-0.09	0.02	0.00	0.00	20.09
rs75563225	Trans-urocanate levels	GCST90200416	2	154217458	A	G	8198	0.18	0.04	0.00	0.00	21.63
rs11944637	Trans-urocanate levels	GCST90200416	4	109571936	C	T	8198	0.12	0.03	0.00	0.00	23.33
rs1279616	Trans-urocanate levels	GCST90200416	4	137117050	A	G	8198	0.15	0.03	0.00	0.00	28.64
rs13157092	Trans-urocanate levels	GCST90200416	5	134310663	G	T	8198	-0.15	0.03	0.00	0.00	20.42
rs6983849	Trans-urocanate levels	GCST90200416	8	18356365	C	T	8198	0.12	0.02	0.00	0.00	31.50
rs16890473	Trans-urocanate levels	GCST90200416	8	41360906	A	G	8198	-0.11	0.03	0.00	0.00	19.72
rs72682618	Trans-urocanate levels	GCST90200416	8	109230442	C	T	8198	0.22	0.05	0.00	0.00	22.40
rs79751944	Trans-urocanate levels	GCST90200416	9	81242893	C	T	8198	-0.29	0.06	0.00	0.00	24.73
rs147178697	Trans-urocanate levels	GCST90200416	9	102431982	C	T	8198	0.25	0.06	0.00	0.00	20.17
rs143630194	Trans-urocanate levels	GCST90200416	9	128902458	T	C	8198	-0.42	0.09	0.00	0.00	21.75
rs10885230	Trans-urocanate levels	GCST90200416	10	111646304	C	T	8198	-0.07	0.02	0.00	0.00	20.50
rs3213737	Trans-urocanate levels	GCST90200416	12	95986028	A	G	8198	0.30	0.02	0.00	0.04	381.19
rs59449644	Trans-urocanate levels	GCST90200416	13	62790353	A	G	8198	-0.10	0.02	0.00	0.00	19.67
rs9515857	Trans-urocanate levels	GCST90200416	13	90950045	T	G	8198	-0.08	0.02	0.00	0.00	22.10
rs1328055	Trans-urocanate levels	GCST90200416	13	96407596	A	T	8198	0.07	0.02	0.00	0.00	20.56
rs143957735	Trans-urocanate levels	GCST90200416	16	88172706	A	G	8198	0.21	0.04	0.00	0.00	21.67

rs62073997	Trans-urocanate levels	GCST90200416	17	62339637	C	A	8198	-0.09	0.02	0.00	0.00	20.05
rs55924931	Trans-urocanate levels	GCST90200416	19	2091368	G	C	8198	-0.11	0.03	0.00	0.00	19.61
rs56035820	Trans-urocanate levels	GCST90200416	19	51016454	T	C	8198	0.11	0.02	0.00	0.00	31.81
rs4927171	Urea levels	GCST90200417	1	54860813	A	G	8238	0.07	0.02	0.00	0.00	21.05
rs584901	Urea levels	GCST90200417	1	75226805	A	C	8238	-0.19	0.04	0.00	0.00	21.73
rs142905660	Urea levels	GCST90200417	1	95312385	T	C	8238	0.22	0.05	0.00	0.00	21.57
rs17409284	Urea levels	GCST90200417	2	145240644	C	G	8238	0.23	0.05	0.00	0.00	22.26
rs7632791	Urea levels	GCST90200417	3	192987	T	G	8238	-0.16	0.04	0.00	0.00	21.24
rs73060689	Urea levels	GCST90200417	3	34601413	G	A	8238	-1.40	0.29	0.00	0.00	23.67
rs6439629	Urea levels	GCST90200417	3	136182428	A	G	8238	-0.08	0.02	0.00	0.00	25.99
rs112349780	Urea levels	GCST90200417	3	190964336	A	G	8238	0.30	0.07	0.00	0.00	20.71
rs62328061	Urea levels	GCST90200417	4	118689451	G	A	8238	-0.17	0.04	0.00	0.00	20.52
rs12209277	Urea levels	GCST90200417	6	21757716	A	G	8238	0.07	0.02	0.00	0.00	20.06
rs10978403	Urea levels	GCST90200417	9	96625715	A	G	8238	-0.10	0.02	0.00	0.00	21.00
rs10795860	Urea levels	GCST90200417	10	11320354	A	G	8238	0.09	0.02	0.00	0.00	20.74
rs12262746	Urea levels	GCST90200417	10	66872855	T	C	8238	-0.15	0.03	0.00	0.00	23.13
rs7077523	Urea levels	GCST90200417	10	94122591	G	A	8238	-0.20	0.04	0.00	0.00	19.51
rs683228	Urea levels	GCST90200417	10	101302516	T	C	8238	-0.07	0.02	0.00	0.00	19.60
rs117017436	Urea levels	GCST90200417	12	14489701	A	G	8238	0.10	0.02	0.00	0.00	20.71
rs61924412	Urea levels	GCST90200417	12	41065140	T	C	8238	-0.22	0.04	0.00	0.00	24.25
rs55707906	Urea levels	GCST90200417	14	28258815	C	T	8238	0.14	0.03	0.00	0.00	19.73
rs150081553	Urea levels	GCST90200417	15	44094848	G	A	8238	-0.34	0.07	0.00	0.00	25.54
rs7175969	Urea levels	GCST90200417	15	56079800	T	C	8238	0.12	0.02	0.00	0.00	25.69
rs79626102	Urea levels	GCST90200417	15	77556271	C	T	8238	-0.11	0.02	0.00	0.00	22.46
rs34368689	Urea levels	GCST90200417	18	73381863	G	C	8238	0.30	0.07	0.00	0.00	20.11
rs3007729	Pyridoxal levels	GCST90200418	1	18468761	C	T	8021	-0.07	0.02	0.00	0.00	20.52
rs116751086	Pyridoxal levels	GCST90200418	1	95813278	A	G	8021	0.25	0.05	0.00	0.00	25.19
rs114037693	Pyridoxal levels	GCST90200418	1	163511808	C	G	8021	0.47	0.10	0.00	0.00	24.74
rs708757	Pyridoxal levels	GCST90200418	1	226619811	T	C	8021	0.07	0.02	0.00	0.00	20.38
rs116778025	Pyridoxal levels	GCST90200418	2	33440664	T	C	8021	-0.25	0.06	0.00	0.00	19.74
rs2084595	Pyridoxal levels	GCST90200418	2	83749447	T	C	8021	-0.08	0.02	0.00	0.00	22.23
rs77523344	Pyridoxal levels	GCST90200418	2	112470631	G	A	8021	0.49	0.11	0.00	0.00	19.63
rs12612473	Pyridoxal levels	GCST90200418	2	123391464	T	C	8021	0.40	0.08	0.00	0.00	22.19
rs28514600	Pyridoxal levels	GCST90200418	2	139249289	A	G	8021	0.09	0.02	0.00	0.00	19.75
rs77657426	Pyridoxal levels	GCST90200418	2	205978378	T	C	8021	0.25	0.06	0.00	0.00	20.79
rs62185065	Pyridoxal levels	GCST90200418	2	223718305	C	G	8021	0.07	0.02	0.00	0.00	21.44
rs142168139	Pyridoxal levels	GCST90200418	2	226698358	A	G	8021	0.10	0.02	0.00	0.00	20.40
rs140718044	Pyridoxal levels	GCST90200418	3	87530094	C	T	8021	0.58	0.12	0.00	0.00	23.07
rs138526344	Pyridoxal levels	GCST90200418	3	195005666	T	A	8021	0.24	0.05	0.00	0.00	19.71
rs143283455	Pyridoxal levels	GCST90200418	4	83682323	A	G	8021	0.63	0.14	0.00	0.00	19.59
rs56324651	Pyridoxal levels	GCST90200418	4	87467041	C	G	8021	-0.11	0.02	0.00	0.00	20.56
rs186411642	Pyridoxal levels	GCST90200418	4	105740999	A	C	8021	0.55	0.12	0.00	0.00	20.59
rs16902421	Pyridoxal levels	GCST90200418	5	13209705	T	C	8021	0.14	0.03	0.00	0.00	23.29
rs60259885	Pyridoxal levels	GCST90200418	5	34275127	G	A	8021	-0.31	0.07	0.00	0.00	20.24

rs4256381	Pyridoxal levels	GCST90200418	5	117728918	G	A	8021	0.16	0.03	0.00	0.00	22.21
rs9295427	Pyridoxal levels	GCST90200418	6	19287262	G	A	8021	0.15	0.03	0.00	0.00	20.13
rs144643319	Pyridoxal levels	GCST90200418	6	71274346	T	C	8021	0.18	0.04	0.00	0.00	19.79
rs537084084	Pyridoxal levels	GCST90200418	6	100185021	T	A	8021	0.43	0.08	0.00	0.00	27.88
rs528098503	Pyridoxal levels	GCST90200418	6	120403701	G	C	8021	0.25	0.05	0.00	0.00	22.19
rs75833393	Pyridoxal levels	GCST90200418	6	160980589	C	T	8021	0.08	0.02	0.00	0.00	19.72
rs17826049	Pyridoxal levels	GCST90200418	7	1183223	T	G	8021	0.17	0.04	0.00	0.00	20.43
rs12056149	Pyridoxal levels	GCST90200418	7	11778818	T	C	8021	0.26	0.05	0.00	0.00	26.93
rs117306022	Pyridoxal levels	GCST90200418	10	36397115	T	A	8021	0.25	0.05	0.00	0.00	21.81
rs77580631	Pyridoxal levels	GCST90200418	10	51608190	A	C	8021	0.41	0.08	0.00	0.00	24.27
rs72637065	Pyridoxal levels	GCST90200418	10	60747232	C	T	8021	0.11	0.02	0.00	0.00	20.03
rs79879497	Pyridoxal levels	GCST90200418	11	95387605	C	T	8021	0.35	0.07	0.00	0.00	24.39
rs117284243	Pyridoxal levels	GCST90200418	11	123048271	T	A	8021	0.53	0.10	0.00	0.00	29.25
rs118132523	Pyridoxal levels	GCST90200418	12	66693901	T	G	8021	0.43	0.09	0.00	0.00	22.07
rs12228964	Pyridoxal levels	GCST90200418	12	70551498	C	T	8021	0.26	0.06	0.00	0.00	19.60
rs71465888	Pyridoxal levels	GCST90200418	12	113195163	G	T	8021	0.18	0.04	0.00	0.00	20.96
rs2304294	Pyridoxal levels	GCST90200418	15	94457977	C	T	8021	-0.11	0.02	0.00	0.00	24.86
rs117409403	Pyridoxal levels	GCST90200418	16	13172066	T	C	8021	0.35	0.08	0.00	0.00	19.74
rs78625448	Pyridoxal levels	GCST90200418	16	71346736	A	G	8021	-0.22	0.05	0.00	0.00	21.39
rs76352275	Pyridoxal levels	GCST90200418	17	8706238	T	C	8021	-0.31	0.06	0.00	0.00	25.66
rs118091905	Pyridoxal levels	GCST90200418	17	38424180	T	C	8021	0.30	0.06	0.00	0.00	21.94
rs75935553	Pyridoxal levels	GCST90200418	18	25228912	C	T	8021	0.18	0.04	0.00	0.00	21.74
rs522043	Pyridoxal levels	GCST90200418	18	79720478	A	G	8021	0.11	0.02	0.00	0.00	24.28
rs68092355	Pyridoxal levels	GCST90200418	20	63050776	A	G	8021	0.20	0.04	0.00	0.00	21.12
rs11704091	Pyridoxal levels	GCST90200418	22	43455585	G	A	8021	-0.08	0.02	0.00	0.00	22.27
rs77063690	Glutamine levels	GCST90200419	1	58595657	T	G	8253	0.29	0.06	0.00	0.00	24.45
rs699713	Glutamine levels	GCST90200419	1	116689536	C	T	8253	-0.10	0.02	0.00	0.00	21.44
rs1260326	Glutamine levels	GCST90200419	2	27508073	C	T	8253	0.10	0.02	0.00	0.00	39.28
rs2603783	Glutamine levels	GCST90200419	3	16041304	T	C	8253	-0.10	0.02	0.00	0.00	20.73
rs114345851	Glutamine levels	GCST90200419	3	22726721	C	A	8253	0.26	0.06	0.00	0.00	19.98
rs146887842	Glutamine levels	GCST90200419	3	190162118	G	C	8253	0.11	0.02	0.00	0.00	23.28
rs6851940	Glutamine levels	GCST90200419	4	2765507	G	C	8253	0.08	0.02	0.00	0.00	25.37
rs79559764	Glutamine levels	GCST90200419	6	18113717	T	G	8253	-0.28	0.06	0.00	0.00	20.97
rs142883192	Glutamine levels	GCST90200419	6	55293843	A	G	8253	0.22	0.05	0.00	0.00	19.78
rs182595	Glutamine levels	GCST90200419	6	85326158	C	G	8253	0.07	0.02	0.00	0.00	19.78
rs112192120	Glutamine levels	GCST90200419	7	7095731	T	C	8253	-0.09	0.02	0.00	0.00	20.20
rs34921941	Glutamine levels	GCST90200419	7	32536644	C	G	8253	0.29	0.06	0.00	0.00	20.64

rs7793809	Glutamine levels	GCST90200419	7	103245293	G	A	8253	-0.09	0.02	0.00	0.00	20.28
rs74626742	Glutamine levels	GCST90200419	7	143512884	T	C	8253	0.28	0.06	0.00	0.00	21.18
rs181559651	Glutamine levels	GCST90200419	8	9594321	T	G	8253	-0.34	0.07	0.00	0.00	22.59
rs145269438	Glutamine levels	GCST90200419	8	43561566	A	C	8253	0.31	0.06	0.00	0.00	29.42
rs10758593	Glutamine levels	GCST90200419	9	4292083	A	G	8253	0.07	0.02	0.00	0.00	22.88
rs7078003	Glutamine levels	GCST90200419	10	97599655	T	C	8253	0.10	0.02	0.00	0.00	22.79
rs11017340	Glutamine levels	GCST90200419	10	130571712	G	A	8253	0.23	0.05	0.00	0.00	19.52
rs138864988	Glutamine levels	GCST90200419	10	130775192	T	C	8253	-0.33	0.07	0.00	0.00	20.95
rs78803796	Glutamine levels	GCST90200419	12	46801273	C	G	8253	0.14	0.03	0.00	0.00	21.19
rs2657879	Glutamine levels	GCST90200419	12	56471554	G	A	8253	-0.29	0.02	0.00	0.03	226.14
rs181439458	Glutamine levels	GCST90200419	13	24582599	G	A	8253	0.31	0.07	0.00	0.00	20.64
rs684789	Glutamine levels	GCST90200419	13	85559343	G	A	8253	0.11	0.02	0.00	0.00	19.93
rs76541382	Glutamine levels	GCST90200419	14	64497839	A	G	8253	-0.12	0.03	0.00	0.00	19.72
rs78607587	Glutamine levels	GCST90200419	16	10634588	T	C	8253	-0.12	0.03	0.00	0.00	20.15
rs150969072	Glutamine levels	GCST90200419	21	19119977	G	A	8253	0.33	0.08	0.00	0.00	19.62
rs75140767	Taurine levels	GCST90200420	1	42639414	G	A	8219	0.20	0.05	0.00	0.00	19.56
rs148871911	Taurine levels	GCST90200420	1	54113603	T	G	8219	0.25	0.05	0.00	0.00	27.00
rs17129945	Taurine levels	GCST90200420	1	87307820	T	C	8219	0.10	0.02	0.00	0.00	22.40
rs77815260	Taurine levels	GCST90200420	2	237901699	T	C	8219	0.16	0.04	0.00	0.00	19.51
rs4692346	Taurine levels	GCST90200420	4	26070963	G	A	8219	0.09	0.02	0.00	0.00	23.62
rs1276749	Taurine levels	GCST90200420	6	23623655	A	G	8219	0.07	0.02	0.00	0.00	20.25
rs218975	Taurine levels	GCST90200420	7	10959557	C	T	8219	0.07	0.02	0.00	0.00	20.33
rs72680015	Taurine levels	GCST90200420	8	115552724	T	C	8219	-0.21	0.05	0.00	0.00	20.22
rs143410078	Taurine levels	GCST90200420	9	22705569	G	A	8219	0.29	0.06	0.00	0.00	20.54
rs4838346	Taurine levels	GCST90200420	9	126127541	T	A	8219	0.08	0.02	0.00	0.00	20.36
rs11202381	Taurine levels	GCST90200420	10	87194125	T	A	8219	-0.08	0.02	0.00	0.00	24.75
rs111964749	Taurine levels	GCST90200420	10	98281845	T	C	8219	-0.34	0.07	0.00	0.00	21.11
rs9511729	Taurine levels	GCST90200420	13	25257745	A	G	8219	-0.30	0.07	0.00	0.00	20.50
rs140540792	Taurine levels	GCST90200420	15	71798253	T	C	8219	0.21	0.05	0.00	0.00	20.53
rs1472674	Taurine levels	GCST90200420	15	82116496	G	T	8219	-0.18	0.04	0.00	0.00	20.83
rs62644904	Taurine levels	GCST90200420	18	24735950	A	G	8219	0.18	0.04	0.00	0.00	22.71
rs62235453	Salicylate levels	GCST90200421	3	6960286	A	C	8191	-0.08	0.02	0.00	0.00	20.10
rs112981786	Salicylate levels	GCST90200421	3	33380659	A	G	8191	0.26	0.06	0.00	0.00	22.72
rs112048572	Salicylate levels	GCST90200421	3	67290058	A	G	8191	0.23	0.05	0.00	0.00	20.89
rs16864131	Salicylate levels	GCST90200421	3	189233808	C	A	8191	-0.20	0.04	0.00	0.00	19.84
rs145530615	Salicylate levels	GCST90200421	4	15351780	A	C	8191	-0.31	0.07	0.00	0.00	20.01
rs7447381	Salicylate levels	GCST90200421	5	124065381	T	C	8191	-0.07	0.02	0.00	0.00	23.04
rs145770421	Salicylate levels	GCST90200421	6	20337911	C	G	8191	0.20	0.05	0.00	0.00	20.16
rs13230827	Salicylate levels	GCST90200421	7	51561832	A	G	8191	-0.08	0.02	0.00	0.00	24.16
rs56691608	Salicylate levels	GCST90200421	7	70655422	G	C	8191	-0.08	0.02	0.00	0.00	22.82
rs76524064	Salicylate levels	GCST90200421	7	105331610	G	C	8191	-0.10	0.02	0.00	0.00	19.59
rs11773974	Salicylate levels	GCST90200421	8	71867675	T	C	8191	0.42	0.09	0.00	0.00	21.03
rs141403232	Salicylate levels	GCST90200421	8	104321231	T	C	8191	0.29	0.06	0.00	0.00	20.86

rs11996635	Salicylate levels	GCST90200421	8	112151737	C	G	8191	-0.07	0.02	0.00	0.00	19.89
rs11786331	Salicylate levels	GCST90200421	8	136281839	G	C	8191	-0.09	0.02	0.00	0.00	21.77
rs12347873	Salicylate levels	GCST90200421	9	19585407	A	G	8191	0.12	0.02	0.00	0.00	24.86
rs34637253	Salicylate levels	GCST90200421	10	51818114	A	G	8191	0.28	0.06	0.00	0.00	20.53
rs117575729	Salicylate levels	GCST90200421	12	85511863	A	G	8191	0.27	0.06	0.00	0.00	23.49
rs72715202	Salicylate levels	GCST90200421	15	33831441	C	T	8191	0.22	0.05	0.00	0.00	22.88
rs77336697	Salicylate levels	GCST90200421	15	46208884	T	G	8191	-0.13	0.03	0.00	0.00	19.76
rs9922704	Salicylate levels	GCST90200421	16	20549055	C	T	8191	0.23	0.05	0.00	0.00	20.90
rs2324026	Salicylate levels	GCST90200421	17	15772828	T	A	8191	-0.09	0.02	0.00	0.00	26.64
rs143358647	Salicylate levels	GCST90200421	19	32987811	G	A	8191	0.61	0.14	0.00	0.00	19.92
rs12978426	Salicylate levels	GCST90200421	19	43985876	A	G	8191	-0.31	0.06	0.00	0.00	22.82
rs150628701	Salicylate levels	GCST90200421	20	8603066	C	A	8191	0.43	0.09	0.00	0.00	21.44
rs558059	Salicylate levels	GCST90200421	21	31438586	A	C	8191	-0.08	0.02	0.00	0.00	23.21
rs114181004	Serotonin levels	GCST90200422	2	5507597	T	C	7498	0.41	0.09	0.00	0.00	21.44
rs111268614	Serotonin levels	GCST90200422	2	134850371	T	C	7498	-0.61	0.12	0.00	0.00	23.97
rs115186334	Serotonin levels	GCST90200422	2	162935111	T	C	7498	-0.18	0.04	0.00	0.00	23.48
rs13086224	Serotonin levels	GCST90200422	3	39766178	G	C	7498	0.10	0.02	0.00	0.00	20.77
rs77082129	Serotonin levels	GCST90200422	5	169963593	T	C	7498	-0.20	0.04	0.00	0.00	20.54
rs2585174	Serotonin levels	GCST90200422	8	142700626	G	A	7498	-0.07	0.02	0.00	0.00	21.29
rs143361116	Serotonin levels	GCST90200422	9	1267168	T	A	7498	-0.19	0.04	0.00	0.00	19.95
rs146029022	Serotonin levels	GCST90200422	9	1589439	A	G	7498	-0.26	0.05	0.00	0.00	23.04
rs2282169	Serotonin levels	GCST90200422	9	122378417	C	G	7498	0.09	0.02	0.00	0.00	19.69
rs115037039	Serotonin levels	GCST90200422	9	123135288	A	G	7498	-0.27	0.06	0.00	0.00	19.72
rs11018320	Serotonin levels	GCST90200422	10	127050064	G	C	7498	0.09	0.02	0.00	0.00	20.02
rs35695799	Serotonin levels	GCST90200422	10	128966549	T	C	7498	0.11	0.02	0.00	0.00	24.11
rs117348192	Serotonin levels	GCST90200422	11	22939948	T	A	7498	-0.23	0.05	0.00	0.00	20.81
rs56387403	Serotonin levels	GCST90200422	11	28643790	A	G	7498	-0.29	0.06	0.00	0.00	21.27
rs72987261	Serotonin levels	GCST90200422	11	98047926	A	C	7498	0.14	0.03	0.00	0.00	22.33
rs79669344	Serotonin levels	GCST90200422	12	118014119	C	T	7498	0.10	0.02	0.00	0.00	20.13
rs72761651	Serotonin levels	GCST90200422	15	101680241	T	C	7498	-0.14	0.03	0.00	0.00	22.00
rs40279	Serotonin levels	GCST90200422	16	62966272	T	C	7498	-0.08	0.02	0.00	0.00	21.45
rs2721848	Serotonin levels	GCST90200422	17	12336706	C	T	7498	-0.13	0.03	0.00	0.00	21.40
rs34301912	Serotonin levels	GCST90200422	18	31794392	T	G	7498	-0.23	0.05	0.00	0.00	25.82
rs12957097	Serotonin levels	GCST90200422	18	47609931	T	G	7498	0.08	0.02	0.00	0.00	20.29
rs6116934	Serotonin levels	GCST90200422	20	5751157	C	T	7498	0.09	0.02	0.00	0.00	21.08
rs11699391	Serotonin levels	GCST90200422	20	16599311	G	C	7498	-0.22	0.05	0.00	0.00	20.54
rs385502	Serotonin levels	GCST90200422	21	28238038	C	G	7498	0.09	0.02	0.00	0.00	21.38

rs139445237	Serotonin levels	GCST90200422	21	31316127	A	T	7498	-0.45	0.10	0.00	0.00	21.35
rs6425405	Spermidine levels	GCST90200423	1	171765574	T	G	7348	0.09	0.02	0.00	0.00	20.86
rs3811444	Spermidine levels	GCST90200423	1	247876149	T	C	7348	0.11	0.02	0.00	0.01	42.51
rs62157731	Spermidine levels	GCST90200423	2	128120946	G	A	7348	0.09	0.02	0.00	0.00	19.65
rs1354034	Spermidine levels	GCST90200423	3	56815721	C	T	7348	0.09	0.02	0.00	0.00	26.66
rs144977626	Spermidine levels	GCST90200423	3	148784541	A	G	7348	-0.12	0.02	0.00	0.00	24.06
rs78708293	Spermidine levels	GCST90200423	4	7229623	A	G	7348	0.31	0.07	0.00	0.00	19.60
rs62384543	Spermidine levels	GCST90200423	5	101198240	T	C	7348	-0.11	0.03	0.00	0.00	20.50
rs276554	Spermidine levels	GCST90200423	6	137089379	C	G	7348	0.09	0.02	0.00	0.00	20.48
rs10963703	Spermidine levels	GCST90200423	9	18649355	A	G	7348	0.08	0.02	0.00	0.00	20.38
rs11259172	Spermidine levels	GCST90200423	10	14545503	A	C	7348	-0.08	0.02	0.00	0.00	20.65
rs10761741	Spermidine levels	GCST90200423	10	63306426	T	G	7348	0.08	0.02	0.00	0.00	24.52
rs118145575	Spermidine levels	GCST90200423	10	81349580	C	A	7348	0.29	0.06	0.00	0.00	23.27
rs6598056	Spermidine levels	GCST90200423	11	252283	T	C	7348	0.09	0.02	0.00	0.00	22.68
rs1466609	Spermidine levels	GCST90200423	11	11386044	G	T	7348	0.08	0.02	0.00	0.00	21.57
rs192717110	Spermidine levels	GCST90200423	11	77531610	T	C	7348	0.28	0.06	0.00	0.00	19.83
rs79114739	Spermidine levels	GCST90200423	11	123459076	T	G	7348	0.25	0.05	0.00	0.00	20.87
rs68057338	Spermidine levels	GCST90200423	12	19380885	T	C	7348	0.13	0.03	0.00	0.00	22.70
rs117407027	Spermidine levels	GCST90200423	14	24962928	A	G	7348	0.28	0.06	0.00	0.00	20.92
rs116844331	Spermidine levels	GCST90200423	14	67608026	T	C	7348	0.42	0.09	0.00	0.00	20.52
rs113481882	Spermidine levels	GCST90200423	16	27186837	A	G	7348	0.16	0.03	0.00	0.00	21.77
rs72799097	Spermidine levels	GCST90200423	16	78724717	G	A	7348	0.32	0.07	0.00	0.00	22.00
rs8075810	Spermidine levels	GCST90200423	17	41091848	C	A	7348	-0.15	0.03	0.00	0.00	22.41
rs630720	Spermidine levels	GCST90200423	18	7687416	T	A	7348	-0.17	0.04	0.00	0.00	19.80
rs7543753	Dimethylglycine levels	GCST90200424	1	7018304	C	T	8224	0.11	0.02	0.00	0.00	23.06
rs202075182	Dimethylglycine levels	GCST90200424	1	86626050	G	A	8224	0.09	0.02	0.00	0.00	19.72
rs62171202	Dimethylglycine levels	GCST90200424	2	154233894	A	C	8224	-0.29	0.06	0.00	0.00	20.51
rs148965282	Dimethylglycine levels	GCST90200424	3	11567343	A	G	8224	0.49	0.11	0.00	0.00	20.81
rs34421071	Dimethylglycine levels	GCST90200424	3	45097330	A	G	8224	-0.09	0.02	0.00	0.00	19.63
rs11931847	Dimethylglycine levels	GCST90200424	4	22913101	C	T	8224	-0.26	0.06	0.00	0.00	20.34
rs337853	Dimethylglycine levels	GCST90200424	5	78907003	G	A	8224	-0.07	0.02	0.00	0.00	21.18
rs248386	Dimethylglycine levels	GCST90200424	5	79034404	A	C	8224	0.41	0.02	0.00	0.05	469.36
rs10479236	Dimethylglycine levels	GCST90200424	5	102582602	C	T	8224	0.08	0.02	0.00	0.00	23.06
rs115959038	Dimethylglycine levels	GCST90200424	5	143152399	G	A	8224	0.17	0.04	0.00	0.00	20.05
rs757741	Dimethylglycine levels	GCST90200424	7	147508136	A	G	8224	-0.18	0.04	0.00	0.00	20.33
rs4641024	Dimethylglycine levels	GCST90200424	8	53680369	T	C	8224	-0.08	0.02	0.00	0.00	25.70
rs141736640	Dimethylglycine levels	GCST90200424	9	6843956	T	C	8224	0.33	0.07	0.00	0.00	20.36

rs10780614	Dimethylglycine levels	GCST90200424	9	83608444	T	C	8224	0.08	0.02	0.00	0.00	21.65
rs10761723	Dimethylglycine levels	GCST90200424	10	63195821	T	C	8224	0.07	0.01	0.00	0.00	22.00
rs118028082	Dimethylglycine levels	GCST90200424	10	102467077	A	G	8224	0.18	0.03	0.00	0.00	36.66
rs61882941	Dimethylglycine levels	GCST90200424	11	45632892	T	C	8224	-0.12	0.03	0.00	0.00	20.06
rs4246215	Dimethylglycine levels	GCST90200424	11	61796827	T	G	8224	0.07	0.02	0.00	0.00	20.47
rs4766093	Dimethylglycine levels	GCST90200424	12	3292717	G	A	8224	0.09	0.02	0.00	0.00	20.56
rs112282931	Dimethylglycine levels	GCST90200424	12	27648238	G	T	8224	-0.11	0.02	0.00	0.00	21.58
rs36121812	Dimethylglycine levels	GCST90200424	12	98819156	C	T	8224	0.10	0.02	0.00	0.00	20.02
rs12425042	Dimethylglycine levels	GCST90200424	12	113387874	T	C	8224	-0.10	0.02	0.00	0.00	21.41
rs9538665	Dimethylglycine levels	GCST90200424	13	60375809	G	C	8224	0.10	0.02	0.00	0.00	20.14
rs12589358	Dimethylglycine levels	GCST90200424	14	62452136	T	C	8224	0.07	0.02	0.00	0.00	22.27
rs76201553	Dimethylglycine levels	GCST90200424	14	72945463	G	T	8224	-0.14	0.03	0.00	0.00	19.64
rs34945403	Dimethylglycine levels	GCST90200424	15	58138564	G	A	8224	-0.17	0.03	0.00	0.00	28.69
rs79495512	Dimethylglycine levels	GCST90200424	15	76199996	C	T	8224	0.19	0.03	0.00	0.01	53.19
rs12965086	Dimethylglycine levels	GCST90200424	18	5737925	G	A	8224	-0.11	0.02	0.00	0.00	22.46
rs12455390	Dimethylglycine levels	GCST90200424	18	10848562	A	T	8224	0.08	0.02	0.00	0.00	20.11
rs4941180	Dimethylglycine levels	GCST90200424	18	63095568	T	C	8224	0.09	0.02	0.00	0.00	20.41
rs77210856	Dimethylglycine levels	GCST90200424	19	49471525	A	G	8224	0.28	0.06	0.00	0.00	19.56
rs62217149	Dimethylglycine levels	GCST90200424	20	18991743	A	T	8224	0.11	0.02	0.00	0.00	21.80
rs144720250	Dimethylglycine levels	GCST90200424	21	39704449	A	T	8224	0.35	0.08	0.00	0.00	20.65
rs10927620	Betaine levels	GCST90200425	1	14991227	A	G	8232	0.07	0.02	0.00	0.00	19.51
rs10928970	Betaine levels	GCST90200425	2	130313115	C	A	8232	0.19	0.04	0.00	0.00	19.74
rs115853180	Betaine levels	GCST90200425	2	160585465	C	G	8232	-0.36	0.08	0.00	0.00	20.02
rs1047891	Betaine levels	GCST90200425	2	210675783	A	C	8232	-0.16	0.02	0.00	0.01	94.00
rs13068360	Betaine levels	GCST90200425	3	119376580	T	C	8232	-0.07	0.01	0.00	0.00	19.62
rs150287579	Betaine levels	GCST90200425	4	172133410	G	A	8232	0.32	0.06	0.00	0.00	25.03
rs10512976	Betaine levels	GCST90200425	5	8669400	G	A	8232	0.16	0.03	0.00	0.00	23.25
rs192091309	Betaine levels	GCST90200425	5	32251010	T	A	8232	-0.55	0.12	0.00	0.00	20.00
rs595653	Betaine levels	GCST90200425	5	79088039	A	G	8232	0.21	0.01	0.00	0.02	203.11
rs150600000	Betaine levels	GCST90200425	5	79502831	A	C	8232	-0.28	0.04	0.00	0.01	43.61
rs2234185	Betaine levels	GCST90200425	6	42929336	C	T	8232	0.07	0.01	0.00	0.00	19.61
rs80254170	Betaine levels	GCST90200425	6	160093251	G	A	8232	-0.17	0.03	0.00	0.00	38.85
rs662138	Betaine levels	GCST90200425	6	160143444	G	C	8232	-0.15	0.02	0.00	0.01	60.36
rs12113137	Betaine levels	GCST90200425	7	102751508	T	C	8232	-0.17	0.03	0.00	0.00	24.53
rs117044772	Betaine levels	GCST90200425	7	157628978	A	C	8232	-0.30	0.07	0.00	0.00	20.42
rs4838678	Betaine levels	GCST90200425	10	133349648	A	C	8232	0.19	0.04	0.00	0.00	21.44
rs73413485	Betaine levels	GCST90200425	11	8209230	T	C	8232	-0.14	0.03	0.00	0.00	19.79
rs11061978	Betaine levels	GCST90200425	12	209435	T	C	8232	-0.20	0.01	0.00	0.02	176.23
rs2407782	Betaine levels	GCST90200425	12	43884686	G	A	8232	-0.07	0.02	0.00	0.00	21.91
rs143392550	Betaine levels	GCST90200425	14	34564263	A	G	8232	-0.22	0.05	0.00	0.00	19.76
rs67563431	Betaine levels	GCST90200425	14	42805797	A	C	8232	-0.14	0.03	0.00	0.00	22.94
rs746900	Betaine levels	GCST90200425	17	17522813	A	T	8232	-0.10	0.01	0.00	0.01	46.13
rs2873700	Betaine levels	GCST90200425	18	67583795	T	A	8232	-0.10	0.02	0.00	0.00	20.74
rs62103441	Betaine levels	GCST90200425	18	70386480	T	A	8232	0.12	0.02	0.00	0.00	23.60
rs12462427	Betaine levels	GCST90200425	19	30690677	T	C	8232	0.09	0.02	0.00	0.00	21.41
rs73233394	Betaine levels	GCST90200425	21	42995872	C	T	8232	0.18	0.03	0.00	0.00	31.43
rs113442137	Xylose levels	GCST90200426	1	160285165	A	G	6822	0.17	0.04	0.00	0.00	20.45

rs80310084	Xylose levels	GCST90200426	2	69914089	C	A	6822	0.30	0.06	0.00	0.00	27.97
rs115522284	Xylose levels	GCST90200426	2	238286429	A	G	6822	-0.19	0.04	0.00	0.00	20.39
rs56367544	Xylose levels	GCST90200426	3	197014166	C	T	6822	0.30	0.07	0.00	0.00	19.92
rs79930322	Xylose levels	GCST90200426	4	66621598	A	G	6822	0.40	0.08	0.00	0.00	25.09
rs180932555	Xylose levels	GCST90200426	4	152143671	T	A	6822	0.27	0.06	0.00	0.00	19.99
rs62331361	Xylose levels	GCST90200426	4	157513425	T	C	6822	0.31	0.07	0.00	0.00	20.50
rs1911963	Xylose levels	GCST90200426	5	22445685	G	A	6822	0.11	0.02	0.00	0.00	26.46
rs224946	Xylose levels	GCST90200426	5	82418343	A	G	6822	-0.18	0.04	0.00	0.00	21.72
rs10051746	Xylose levels	GCST90200426	5	98104697	C	T	6822	-0.08	0.02	0.00	0.00	21.70
rs72817256	Xylose levels	GCST90200426	5	178123389	C	G	6822	0.17	0.04	0.00	0.00	20.55
rs13213275	Xylose levels	GCST90200426	6	55490192	T	C	6822	0.08	0.02	0.00	0.00	20.59
rs145187377	Xylose levels	GCST90200426	6	130150991	T	C	6822	0.15	0.03	0.00	0.00	20.74
rs62441094	Xylose levels	GCST90200426	7	16428123	A	G	6822	-0.24	0.05	0.00	0.00	20.27
rs10950862	Xylose levels	GCST90200426	7	21617954	G	T	6822	-0.08	0.02	0.00	0.00	21.11
rs6985837	Xylose levels	GCST90200426	8	142422646	A	G	6822	0.31	0.07	0.00	0.00	21.33
rs112249340	Xylose levels	GCST90200426	10	84614062	A	G	6822	0.30	0.07	0.00	0.00	19.66
rs2291265	Xylose levels	GCST90200426	12	51705369	T	C	6822	0.11	0.03	0.00	0.00	20.03
rs12429666	Xylose levels	GCST90200426	13	63841879	A	G	6822	0.34	0.06	0.00	0.00	29.59
rs7149187	Xylose levels	GCST90200426	14	91947643	A	G	6822	0.09	0.02	0.00	0.00	20.60
rs12926601	Xylose levels	GCST90200426	16	85868060	T	C	6822	0.10	0.02	0.00	0.00	22.55
rs533213061	Xylose levels	GCST90200426	18	35206664	G	A	6822	-0.28	0.06	0.00	0.00	19.92
rs1789555	Xylose levels	GCST90200426	18	45846244	G	A	6822	0.24	0.05	0.00	0.00	19.52
rs178730	Xylose levels	GCST90200426	18	51623687	T	A	6822	-0.09	0.02	0.00	0.00	20.41
rs12979487	Xylose levels	GCST90200426	19	10968379	G	A	6822	0.30	0.07	0.00	0.00	21.47
rs138019197	Xylose levels	GCST90200426	19	48276987	A	G	6822	0.55	0.12	0.00	0.00	19.86
rs6659916	Tyrosine levels	GCST90200427	1	6363498	G	A	8252	0.14	0.03	0.00	0.00	20.17
rs114766970	Tyrosine levels	GCST90200427	1	31028107	G	A	8252	0.19	0.04	0.00	0.00	20.56
rs11573560	Tyrosine levels	GCST90200427	1	44836152	T	C	8252	-0.17	0.04	0.00	0.00	20.91
rs1013972	Tyrosine levels	GCST90200427	2	3829803	C	A	8252	0.07	0.02	0.00	0.00	21.11
rs13401034	Tyrosine levels	GCST90200427	2	52854402	C	T	8252	0.10	0.02	0.00	0.00	20.75
rs116739423	Tyrosine levels	GCST90200427	3	1046911	A	G	8252	-0.28	0.06	0.00	0.00	19.53
rs114933663	Tyrosine levels	GCST90200427	3	46716370	T	C	8252	0.32	0.06	0.00	0.00	25.69
rs112981521	Tyrosine levels	GCST90200427	3	185634646	T	C	8252	-0.27	0.06	0.00	0.00	23.51
rs183666278	Tyrosine levels	GCST90200427	4	69725927	T	C	8252	-0.27	0.06	0.00	0.00	24.00
rs74512066	Tyrosine levels	GCST90200427	4	83553095	C	T	8252	-0.12	0.03	0.00	0.00	20.25
rs111893443	Tyrosine levels	GCST90200427	5	26133649	G	A	8252	0.10	0.02	0.00	0.00	22.12
rs139046353	Tyrosine levels	GCST90200427	6	68609686	T	A	8252	0.37	0.08	0.00	0.00	21.16
rs12206654	Tyrosine levels	GCST90200427	6	111235631	C	T	8252	0.19	0.02	0.00	0.01	76.77
rs79417841	Tyrosine levels	GCST90200427	7	16975114	G	A	8252	-0.08	0.02	0.00	0.00	19.94
rs73079981	Tyrosine levels	GCST90200427	7	28806262	C	T	8252	-0.32	0.07	0.00	0.00	19.70
rs183813791	Tyrosine levels	GCST90200427	7	37169072	T	C	8252	-0.09	0.02	0.00	0.00	20.46
rs17698603	Tyrosine levels	GCST90200427	8	96082595	G	A	8252	-0.18	0.04	0.00	0.00	19.91
rs7873440	Tyrosine levels	GCST90200427	9	37752950	C	T	8252	-0.07	0.02	0.00	0.00	20.43
rs151199098	Tyrosine levels	GCST90200427	10	3019411	A	G	8252	0.25	0.06	0.00	0.00	20.22
rs553254	Tyrosine levels	GCST90200427	10	129238347	G	T	8252	0.08	0.02	0.00	0.00	22.17
rs61213686	Tyrosine levels	GCST90200427	11	117591173	C	T	8252	-0.12	0.03	0.00	0.00	19.90
rs73079476	Tyrosine levels	GCST90200427	12	21190899	C	A	8252	-0.11	0.02	0.00	0.00	24.47
rs182395897	Tyrosine levels	GCST90200427	12	78255975	G	A	8252	-0.20	0.04	0.00	0.00	23.70
rs112980299	Tyrosine levels	GCST90200427	13	103024871	T	C	8252	0.33	0.07	0.00	0.00	21.22
rs1289355	Tyrosine levels	GCST90200427	14	86364988	T	C	8252	-0.08	0.02	0.00	0.00	22.34
rs150851429	Tyrosine levels	GCST90200427	16	71591928	C	G	8252	0.44	0.06	0.00	0.01	47.59
rs2368697	Tyrosine levels	GCST90200427	17	34171181	A	G	8252	-0.08	0.02	0.00	0.00	19.97
rs62208874	Tyrosine levels	GCST90200427	21	20780718	T	G	8252	-0.23	0.05	0.00	0.00	20.42
rs117786136	Tyrosine levels	GCST90200427	22	45419097	T	C	8252	-0.43	0.09	0.00	0.00	22.57

rs76901923	Caprate (10:0) levels	GCST90200428	1	75232703	C	A	8272	-0.15	0.03	0.00	0.00	19.72
rs16899889	Caprate (10:0) levels	GCST90200428	5	82746520	C	T	8272	0.32	0.07	0.00	0.00	21.83
rs6870663	Caprate (10:0) levels	GCST90200428	5	172823258	A	G	8272	0.08	0.02	0.00	0.00	23.41
rs111380577	Caprate (10:0) levels	GCST90200428	7	89074800	T	A	8272	0.20	0.04	0.00	0.00	25.82
rs7819032	Caprate (10:0) levels	GCST90200428	8	6598153	G	C	8272	0.07	0.02	0.00	0.00	20.39
rs13264419	Caprate (10:0) levels	GCST90200428	8	50474425	C	T	8272	-0.20	0.04	0.00	0.00	22.18
rs75911869	Caprate (10:0) levels	GCST90200428	8	73389349	G	A	8272	-0.15	0.03	0.00	0.00	19.85
rs10096921	Caprate (10:0) levels	GCST90200428	8	119193894	T	G	8272	0.07	0.02	0.00	0.00	21.66
rs10812806	Caprate (10:0) levels	GCST90200428	9	28401614	T	A	8272	0.08	0.02	0.00	0.00	23.55
rs150572890	Caprate (10:0) levels	GCST90200428	10	52243686	T	C	8272	0.25	0.04	0.00	0.00	32.23
rs10998719	Caprate (10:0) levels	GCST90200428	10	69328782	A	G	8272	-0.12	0.02	0.00	0.00	26.33
rs148043013	Caprate (10:0) levels	GCST90200428	12	131685275	C	T	8272	-0.13	0.03	0.00	0.00	21.78
rs282780	Caprate (10:0) levels	GCST90200428	15	79757625	T	C	8272	0.07	0.02	0.00	0.00	21.05
rs144178492	Caprate (10:0) levels	GCST90200428	16	12162201	A	G	8272	0.28	0.06	0.00	0.00	20.97
rs118025779	Caprate (10:0) levels	GCST90200428	19	561345	T	A	8272	-0.40	0.09	0.00	0.00	20.11
rs4911376	Caprate (10:0) levels	GCST90200428	20	33928222	A	T	8272	0.07	0.02	0.00	0.00	22.08
rs6688564	Cytidine levels	GCST90200429	1	56450416	C	A	7659	-0.08	0.02	0.00	0.00	20.03
rs74461768	Cytidine levels	GCST90200429	1	61671433	G	A	7659	0.33	0.07	0.00	0.00	21.51
rs9803636	Cytidine levels	GCST90200429	1	94728477	A	G	7659	0.22	0.04	0.00	0.00	26.76
rs141278981	Cytidine levels	GCST90200429	1	192824978	G	A	7659	0.87	0.20	0.00	0.00	19.72
rs141476650	Cytidine levels	GCST90200429	2	64245084	G	T	7659	0.31	0.07	0.00	0.00	20.93
rs143052856	Cytidine levels	GCST90200429	2	172125632	C	G	7659	0.17	0.04	0.00	0.00	20.88
rs78599735	Cytidine levels	GCST90200429	3	86326444	G	C	7659	0.10	0.02	0.00	0.00	22.36
rs1876077	Cytidine levels	GCST90200429	3	147641830	C	T	7659	-0.08	0.02	0.00	0.00	21.49
rs9868248	Cytidine levels	GCST90200429	3	186425333	A	G	7659	0.14	0.03	0.00	0.00	20.32
rs78731108	Cytidine levels	GCST90200429	4	138008741	G	A	7659	-0.15	0.03	0.00	0.00	20.26
rs35283978	Cytidine levels	GCST90200429	5	46111916	T	C	7659	0.11	0.02	0.00	0.00	20.69
rs76273324	Cytidine levels	GCST90200429	6	115976353	T	G	7659	-0.21	0.05	0.00	0.00	20.55
rs17144743	Cytidine levels	GCST90200429	7	21599302	C	T	7659	-0.17	0.04	0.00	0.00	20.67
rs2534565	Cytidine levels	GCST90200429	7	38318626	T	C	7659	0.16	0.03	0.00	0.00	21.00
rs13248872	Cytidine levels	GCST90200429	8	6908260	A	C	7659	0.32	0.07	0.00	0.00	19.84
rs78193540	Cytidine levels	GCST90200429	8	115145460	A	G	7659	0.35	0.08	0.00	0.00	20.10
rs80039270	Cytidine levels	GCST90200429	9	118536859	C	T	7659	0.23	0.05	0.00	0.00	21.65
rs28510524	Cytidine levels	GCST90200429	9	133752119	C	T	7659	0.16	0.04	0.00	0.00	21.55
rs12254596	Cytidine levels	GCST90200429	10	13002844	G	C	7659	-0.08	0.02	0.00	0.00	21.93
rs17600560	Cytidine levels	GCST90200429	10	51363818	A	G	7659	0.21	0.05	0.00	0.00	21.04
rs548292361	Cytidine levels	GCST90200429	11	132871214	T	A	7659	0.76	0.17	0.00	0.00	19.93
rs570524132	Cytidine levels	GCST90200429	12	103685451	C	T	7659	1.28	0.26	0.00	0.00	24.01
rs78788136	Cytidine levels	GCST90200429	13	64098012	C	T	7659	0.33	0.07	0.00	0.00	21.58
rs9558610	Cytidine levels	GCST90200429	13	105717317	T	C	7659	-0.09	0.02	0.00	0.00	23.03
rs72754978	Cytidine levels	GCST90200429	15	84961789	C	T	7659	-0.23	0.03	0.00	0.01	44.79
rs11644588	Cytidine levels	GCST90200429	16	82796516	C	A	7659	-0.07	0.02	0.00	0.00	19.70
rs76778343	Cytidine levels	GCST90200429	18	76049264	T	C	7659	0.74	0.16	0.00	0.00	22.06
rs186395184	Cytidine levels	GCST90200429	19	14077362	A	C	7659	0.42	0.09	0.00	0.00	20.61
rs28371533	Cytidine levels	GCST90200429	19	15644141	C	T	7659	0.40	0.08	0.00	0.00	24.21
rs389269	Cytidine levels	GCST90200429	20	15419126	C	T	7659	0.07	0.02	0.00	0.00	22.18
rs118118389	Cytidine levels	GCST90200429	20	60230914	G	A	7659	0.21	0.05	0.00	0.00	19.54
rs4665972	Pyruvate	GCST90200430	2	27375230	C	T	8259	-0.08	0.02	0.00	0.00	23.34
rs6742589	Pyruvate	GCST90200430	2	40413021	T	C	8259	0.08	0.02	0.00	0.00	20.86
rs2392871	Pyruvate	GCST90200430	2	221353706	A	G	8259	0.08	0.02	0.00	0.00	22.14
rs6797859	Pyruvate	GCST90200430	3	15569859	G	A	8259	0.11	0.02	0.00	0.00	21.08

rs115199424	Pyruvate levels	GCST90200430	3	36509083	T	C	8259	-0.12	0.02	0.00	0.00	24.89
rs10212643	Pyruvate	GCST90200430	4	56508490	C	G	8259	0.12	0.03	0.00	0.00	19.53
rs34668825	Pyruvate	GCST90200430	5	100804756	G	A	8259	-0.17	0.04	0.00	0.00	22.42
rs144880202	Pyruvate levels	GCST90200430	5	119666719	C	A	8259	-0.25	0.05	0.00	0.00	21.25
rs10044998	Pyruvate	GCST90200430	5	129547132	A	G	8259	0.28	0.06	0.00	0.00	21.02
rs55712631	Pyruvate	GCST90200430	5	178000571	A	G	8259	0.11	0.02	0.00	0.00	19.77
rs114927772	Pyruvate levels	GCST90200430	6	10818696	T	A	8259	0.26	0.06	0.00	0.00	21.18
rs325001	Pyruvate	GCST90200430	6	44303199	T	C	8259	0.07	0.02	0.00	0.00	19.57
rs7796905	Pyruvate	GCST90200430	7	15980502	C	T	8259	-0.07	0.02	0.00	0.00	21.56
rs7831951	Pyruvate	GCST90200430	8	4749433	A	G	8259	-0.07	0.02	0.00	0.00	19.51
rs7478572	Pyruvate	GCST90200430	10	52867727	A	G	8259	0.50	0.11	0.00	0.00	19.63
rs7089734	Pyruvate	GCST90200430	10	133034546	A	G	8259	0.08	0.02	0.00	0.00	20.45
rs73453892	Pyruvate	GCST90200430	11	40187558	T	C	8259	0.09	0.02	0.00	0.00	19.56
rs58559223	Pyruvate	GCST90200430	12	124880353	A	G	8259	0.14	0.03	0.00	0.00	24.26
rs192431765	Pyruvate levels	GCST90200430	13	98287262	C	G	8259	0.40	0.09	0.00	0.00	20.20
rs10851243	Pyruvate	GCST90200430	13	110415152	C	A	8259	-0.10	0.02	0.00	0.00	19.63
rs13332352	Pyruvate	GCST90200430	16	86966724	C	T	8259	0.25	0.05	0.00	0.00	22.43
rs79888339	Pyruvate	GCST90200430	17	35349522	T	C	8259	-0.30	0.07	0.00	0.00	20.70
rs117775515	Pyruvate levels	GCST90200430	20	60000113	T	A	8259	0.21	0.05	0.00	0.00	20.65
rs35813471	Alanine levels	GCST90200431	1	18338706	A	G	8265	0.08	0.02	0.00	0.00	20.51
rs114884746	Alanine levels	GCST90200431	2	23821434	C	T	8265	-0.47	0.10	0.00	0.00	20.11
rs114441661	Alanine levels	GCST90200431	3	22517156	A	G	8265	-0.29	0.06	0.00	0.00	19.80
rs2622621	Alanine levels	GCST90200431	4	88109768	G	C	8265	0.08	0.02	0.00	0.00	22.26
rs1882328	Alanine levels	GCST90200431	4	184216100	C	T	8265	0.07	0.02	0.00	0.00	21.22
rs62349565	Alanine levels	GCST90200431	5	24516718	G	A	8265	0.08	0.02	0.00	0.00	20.45
rs62353827	Alanine levels	GCST90200431	5	68530128	T	C	8265	-0.33	0.07	0.00	0.00	20.28
rs12652257	Alanine levels	GCST90200431	5	113166104	C	T	8265	0.08	0.02	0.00	0.00	23.40
rs117125924	Alanine levels	GCST90200431	7	18097865	G	A	8265	0.27	0.06	0.00	0.00	23.14
rs151325649	Alanine levels	GCST90200431	7	112580220	A	G	8265	0.24	0.05	0.00	0.00	25.42
rs12546218	Alanine levels	GCST90200431	8	61147192	T	C	8265	-0.22	0.05	0.00	0.00	20.78
rs10121542	Alanine levels	GCST90200431	9	18387912	T	G	8265	0.10	0.02	0.00	0.00	21.81
rs149662767	Alanine levels	GCST90200431	9	33576860	A	G	8265	-0.29	0.06	0.00	0.00	23.35
rs11055732	Alanine levels	GCST90200431	12	14041530	G	A	8265	0.16	0.04	0.00	0.00	19.72
rs57241318	Alanine levels	GCST90200431	12	49320056	T	C	8265	-0.08	0.02	0.00	0.00	20.23
rs7967255	Alanine levels	GCST90200431	12	119385098	T	C	8265	-0.26	0.06	0.00	0.00	20.77
rs9546320	Alanine levels	GCST90200431	13	83187946	T	C	8265	-0.08	0.02	0.00	0.00	25.18
rs61960818	Alanine levels	GCST90200431	13	112424815	T	C	8265	-0.19	0.04	0.00	0.00	21.53
rs7145455	Alanine levels	GCST90200431	14	95007378	T	A	8265	0.07	0.02	0.00	0.00	21.10
rs182328839	Alanine levels	GCST90200431	16	63194787	A	C	8265	-0.25	0.05	0.00	0.00	21.21
rs138320524	Alanine levels	GCST90200431	17	2958049	G	A	8265	0.30	0.07	0.00	0.00	20.33
rs192757635	Alanine levels	GCST90200431	17	73414063	A	T	8265	0.18	0.04	0.00	0.00	19.52
rs74260417	Alanine levels	GCST90200431	19	43458777	A	G	8265	-0.21	0.05	0.00	0.00	20.20
rs2156405	Alanine levels	GCST90200431	21	35970101	G	A	8265	0.07	0.02	0.00	0.00	19.82
rs3095420	Threonine levels	GCST90200432	1	187768201	T	C	8245	0.09	0.02	0.00	0.00	24.60
rs17712208	Threonine levels	GCST90200432	1	213977102	A	T	8245	0.27	0.05	0.00	0.00	34.83
rs1260326	Threonine levels	GCST90200432	2	27508073	C	T	8245	0.12	0.02	0.00	0.01	62.55
rs4971636	Threonine levels	GCST90200432	2	50023781	T	A	8245	0.08	0.02	0.00	0.00	22.25
rs799814	Threonine levels	GCST90200432	2	154354850	A	G	8245	-0.32	0.07	0.00	0.00	19.54
rs72937491	Threonine levels	GCST90200432	2	177113322	A	T	8245	-0.13	0.03	0.00	0.00	24.60
rs1047891	Threonine levels	GCST90200432	2	210675783	A	C	8245	-0.12	0.02	0.00	0.01	54.26
rs61055666	Threonine levels	GCST90200432	2	236641263	T	C	8245	0.11	0.02	0.00	0.00	20.07
rs142583903	Threonine levels	GCST90200432	3	27779060	C	G	8245	-0.35	0.07	0.00	0.00	24.14

rs7627650	Threonine levels	GCST90200432	3	116900630	C	A	8245	-0.08	0.02	0.00	0.00	22.54
rs2885544	Threonine levels	GCST90200432	3	126742834	G	C	8245	-0.07	0.02	0.00	0.00	20.20
rs75427545	Threonine levels	GCST90200432	4	45606882	A	C	8245	-0.21	0.04	0.00	0.00	23.51
rs4859471	Threonine levels	GCST90200432	4	77087146	C	T	8245	-0.09	0.02	0.00	0.00	25.55
rs1871171	Threonine levels	GCST90200432	5	16285595	T	C	8245	-0.07	0.02	0.00	0.00	20.49
rs1366192	Threonine levels	GCST90200432	5	164551794	C	A	8245	0.08	0.02	0.00	0.00	23.70
rs77972788	Threonine levels	GCST90200432	6	17955521	G	A	8245	0.21	0.05	0.00	0.00	19.89
rs41308311	Threonine levels	GCST90200432	6	31630898	A	G	8245	-0.27	0.06	0.00	0.00	23.63
rs514293	Threonine levels	GCST90200432	6	108703075	T	C	8245	0.10	0.02	0.00	0.00	22.22
rs144220033	Threonine levels	GCST90200432	6	151183826	T	C	8245	0.33	0.07	0.00	0.00	19.85
rs9295323	Threonine levels	GCST90200432	6	166156858	T	C	8245	0.07	0.02	0.00	0.00	19.82
rs72661853	Threonine levels	GCST90200432	8	73964058	T	A	8245	0.09	0.02	0.00	0.00	25.10
rs10904827	Threonine levels	GCST90200432	10	16864343	G	C	8245	0.09	0.02	0.00	0.00	22.65
rs188502675	Threonine levels	GCST90200432	10	72467562	T	C	8245	-0.19	0.04	0.00	0.00	20.76
rs11245027	Threonine levels	GCST90200432	10	126544877	G	C	8245	0.13	0.03	0.00	0.00	24.34
rs7935059	Threonine levels	GCST90200432	11	87726949	C	A	8245	-0.09	0.02	0.00	0.00	19.66
rs2079787	Threonine levels	GCST90200432	12	46794299	G	A	8245	-0.14	0.02	0.00	0.00	38.51
rs74093317	Threonine levels	GCST90200432	12	59540519	T	C	8245	0.12	0.02	0.00	0.00	25.43
rs117348194	Threonine levels	GCST90200432	13	70913840	A	C	8245	-0.28	0.06	0.00	0.00	20.19
rs74410978	Threonine levels	GCST90200432	14	100346169	C	A	8245	-0.09	0.02	0.00	0.00	31.31
rs548228	Threonine levels	GCST90200432	15	29404574	G	A	8245	-0.08	0.02	0.00	0.00	20.70
rs12925710	Threonine levels	GCST90200432	16	78071569	G	T	8245	-0.20	0.04	0.00	0.00	20.83
rs6072152	Threonine levels	GCST90200432	20	40802457	C	T	8245	-0.10	0.02	0.00	0.00	19.59
rs5752477	Threonine levels	GCST90200432	22	27068071	C	A	8245	-0.08	0.02	0.00	0.00	21.37
rs822516	Cytosine levels	GCST90200433	1	155872777	C	T	6990	0.16	0.03	0.00	0.00	20.73
rs10910502	Cytosine levels	GCST90200433	1	234771065	A	T	6990	-0.08	0.02	0.00	0.00	20.19
rs1160496	Cytosine levels	GCST90200433	2	126217029	T	A	6990	-0.22	0.05	0.00	0.00	21.06
rs11732321	Cytosine levels	GCST90200433	4	54387537	G	C	6990	0.08	0.02	0.00	0.00	19.92
rs17577246	Cytosine levels	GCST90200433	4	67871875	A	G	6990	-0.10	0.02	0.00	0.00	22.98
rs147461700	Cytosine levels	GCST90200433	6	13335554	C	A	6990	-0.16	0.03	0.00	0.00	21.72
rs12671658	Cytosine levels	GCST90200433	7	7802650	T	G	6990	0.08	0.02	0.00	0.00	22.73
rs113121583	Cytosine levels	GCST90200433	8	19273665	C	G	6990	0.27	0.06	0.00	0.00	20.51
rs2594955	Cytosine levels	GCST90200433	8	58876117	T	C	6990	0.12	0.03	0.00	0.00	20.01
rs11995626	Cytosine levels	GCST90200433	8	59357212	T	C	6990	-0.10	0.02	0.00	0.00	19.82
rs72733378	Cytosine levels	GCST90200433	9	100361913	C	T	6990	0.13	0.03	0.00	0.00	21.71
rs117318016	Cytosine levels	GCST90200433	9	121812735	T	G	6990	0.33	0.07	0.00	0.00	21.67
rs117083795	Cytosine levels	GCST90200433	10	64375114	T	G	6990	-0.29	0.06	0.00	0.00	21.99
rs7120746	Cytosine levels	GCST90200433	11	44856761	A	T	6990	0.08	0.02	0.00	0.00	19.55
rs3827699	Cytosine levels	GCST90200433	20	6089458	G	A	6990	0.08	0.02	0.00	0.00	19.68
rs118074678	Cytosine levels	GCST90200433	20	9474795	T	C	6990	0.32	0.07	0.00	0.00	21.66
rs6069417	Cytosine levels	GCST90200433	20	55834561	A	G	6990	0.07	0.02	0.00	0.00	19.82
rs72616468	Cytosine levels	GCST90200433	21	26005282	T	C	6990	0.13	0.03	0.00	0.00	20.00
rs9804128	DiHOME levels	GCST90200434	1	18098517	G	A	7918	-0.10	0.02	0.00	0.00	27.96

rs1076775	12,13- DiHOME levels	GCST90200434	1	36595541	G	A	7918	-0.08	0.02	0.00	0.00	22.42
rs76869253	12,13- DiHOME levels	GCST90200434	1	59101757	A	G	7918	0.35	0.08	0.00	0.00	21.34
rs55982573	12,13- DiHOME levels	GCST90200434	1	116532856	T	C	7918	0.30	0.06	0.00	0.00	22.89
rs1015008	12,13- DiHOME levels	GCST90200434	1	171839606	T	C	7918	0.09	0.02	0.00	0.00	25.82
rs72811933	12,13- DiHOME levels	GCST90200434	2	73506857	T	G	7918	-0.14	0.03	0.00	0.00	20.29
rs13092691	12,13- DiHOME levels	GCST90200434	3	21677879	A	G	7918	-0.29	0.06	0.00	0.00	22.08
rs73116398	12,13- DiHOME levels	GCST90200434	3	70970382	T	C	7918	-0.32	0.07	0.00	0.00	21.36
rs76669836	12,13- DiHOME levels	GCST90200434	4	182157506	G	A	7918	-0.14	0.03	0.00	0.00	20.30
rs56367726	12,13- DiHOME levels	GCST90200434	5	6818103	A	G	7918	-0.25	0.05	0.00	0.00	20.81
rs6895376	12,13- DiHOME levels	GCST90200434	5	19840129	G	T	7918	-0.13	0.03	0.00	0.00	20.33
rs11652736 6	12,13- DiHOME levels	GCST90200434	5	87334822	C	T	7918	-0.56	0.12	0.00	0.00	22.12
rs2963675	12,13- DiHOME levels	GCST90200434	5	176429704	T	C	7918	-0.07	0.02	0.00	0.00	20.62
rs35086472	12,13- DiHOME levels	GCST90200434	6	158580187	A	G	7918	-0.08	0.02	0.00	0.00	21.56
rs9294997	12,13- DiHOME levels	GCST90200434	6	169380518	C	T	7918	-0.11	0.02	0.00	0.00	22.45
rs56088608	12,13- DiHOME levels	GCST90200434	7	24307896	A	G	7918	-0.18	0.04	0.00	0.00	21.43
rs6953335	12,13- DiHOME levels	GCST90200434	7	114700950	T	A	7918	-0.11	0.03	0.00	0.00	19.73
rs11721547 0	12,13- DiHOME levels	GCST90200434	8	41131973	G	A	7918	0.25	0.05	0.00	0.00	22.50
rs7827287	12,13- DiHOME levels	GCST90200434	8	64693162	T	G	7918	0.07	0.02	0.00	0.00	21.04
rs11697911 3	12,13- DiHOME levels	GCST90200434	8	134042526	A	G	7918	0.22	0.05	0.00	0.00	20.56
rs7913462	12,13- DiHOME levels	GCST90200434	10	106224995	T	C	7918	0.07	0.02	0.00	0.00	20.73
rs11215074	12,13- DiHOME levels	GCST90200434	11	98385193	C	A	7918	0.07	0.02	0.00	0.00	19.84
rs12797755	12,13- DiHOME levels	GCST90200434	11	120938751	G	T	7918	0.16	0.03	0.00	0.00	22.08
rs7119787	12,13- DiHOME levels	GCST90200434	11	132838852	G	C	7918	-0.15	0.03	0.00	0.00	19.81
rs11125811 4	12,13- DiHOME levels	GCST90200434	16	3064986	A	G	7918	-0.18	0.04	0.00	0.00	22.95

rs148522108	12,13-DiHOME levels	GCST90200434	17	67248821	C	T	7918	-0.18	0.04	0.00	0.00	19.90
rs62195831	12,13-DiHOME levels	GCST90200434	20	8682533	C	A	7918	0.39	0.08	0.00	0.00	22.79
rs463370	12,13-DiHOME levels	GCST90200434	21	29883052	T	C	7918	-0.10	0.02	0.00	0.00	21.20
rs12627824	12,13-DiHOME levels	GCST90200434	22	23583148	C	T	7918	-0.07	0.02	0.00	0.00	20.08
rs74055922	Mannose	GCST90200435	1	18163063	T	G	8212	-0.25	0.05	0.00	0.00	20.24
rs1260326	Mannose	GCST90200435	2	27508073	C	T	8212	0.26	0.02	0.00	0.03	290.69
rs139250430	Mannose levels	GCST90200435	2	74478848	A	G	8212	0.36	0.08	0.00	0.00	22.16
rs1868856	Mannose	GCST90200435	2	118807686	G	C	8212	0.07	0.02	0.00	0.00	20.57
rs62180452	Mannose	GCST90200435	2	187617142	G	A	8212	0.17	0.04	0.00	0.00	21.14
rs634242	Mannose	GCST90200435	2	215723739	G	C	8212	0.24	0.05	0.00	0.00	21.87
rs9856558	Mannose	GCST90200435	3	172404731	A	G	8212	-0.07	0.02	0.00	0.00	20.09
rs13358922	Mannose	GCST90200435	5	54550726	A	G	8212	0.12	0.02	0.00	0.00	22.93
rs34542491	Mannose	GCST90200435	5	168805806	T	C	8212	-0.10	0.02	0.00	0.00	25.65
rs113555453	Mannose levels	GCST90200435	6	121581206	T	A	8212	0.21	0.05	0.00	0.00	19.88
rs3729624	Mannose	GCST90200435	7	8151931	T	C	8212	-0.09	0.02	0.00	0.00	22.56
rs72635666	Mannose	GCST90200435	8	48254494	T	C	8212	-0.15	0.03	0.00	0.00	20.59
rs72649494	Mannose	GCST90200435	8	58895322	C	A	8212	0.26	0.05	0.00	0.00	28.59
rs76860853	Mannose	GCST90200435	8	127713713	C	G	8212	0.30	0.07	0.00	0.00	19.75
rs1494339	Mannose	GCST90200435	9	14733681	C	G	8212	-0.08	0.02	0.00	0.00	20.58
rs2749603	Mannose	GCST90200435	10	33893120	G	A	8212	-0.07	0.02	0.00	0.00	20.99
rs113272434	Mannose levels	GCST90200435	11	3504348	T	C	8212	0.08	0.02	0.00	0.00	20.77
rs7106201	Mannose	GCST90200435	11	15572758	G	A	8212	0.07	0.02	0.00	0.00	19.76
rs61924084	Mannose	GCST90200435	12	23080167	T	C	8212	0.24	0.04	0.00	0.00	30.91
rs56138102	Mannose	GCST90200435	13	28349346	A	G	8212	0.37	0.08	0.00	0.00	22.33
rs11842391	Mannose	GCST90200435	13	32160796	A	G	8212	-0.16	0.04	0.00	0.00	20.30
rs17225334	Mannose	GCST90200435	13	75227028	T	C	8212	-0.17	0.04	0.00	0.00	21.23
rs148538224	Mannose levels	GCST90200435	17	64040941	T	C	8212	-0.22	0.05	0.00	0.00	20.46
rs141823459	Mannose levels	GCST90200435	19	31362396	A	T	8212	0.38	0.08	0.00	0.00	20.02
rs138604479	Mannose levels	GCST90200435	20	36405350	G	T	8212	0.33	0.07	0.00	0.00	21.32
rs9979903	Mannose	GCST90200435	21	38970370	C	T	8212	-0.07	0.02	0.00	0.00	20.56
rs11247771	Caffeine levels	GCST90200436	1	28322891	T	G	8005	-0.07	0.02	0.00	0.00	19.84
rs17047499	Caffeine levels	GCST90200436	2	56121640	T	A	8005	-0.13	0.03	0.00	0.00	25.56
rs17729212	Caffeine levels	GCST90200436	2	114755923	G	A	8005	-0.14	0.03	0.00	0.00	21.35
rs78121311	Caffeine levels	GCST90200436	3	103812795	G	T	8005	-0.18	0.04	0.00	0.00	19.74
rs6797348	Caffeine levels	GCST90200436	3	121796880	C	T	8005	-0.30	0.07	0.00	0.00	19.60
rs75915828	Caffeine levels	GCST90200436	3	186890347	A	G	8005	-0.47	0.09	0.00	0.00	28.78
rs12507590	Caffeine levels	GCST90200436	4	120660993	C	T	8005	-0.09	0.02	0.00	0.00	20.92
rs147896165	Caffeine levels	GCST90200436	5	61723596	A	G	8005	-0.36	0.08	0.00	0.00	20.26
rs62424437	Caffeine levels	GCST90200436	6	116766364	T	C	8005	-0.40	0.09	0.00	0.00	21.26
rs150285070	Caffeine levels	GCST90200436	6	139532654	T	C	8005	-0.24	0.05	0.00	0.00	22.24
rs75517156	Caffeine levels	GCST90200436	6	150310633	A	G	8005	-0.11	0.02	0.00	0.00	21.19
rs150047778	Caffeine levels	GCST90200436	7	116118257	C	T	8005	-0.34	0.08	0.00	0.00	19.95
rs4728259	Caffeine levels	GCST90200436	7	132520767	T	C	8005	-0.26	0.05	0.00	0.00	26.59
rs77748985	Caffeine levels	GCST90200436	8	20128685	A	G	8005	-0.28	0.06	0.00	0.00	19.67
rs116559716	Caffeine levels	GCST90200436	9	95447888	A	G	8005	0.39	0.09	0.00	0.00	19.61
rs146690722	Caffeine levels	GCST90200436	11	20824436	A	G	8005	-0.33	0.07	0.00	0.00	20.70
rs645637	Caffeine levels	GCST90200436	11	118634373	A	G	8005	-0.08	0.02	0.00	0.00	22.17
rs9645777	Caffeine levels	GCST90200436	12	96703967	A	G	8005	-0.10	0.02	0.00	0.00	20.52
rs113735011	Caffeine levels	GCST90200436	13	43169860	A	G	8005	-0.47	0.10	0.00	0.00	21.06
rs115520044	Caffeine levels	GCST90200436	14	49488289	A	G	8005	0.28	0.06	0.00	0.00	20.19
rs75565805	Caffeine levels	GCST90200436	14	62528429	G	A	8005	-0.21	0.04	0.00	0.00	21.64
rs8029318	Caffeine levels	GCST90200436	15	24865904	A	G	8005	-0.08	0.02	0.00	0.00	20.19

rs140021197	Caffeine levels	GCST90200436	15	57361427	C	T	8005	-0.35	0.07	0.00	0.00	24.03
rs139553140	Caffeine levels	GCST90200436	17	32624915	T	C	8005	-0.29	0.07	0.00	0.00	19.98
rs6094818	Caffeine levels	GCST90200436	20	47764604	C	T	8005	0.09	0.02	0.00	0.00	20.10
rs2245730	Caffeine levels	GCST90200436	21	42705218	C	A	8005	-0.09	0.02	0.00	0.00	29.51
rs147749579	Caffeine levels	GCST90200436	22	25009823	T	C	8005	-0.18	0.04	0.00	0.00	19.67
rs79404120	Caffeine levels	GCST90200436	22	48665557	C	T	8005	-0.10	0.02	0.00	0.00	21.43
rs116479518	Fructose levels	GCST90200437	1	13523756	T	C	8137	0.39	0.09	0.00	0.00	20.00
rs7531953	Fructose levels	GCST90200437	1	19855693	A	G	8137	-0.07	0.02	0.00	0.00	22.60
rs34015501	Fructose levels	GCST90200437	1	102296995	T	A	8137	-0.33	0.07	0.00	0.00	21.67
rs41267580	Fructose levels	GCST90200437	1	178918665	C	T	8137	0.39	0.08	0.00	0.00	24.38
rs2110491	Fructose levels	GCST90200437	2	75527293	C	A	8137	0.18	0.04	0.00	0.00	23.69
rs7559617	Fructose levels	GCST90200437	2	149279708	C	A	8137	0.08	0.02	0.00	0.00	19.66
rs140779938	Fructose levels	GCST90200437	3	37839837	G	A	8137	0.24	0.05	0.00	0.00	24.11
rs115910844	Fructose levels	GCST90200437	3	126652140	T	C	8137	0.22	0.05	0.00	0.00	22.16
rs76154354	Fructose levels	GCST90200437	4	63397143	C	T	8137	-0.14	0.03	0.00	0.00	21.53
rs114726275	Fructose levels	GCST90200437	4	181487824	T	C	8137	0.24	0.05	0.00	0.00	25.73
rs114634550	Fructose levels	GCST90200437	5	72175436	A	C	8137	0.30	0.07	0.00	0.00	20.47
rs1344346	Fructose levels	GCST90200437	6	157772573	T	C	8137	0.17	0.04	0.00	0.00	19.71
rs77046718	Fructose levels	GCST90200437	6	158872861	A	G	8137	-0.26	0.06	0.00	0.00	19.51
rs140368683	Fructose levels	GCST90200437	7	29229352	A	G	8137	-0.35	0.08	0.00	0.00	20.56
rs740311	Fructose levels	GCST90200437	7	75831249	A	G	8137	0.12	0.02	0.00	0.00	21.95
rs12668357	Fructose levels	GCST90200437	7	91697304	A	G	8137	0.12	0.03	0.00	0.00	19.58
rs75633195	Fructose levels	GCST90200437	10	4303016	C	G	8137	0.38	0.08	0.00	0.00	23.60
rs10886244	Fructose levels	GCST90200437	10	118432814	G	A	8137	-0.07	0.02	0.00	0.00	19.73
rs2057797	Fructose levels	GCST90200437	12	1501087	G	A	8137	-0.08	0.02	0.00	0.00	21.50
rs78770647	Fructose levels	GCST90200437	13	29195663	T	C	8137	0.33	0.07	0.00	0.00	22.86
rs142051919	Fructose levels	GCST90200437	14	57915700	C	T	8137	0.22	0.05	0.00	0.00	21.32
rs12441278	Fructose levels	GCST90200437	15	99523430	A	T	8137	-0.07	0.02	0.00	0.00	21.29
rs12326633	Fructose levels	GCST90200437	18	49576532	C	A	8137	-0.19	0.04	0.00	0.00	21.78
rs17735359	Fructose levels	GCST90200437	18	72912214	A	G	8137	-0.21	0.04	0.00	0.00	22.16
rs55704252	Fructose levels	GCST90200437	22	24349361	A	G	8137	0.15	0.03	0.00	0.00	19.77
rs138898972	Fructose levels	GCST90200437	22	25270600	T	G	8137	-0.14	0.03	0.00	0.00	20.13
rs75813706	Fructose levels	GCST90200437	22	35610652	C	T	8137	0.35	0.08	0.00	0.00	19.90
rs55854535	ketobutyrate levels	GCST90200438	1	40865178	A	G	8192	0.10	0.02	0.00	0.00	19.66
rs1260326	Alpha-ketobutyrate levels	GCST90200438	2	27508073	C	T	8192	-0.07	0.02	0.00	0.00	21.55
rs744927	Alpha-ketobutyrate levels	GCST90200438	2	119490335	G	A	8192	0.10	0.02	0.00	0.00	24.10
rs17132647	Alpha-ketobutyrate levels	GCST90200438	4	2489968	A	G	8192	-0.12	0.02	0.00	0.00	21.33
rs10022462	Alpha-ketobutyrate levels	GCST90200438	4	88322666	T	C	8192	-0.07	0.02	0.00	0.00	20.06
rs111994181	Alpha-ketobutyrate levels	GCST90200438	5	88385938	G	A	8192	0.24	0.05	0.00	0.00	22.27
rs117246538	Alpha-ketobutyrate levels	GCST90200438	7	158136278	A	G	8192	0.26	0.06	0.00	0.00	20.72
rs530515	Alpha-ketobutyrate levels	GCST90200438	8	13025178	G	T	8192	0.07	0.02	0.00	0.00	19.80
rs144727225	Alpha-ketobutyrate levels	GCST90200438	8	82629961	T	C	8192	-0.23	0.05	0.00	0.00	19.75
rs116875736	Alpha-ketobutyrate levels	GCST90200438	11	20510100	A	G	8192	-0.19	0.04	0.00	0.00	22.69

rs14245477 2	Alpha- ketobutyrate levels	GCST90200438	11	42892790	T	C	8192	-0.42	0.09	0.00	0.00	23.12
rs11068128	Alpha- ketobutyrate levels	GCST90200438	12	116652870	T	G	8192	-0.08	0.02	0.00	0.00	21.61
rs75285293	Alpha- ketobutyrate levels	GCST90200438	14	94386459	C	T	8192	0.21	0.05	0.00	0.00	19.81
rs79259434	Alpha- ketobutyrate levels	GCST90200438	18	40961735	G	T	8192	0.22	0.05	0.00	0.00	21.12
rs559432	Alpha- ketobutyrate levels	GCST90200438	19	52530474	C	T	8192	-0.07	0.02	0.00	0.00	20.01
rs131525	Alpha- ketobutyrate levels	GCST90200438	22	16388785	A	G	8192	-0.09	0.02	0.00	0.00	21.34
rs11361586 4	Alpha- ketobutyrate levels	GCST90200438	22	26539641	T	C	8192	0.22	0.05	0.00	0.00	20.60
rs13877608 2	Cysteine levels	GCST90200439	1	61868638	G	A	8216	0.26	0.06	0.00	0.00	21.15
rs66995637	Cysteine levels	GCST90200439	1	116735719	T	C	8216	-0.08	0.02	0.00	0.00	20.14
rs12054209	Cysteine levels	GCST90200439	3	150683031	T	G	8216	0.09	0.02	0.00	0.00	22.24
rs62487233	Cysteine levels	GCST90200439	7	143518793	G	T	8216	0.13	0.03	0.00	0.00	20.49
rs11718962 8	Cysteine levels	GCST90200439	8	9302798	G	A	8216	-0.22	0.05	0.00	0.00	22.50
rs34748049	Cysteine levels	GCST90200439	9	10352232	A	T	8216	-0.15	0.03	0.00	0.00	20.55
rs18842133 2	Cysteine levels	GCST90200439	10	98288864	A	G	8216	0.19	0.04	0.00	0.00	19.85
rs56307755	Cysteine levels	GCST90200439	17	3919632	T	C	8216	0.10	0.02	0.00	0.00	22.00
rs56181922	Cysteine levels	GCST90200439	17	73979910	G	T	8216	0.35	0.07	0.00	0.00	23.01
rs4121515	Cysteine levels	GCST90200439	18	297609	T	C	8216	-0.65	0.14	0.00	0.00	22.06
rs14873070 8	Cysteine levels	GCST90200439	18	14090071	T	C	8216	-0.31	0.07	0.00	0.00	20.82
rs1539958	Cysteine levels	GCST90200439	18	61905510	G	A	8216	0.08	0.02	0.00	0.00	24.33
rs62235542	Cysteine levels	GCST90200439	21	39755443	T	C	8216	-0.08	0.02	0.00	0.00	22.53
rs11150593 1	Cysteine levels	GCST90200439	21	41708775	A	G	8216	-0.18	0.04	0.00	0.00	20.95
rs77736323	Cysteine levels	GCST90200439	22	27644578	G	A	8216	0.19	0.04	0.00	0.00	21.14
rs4653831	Blood sugar levels	GCST90200440	1	227365618	A	G	8123	-0.07	0.02	0.00	0.00	19.68
rs11681856	Blood sugar levels	GCST90200440	2	40443035	C	A	8123	0.10	0.02	0.00	0.00	21.29
rs560887	Blood sugar levels	GCST90200440	2	168906638	C	T	8123	0.08	0.02	0.00	0.00	25.28
rs12693205	Blood sugar levels	GCST90200440	2	179740265	C	T	8123	-0.07	0.02	0.00	0.00	19.52
rs1233267	Blood sugar levels	GCST90200440	2	189807959	A	T	8123	-0.25	0.06	0.00	0.00	19.60
rs13036096	Blood sugar levels	GCST90200440	2	237643540	G	C	8123	0.07	0.02	0.00	0.00	21.78
rs11623614 3	Blood sugar levels	GCST90200440	4	53897767	A	G	8123	0.23	0.05	0.00	0.00	24.37
rs79383639	Blood sugar levels	GCST90200440	4	63891861	T	A	8123	-0.23	0.05	0.00	0.00	20.32
rs6866652	Blood sugar levels	GCST90200440	5	137179699	C	T	8123	0.07	0.02	0.00	0.00	22.94
rs9458755	Blood sugar levels	GCST90200440	6	163221651	A	G	8123	-0.09	0.02	0.00	0.00	22.43
rs78846929	Blood sugar levels	GCST90200440	6	163387034	A	G	8123	1.04	0.20	0.00	0.00	28.11
rs1799884	Blood sugar levels	GCST90200440	7	44189469	T	C	8123	0.10	0.02	0.00	0.00	25.76
rs7795555	Blood sugar levels	GCST90200440	7	154104933	G	C	8123	0.13	0.03	0.00	0.00	19.75
rs11702930 1	Blood sugar levels	GCST90200440	9	93464785	C	G	8123	0.25	0.05	0.00	0.00	20.59
rs12802613	Blood sugar levels	GCST90200440	11	114520082	A	G	8123	-0.25	0.06	0.00	0.00	19.78
rs13877862 3	Blood sugar levels	GCST90200440	12	83796767	C	G	8123	-0.33	0.07	0.00	0.00	19.56

rs12871654	Blood sugar levels	GCST90200440	13	47858226	C	G	8123	0.08	0.02	0.00	0.00	24.19
rs145375738	Blood sugar levels	GCST90200440	13	62177080	A	T	8123	0.39	0.08	0.00	0.00	25.02
rs57917059	Blood sugar levels	GCST90200440	14	62080334	A	C	8123	0.12	0.03	0.00	0.00	20.64
rs116979168	Blood sugar levels	GCST90200440	15	27704450	A	G	8123	0.16	0.04	0.00	0.00	20.24
rs8041505	Blood sugar levels	GCST90200440	15	87886480	A	G	8123	-0.19	0.04	0.00	0.00	22.31
rs11076525	Blood sugar levels	GCST90200440	16	50253273	G	T	8123	0.20	0.04	0.00	0.00	26.44
rs74937563	Blood sugar levels	GCST90200440	16	65902743	C	G	8123	0.46	0.10	0.00	0.00	19.53
rs72834143	Blood sugar levels	GCST90200440	17	50430152	A	G	8123	0.32	0.07	0.00	0.00	20.68
rs55659339	Tryptophan levels	GCST90200441	2	160227295	C	A	8235	0.16	0.04	0.00	0.00	20.55
rs2072570	Tryptophan levels	GCST90200441	2	207254319	A	G	8235	0.07	0.01	0.00	0.00	20.31
rs4555674	Tryptophan levels	GCST90200441	4	62629612	C	T	8235	0.07	0.02	0.00	0.00	19.77
rs985335	Tryptophan levels	GCST90200441	4	155856376	C	T	8235	-0.13	0.02	0.00	0.00	39.69
rs34393758	Tryptophan levels	GCST90200441	5	24854942	G	A	8235	0.07	0.02	0.00	0.00	21.97
rs7728649	Tryptophan levels	GCST90200441	5	126174912	C	T	8235	-0.16	0.04	0.00	0.00	19.84
rs12519130	Tryptophan levels	GCST90200441	5	133275491	T	C	8235	-0.08	0.02	0.00	0.00	22.38
rs17057833	Tryptophan levels	GCST90200441	5	160469890	T	C	8235	0.13	0.03	0.00	0.00	20.55
rs1742936	Tryptophan levels	GCST90200441	6	6308783	T	G	8235	0.07	0.02	0.00	0.00	19.90
rs2009653	Tryptophan levels	GCST90200441	6	22272258	A	G	8235	0.08	0.02	0.00	0.00	23.88
rs1216019	Tryptophan levels	GCST90200441	6	111181991	C	T	8235	-0.10	0.02	0.00	0.00	39.14
rs2228595	Tryptophan levels	GCST90200441	7	86786671	T	C	8235	0.14	0.03	0.00	0.00	19.63
rs139084742	Tryptophan levels	GCST90200441	8	60350682	T	C	8235	-0.25	0.05	0.00	0.00	21.53
rs7954542	Tryptophan levels	GCST90200441	12	21223575	T	C	8235	-0.08	0.02	0.00	0.00	25.66
rs112200836	Tryptophan levels	GCST90200441	12	44455362	C	T	8235	0.16	0.03	0.00	0.00	24.88
rs111581932	Tryptophan levels	GCST90200441	12	91127512	T	C	8235	-0.19	0.04	0.00	0.00	23.26
rs148166879	Tryptophan levels	GCST90200441	13	63627416	G	A	8235	-0.23	0.05	0.00	0.00	19.59
rs8020141	Tryptophan levels	GCST90200441	14	40391488	T	A	8235	-0.12	0.03	0.00	0.00	19.76
rs76476599	Tryptophan levels	GCST90200441	18	56650193	G	A	8235	0.33	0.07	0.00	0.00	23.01
rs10403542	Tryptophan levels	GCST90200441	19	13586223	C	T	8235	0.09	0.02	0.00	0.00	20.59
rs12971669	Tryptophan levels	GCST90200441	19	35239235	A	G	8235	0.07	0.02	0.00	0.00	19.84
rs34567790	Tryptophan levels	GCST90200441	20	58462549	T	C	8235	-0.14	0.03	0.00	0.00	22.27
rs145246055	Tryptophan levels	GCST90200441	21	22880282	G	A	8235	0.35	0.08	0.00	0.00	19.55
rs155647	Valine levels	GCST90200442	1	112144879	G	A	8247	0.07	0.02	0.00	0.00	20.70
rs62110520	Valine levels	GCST90200442	2	6092142	T	C	8247	0.15	0.03	0.00	0.00	24.49
rs56289181	Valine levels	GCST90200442	2	79214202	C	T	8247	0.09	0.02	0.00	0.00	19.66
rs74625392	Valine levels	GCST90200442	2	216775497	T	C	8247	0.15	0.03	0.00	0.00	19.51
rs148543888	Valine levels	GCST90200442	3	73991466	T	C	8247	-0.29	0.07	0.00	0.00	20.16
rs73158634	Valine levels	GCST90200442	3	152685455	G	T	8247	0.32	0.07	0.00	0.00	19.57
rs73732164	Valine levels	GCST90200442	5	1655378	G	C	8247	-0.10	0.02	0.00	0.00	21.12
rs59027883	Valine levels	GCST90200442	5	31577187	A	G	8247	0.12	0.03	0.00	0.00	19.57
rs6930584	Valine levels	GCST90200442	6	89973842	A	G	8247	0.10	0.02	0.00	0.00	25.80
rs11964178	Valine levels	GCST90200442	6	109240832	G	A	8247	-0.07	0.02	0.00	0.00	20.27
rs28473276	Valine levels	GCST90200442	7	25568915	G	T	8247	-0.10	0.02	0.00	0.00	20.75

rs7779835	Valine levels	GCST90200442	7	80057667	C	T	8247	0.25	0.05	0.00	0.00	24.12
rs117236120	Valine levels	GCST90200442	9	13844249	T	C	8247	-0.18	0.04	0.00	0.00	20.80
rs117989810	Valine levels	GCST90200442	9	76363714	C	T	8247	0.17	0.04	0.00	0.00	21.39
rs2505957	Valine levels	GCST90200442	10	26890962	A	G	8247	-0.30	0.07	0.00	0.00	20.30
rs3814215	Valine levels	GCST90200442	10	84138158	A	C	8247	0.13	0.03	0.00	0.00	23.32
rs11231926	Valine levels	GCST90200442	11	65025114	C	G	8247	0.16	0.03	0.00	0.00	20.59
rs145150132	Valine levels	GCST90200442	13	69504553	C	T	8247	0.25	0.06	0.00	0.00	19.61
rs6504777	Valine levels	GCST90200442	17	52478858	T	C	8247	0.07	0.02	0.00	0.00	20.26
rs117251152	Valine levels	GCST90200442	18	25075350	A	G	8247	0.24	0.05	0.00	0.00	24.56
rs62094372	Valine levels	GCST90200442	18	51292041	A	G	8247	0.09	0.02	0.00	0.00	21.71
rs111530035	Valine levels	GCST90200442	18	78078276	G	C	8247	-0.14	0.03	0.00	0.00	20.60
rs141819216	Pseudouridine levels	GCST90200443	1	94077403	G	A	8213	0.26	0.06	0.00	0.00	20.47
rs2276561	Pseudouridine levels	GCST90200443	2	113198794	C	G	8213	-0.07	0.01	0.00	0.00	19.85
rs1317659	Pseudouridine levels	GCST90200443	2	236136582	C	T	8213	-0.08	0.02	0.00	0.00	21.33
rs62261564	Pseudouridine levels	GCST90200443	3	76485002	C	T	8213	0.16	0.04	0.00	0.00	19.96
rs2029019	Pseudouridine levels	GCST90200443	3	104027341	C	T	8213	-0.07	0.01	0.00	0.00	21.44
rs711972	Pseudouridine levels	GCST90200443	3	136391176	T	C	8213	0.07	0.01	0.00	0.00	22.51
rs10029860	Pseudouridine levels	GCST90200443	4	76489948	A	C	8213	0.09	0.01	0.00	0.01	41.31
rs78006981	Pseudouridine levels	GCST90200443	4	112710342	A	G	8213	0.17	0.04	0.00	0.00	21.99
rs73850513	Pseudouridine levels	GCST90200443	4	138310588	T	C	8213	-0.10	0.02	0.00	0.00	21.06
rs4913051	Pseudouridine levels	GCST90200443	5	145904236	A	G	8213	-0.13	0.03	0.00	0.00	21.03
rs28473373	Pseudouridine levels	GCST90200443	5	177529598	C	G	8213	-0.16	0.03	0.00	0.00	22.41
rs1665914	Pseudouridine levels	GCST90200443	6	107008202	T	C	8213	-0.07	0.02	0.00	0.00	21.55
rs36009197	Pseudouridine levels	GCST90200443	6	130124979	T	A	8213	-0.10	0.02	0.00	0.00	19.95
rs11595998	Pseudouridine levels	GCST90200443	10	127645067	A	G	8213	0.07	0.02	0.00	0.00	19.72
rs148608463	Pseudouridine levels	GCST90200443	12	120975224	A	G	8213	0.08	0.02	0.00	0.00	25.99
rs150297213	Pseudouridine levels	GCST90200443	14	40784449	G	C	8213	0.20	0.04	0.00	0.00	21.58
rs75538780	Pseudouridine levels	GCST90200443	14	57596971	C	G	8213	0.10	0.02	0.00	0.00	21.92
rs11073839	Pseudouridine levels	GCST90200443	15	84950916	A	G	8213	-0.11	0.02	0.00	0.00	29.31
rs77924615	Pseudouridine levels	GCST90200443	16	20381010	A	G	8213	-0.10	0.02	0.00	0.00	31.08
rs149866023	Pseudouridine levels	GCST90200443	17	65593398	T	C	8213	-0.23	0.05	0.00	0.00	20.21
rs8091384	Pseudouridine levels	GCST90200443	18	11087708	C	G	8213	0.06	0.01	0.00	0.00	19.62
rs16942363	Pseudouridine levels	GCST90200443	18	26489985	T	C	8213	0.29	0.06	0.00	0.00	19.92
rs1019213	Pseudouridine levels	GCST90200443	19	46225995	G	A	8213	-0.07	0.02	0.00	0.00	19.62
rs10411485	Pseudouridine levels	GCST90200443	19	47046732	T	C	8213	-0.28	0.06	0.00	0.00	22.78
rs35042303	Pseudouridine levels	GCST90200443	20	52070514	T	C	8213	0.13	0.03	0.00	0.00	19.67
rs1342862	Dihydroorotate levels	GCST90200444	1	72191375	T	C	8195	-0.15	0.03	0.00	0.00	20.67
rs114664697	Dihydroorotate levels	GCST90200444	1	187793134	G	A	8195	0.24	0.05	0.00	0.00	25.29
rs11204523	Dihydroorotate levels	GCST90200444	1	247857254	C	G	8195	0.09	0.02	0.00	0.00	22.33
rs1430158	Dihydroorotate levels	GCST90200444	2	182397401	C	T	8195	-0.08	0.02	0.00	0.00	22.86

rs79411487	Dihydroorotate levels	GCST90200444	3	187972767	A	G	8195	0.18	0.04	0.00	0.00	25.81
rs31994	Dihydroorotate levels	GCST90200444	5	14699473	T	C	8195	-0.16	0.04	0.00	0.00	20.17
rs35942	Dihydroorotate levels	GCST90200444	5	54307763	C	G	8195	-0.13	0.02	0.00	0.00	38.46
rs55747751	Dihydroorotate levels	GCST90200444	5	133061659	A	G	8195	0.15	0.03	0.00	0.00	27.25
rs9392237	Dihydroorotate levels	GCST90200444	6	8685827	G	C	8195	-0.09	0.02	0.00	0.00	23.12
rs12213063	Dihydroorotate levels	GCST90200444	6	65959997	C	T	8195	0.08	0.02	0.00	0.00	21.90
rs11978705	Dihydroorotate levels	GCST90200444	7	5169118	C	G	8195	-0.12	0.03	0.00	0.00	21.75
rs6976036	Dihydroorotate levels	GCST90200444	7	50361744	C	T	8195	0.07	0.02	0.00	0.00	22.40
rs539394015	Dihydroorotate levels	GCST90200444	7	104082473	T	C	8195	-0.31	0.06	0.00	0.00	23.12
rs144364297	Dihydroorotate levels	GCST90200444	7	125896540	A	T	8195	-0.26	0.06	0.00	0.00	19.86
rs151092725	Dihydroorotate levels	GCST90200444	8	52958864	A	G	8195	0.29	0.06	0.00	0.00	20.25
rs13377112	Dihydroorotate levels	GCST90200444	10	24568466	A	T	8195	0.08	0.02	0.00	0.00	22.89
rs7920657	Dihydroorotate levels	GCST90200444	10	102873487	A	T	8195	-0.11	0.02	0.00	0.00	39.56
rs61861927	Dihydroorotate levels	GCST90200444	10	124471926	A	G	8195	0.12	0.02	0.00	0.01	61.11
rs9787854	Dihydroorotate levels	GCST90200444	11	42026095	C	A	8195	-0.08	0.02	0.00	0.00	20.12
rs2958542	Dihydroorotate levels	GCST90200444	11	62414410	T	C	8195	0.07	0.02	0.00	0.00	21.26
rs2236659	Dihydroorotate levels	GCST90200444	11	123062473	G	A	8195	0.26	0.04	0.00	0.01	46.29
rs8032081	Dihydroorotate levels	GCST90200444	15	78247319	G	A	8195	-0.29	0.02	0.00	0.04	350.87
rs12442376	Dihydroorotate levels	GCST90200444	15	78267425	G	T	8195	0.14	0.02	0.00	0.01	71.73
rs61733129	Dihydroorotate levels	GCST90200444	16	72023522	T	C	8195	0.25	0.04	0.00	0.00	30.84
rs68149176	Dihydroorotate levels	GCST90200444	16	87852884	T	C	8195	0.10	0.02	0.00	0.00	28.79
rs2857078	Dihydroorotate levels	GCST90200444	17	44252803	C	A	8195	-0.09	0.02	0.00	0.00	28.12
rs12373213	Dihydroorotate levels	GCST90200444	18	28081781	A	G	8195	-0.19	0.04	0.00	0.00	20.44
rs10401994	Dihydroorotate levels	GCST90200444	19	6096648	G	A	8195	-0.13	0.03	0.00	0.00	21.39
rs10407646	Dihydroorotate levels	GCST90200444	19	49897842	G	A	8195	-0.11	0.02	0.00	0.00	20.23
rs116836933	Dihydroorotate levels	GCST90200444	21	42308344	A	G	8195	0.29	0.06	0.00	0.00	20.45
rs12123333	Caprylate (8:0) levels	GCST90200445	1	51831387	A	T	8163	0.10	0.02	0.00	0.00	20.39
rs12094842	Caprylate (8:0) levels	GCST90200445	1	75783905	A	G	8163	-0.12	0.02	0.00	0.01	56.73
rs2287634	Caprylate (8:0) levels	GCST90200445	2	159336859	A	T	8163	-0.08	0.02	0.00	0.00	19.59
rs13405453	Caprylate (8:0) levels	GCST90200445	2	170582714	G	A	8163	0.34	0.07	0.00	0.00	23.08
rs12630356	Caprylate (8:0) levels	GCST90200445	3	103374293	G	A	8163	-0.11	0.02	0.00	0.00	21.09
rs4444743	Caprylate (8:0) levels	GCST90200445	3	107002532	A	G	8163	0.11	0.02	0.00	0.00	24.18
rs145372320	Caprylate (8:0) levels	GCST90200445	3	163876285	G	A	8163	0.21	0.05	0.00	0.00	19.71
rs142207406	Caprylate (8:0) levels	GCST90200445	4	133028514	T	C	8163	-0.29	0.06	0.00	0.00	22.97
rs13160166	Caprylate (8:0) levels	GCST90200445	5	85911813	G	A	8163	-0.15	0.03	0.00	0.00	23.18
rs149459084	Caprylate (8:0) levels	GCST90200445	5	99147179	T	C	8163	0.21	0.05	0.00	0.00	19.54
rs6580191	Caprylate (8:0) levels	GCST90200445	5	141585961	A	G	8163	0.10	0.02	0.00	0.00	20.28

rs12193109	Caprylate (8:0) levels	GCST90200445	6	56326810	G	A	8163	0.16	0.03	0.00	0.00	23.32
rs11970794	Caprylate (8:0) levels	GCST90200445	7	15983936	A	G	8163	-0.11	0.02	0.00	0.00	20.38
rs14045660 9	Caprylate (8:0) levels	GCST90200445	8	49992221	C	A	8163	0.39	0.08	0.00	0.00	24.02
rs2453554	Caprylate (8:0) levels	GCST90200445	9	27561802	T	C	8163	-0.09	0.02	0.00	0.00	23.58
rs10812806	Caprylate (8:0) levels	GCST90200445	9	28401614	T	A	8163	0.08	0.02	0.00	0.00	21.19
rs911992	Caprylate (8:0) levels	GCST90200445	11	35942861	C	A	8163	0.08	0.02	0.00	0.00	21.51
rs3213922	Caprylate (8:0) levels	GCST90200445	12	68648715	G	A	8163	1.78	0.37	0.00	0.00	22.66
rs61961949	Caprylate (8:0) levels	GCST90200445	13	74901249	C	G	8163	0.20	0.04	0.00	0.00	23.48
rs75758266	Caprylate (8:0) levels	GCST90200445	15	27601119	A	G	8163	-0.31	0.06	0.00	0.00	23.46
rs1440374	Caprylate (8:0) levels	GCST90200445	15	66743724	C	T	8163	-0.09	0.02	0.00	0.00	19.88
rs2584680	Caprylate (8:0) levels	GCST90200445	17	49453708	T	C	8163	0.10	0.02	0.00	0.00	19.80
rs9619637	Caprylate (8:0) levels	GCST90200445	22	36862609	C	G	8163	-0.10	0.02	0.00	0.00	22.94
rs1998715	Arachidate (20:0) levels	GCST90200446	1	56027763	C	G	8228	0.07	0.02	0.00	0.00	22.24
rs11592346 0	Arachidate (20:0) levels	GCST90200446	1	97904882	T	A	8228	0.28	0.06	0.00	0.00	19.94
rs1736555	Arachidate (20:0) levels	GCST90200446	1	171089111	G	A	8228	0.08	0.02	0.00	0.00	19.83
rs14377186 7	Arachidate (20:0) levels	GCST90200446	1	214723368	A	G	8228	-0.20	0.04	0.00	0.00	21.15
rs79812662	Arachidate (20:0) levels	GCST90200446	2	6573277	A	C	8228	0.28	0.06	0.00	0.00	20.71
rs6754993	Arachidate (20:0) levels	GCST90200446	2	64829146	A	G	8228	-0.32	0.07	0.00	0.00	20.77
rs75844056	Arachidate (20:0) levels	GCST90200446	3	61401018	T	G	8228	0.17	0.04	0.00	0.00	22.02
rs9862096	Arachidate (20:0) levels	GCST90200446	3	190964201	G	T	8228	0.17	0.04	0.00	0.00	20.80
rs72728621	Arachidate (20:0) levels	GCST90200446	4	142718432	A	C	8228	-0.11	0.02	0.00	0.00	25.15
rs10014286	Arachidate (20:0) levels	GCST90200446	4	165167959	C	T	8228	-0.09	0.02	0.00	0.00	20.07
rs11517253 1	Arachidate (20:0) levels	GCST90200446	5	54593445	A	G	8228	-0.25	0.06	0.00	0.00	20.61
rs11755828	Arachidate (20:0) levels	GCST90200446	6	88555840	A	G	8228	-0.13	0.03	0.00	0.00	20.50
rs7782319	Arachidate (20:0) levels	GCST90200446	7	18883952	G	A	8228	-0.07	0.02	0.00	0.00	19.52
rs11272640 9	Arachidate (20:0) levels	GCST90200446	7	102249172	A	G	8228	0.10	0.02	0.00	0.00	20.13
rs53951165 6	Arachidate (20:0) levels	GCST90200446	9	38917231	A	G	8228	0.36	0.08	0.00	0.00	20.55
rs11143057	Arachidate (20:0) levels	GCST90200446	9	72009175	A	T	8228	-0.07	0.02	0.00	0.00	20.65
rs11757889 8	Arachidate (20:0) levels	GCST90200446	9	88026293	T	A	8228	-0.34	0.07	0.00	0.00	22.64
rs14697216 1	Arachidate (20:0) levels	GCST90200446	13	58510313	G	A	8228	0.50	0.10	0.00	0.00	22.61
rs75479618	Arachidate (20:0) levels	GCST90200446	13	73841806	G	T	8228	-0.16	0.04	0.00	0.00	20.47
rs3783825	Arachidate (20:0) levels	GCST90200446	14	59094291	A	T	8228	-0.07	0.02	0.00	0.00	21.37
rs2127996	Arachidate (20:0) levels	GCST90200446	17	14366430	A	G	8228	-0.09	0.02	0.00	0.00	19.75
rs76212203	Arachidate (20:0) levels	GCST90200446	18	36712318	A	G	8228	0.20	0.05	0.00	0.00	20.17
rs11753184 9	Arachidate (20:0) levels	GCST90200446	18	77828176	C	A	8228	0.31	0.07	0.00	0.00	22.22
rs14184463 7	Arachidate (20:0) levels	GCST90200446	20	2079652	A	C	8228	0.25	0.06	0.00	0.00	20.07
rs10211727	Arachidate (20:0) levels	GCST90200446	20	51194339	C	T	8228	-0.18	0.04	0.00	0.00	23.77

rs75367138	Arachidate (20:0) levels	GCST90200446	22	32286290	C	G	8228	0.10	0.02	0.00	0.00	22.61
rs14905318 7	Maltose levels in coronary artery disease	GCST90200447	1	56014796	C	T	6351	0.46	0.10	0.00	0.00	20.14
rs75041888	Maltose levels in coronary artery disease	GCST90200447	1	60043025	A	G	6351	-0.33	0.07	0.00	0.00	19.92
rs6689719	Maltose levels in coronary artery disease	GCST90200447	1	91569746	A	G	6351	-0.10	0.02	0.00	0.00	21.09
rs11600065 0	Maltose levels in coronary artery disease	GCST90200447	1	170678947	T	C	6351	0.23	0.05	0.00	0.00	21.29
rs17731501	Maltose levels in coronary artery disease	GCST90200447	2	1461193	T	C	6351	-0.09	0.02	0.00	0.00	25.28
rs67736553	Maltose levels in coronary artery disease	GCST90200447	2	216008629	G	A	6351	-0.09	0.02	0.00	0.00	22.86
rs71596066	Maltose levels in coronary artery disease	GCST90200447	4	81360846	G	T	6351	-0.25	0.05	0.00	0.00	24.37
rs14002540 2	Maltose levels in coronary artery disease	GCST90200447	4	157127294	G	A	6351	0.29	0.06	0.00	0.00	20.18
rs73869758	Maltose levels in coronary artery disease	GCST90200447	4	180313840	T	C	6351	0.12	0.03	0.00	0.00	20.60
rs918511	Maltose levels in coronary artery disease	GCST90200447	5	129165069	A	G	6351	-0.08	0.02	0.00	0.00	21.19
rs2431274	Maltose levels in coronary artery disease	GCST90200447	5	169475901	C	A	6351	-0.08	0.02	0.00	0.00	20.12
rs9460799	Maltose levels in coronary artery disease	GCST90200447	6	22907309	T	C	6351	-0.08	0.02	0.00	0.00	22.81
rs9271642	Maltose levels in coronary artery disease	GCST90200447	6	32624442	G	A	6351	-0.08	0.02	0.00	0.00	19.69
rs14697584 0	Maltose levels in coronary artery disease	GCST90200447	6	46610092	G	A	6351	-0.37	0.08	0.00	0.00	20.69
rs76087794	Maltose levels in coronary artery disease	GCST90200447	6	152173553	A	T	6351	-0.25	0.06	0.00	0.00	20.22
rs55793514 3	Maltose levels in coronary artery disease	GCST90200447	7	17177308	G	T	6351	1.80	0.40	0.00	0.00	20.74
rs76313684	Maltose levels in coronary artery disease	GCST90200447	7	137533323	T	C	6351	-0.53	0.12	0.00	0.00	19.99
rs4963417	Maltose levels in coronary artery disease	GCST90200447	11	63433988	C	A	6351	0.22	0.04	0.00	0.00	26.08
rs471539	Maltose levels in coronary artery disease	GCST90200447	11	74260148	A	G	6351	-0.09	0.02	0.00	0.00	22.24
rs10842404	Maltose levels in coronary artery disease	GCST90200447	12	24775225	C	A	6351	-0.09	0.02	0.00	0.00	19.52
rs12591611	Maltose levels in coronary artery disease	GCST90200447	15	38981499	T	C	6351	0.27	0.06	0.00	0.00	20.95
rs62004650	Maltose levels in coronary artery disease	GCST90200447	15	62787963	G	A	6351	-0.37	0.08	0.00	0.00	20.61
rs7249209	Maltose levels in coronary artery disease	GCST90200447	19	44139120	C	A	6351	0.09	0.02	0.00	0.00	26.05

rs6745696	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	2	18700777	A	G	6737	-0.08	0.02	0.00	0.00	19.73
rs990175	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	3	71965086	A	T	6737	0.08	0.02	0.00	0.00	20.39
rs146323532	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	3	130812330	T	C	6737	0.41	0.09	0.00	0.00	20.16
rs6812511	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	4	108803452	C	T	6737	-0.17	0.04	0.00	0.00	20.23
rs192513421	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	6	96441049	C	T	6737	-0.43	0.09	0.00	0.00	22.17
rs6998594	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	8	8991483	C	T	6737	0.08	0.02	0.00	0.00	20.67
rs77849541	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	9	19809262	T	C	6737	-0.70	0.14	0.00	0.00	23.84
rs11010668	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	10	36443088	A	T	6737	0.27	0.06	0.00	0.00	21.56
rs117943038	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	11	86262609	A	C	6737	-0.28	0.06	0.00	0.00	19.93
rs12820348	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	12	74625975	C	G	6737	0.11	0.02	0.00	0.00	20.84
rs11840151	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	13	72529228	T	C	6737	0.19	0.04	0.00	0.00	19.73
rs17674205	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	15	78169115	G	A	6737	-0.14	0.03	0.00	0.00	19.82
rs148867950	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	17	11755491	C	T	6737	-0.59	0.13	0.00	0.00	20.42
rs4797281	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	18	7147393	C	T	6737	0.10	0.02	0.00	0.00	29.16
rs3940896	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	19	34574582	T	C	6737	0.08	0.02	0.00	0.00	20.21
rs364585	N-stearoyl-sphinganine (d18:0/18:0) levels	GCST90200448	20	12982070	G	A	6737	-0.11	0.02	0.00	0.01	42.79
rs1207936	Sucrose levels	GCST90200449	1	59745471	T	G	7803	-0.10	0.02	0.00	0.00	21.83
rs184879286	Sucrose levels	GCST90200449	2	148713519	A	T	7803	0.22	0.05	0.00	0.00	22.88
rs116313640	Sucrose levels	GCST90200449	2	183677359	C	T	7803	-0.70	0.16	0.00	0.00	19.95
rs10932778	Sucrose levels	GCST90200449	2	218334345	G	A	7803	-0.14	0.03	0.00	0.00	20.57
rs6737422	Sucrose levels	GCST90200449	2	227944103	A	G	7803	0.09	0.02	0.00	0.00	28.91
rs75926668	Sucrose levels	GCST90200449	3	46915887	A	G	7803	-0.19	0.04	0.00	0.00	26.67
rs1320070	Sucrose levels	GCST90200449	4	7926455	G	A	7803	0.08	0.02	0.00	0.00	23.61

rs139180451	Sucrose levels	GCST90200449	6	9008156	G	A	7803	0.43	0.10	0.00	0.00	19.72
rs190999339	Sucrose levels	GCST90200449	10	62165570	T	C	7803	0.33	0.07	0.00	0.00	21.15
rs7094137	Sucrose levels	GCST90200449	10	98084965	G	A	7803	0.07	0.02	0.00	0.00	19.97
rs3802860	Sucrose levels	GCST90200449	11	115606197	T	A	7803	-0.14	0.03	0.00	0.00	19.84
rs148274336	Sucrose levels	GCST90200449	15	53938873	C	G	7803	0.17	0.04	0.00	0.00	21.76
rs12439305	Sucrose levels	GCST90200449	15	97756607	A	T	7803	0.25	0.06	0.00	0.00	20.26
rs2286795	Sucrose levels	GCST90200449	17	15980495	T	C	7803	-0.07	0.02	0.00	0.00	19.84
rs9959371	Sucrose levels	GCST90200449	18	58651778	T	A	7803	0.08	0.02	0.00	0.00	21.49
rs117695787	Sucrose levels	GCST90200449	18	63444447	T	G	7803	-0.22	0.05	0.00	0.00	20.30
rs141829318	Sucrose levels	GCST90200449	22	23423296	G	C	7803	-0.19	0.04	0.00	0.00	20.07
rs77277881	Caproate (6:0) levels	GCST90200450	1	19722845	A	G	7564	0.35	0.07	0.00	0.00	25.50
rs12087626	Caproate (6:0) levels	GCST90200450	1	75682788	A	C	7564	-0.19	0.02	0.00	0.02	122.48
rs187444803	Caproate (6:0) levels	GCST90200450	1	240101960	A	G	7564	0.32	0.07	0.00	0.00	20.75
rs59354201	Caproate (6:0) levels	GCST90200450	2	227254935	G	C	7564	0.80	0.18	0.00	0.00	20.13
rs7653229	Caproate (6:0) levels	GCST90200450	3	58913907	T	A	7564	0.24	0.04	0.00	0.00	28.32
rs7699323	Caproate (6:0) levels	GCST90200450	4	16438266	G	A	7564	-0.16	0.03	0.00	0.00	22.15
rs34615322	Caproate (6:0) levels	GCST90200450	4	116517469	A	G	7564	0.10	0.02	0.00	0.00	23.75
rs73031046	Caproate (6:0) levels	GCST90200450	4	188327204	A	C	7564	0.17	0.04	0.00	0.00	19.55
rs71567664	Caproate (6:0) levels	GCST90200450	6	162624711	T	C	7564	0.36	0.07	0.00	0.00	24.55
rs13254568	Caproate (6:0) levels	GCST90200450	8	11656635	T	C	7564	-0.10	0.02	0.00	0.00	21.14
rs77246088	Caproate (6:0) levels	GCST90200450	9	119512686	G	A	7564	0.32	0.07	0.00	0.00	23.50
rs35224423	Caproate (6:0) levels	GCST90200450	11	2142979	C	G	7564	0.41	0.08	0.00	0.00	23.86
rs140409422	Caproate (6:0) levels	GCST90200450	11	15426894	C	T	7564	0.26	0.06	0.00	0.00	20.20
rs61908034	Caproate (6:0) levels	GCST90200450	12	1985021	C	T	7564	0.20	0.04	0.00	0.00	21.15
rs71459199	Caproate (6:0) levels	GCST90200450	12	15975035	A	G	7564	0.11	0.02	0.00	0.00	23.34
rs77389939	Caproate (6:0) levels	GCST90200450	12	70904391	C	T	7564	0.15	0.03	0.00	0.00	22.31
rs68146491	Caproate (6:0) levels	GCST90200450	14	24694683	G	A	7564	-0.13	0.03	0.00	0.00	22.37
rs12901570	Caproate (6:0) levels	GCST90200450	15	98710393	T	C	7564	0.15	0.03	0.00	0.00	22.31
rs75716342	Caproate (6:0) levels	GCST90200450	16	64741791	A	G	7564	-0.39	0.09	0.00	0.00	19.57
rs9938591	Caproate (6:0) levels	GCST90200450	16	68650751	C	T	7564	-0.24	0.05	0.00	0.00	20.40
rs1801761	Caproate (6:0) levels	GCST90200450	17	2381004	T	C	7564	-0.30	0.07	0.00	0.00	20.01
rs147982581	Caproate (6:0) levels	GCST90200450	17	42956437	G	T	7564	0.42	0.09	0.00	0.00	20.98
rs75854299	Caproate (6:0) levels	GCST90200450	17	51257863	C	A	7564	-0.29	0.06	0.00	0.00	20.38
rs150000692	Caproate (6:0) levels	GCST90200450	22	32557282	A	G	7564	0.44	0.09	0.00	0.00	24.88
rs4657374	Nonadecanoate (19:0) levels	GCST90200451	1	164791381	T	A	8231	0.08	0.02	0.00	0.00	22.62
rs9332635	Nonadecanoate (19:0) levels	GCST90200451	1	169526195	C	T	8231	-0.08	0.02	0.00	0.00	19.76
rs17339807	Nonadecanoate (19:0) levels	GCST90200451	2	80014444	C	T	8231	0.32	0.07	0.00	0.00	20.51
rs3731644	Nonadecanoate (19:0) levels	GCST90200451	2	235041233	C	T	8231	0.12	0.03	0.00	0.00	20.73
rs138115093	Nonadecanoate (19:0) levels	GCST90200451	3	101932483	A	C	8231	-0.35	0.08	0.00	0.00	21.03

rs9823785	Nonadecanoate (19:0) levels	GCST90200451	3	141342596	A	G	8231	-0.07	0.02	0.00	0.00	19.56
rs73065156	Nonadecanoate (19:0) levels	GCST90200451	3	193114771	G	A	8231	-0.30	0.06	0.00	0.00	24.38
rs113787886	Nonadecanoate (19:0) levels	GCST90200451	4	76938990	T	C	8231	-0.15	0.03	0.00	0.00	20.35
rs116530753	Nonadecanoate (19:0) levels	GCST90200451	4	156785921	A	G	8231	-0.16	0.04	0.00	0.00	21.34
rs2671912	Nonadecanoate (19:0) levels	GCST90200451	5	374992	C	T	8231	-0.08	0.02	0.00	0.00	19.77
rs147978816	Nonadecanoate (19:0) levels	GCST90200451	6	46952339	A	G	8231	0.33	0.07	0.00	0.00	21.80
rs180797894	Nonadecanoate (19:0) levels	GCST90200451	9	86056614	T	C	8231	0.29	0.06	0.00	0.00	21.06
rs117628926	Nonadecanoate (19:0) levels	GCST90200451	9	87952364	C	T	8231	-0.34	0.07	0.00	0.00	23.41
rs2247680	Nonadecanoate (19:0) levels	GCST90200451	9	122109418	A	G	8231	-0.12	0.03	0.00	0.00	20.04
rs75392355	Nonadecanoate (19:0) levels	GCST90200451	10	96219629	G	T	8231	-0.20	0.05	0.00	0.00	19.92
rs80106405	Nonadecanoate (19:0) levels	GCST90200451	10	96269434	C	A	8231	0.19	0.04	0.00	0.00	23.17
rs7122025	Nonadecanoate (19:0) levels	GCST90200451	11	1795607	C	G	8231	0.08	0.02	0.00	0.00	20.25
rs141744792	Nonadecanoate (19:0) levels	GCST90200451	11	9667496	A	G	8231	0.46	0.09	0.00	0.00	24.27
rs61947277	Nonadecanoate (19:0) levels	GCST90200451	13	29906434	A	G	8231	0.11	0.02	0.00	0.00	22.09
rs9564752	Nonadecanoate (19:0) levels	GCST90200451	13	70834481	T	C	8231	-0.10	0.02	0.00	0.00	23.84
rs143072068	Nonadecanoate (19:0) levels	GCST90200451	13	109276811	C	T	8231	-0.26	0.06	0.00	0.00	19.96
rs77738983	Nonadecanoate (19:0) levels	GCST90200451	16	60136125	C	T	8231	-0.21	0.04	0.00	0.00	23.58
rs16954302	Nonadecanoate (19:0) levels	GCST90200451	17	54200953	C	T	8231	0.20	0.04	0.00	0.00	21.60
rs9962055	Nonadecanoate (19:0) levels	GCST90200451	18	68153003	G	A	8231	0.10	0.02	0.00	0.00	20.03
rs111949383	Nonadecanoate (19:0) levels	GCST90200451	19	56248371	G	C	8231	-0.16	0.03	0.00	0.00	24.18
rs142692985	Nonadecanoate (19:0) levels	GCST90200451	22	33720884	C	G	8231	0.37	0.08	0.00	0.00	20.74
rs1260326	asparagine levels	GCST90200452	2	27508073	C	T	8245	0.08	0.02	0.00	0.00	29.14
rs150440064	Plasma free asparagine levels	GCST90200452	2	158781804	T	C	8245	0.39	0.09	0.00	0.00	20.22
rs715	Plasma free asparagine levels	GCST90200452	2	210678331	C	T	8245	-0.09	0.02	0.00	0.00	30.90
rs115540337	Plasma free asparagine levels	GCST90200452	2	215928906	T	C	8245	0.36	0.08	0.00	0.00	21.11
rs6780717	Plasma free asparagine levels	GCST90200452	3	175325917	C	T	8245	0.07	0.02	0.00	0.00	19.81
rs6826582	Plasma free asparagine levels	GCST90200452	4	6088765	C	T	8245	0.58	0.13	0.00	0.00	19.91
rs28393117	Plasma free asparagine levels	GCST90200452	7	97866354	T	C	8245	0.12	0.02	0.00	0.01	47.89
rs114704116	Plasma free asparagine levels	GCST90200452	9	69840900	T	C	8245	0.24	0.05	0.00	0.00	19.72
rs1512425	Plasma free asparagine levels	GCST90200452	9	73495423	T	C	8245	0.10	0.02	0.00	0.00	19.59
rs1933678	Plasma free asparagine levels	GCST90200452	9	93934952	T	C	8245	0.12	0.02	0.00	0.00	22.72

rs144586931	Plasma free asparagine levels	GCST90200452	9	100439498	G	C	8245	0.27	0.06	0.00	0.00	20.99
rs113581079	Plasma free asparagine levels	GCST90200452	10	3067048	T	G	8245	0.15	0.03	0.00	0.00	20.31
rs17102994	Plasma free asparagine levels	GCST90200452	10	122079555	G	A	8245	0.11	0.02	0.00	0.00	20.40
rs115395195	Plasma free asparagine levels	GCST90200452	11	62332881	A	G	8245	-0.17	0.02	0.00	0.01	54.89
rs2938254	Plasma free asparagine levels	GCST90200452	11	70904188	C	T	8245	-0.09	0.02	0.00	0.00	20.79
rs140457846	Plasma free asparagine levels	GCST90200452	11	83196226	C	A	8245	-0.40	0.08	0.00	0.00	22.47
rs12830127	Plasma free asparagine levels	GCST90200452	12	119365793	G	A	8245	0.09	0.02	0.00	0.00	22.62
rs7967039	Plasma free asparagine levels	GCST90200452	12	130521078	T	A	8245	-0.29	0.06	0.00	0.00	20.67
rs111688512	Plasma free asparagine levels	GCST90200452	14	103843837	A	G	8245	-0.16	0.02	0.00	0.01	49.75
rs8012505	Plasma free asparagine levels	GCST90200452	14	104104717	G	C	8245	0.63	0.02	0.00	0.09	824.70
rs150430056	Plasma free asparagine levels	GCST90200452	16	47634126	C	T	8245	-0.41	0.09	0.00	0.00	19.87
rs144514805	Plasma free asparagine levels	GCST90200452	16	86637636	G	A	8245	0.14	0.03	0.00	0.00	22.77
rs79227155	Plasma free asparagine levels	GCST90200452	17	34518382	A	G	8245	0.44	0.09	0.00	0.00	21.80
rs168020	Plasma free asparagine levels	GCST90200452	18	71374106	A	C	8245	0.07	0.02	0.00	0.00	19.87
rs964035	Plasma free asparagine levels	GCST90200452	21	14879291	A	C	8245	0.08	0.02	0.00	0.00	23.15
rs11703433	Plasma free asparagine levels	GCST90200452	22	44546120	T	G	8245	0.16	0.03	0.00	0.00	20.96
rs1411774	X-07765 levels	GCST90200453	1	232076262	A	G	8127	-0.07	0.02	0.00	0.00	20.55
rs141967658	X-07765 levels	GCST90200453	2	33692553	A	C	8127	-0.17	0.04	0.00	0.00	21.43
rs115119834	X-07765 levels	GCST90200453	2	137427778	G	A	8127	-0.45	0.10	0.00	0.00	20.60
rs12328248	X-07765 levels	GCST90200453	2	152328192	T	G	8127	-0.09	0.02	0.00	0.00	21.93
rs186210205	X-07765 levels	GCST90200453	3	26186348	C	T	8127	0.28	0.06	0.00	0.00	20.83
rs6937708	X-07765 levels	GCST90200453	6	775505	T	C	8127	0.07	0.02	0.00	0.00	21.00
rs556339	X-07765 levels	GCST90200453	6	25870517	T	C	8127	0.20	0.02	0.00	0.02	124.19
rs67123029	X-07765 levels	GCST90200453	6	44341788	T	C	8127	-0.23	0.05	0.00	0.00	22.07
rs182626019	X-07765 levels	GCST90200453	6	113457673	T	A	8127	-0.22	0.05	0.00	0.00	19.69
rs1208264	X-07765 levels	GCST90200453	6	133823682	C	T	8127	0.07	0.02	0.00	0.00	21.42
rs6946812	X-07765 levels	GCST90200453	7	101051859	A	G	8127	-0.30	0.07	0.00	0.00	21.08
rs3931852	X-07765 levels	GCST90200453	8	4416350	T	C	8127	0.09	0.02	0.00	0.00	27.83
rs118013748	X-07765 levels	GCST90200453	8	143814501	G	T	8127	0.19	0.04	0.00	0.00	19.53
rs9721752	X-07765 levels	GCST90200453	9	7253300	G	T	8127	0.08	0.02	0.00	0.00	22.54
rs144113423	X-07765 levels	GCST90200453	9	21044825	A	T	8127	-0.36	0.08	0.00	0.00	21.68
rs61844536	X-07765 levels	GCST90200453	10	6753180	C	G	8127	0.08	0.02	0.00	0.00	20.47
rs58878748	X-07765 levels	GCST90200453	10	96722243	C	G	8127	-0.23	0.05	0.00	0.00	19.73
rs138057982	X-07765 levels	GCST90200453	14	74097504	G	A	8127	-0.33	0.07	0.00	0.00	23.06
rs76084559	X-07765 levels	GCST90200453	15	23706153	G	C	8127	-0.21	0.04	0.00	0.00	24.15

rs2645466	X-07765 levels	GCST90200453	17	59775853	C	A	8127	0.08	0.02	0.00	0.00	21.50
rs78238303	X-07765 levels	GCST90200453	19	22932851	T	C	8127	0.18	0.04	0.00	0.00	22.35
rs77278393	X-07765 levels	GCST90200453	20	15274202	G	A	8127	0.16	0.04	0.00	0.00	19.67
rs1203950	X-07765 levels	GCST90200453	20	22628463	G	A	8127	0.08	0.02	0.00	0.00	20.54
rs118025367	X-07765 levels	GCST90200453	20	47516801	T	C	8127	-0.16	0.03	0.00	0.00	22.29
rs116984137	X-07765 levels	GCST90200453	22	44315597	G	A	8127	-0.27	0.06	0.00	0.00	21.96
rs34301075	Kynurenate levels	GCST90200454	1	164885553	A	G	8241	-0.10	0.02	0.00	0.00	20.67
rs7339969	Kynurenate levels	GCST90200454	1	186412638	A	G	8241	-0.08	0.02	0.00	0.00	21.98
rs76921653	Kynurenate levels	GCST90200454	1	209079179	G	A	8241	-0.23	0.05	0.00	0.00	20.80
rs1414493	Kynurenate levels	GCST90200454	1	241523216	G	A	8241	-0.08	0.02	0.00	0.00	22.01
rs61825638	Kynurenate levels	GCST90200454	1	241550102	T	C	8241	0.34	0.02	0.00	0.04	384.25
rs6709184	Kynurenate levels	GCST90200454	2	101109965	C	T	8241	-0.08	0.02	0.00	0.00	20.79
rs18150840	Kynurenate levels	GCST90200454	2	123386351	A	G	8241	0.31	0.07	0.00	0.00	19.64
rs116216182	Kynurenate levels	GCST90200454	2	154725933	G	A	8241	-0.15	0.03	0.00	0.00	23.82
rs1047891	Kynurenate levels	GCST90200454	2	210675783	A	C	8241	-0.08	0.02	0.00	0.00	23.42
rs146441900	Kynurenate levels	GCST90200454	3	72936950	G	C	8241	-0.23	0.05	0.00	0.00	20.91
rs13093766	Kynurenate levels	GCST90200454	3	74010011	C	T	8241	0.21	0.04	0.00	0.00	23.29
rs115924204	Kynurenate levels	GCST90200454	3	88593684	G	A	8241	-0.38	0.08	0.00	0.00	20.73
rs71311339	Kynurenate levels	GCST90200454	3	97961811	A	G	8241	-0.18	0.04	0.00	0.00	20.56
rs9854267	Kynurenate levels	GCST90200454	3	188304950	T	G	8241	-0.17	0.04	0.00	0.00	21.28
rs7676821	Kynurenate levels	GCST90200454	4	170040496	T	C	8241	0.20	0.03	0.00	0.01	57.49
rs12529479	Kynurenate levels	GCST90200454	6	48201986	A	G	8241	-0.07	0.02	0.00	0.00	20.39
rs141379923	Kynurenate levels	GCST90200454	6	98281841	T	A	8241	0.31	0.07	0.00	0.00	20.39
rs12203098	Kynurenate levels	GCST90200454	6	109473880	G	A	8241	0.19	0.04	0.00	0.00	21.67
rs62452213	Kynurenate levels	GCST90200454	7	13841334	C	T	8241	-0.20	0.05	0.00	0.00	19.87
rs10250065	Kynurenate levels	GCST90200454	7	56146987	C	G	8241	0.07	0.02	0.00	0.00	22.31
rs2552201	Kynurenate levels	GCST90200454	8	6185896	A	G	8241	-0.08	0.02	0.00	0.00	21.18
rs151202749	Kynurenate levels	GCST90200454	9	6467010	G	A	8241	0.46	0.10	0.00	0.00	22.50
rs475121	Kynurenate levels	GCST90200454	9	81796731	G	T	8241	0.13	0.03	0.00	0.00	21.55
rs12262746	Kynurenate levels	GCST90200454	10	66872855	T	C	8241	-0.16	0.03	0.00	0.00	28.54
rs17782459	Kynurenate levels	GCST90200454	12	68406502	T	C	8241	-0.10	0.02	0.00	0.00	20.11
rs77943558	Kynurenate levels	GCST90200454	14	75772296	T	C	8241	0.38	0.08	0.00	0.00	21.01
rs74410978	Kynurenate levels	GCST90200454	14	100346169	C	A	8241	-0.08	0.02	0.00	0.00	25.45
rs111852002	Kynurenate levels	GCST90200454	15	95957676	T	C	8241	-0.23	0.05	0.00	0.00	21.35
rs9933330	Kynurenate levels	GCST90200454	16	20355488	T	C	8241	-0.10	0.02	0.00	0.00	24.65
rs12921667	Kynurenate levels	GCST90200454	16	58733944	A	G	8241	0.19	0.03	0.00	0.01	44.87
rs113339877	Kynurenate levels	GCST90200454	19	13111849	A	G	8241	-0.42	0.09	0.00	0.00	20.39
rs13038820	Kynurenate levels	GCST90200454	20	38613187	A	G	8241	-0.09	0.02	0.00	0.00	20.18
rs146155802	Kynurenate levels	GCST90200454	20	63667061	A	G	8241	0.11	0.02	0.00	0.00	21.02

rs117082435	Kynurenate levels Alpha-ketoglutarate	GCST90200454	22	23413681	T	C	8241	-0.29	0.07	0.00	0.00	19.67
rs35959152	levels Alpha-ketoglutarate	GCST90200455	1	92130428	G	A	8212	0.08	0.02	0.00	0.00	21.97
rs1913907	levels Alpha-ketoglutarate	GCST90200455	2	14451973	G	C	8212	-0.09	0.02	0.00	0.00	22.28
rs149858400	levels Alpha-ketoglutarate	GCST90200455	2	79071321	T	C	8212	-0.45	0.10	0.00	0.00	20.59
rs56194852	levels Alpha-ketoglutarate	GCST90200455	4	67331844	C	T	8212	0.14	0.03	0.00	0.00	20.68
rs9997519	levels Alpha-ketoglutarate	GCST90200455	4	154552018	T	C	8212	0.10	0.02	0.00	0.00	21.78
rs55659629	levels Alpha-ketoglutarate	GCST90200455	5	77997018	A	T	8212	-0.09	0.02	0.00	0.00	21.84
rs4920869	levels Alpha-ketoglutarate	GCST90200455	5	115622722	A	G	8212	-0.13	0.03	0.00	0.00	20.19
rs6867787	levels Alpha-ketoglutarate	GCST90200455	5	175189706	C	T	8212	-0.26	0.06	0.00	0.00	21.53
rs117215552	levels Alpha-ketoglutarate	GCST90200455	7	19560792	A	G	8212	0.15	0.03	0.00	0.00	19.94
rs4961656	levels Alpha-ketoglutarate	GCST90200455	9	18508231	G	T	8212	0.14	0.03	0.00	0.00	20.16
rs12001438	levels Alpha-ketoglutarate	GCST90200455	9	76293077	A	G	8212	0.09	0.02	0.00	0.00	23.02
rs369198099	levels Alpha-ketoglutarate	GCST90200455	10	38254123	A	G	8212	0.30	0.07	0.00	0.00	19.94
rs605389	levels Alpha-ketoglutarate	GCST90200455	10	83694764	C	T	8212	0.33	0.07	0.00	0.00	23.31
rs10838269	levels Alpha-ketoglutarate	GCST90200455	11	44356460	C	T	8212	-0.09	0.02	0.00	0.00	27.06
rs28589383	levels Alpha-ketoglutarate	GCST90200455	11	67129830	G	C	8212	0.24	0.05	0.00	0.00	20.56
rs74399712	levels Alpha-ketoglutarate	GCST90200455	14	70676434	T	C	8212	0.13	0.03	0.00	0.00	22.10
rs11075185	levels Alpha-ketoglutarate	GCST90200455	16	9058830	G	T	8212	0.11	0.02	0.00	0.00	20.02
rs744213	levels Alpha-ketoglutarate	GCST90200455	16	54585924	C	G	8212	-0.14	0.03	0.00	0.00	20.14
rs7191110	levels Alpha-ketoglutarate	GCST90200455	16	84259070	A	G	8212	0.08	0.02	0.00	0.00	20.16
rs148485267	levels Alpha-ketoglutarate	GCST90200455	18	47632100	A	G	8212	-0.24	0.05	0.00	0.00	20.71
rs117763866	levels Alpha-ketoglutarate	GCST90200455	18	75834338	T	A	8212	0.31	0.07	0.00	0.00	19.52
rs7251254	levels Alpha-ketoglutarate	GCST90200455	19	8552222	A	G	8212	0.18	0.04	0.00	0.00	21.53
rs6066009	levels Alpha-ketoglutarate	GCST90200455	20	46535855	C	T	8212	-0.10	0.02	0.00	0.00	22.33
rs6124830	levels Alpha-ketoglutarate	GCST90200455	20	46608139	C	T	8212	0.20	0.02	0.00	0.01	101.63

rs6122439	Alpha-ketoglutarate levels	GCST90200455	20	63401437	A	C	8212	0.12	0.02	0.00	0.00	21.94
rs135710	Alpha-ketoglutarate levels	GCST90200455	22	38260679	G	A	8212	0.08	0.02	0.00	0.00	23.42
rs76701080	X-11308 levels	GCST90200456	1	19354019	A	G	8253	-0.17	0.04	0.00	0.00	20.54
rs4668676	X-11308 levels	GCST90200456	2	10298495	A	C	8253	0.07	0.02	0.00	0.00	23.27
rs143240753	X-11308 levels	GCST90200456	3	179350925	T	C	8253	-0.24	0.05	0.00	0.00	20.47
rs36086852	X-11308 levels	GCST90200456	4	13157467	A	G	8253	0.18	0.04	0.00	0.00	21.10
rs190072021	X-11308 levels	GCST90200456	4	51948770	C	T	8253	-0.27	0.06	0.00	0.00	20.37
rs139081607	X-11308 levels	GCST90200456	4	104088632	T	C	8253	-0.27	0.06	0.00	0.00	20.64
rs1390078	X-11308 levels	GCST90200456	4	124565345	A	T	8253	-0.07	0.02	0.00	0.00	23.03
rs140182351	X-11308 levels	GCST90200456	6	168124149	C	G	8253	-0.41	0.09	0.00	0.00	20.90
rs6948740	X-11308 levels	GCST90200456	7	46688117	G	A	8253	0.13	0.03	0.00	0.00	21.55
rs113934591	X-11308 levels	GCST90200456	8	12904855	A	G	8253	0.07	0.02	0.00	0.00	20.09
rs1438452	X-11308 levels	GCST90200456	8	23854745	G	A	8253	-0.12	0.02	0.00	0.00	22.73
rs112804583	X-11308 levels	GCST90200456	8	120684179	C	A	8253	0.29	0.06	0.00	0.00	21.29
rs7048589	X-11308 levels	GCST90200456	9	30945995	G	T	8253	-0.07	0.02	0.00	0.00	23.40
rs7869504	X-11308 levels	GCST90200456	9	92029453	T	C	8253	0.07	0.02	0.00	0.00	19.56
rs7917186	X-11308 levels	GCST90200456	10	90994210	T	C	8253	-0.22	0.05	0.00	0.00	21.78
rs79722608	X-11308 levels	GCST90200456	10	94997876	G	C	8253	0.34	0.03	0.00	0.02	134.59
rs10886683	X-11308 levels	GCST90200456	10	120424977	G	T	8253	0.08	0.02	0.00	0.00	20.31
rs7976818	X-11308 levels	GCST90200456	12	21116170	T	C	8253	-0.10	0.02	0.00	0.00	32.70
rs58310495	X-11308 levels	GCST90200456	12	21204777	T	C	8253	0.24	0.02	0.00	0.02	143.75
rs143303678	X-11308 levels	GCST90200456	12	76349113	A	G	8253	0.24	0.05	0.00	0.00	19.58
rs11067620	X-11308 levels	GCST90200456	12	115498414	C	A	8253	0.11	0.03	0.00	0.00	19.88
rs78732010	X-11308 levels	GCST90200456	13	21114835	C	G	8253	0.13	0.03	0.00	0.00	20.52
rs77469553	X-11308 levels	GCST90200456	13	110202181	G	C	8253	-0.31	0.06	0.00	0.00	23.87
rs79805899	X-11308 levels	GCST90200456	14	70589846	C	T	8253	0.16	0.04	0.00	0.00	20.11
rs58231493	X-11308 levels	GCST90200456	14	73565418	T	C	8253	0.10	0.02	0.00	0.00	40.04
rs6496459	X-11308 levels	GCST90200456	15	87964663	G	C	8253	-0.09	0.02	0.00	0.00	21.83
rs117180267	X-11308 levels	GCST90200456	16	76966697	A	G	8253	0.23	0.05	0.00	0.00	24.29
rs72797514	X-11308 levels	GCST90200456	16	84657827	T	C	8253	-0.15	0.03	0.00	0.00	19.57
rs117927788	X-11308 levels	GCST90200456	17	12431922	A	G	8253	-0.20	0.04	0.00	0.00	20.25
rs1135640	X-11308 levels	GCST90200456	17	75953459	C	G	8253	0.07	0.02	0.00	0.00	22.35
rs111461700	X-11308 levels	GCST90200456	18	23386059	C	G	8253	0.33	0.07	0.00	0.00	19.52
rs140617399	X-11308 levels	GCST90200456	18	39556237	G	T	8253	-0.33	0.07	0.00	0.00	22.36
rs296392	X-11308 levels	GCST90200456	19	47864789	T	C	8253	0.07	0.02	0.00	0.00	23.11
rs7543700	Pentadecanoate (15:0) levels	GCST90200457	1	63122765	G	T	8273	0.19	0.04	0.00	0.00	21.86
rs1971863	Pentadecanoate (15:0) levels	GCST90200457	1	159669141	C	T	8273	-0.08	0.02	0.00	0.00	23.30
rs17339807	Pentadecanoate (15:0) levels	GCST90200457	2	80014444	C	T	8273	0.30	0.07	0.00	0.00	19.78
rs12497825	Pentadecanoate (15:0) levels	GCST90200457	3	47628057	T	A	8273	-0.08	0.02	0.00	0.00	23.87
rs149415292	Pentadecanoate (15:0) levels	GCST90200457	3	53054516	A	G	8273	0.14	0.03	0.00	0.00	19.81
rs148471600	Pentadecanoate (15:0) levels	GCST90200457	3	55166547	T	C	8273	0.27	0.06	0.00	0.00	19.57
rs1447739	Pentadecanoate (15:0) levels	GCST90200457	3	143696869	T	C	8273	-0.16	0.04	0.00	0.00	20.41
rs10933724	Pentadecanoate (15:0) levels	GCST90200457	3	194249062	C	G	8273	-0.10	0.02	0.00	0.00	21.09
rs144986123	Pentadecanoate (15:0) levels	GCST90200457	4	105310226	T	G	8273	0.33	0.07	0.00	0.00	20.32
rs116530753	Pentadecanoate (15:0) levels	GCST90200457	4	156785921	A	G	8273	-0.17	0.03	0.00	0.00	25.12
rs6552234	Pentadecanoate (15:0) levels	GCST90200457	4	177428913	T	A	8273	0.10	0.02	0.00	0.00	20.07
rs79859092	Pentadecanoate (15:0) levels	GCST90200457	5	96814807	C	T	8273	-0.19	0.04	0.00	0.00	21.14

rs6870663	Pentadecanoate (15:0) levels	GCST90200457	5	172823258	A	G	8273	0.08	0.02	0.00	0.00	19.83
rs2819083	Pentadecanoate (15:0) levels	GCST90200457	6	156379682	A	G	8273	0.07	0.02	0.00	0.00	21.63
rs73045049	Pentadecanoate (15:0) levels	GCST90200457	7	2658714	A	G	8273	-0.18	0.04	0.00	0.00	20.26
rs28676747	Pentadecanoate (15:0) levels	GCST90200457	7	156004669	A	C	8273	0.15	0.03	0.00	0.00	19.76
rs77003635	Pentadecanoate (15:0) levels	GCST90200457	8	41894440	A	G	8273	0.31	0.07	0.00	0.00	20.66
rs7122025	Pentadecanoate (15:0) levels	GCST90200457	11	1795607	C	G	8273	0.08	0.02	0.00	0.00	20.53
rs79507970	Pentadecanoate (15:0) levels	GCST90200457	12	24993537	C	G	8273	0.25	0.05	0.00	0.00	22.10
rs2281810	Pentadecanoate (15:0) levels	GCST90200457	13	42887507	G	A	8273	0.07	0.02	0.00	0.00	20.14
rs7143692	Pentadecanoate (15:0) levels	GCST90200457	14	77232936	G	A	8273	0.08	0.02	0.00	0.00	19.56
rs113915691	Pentadecanoate (15:0) levels	GCST90200457	19	56248382	A	G	8273	-0.16	0.03	0.00	0.00	27.35
rs144405584	X-11315 levels	GCST90200458	1	107891708	T	G	8139	-0.31	0.07	0.00	0.00	21.53
rs75241733	X-11315 levels	GCST90200458	2	159166655	G	A	8139	-0.19	0.04	0.00	0.00	20.54
rs17279437	X-11315 levels	GCST90200458	3	45772602	A	G	8139	-0.22	0.03	0.00	0.01	70.53
rs6769758	X-11315 levels	GCST90200458	3	67426082	A	T	8139	-0.08	0.02	0.00	0.00	24.26
rs73139151	X-11315 levels	GCST90200458	3	89483470	A	G	8139	-0.28	0.06	0.00	0.00	22.39
rs4148567	X-11315 levels	GCST90200458	3	184005287	G	A	8139	0.07	0.02	0.00	0.00	20.07
rs4505845	X-11315 levels	GCST90200458	4	35268349	A	G	8139	0.08	0.02	0.00	0.00	19.91
rs114231843	X-11315 levels	GCST90200458	4	109893428	T	G	8139	0.34	0.08	0.00	0.00	20.54
rs16900949	X-11315 levels	GCST90200458	5	31353501	G	T	8139	-0.30	0.07	0.00	0.00	20.44
rs55671936	X-11315 levels	GCST90200458	5	133411816	G	A	8139	0.13	0.03	0.00	0.00	21.37
rs62471571	X-11315 levels	GCST90200458	7	130730931	A	C	8139	0.32	0.07	0.00	0.00	22.01
rs2072179	X-11315 levels	GCST90200458	7	139962273	C	T	8139	-0.19	0.04	0.00	0.00	21.81
rs278575	X-11315 levels	GCST90200458	8	93146531	T	A	8139	-0.13	0.03	0.00	0.00	23.54
rs2242090	X-11315 levels	GCST90200458	8	143606566	G	C	8139	0.13	0.02	0.00	0.01	74.19
rs150310357	X-11315 levels	GCST90200458	9	105786237	G	T	8139	-0.32	0.07	0.00	0.00	22.88
rs11591990	X-11315 levels	GCST90200458	10	3090323	G	C	8139	0.12	0.03	0.00	0.00	21.12
rs11056808	X-11315 levels	GCST90200458	12	16156356	G	A	8139	0.07	0.02	0.00	0.00	20.83
rs140231314	X-11315 levels	GCST90200458	12	92219209	C	T	8139	-0.17	0.04	0.00	0.00	20.07
rs776715	X-11315 levels	GCST90200458	15	42121686	C	G	8139	-0.08	0.02	0.00	0.00	26.51
rs183267461	X-11315 levels	GCST90200458	16	17847183	A	G	8139	-0.73	0.16	0.00	0.00	21.75
rs3826240	X-11315 levels	GCST90200458	16	64971139	G	C	8139	0.07	0.02	0.00	0.00	20.06
rs10853015	X-11315 levels	GCST90200458	17	59700978	C	A	8139	-0.08	0.02	0.00	0.00	20.05
rs3761097	X-11315 levels	GCST90200458	19	35800075	T	C	8139	0.46	0.03	0.00	0.02	180.14
rs3848666	X-11315 levels	GCST90200458	19	35812762	C	G	8139	-0.20	0.02	0.00	0.01	99.48
rs116842388	X-11315 levels	GCST90200458	21	27106840	A	G	8139	0.23	0.05	0.00	0.00	20.99
rs56408115	X-11315 levels	GCST90200458	22	22566662	G	T	8139	0.22	0.05	0.00	0.00	19.59
rs4657374	Margarate (17:0) levels	GCST90200459	1	164791381	T	A	8279	0.08	0.02	0.00	0.00	20.86
rs62160372	Margarate (17:0) levels	GCST90200459	2	77712908	C	T	8279	-0.21	0.05	0.00	0.00	20.03
rs3731644	Margarate (17:0) levels	GCST90200459	2	235041233	C	T	8279	0.12	0.02	0.00	0.00	24.11
rs115264719	Margarate (17:0) levels	GCST90200459	3	8677262	A	G	8279	-0.13	0.03	0.00	0.00	21.82
rs76404561	Margarate (17:0) levels	GCST90200459	3	31076942	G	C	8279	-0.17	0.04	0.00	0.00	20.01
rs12497825	Margarate (17:0) levels	GCST90200459	3	47628057	T	A	8279	-0.09	0.02	0.00	0.00	28.31
rs138115093	Margarate (17:0) levels	GCST90200459	3	101932483	A	C	8279	-0.33	0.07	0.00	0.00	19.99
rs1447739	Margarate (17:0) levels	GCST90200459	3	143696869	T	C	8279	-0.16	0.04	0.00	0.00	19.52
rs116530753	Margarate (17:0) levels	GCST90200459	4	156785921	A	G	8279	-0.18	0.03	0.00	0.00	28.26
rs2671912	Margarate (17:0) levels	GCST90200459	5	374992	C	T	8279	-0.08	0.02	0.00	0.00	22.71
rs79859092	Margarate (17:0) levels	GCST90200459	5	96814807	C	T	8279	-0.21	0.04	0.00	0.00	26.66

rs1349890	Margarate (17:0) levels	GCST90200459	6	156385615	C	T	8279	-0.07	0.02	0.00	0.00	22.35
rs73045049	Margarate (17:0) levels	GCST90200459	7	2658714	A	G	8279	-0.20	0.04	0.00	0.00	24.30
rs10973579	Margarate (17:0) levels	GCST90200459	9	3793026	A	G	8279	-0.18	0.04	0.00	0.00	19.93
rs7040332	Margarate (17:0) levels	GCST90200459	9	111683067	T	C	8279	0.07	0.02	0.00	0.00	19.61
rs79507970	Margarate (17:0) levels	GCST90200459	12	24993537	C	G	8279	0.24	0.05	0.00	0.00	20.08
rs2325324	Margarate (17:0) levels	GCST90200459	13	70833829	A	T	8279	-0.09	0.02	0.00	0.00	20.57
rs2031900	Margarate (17:0) levels	GCST90200459	13	98827749	G	A	8279	0.24	0.05	0.00	0.00	20.22
rs191214867	Margarate (17:0) levels	GCST90200459	15	81668588	A	G	8279	0.17	0.04	0.00	0.00	19.93
rs28468489	Margarate (17:0) levels	GCST90200459	18	49542767	G	A	8279	0.22	0.05	0.00	0.00	23.30
rs9962055	Margarate (17:0) levels	GCST90200459	18	68153003	G	A	8279	0.10	0.02	0.00	0.00	19.85
rs113915691	Margarate (17:0) levels	GCST90200459	19	56248382	A	G	8279	-0.16	0.03	0.00	0.00	24.93
rs80053496	Margarate (17:0) levels	GCST90200459	21	39201944	A	G	8279	-0.24	0.05	0.00	0.00	20.50
rs35101017	X-11372 levels	GCST90200460	2	128709313	C	T	8251	0.07	0.02	0.00	0.00	20.11
rs75181344	X-11372 levels	GCST90200460	2	225206673	A	G	8251	0.21	0.04	0.00	0.00	23.92
rs9815847	X-11372 levels	GCST90200460	3	112720207	A	G	8251	-0.07	0.02	0.00	0.00	19.66
rs116468480	X-11372 levels	GCST90200460	5	8460701	A	C	8251	0.27	0.06	0.00	0.00	20.03
rs114194674	X-11372 levels	GCST90200460	5	21834375	C	T	8251	0.19	0.04	0.00	0.00	20.47
rs78540293	X-11372 levels	GCST90200460	6	658139	G	T	8251	0.16	0.04	0.00	0.00	19.71
rs10872544	X-11372 levels	GCST90200460	6	100017890	A	G	8251	0.07	0.02	0.00	0.00	21.80
rs73051779	X-11372 levels	GCST90200460	7	7280023	C	T	8251	0.09	0.02	0.00	0.00	20.05
rs6948740	X-11372 levels	GCST90200460	7	46688117	G	A	8251	0.14	0.03	0.00	0.00	22.78
rs149382022	X-11372 levels	GCST90200460	7	136858353	C	T	8251	-0.24	0.05	0.00	0.00	21.49
rs7048589	X-11372 levels	GCST90200460	9	30945995	G	T	8251	-0.07	0.02	0.00	0.00	23.48
rs11140382	X-11372 levels	GCST90200460	9	84110115	A	G	8251	-0.09	0.02	0.00	0.00	23.32
rs61859378	X-11372 levels	GCST90200460	10	43825840	G	A	8251	-0.09	0.02	0.00	0.00	22.74
rs11045885	X-11372 levels	GCST90200460	12	21233084	G	A	8251	0.17	0.02	0.00	0.01	76.95
rs10770795	X-11372 levels	GCST90200460	12	21293298	G	A	8251	-0.10	0.02	0.00	0.00	22.28
rs192963379	X-11372 levels	GCST90200460	14	76162345	A	G	8251	-0.32	0.07	0.00	0.00	20.02
rs10130354	X-11372 levels	GCST90200460	14	100683174	C	T	8251	-0.13	0.02	0.00	0.00	25.31
rs73374500	X-11372 levels	GCST90200460	15	34340485	T	C	8251	-0.09	0.02	0.00	0.00	20.58
rs8041483	X-11372 levels	GCST90200460	15	50173024	G	A	8251	0.10	0.02	0.00	0.01	41.69
rs55751241	X-11372 levels	GCST90200460	15	83083891	C	T	8251	-0.08	0.02	0.00	0.00	20.49
rs8037291	X-11372 levels	GCST90200460	15	87964700	G	A	8251	-0.09	0.02	0.00	0.00	21.72
rs117448127	X-11372 levels	GCST90200460	17	13911914	T	C	8251	-0.42	0.09	0.00	0.00	21.03
rs7217699	X-11372 levels	GCST90200460	17	15132851	C	A	8251	-0.12	0.03	0.00	0.00	20.13
rs11650952	X-11372 levels	GCST90200460	17	76879089	A	C	8251	-0.09	0.02	0.00	0.00	19.98
rs1385029	X-11372 levels	GCST90200460	18	38032474	T	A	8251	0.09	0.02	0.00	0.00	20.54
rs17463683	X-11372 levels	GCST90200460	18	54244140	C	A	8251	0.12	0.02	0.00	0.00	27.76
rs1420433	X-11372 levels	GCST90200460	20	15667701	A	C	8251	-0.07	0.01	0.00	0.00	19.64
rs12742895	X-10458 levels	GCST90200461	1	119399860	G	A	7970	0.17	0.04	0.00	0.00	22.12
rs55716358	X-10458 levels	GCST90200461	2	20120555	C	T	7970	0.11	0.02	0.00	0.00	20.87
rs13017116	X-10458 levels	GCST90200461	2	50792463	C	T	7970	-0.08	0.02	0.00	0.00	20.27
rs115978457	X-10458 levels	GCST90200461	2	127216345	C	A	7970	-0.33	0.07	0.00	0.00	20.02
rs887829	X-10458 levels	GCST90200461	2	233759924	T	C	7970	-0.19	0.02	0.00	0.02	133.95
rs12492631	X-10458 levels	GCST90200461	3	169159796	T	C	7970	0.22	0.05	0.00	0.00	19.54
rs151075930	X-10458 levels	GCST90200461	4	116612363	G	A	7970	-0.34	0.08	0.00	0.00	20.00
rs62358500	X-10458 levels	GCST90200461	4	183554519	A	C	7970	0.26	0.05	0.00	0.00	25.05
rs4702913	X-10458 levels	GCST90200461	5	4700474	C	A	7970	-0.10	0.02	0.00	0.00	22.67
rs72759838	X-10458 levels	GCST90200461	5	68410065	T	C	7970	0.27	0.06	0.00	0.00	21.62
rs73288823	X-10458 levels	GCST90200461	5	135136927	C	T	7970	-0.15	0.03	0.00	0.00	24.05
rs1206907	X-10458 levels	GCST90200461	6	9388155	G	T	7970	-0.09	0.02	0.00	0.00	21.03
rs79813778	X-10458 levels	GCST90200461	6	11555754	T	G	7970	0.37	0.07	0.00	0.00	25.91
rs7770034	X-10458 levels	GCST90200461	6	44479267	G	A	7970	0.07	0.02	0.00	0.00	20.11
rs117158403	X-10458 levels	GCST90200461	8	137631779	T	G	7970	-0.41	0.09	0.00	0.00	21.22

rs118148255	X-10458 levels	GCST90200461	11	76277966	G	A	7970	-0.22	0.05	0.00	0.00	22.41
rs117244361	X-10458 levels	GCST90200461	11	84471469	G	T	7970	-0.25	0.05	0.00	0.00	20.93
rs35488196	X-10458 levels	GCST90200461	12	85628895	T	C	7970	-0.17	0.04	0.00	0.00	20.03
rs151301119	X-10458 levels	GCST90200461	16	28517461	T	C	7970	-0.29	0.06	0.00	0.00	19.95
rs62043313	X-10458 levels	GCST90200461	16	79710237	G	T	7970	-0.08	0.02	0.00	0.00	22.80
rs45111600	X-10458 levels	GCST90200461	18	8340931	G	A	7970	-0.08	0.02	0.00	0.00	19.99
rs148933681	X-10458 levels	GCST90200461	19	2875919	A	G	7970	0.44	0.08	0.00	0.00	31.17
rs73047241	X-10458 levels	GCST90200461	19	41381123	C	A	7970	0.24	0.05	0.00	0.00	20.41
rs73897828	X-10458 levels	GCST90200461	20	15708226	A	C	7970	0.13	0.03	0.00	0.00	22.26
rs73167489	X-10458 levels	GCST90200461	22	26904121	T	C	7970	-0.22	0.05	0.00	0.00	19.70
rs111868204	X-11299 levels	GCST90200462	1	28648697	G	A	8203	-0.30	0.06	0.00	0.00	24.94
rs77234600	X-11299 levels	GCST90200462	2	40453503	A	G	8203	0.23	0.04	0.00	0.00	29.88
rs12474739	X-11299 levels	GCST90200462	2	180759257	T	C	8203	-0.09	0.02	0.00	0.00	22.97
rs17022220	X-11299 levels	GCST90200462	3	28936792	C	T	8203	0.10	0.02	0.00	0.00	20.59
rs115334379	X-11299 levels	GCST90200462	4	68993940	T	G	8203	-0.13	0.03	0.00	0.00	21.52
rs115895510	X-11299 levels	GCST90200462	4	98801286	T	C	8203	-0.41	0.09	0.00	0.00	23.18
rs6891701	X-11299 levels	GCST90200462	5	110368050	A	G	8203	-0.12	0.03	0.00	0.00	19.96
rs80097805	X-11299 levels	GCST90200462	6	3235587	G	C	8203	-0.33	0.07	0.00	0.00	22.51
rs77857737	X-11299 levels	GCST90200462	6	74666333	T	A	8203	0.26	0.05	0.00	0.00	24.38
rs142209121	X-11299 levels	GCST90200462	6	125921203	G	A	8203	-0.20	0.05	0.00	0.00	19.57
rs146908428	X-11299 levels	GCST90200462	7	35903516	A	G	8203	-0.32	0.07	0.00	0.00	20.64
rs139592725	X-11299 levels	GCST90200462	8	78752288	T	C	8203	-0.40	0.09	0.00	0.00	19.86
rs7023431	X-11299 levels	GCST90200462	9	107691715	A	C	8203	0.08	0.02	0.00	0.00	19.82
rs148659822	X-11299 levels	GCST90200462	10	65801350	C	A	8203	0.24	0.05	0.00	0.00	21.01
rs4149056	X-11299 levels	GCST90200462	12	21178615	C	T	8203	0.14	0.02	0.00	0.01	46.65
rs113369146	X-11299 levels	GCST90200462	12	55327473	T	C	8203	-0.31	0.07	0.00	0.00	22.37
rs12860717	X-11299 levels	GCST90200462	13	98442865	G	T	8203	-0.13	0.03	0.00	0.00	20.30
rs9922808	X-11299 levels	GCST90200462	16	11599948	C	T	8203	-0.07	0.02	0.00	0.00	20.04
rs9319915	X-11299 levels	GCST90200462	18	54833939	G	A	8203	0.43	0.09	0.00	0.00	21.40
rs142782653	X-11299 levels	GCST90200462	21	21922342	A	G	8203	-0.32	0.07	0.00	0.00	23.27
rs6683437	X-11478 levels	GCST90200463	1	75850934	A	G	8242	-0.10	0.02	0.00	0.00	33.81
rs3007670	X-11478 levels	GCST90200463	1	151925140	G	T	8242	-0.09	0.02	0.00	0.00	29.77
rs76252344	X-11478 levels	GCST90200463	2	57081446	A	G	8242	-0.24	0.05	0.00	0.00	19.69
rs114613601	X-11478 levels	GCST90200463	2	138772013	G	C	8242	0.22	0.05	0.00	0.00	22.38
rs113366405	X-11478 levels	GCST90200463	2	167719918	T	C	8242	-0.11	0.02	0.00	0.00	24.85
rs79415624	X-11478 levels	GCST90200463	3	126656702	C	G	8242	0.17	0.04	0.00	0.00	19.74
rs1960773	X-11478 levels	GCST90200463	4	68671436	C	A	8242	-0.08	0.02	0.00	0.00	27.28
rs559068982	X-11478 levels	GCST90200463	5	131132511	C	G	8242	0.51	0.11	0.00	0.00	22.34
rs2237085	X-11478 levels	GCST90200463	5	150085686	A	G	8242	-0.09	0.02	0.00	0.00	20.93
rs12657410	X-11478 levels	GCST90200463	5	158777339	G	A	8242	-0.18	0.04	0.00	0.00	25.61
rs412538	X-11478 levels	GCST90200463	6	5489318	G	A	8242	0.10	0.02	0.00	0.00	22.09
rs142179796	X-11478 levels	GCST90200463	6	114309894	A	C	8242	-0.36	0.08	0.00	0.00	19.96
rs139410868	X-11478 levels	GCST90200463	6	128848756	T	A	8242	0.16	0.04	0.00	0.00	19.93
rs10457940	X-11478 levels	GCST90200463	6	157125068	C	G	8242	-0.12	0.03	0.00	0.00	21.28
rs28859910	X-11478 levels	GCST90200463	8	57790201	C	T	8242	0.18	0.04	0.00	0.00	21.09
rs145810120	X-11478 levels	GCST90200463	8	94433996	C	A	8242	-0.28	0.06	0.00	0.00	20.50
rs117311428	X-11478 levels	GCST90200463	9	23386318	A	G	8242	0.28	0.06	0.00	0.00	22.20
rs79097825	X-11478 levels	GCST90200463	10	16248353	C	T	8242	-0.29	0.06	0.00	0.00	20.13
rs4100277	X-11478 levels	GCST90200463	11	55303394	A	G	8242	0.09	0.02	0.00	0.00	27.21
rs111322695	X-11478 levels	GCST90200463	12	117839048	G	A	8242	0.25	0.05	0.00	0.00	21.79
rs1505100	X-11478 levels	GCST90200463	16	20470350	T	A	8242	-0.19	0.02	0.00	0.01	123.21
rs78303338	X-11478 levels	GCST90200463	16	20843648	T	C	8242	-0.18	0.03	0.00	0.00	27.39
rs2276330	X-11478 levels	GCST90200463	16	68823386	C	T	8242	0.10	0.02	0.00	0.00	19.84

rs2337070	X-11478 levels	GCST90200463	18	48594203	G	A	8242	0.07	0.02	0.00	0.00	20.15
rs28680811	X-11849 levels	GCST90200464	1	1684337	T	C	7679	0.19	0.04	0.00	0.00	19.85
rs149715509	X-11849 levels	GCST90200464	1	20112027	T	C	7679	0.25	0.06	0.00	0.00	19.72
rs116734727	X-11849 levels	GCST90200464	1	77054299	G	A	7679	0.23	0.05	0.00	0.00	20.31
rs185874871	X-11849 levels	GCST90200464	1	199691377	A	T	7679	-0.24	0.05	0.00	0.00	20.40
rs111336355	X-11849 levels	GCST90200464	2	3830490	T	C	7679	-0.19	0.04	0.00	0.00	21.27
rs113459527	X-11849 levels	GCST90200464	2	191419305	A	G	7679	-0.22	0.05	0.00	0.00	22.88
rs13389066	X-11849 levels	GCST90200464	2	230884102	C	G	7679	-0.12	0.03	0.00	0.00	21.60
rs9833240	X-11849 levels	GCST90200464	3	2141447	T	G	7679	-0.23	0.05	0.00	0.00	20.56
rs62243818	X-11849 levels	GCST90200464	3	72073874	G	T	7679	-0.13	0.03	0.00	0.00	20.28
rs6775941	X-11849 levels	GCST90200464	3	187173724	C	G	7679	0.19	0.04	0.00	0.00	19.67
rs62353593	X-11849 levels	GCST90200464	4	164821096	T	G	7679	0.08	0.02	0.00	0.00	20.32
rs72869128	X-11849 levels	GCST90200464	6	45106040	T	G	7679	-0.17	0.04	0.00	0.00	22.04
rs2049622	X-11849 levels	GCST90200464	7	42136683	A	G	7679	-0.07	0.02	0.00	0.00	21.31
rs62487113	X-11849 levels	GCST90200464	7	137362226	A	G	7679	-0.15	0.03	0.00	0.00	29.22
rs16908269	X-11849 levels	GCST90200464	9	24350136	G	A	7679	-0.17	0.03	0.00	0.00	23.00
rs141921737	X-11849 levels	GCST90200464	9	99066479	A	G	7679	-0.25	0.06	0.00	0.00	20.18
rs10822351	X-11849 levels	GCST90200464	10	64770245	G	A	7679	0.07	0.02	0.00	0.00	19.55
rs945207	X-11849 levels	GCST90200464	10	110365430	C	A	7679	0.16	0.03	0.00	0.00	20.96
rs116896093	X-11849 levels	GCST90200464	10	132543505	G	C	7679	0.17	0.04	0.00	0.00	22.95
rs72998086	X-11849 levels	GCST90200464	11	109534615	T	C	7679	-0.12	0.03	0.00	0.00	20.30
rs17780102	X-11849 levels	GCST90200464	12	3599443	A	G	7679	0.08	0.02	0.00	0.00	19.59
rs4592463	X-11849 levels	GCST90200464	12	48390417	A	G	7679	-0.18	0.04	0.00	0.00	19.75
rs4460914	X-11849 levels	GCST90200464	13	23192161	C	T	7679	0.08	0.02	0.00	0.00	20.38
rs79449340	X-11849 levels	GCST90200464	13	41012736	T	C	7679	-0.33	0.07	0.00	0.00	20.14
rs138141543	X-11849 levels	GCST90200464	13	58030791	C	T	7679	-0.09	0.02	0.00	0.00	20.48
rs340547	X-11849 levels	GCST90200464	13	72261893	A	C	7679	-0.25	0.05	0.00	0.00	21.51
rs17744730	X-11849 levels	GCST90200464	15	62954211	C	T	7679	0.11	0.02	0.00	0.00	23.30
rs34591432	X-11849 levels	GCST90200464	15	94386282	G	A	7679	0.08	0.02	0.00	0.00	23.68
rs149686623	X-11849 levels	GCST90200464	16	52955605	T	C	7679	-0.19	0.04	0.00	0.00	19.89
rs111843128	X-11849 levels	GCST90200464	16	72273637	T	C	7679	-0.32	0.07	0.00	0.00	20.95
rs143682269	X-11849 levels	GCST90200464	17	12665012	G	C	7679	0.30	0.06	0.00	0.00	22.31
rs17071550	X-11849 levels	GCST90200464	18	63716120	T	C	7679	-0.10	0.02	0.00	0.00	22.44
rs165722	X-11849 levels	GCST90200464	22	19961490	T	C	7679	-0.12	0.02	0.00	0.01	59.13
rs738824	X-11849 levels	GCST90200464	22	24728961	G	C	7679	-0.08	0.02	0.00	0.00	25.96
rs117683601	X-11849 levels	GCST90200464	22	48838937	T	C	7679	-0.30	0.07	0.00	0.00	19.55
rs903359	X-11787 levels	GCST90200465	1	203177621	G	T	8247	0.13	0.03	0.00	0.00	24.33
rs10178409	X-11787 levels	GCST90200465	2	73628380	T	G	8247	-0.44	0.02	0.00	0.08	670.93
rs111730190	X-11787 levels	GCST90200465	4	23901682	C	A	8247	-0.17	0.04	0.00	0.00	22.12
rs6890940	X-11787 levels	GCST90200465	5	66982704	T	C	8247	0.45	0.09	0.00	0.00	26.09
rs7727064	X-11787 levels	GCST90200465	5	86337545	T	G	8247	-0.10	0.02	0.00	0.00	20.37
rs969513	X-11787 levels	GCST90200465	6	56077740	T	G	8247	-0.22	0.04	0.00	0.00	24.49
rs75435028	X-11787 levels	GCST90200465	7	27351659	C	A	8247	0.28	0.06	0.00	0.00	20.52
rs116967756	X-11787 levels	GCST90200465	9	24544852	G	C	8247	-0.39	0.08	0.00	0.00	21.86
rs139587435	X-11787 levels	GCST90200465	10	22495923	C	T	8247	-0.36	0.08	0.00	0.00	19.72
rs7916907	X-11787 levels	GCST90200465	10	54416256	G	C	8247	0.07	0.02	0.00	0.00	20.23
rs4917639	X-11787 levels	GCST90200465	10	94965778	C	A	8247	-0.34	0.02	0.00	0.04	329.27
rs17813381	X-11787 levels	GCST90200465	11	36197107	A	T	8247	0.11	0.02	0.00	0.00	19.64
rs4628683	X-11787 levels	GCST90200465	11	128486833	C	A	8247	0.08	0.02	0.00	0.00	24.59
rs77945651	X-11787 levels	GCST90200465	12	24165217	C	A	8247	-0.17	0.03	0.00	0.00	27.09
rs60554662	X-11787 levels	GCST90200465	12	125583271	A	C	8247	0.25	0.06	0.00	0.00	19.54
rs2390354	X-11787 levels	GCST90200465	13	99866146	A	T	8247	0.11	0.02	0.00	0.00	40.36
rs11634372	X-11787 levels	GCST90200465	15	45013591	C	G	8247	0.10	0.02	0.00	0.00	20.34
rs581726	X-11787 levels	GCST90200465	17	812639	C	T	8247	-0.07	0.02	0.00	0.00	19.94
rs11083516	X-11787 levels	GCST90200465	19	39211503	C	G	8247	-0.07	0.02	0.00	0.00	19.55
rs117780186	X-11787 levels	GCST90200465	21	38520721	C	T	8247	0.31	0.07	0.00	0.00	20.54
rs6002790	X-11787 levels	GCST90200465	22	42537072	C	T	8247	0.10	0.02	0.00	0.00	22.31
rs10917355	X-11632 levels	GCST90200466	1	19302692	A	T	7784	0.10	0.02	0.00	0.00	28.21

rs2071576	X-11632 levels	GCST90200466	1	153565973	T	C	7784	-0.11	0.02	0.00	0.00	29.35
rs6433613	X-11632 levels	GCST90200466	2	176773688	T	C	7784	-0.08	0.02	0.00	0.00	20.35
rs4148324	X-11632 levels	GCST90200466	2	233764076	G	T	7784	-0.09	0.02	0.00	0.00	28.01
rs137950315	X-11632 levels	GCST90200466	2	241873999	G	C	7784	0.23	0.05	0.00	0.00	19.74
rs116249946	X-11632 levels	GCST90200466	3	3017001	G	A	7784	0.27	0.05	0.00	0.00	25.36
rs4593210	X-11632 levels	GCST90200466	4	6388476	G	A	7784	0.14	0.03	0.00	0.00	20.65
rs10022078	X-11632 levels	GCST90200466	4	27329909	C	G	7784	0.17	0.04	0.00	0.00	20.30
rs150565402	X-11632 levels	GCST90200466	4	90052120	T	C	7784	0.29	0.06	0.00	0.00	19.84
rs9467515	X-11632 levels	GCST90200466	6	25435530	G	A	7784	0.08	0.02	0.00	0.00	22.98
rs2000103	X-11632 levels	GCST90200466	6	69886628	G	T	7784	0.09	0.02	0.00	0.00	23.72
rs3125574	X-11632 levels	GCST90200466	6	98438504	C	T	7784	-0.17	0.04	0.00	0.00	20.52
rs2626095	X-11632 levels	GCST90200466	6	124275350	G	A	7784	-0.16	0.04	0.00	0.00	20.18
rs983309	X-11632 levels	GCST90200466	8	9320222	G	T	7784	0.11	0.02	0.00	0.00	21.76
rs78613179	X-11632 levels	GCST90200466	9	1914567	C	G	7784	0.24	0.05	0.00	0.00	20.32
rs2901060	X-11632 levels	GCST90200466	10	115728051	G	A	7784	-0.08	0.02	0.00	0.00	22.15
rs10834273	X-11632 levels	GCST90200466	11	24070136	G	A	7784	0.09	0.02	0.00	0.00	20.17
rs3851186	X-11632 levels	GCST90200466	11	86220283	C	T	7784	-0.09	0.02	0.00	0.00	21.00
rs141195993	X-11632 levels	GCST90200466	11	113587177	G	A	7784	0.39	0.08	0.00	0.00	26.32
rs7964236	X-11632 levels	GCST90200466	12	74898486	G	A	7784	-0.16	0.03	0.00	0.00	25.41
rs9509035	X-11632 levels	GCST90200466	13	20095306	G	A	7784	0.14	0.03	0.00	0.00	20.47
rs4328312	X-11632 levels	GCST90200466	13	39255276	T	C	7784	-0.08	0.02	0.00	0.00	23.81
rs11624480	X-11632 levels	GCST90200466	14	24492962	T	C	7784	-0.12	0.02	0.00	0.00	22.19
rs115342498	X-11632 levels	GCST90200466	16	48689022	T	C	7784	0.26	0.05	0.00	0.00	23.52
rs538423523	X-11632 levels	GCST90200466	16	84175552	A	G	7784	-0.27	0.06	0.00	0.00	20.69
rs144816138	X-11632 levels	GCST90200466	18	49922871	T	C	7784	-0.38	0.07	0.00	0.00	26.58
rs7523165	X-11852 levels	GCST90200467	1	30187556	G	A	7295	-0.09	0.02	0.00	0.00	21.55
rs10184968	X-11852 levels	GCST90200467	2	38414285	T	C	7295	-0.17	0.04	0.00	0.00	21.45
rs13029396	X-11852 levels	GCST90200467	2	48650850	G	A	7295	0.12	0.03	0.00	0.00	20.69
rs35168858	X-11852 levels	GCST90200467	3	104219695	G	C	7295	-0.09	0.02	0.00	0.00	20.48
rs76049053	X-11852 levels	GCST90200467	3	170449664	C	G	7295	-0.39	0.09	0.00	0.00	19.54
rs813294	X-11852 levels	GCST90200467	3	191849923	T	C	7295	0.08	0.02	0.00	0.00	20.28
rs17526078	X-11852 levels	GCST90200467	4	17846477	T	C	7295	0.16	0.03	0.00	0.00	22.24
rs12656063	X-11852 levels	GCST90200467	5	29726187	A	G	7295	0.53	0.12	0.00	0.00	20.23
rs7722711	X-11852 levels	GCST90200467	5	76611026	C	T	7295	0.15	0.03	0.00	0.00	19.63
rs4993462	X-11852 levels	GCST90200467	5	167682401	C	A	7295	-0.08	0.02	0.00	0.00	20.36
rs13160700	X-11852 levels	GCST90200467	5	173743397	G	A	7295	0.29	0.06	0.00	0.00	20.08
rs112140360	X-11852 levels	GCST90200467	8	4956377	G	A	7295	0.16	0.03	0.00	0.00	21.26
rs140972001	X-11852 levels	GCST90200467	8	15508182	A	G	7295	0.42	0.09	0.00	0.00	20.00
rs115983785	X-11852 levels	GCST90200467	8	78977011	C	A	7295	-0.40	0.09	0.00	0.00	21.56
rs146584141	X-11852 levels	GCST90200467	8	121745729	A	G	7295	-0.26	0.06	0.00	0.00	21.12
rs4877406	X-11852 levels	GCST90200467	9	88145890	T	C	7295	-0.08	0.02	0.00	0.00	19.55
rs34481652	X-11852 levels	GCST90200467	9	133932034	T	C	7295	0.16	0.03	0.00	0.00	24.29
rs141491985	X-11852 levels	GCST90200467	10	94788251	T	G	7295	0.37	0.08	0.00	0.00	22.82
rs2918151	X-11852 levels	GCST90200467	10	131163857	C	T	7295	-0.08	0.02	0.00	0.00	21.35
rs1453636	X-11852 levels	GCST90200467	11	124031318	G	C	7295	0.12	0.02	0.00	0.00	24.52
rs77896641	X-11852 levels	GCST90200467	12	61275129	T	C	7295	0.15	0.03	0.00	0.00	20.47
rs10483866	X-11852 levels	GCST90200467	14	75400838	C	G	7295	-0.14	0.03	0.00	0.00	24.75
rs144508905	X-11852 levels	GCST90200467	15	50281413	G	A	7295	-0.27	0.06	0.00	0.00	20.40
rs2030039	X-11852 levels	GCST90200467	15	62737436	A	G	7295	-0.08	0.02	0.00	0.00	21.51
rs179587	X-11852 levels	GCST90200467	16	13690146	T	C	7295	0.22	0.05	0.00	0.00	19.63
rs140587970	X-11852 levels	GCST90200467	19	10253620	A	G	7295	0.36	0.06	0.00	0.00	33.41
rs17368073	X-11847 levels	GCST90200468	1	76756487	A	G	7193	-0.16	0.03	0.00	0.00	22.67
rs548975115	X-11847 levels	GCST90200468	1	185639874	C	G	7193	0.24	0.05	0.00	0.00	20.84
rs10920555	X-11847 levels	GCST90200468	1	203057893	A	G	7193	-0.08	0.02	0.00	0.00	19.51
rs111336355	X-11847 levels	GCST90200468	2	3830490	T	C	7193	-0.21	0.04	0.00	0.00	22.83
rs72772464	X-11847 levels	GCST90200468	2	16189248	A	G	7193	0.32	0.07	0.00	0.00	20.63
rs55750090	X-11847 levels	GCST90200468	2	166302001	C	T	7193	0.39	0.08	0.00	0.00	25.97

rs112691118	X-11847 levels	GCST90200468	4	53889691	A	G	7193	0.17	0.04	0.00	0.00	22.19
rs1018934	X-11847 levels	GCST90200468	4	113633703	G	A	7193	0.08	0.02	0.00	0.00	22.41
rs78021441	X-11847 levels	GCST90200468	4	139549451	T	G	7193	-0.09	0.02	0.00	0.00	20.07
rs4380603	X-11847 levels	GCST90200468	5	68110386	A	G	7193	0.11	0.02	0.00	0.00	24.53
rs4398700	X-11847 levels	GCST90200468	6	91950881	T	C	7193	-0.20	0.04	0.00	0.00	21.13
rs72990403	X-11847 levels	GCST90200468	6	143165433	C	A	7193	0.18	0.04	0.00	0.00	20.46
rs146287641	X-11847 levels	GCST90200468	8	16461922	C	T	7193	-0.26	0.06	0.00	0.00	20.60
rs371094489	X-11847 levels	GCST90200468	11	67860802	C	T	7193	-0.14	0.03	0.00	0.00	21.59
rs77380122	X-11847 levels	GCST90200468	11	70786669	A	G	7193	-0.20	0.04	0.00	0.00	20.88
rs78529703	X-11847 levels	GCST90200468	11	111248445	T	A	7193	-0.15	0.03	0.00	0.00	21.57
rs45547436	X-11847 levels	GCST90200468	13	28200554	T	C	7193	0.30	0.06	0.00	0.00	22.28
rs146687346	X-11847 levels	GCST90200468	18	31267555	T	C	7193	-0.37	0.08	0.00	0.00	20.58
rs5760617	X-11847 levels	GCST90200468	22	24740145	A	G	7193	-0.08	0.02	0.00	0.00	24.74
rs3753782	X-11483 levels	GCST90200469	1	21553031	G	A	7798	-0.10	0.02	0.00	0.00	20.20
rs111883187	X-11483 levels	GCST90200469	1	173929707	G	A	7798	0.28	0.06	0.00	0.00	21.78
rs7519138	X-11483 levels	GCST90200469	1	228774762	A	G	7798	-0.08	0.02	0.00	0.00	20.52
rs147357603	X-11483 levels	GCST90200469	2	123441160	A	G	7798	-0.24	0.05	0.00	0.00	24.13
rs67992891	X-11483 levels	GCST90200469	2	204967051	C	G	7798	0.09	0.02	0.00	0.00	19.62
rs114653027	X-11483 levels	GCST90200469	3	5538620	A	G	7798	-0.30	0.06	0.00	0.00	23.89
rs116052463	X-11483 levels	GCST90200469	3	146976557	T	C	7798	-0.27	0.06	0.00	0.00	20.28
rs115895510	X-11483 levels	GCST90200469	4	98801286	T	C	7798	-0.46	0.09	0.00	0.00	26.62
rs10018182	X-11483 levels	GCST90200469	4	121983040	G	T	7798	-0.07	0.02	0.00	0.00	21.29
rs10947493	X-11483 levels	GCST90200469	6	9391823	C	T	7798	0.12	0.03	0.00	0.00	23.31
rs12527410	X-11483 levels	GCST90200469	6	40678820	C	T	7798	0.08	0.02	0.00	0.00	20.71
rs77857737	X-11483 levels	GCST90200469	6	74666333	T	A	7798	0.25	0.05	0.00	0.00	20.76
rs78427731	X-11483 levels	GCST90200469	6	115923581	T	C	7798	-0.22	0.05	0.00	0.00	20.85
rs12201648	X-11483 levels	GCST90200469	6	150942033	C	T	7798	0.07	0.02	0.00	0.00	19.63
rs7797147	X-11483 levels	GCST90200469	7	137759283	G	A	7798	0.08	0.02	0.00	0.00	23.91
rs117685732	X-11483 levels	GCST90200469	9	98530901	T	C	7798	-0.30	0.07	0.00	0.00	19.58
rs2028403	X-11483 levels	GCST90200469	9	109283103	C	A	7798	0.08	0.02	0.00	0.00	21.37
rs193284362	X-11483 levels	GCST90200469	9	124848152	C	T	7798	-0.30	0.07	0.00	0.00	20.17
rs35929027	X-11483 levels	GCST90200469	10	55446665	T	C	7798	-0.15	0.03	0.00	0.00	24.76
rs148659822	X-11483 levels	GCST90200469	10	65801350	C	A	7798	0.25	0.05	0.00	0.00	22.15
rs34623898	X-11483 levels	GCST90200469	11	84135864	T	G	7798	0.22	0.05	0.00	0.00	22.53
rs112799949	X-11483 levels	GCST90200469	12	18147080	G	A	7798	0.44	0.10	0.00	0.00	20.53
rs9922808	X-11483 levels	GCST90200469	16	11599948	C	T	7798	-0.08	0.02	0.00	0.00	26.72
rs78180636	X-11483 levels	GCST90200469	16	58959588	C	T	7798	-0.39	0.08	0.00	0.00	21.71
rs9319915	X-11483 levels	GCST90200469	18	54833939	G	A	7798	0.43	0.09	0.00	0.00	20.10
rs6018515	X-11483 levels	GCST90200469	20	47511352	A	G	7798	-0.14	0.03	0.00	0.00	22.09
rs143557785	X-11470 levels	GCST90200470	1	1484142	G	A	8134	-0.40	0.08	0.00	0.00	22.03
rs10918851	X-11470 levels	GCST90200470	1	168222660	A	T	8134	0.07	0.02	0.00	0.00	20.23
rs7580212	X-11470 levels	GCST90200470	2	8445670	C	T	8134	0.09	0.02	0.00	0.00	35.33
rs112115240	X-11470 levels	GCST90200470	2	31492465	G	A	8134	-0.40	0.07	0.00	0.00	37.01
rs72794638	X-11470 levels	GCST90200470	2	31561978	C	T	8134	-0.68	0.06	0.00	0.02	146.35
rs9282858	X-11470 levels	GCST90200470	2	31580756	T	C	8134	-0.59	0.04	0.00	0.02	202.16
rs55834920	X-11470 levels	GCST90200470	2	31626839	T	C	8134	-0.18	0.02	0.00	0.01	55.59
rs191237582	X-11470 levels	GCST90200470	2	32244887	G	A	8134	0.23	0.04	0.00	0.00	26.98
rs281476	X-11470 levels	GCST90200470	2	46173465	A	G	8134	0.09	0.02	0.00	0.00	23.98
rs68171741	X-11470 levels	GCST90200470	3	2292027	T	C	8134	0.08	0.02	0.00	0.00	20.05
rs77874994	X-11470 levels	GCST90200470	3	17488829	A	G	8134	0.19	0.04	0.00	0.00	22.04
rs34690317	X-11470 levels	GCST90200470	3	72336935	T	G	8134	0.10	0.02	0.00	0.00	21.22
rs4302391	X-11470 levels	GCST90200470	3	176862465	C	T	8134	-0.07	0.02	0.00	0.00	19.74
rs139321316	X-11470 levels	GCST90200470	4	74617273	C	A	8134	0.36	0.08	0.00	0.00	20.63
rs72822327	X-11470 levels	GCST90200470	6	9393020	A	G	8134	0.18	0.04	0.00	0.00	22.96
rs116196017	X-11470 levels	GCST90200470	6	31980027	G	A	8134	-0.88	0.06	0.00	0.02	204.52

rs146280229	X-11470 levels	GCST90200470	6	32049830	C	G	8134	-0.48	0.07	0.00	0.01	53.50
rs16869834	X-11470 levels	GCST90200470	6	32211932	G	A	8134	-0.17	0.03	0.00	0.00	26.47
rs4870053	X-11470 levels	GCST90200470	6	151771614	A	G	8134	0.08	0.02	0.00	0.00	21.18
rs9364287	X-11470 levels	GCST90200470	6	168758176	A	G	8134	-0.13	0.03	0.00	0.00	19.52
rs116914745	X-11470 levels	GCST90200470	7	46513361	T	A	8134	0.17	0.04	0.00	0.00	21.02
rs10959114	X-11470 levels	GCST90200470	9	10464917	C	A	8134	-0.13	0.03	0.00	0.00	20.37
rs35233264	X-11470 levels	GCST90200470	9	18890378	A	G	8134	-0.08	0.02	0.00	0.00	19.86
rs61863655	X-11470 levels	GCST90200470	10	74274903	A	G	8134	0.32	0.07	0.00	0.00	21.38
rs1774971	X-11470 levels	GCST90200470	10	88383058	A	C	8134	0.13	0.03	0.00	0.00	21.27
rs190942123	X-11470 levels	GCST90200470	10	102855886	C	T	8134	-0.15	0.03	0.00	0.00	21.80
rs28705307	X-11470 levels	GCST90200470	11	45539198	G	A	8134	0.12	0.03	0.00	0.00	23.05
rs188803806	X-11470 levels	GCST90200470	11	63073303	T	A	8134	0.17	0.03	0.00	0.00	28.32
rs10892559	X-11470 levels	GCST90200470	11	120285669	T	C	8134	-0.07	0.02	0.00	0.00	20.61
rs56396149	X-11470 levels	GCST90200470	13	44835123	A	G	8134	-0.17	0.04	0.00	0.00	22.14
rs2041957	X-11470 levels	GCST90200470	14	76987098	C	T	8134	-0.20	0.04	0.00	0.00	20.61
rs72701722	X-11470 levels	GCST90200470	14	81326663	T	C	8134	-0.26	0.06	0.00	0.00	20.06
rs112635299	X-11470 levels	GCST90200470	14	94371805	T	G	8134	0.25	0.06	0.00	0.00	20.35
rs10420488	X-11470 levels	GCST90200470	19	47728655	G	A	8134	-0.08	0.02	0.00	0.00	23.56
rs140530867	X-11381 levels	GCST90200471	2	16798222	C	T	8225	-1.72	0.37	0.00	0.00	21.80
rs73157799	X-11381 levels	GCST90200471	3	104108412	C	T	8225	-0.25	0.06	0.00	0.00	19.55
rs17050475	X-11381 levels	GCST90200471	4	129490411	A	T	8225	0.09	0.02	0.00	0.00	19.89
rs77767452	X-11381 levels	GCST90200471	5	79535063	C	T	8225	-0.15	0.03	0.00	0.00	22.06
rs11242109	X-11381 levels	GCST90200471	5	132341354	T	G	8225	-0.14	0.02	0.00	0.01	84.30
rs77010315	X-11381 levels	GCST90200471	5	151343594	A	C	8225	-0.44	0.07	0.00	0.00	38.98
rs12208357	X-11381 levels	GCST90200471	6	160122116	T	C	8225	-0.32	0.03	0.00	0.01	119.13
rs34059508	X-11381 levels	GCST90200471	6	160154805	A	G	8225	-0.36	0.05	0.00	0.01	57.09
rs316175	X-11381 levels	GCST90200471	6	160339412	G	A	8225	0.08	0.02	0.00	0.00	21.72
rs141419888	X-11381 levels	GCST90200471	7	104836302	G	C	8225	0.23	0.05	0.00	0.00	20.12
rs148251260	X-11381 levels	GCST90200471	8	71640307	A	G	8225	0.30	0.06	0.00	0.00	21.78
rs77982192	X-11381 levels	GCST90200471	10	17406346	G	T	8225	-0.15	0.03	0.00	0.00	23.01
rs3026773	X-11381 levels	GCST90200471	10	43122088	A	G	8225	-0.77	0.18	0.00	0.00	19.54
rs1171617	X-11381 levels	GCST90200471	10	59707424	T	G	8225	0.18	0.02	0.00	0.01	94.56
rs2304803	X-11381 levels	GCST90200471	10	88901941	G	A	8225	-0.08	0.02	0.00	0.00	20.86
rs112436013	X-11381 levels	GCST90200471	11	35650220	A	G	8225	-0.18	0.04	0.00	0.00	21.70
rs184211330	X-11381 levels	GCST90200471	11	134722222	G	C	8225	-0.20	0.04	0.00	0.00	19.91
rs9603649	X-11381 levels	GCST90200471	13	39931945	A	G	8225	-0.08	0.02	0.00	0.00	26.96
rs7497066	X-11381 levels	GCST90200471	15	25824423	A	G	8225	-0.08	0.02	0.00	0.00	21.99
rs7167163	X-11381 levels	GCST90200471	15	46723501	C	T	8225	-0.15	0.03	0.00	0.00	21.00
rs145517757	X-11381 levels	GCST90200471	17	44284679	T	C	8225	-0.24	0.05	0.00	0.00	19.53
rs2908435	X-11381 levels	GCST90200471	17	49577141	C	T	8225	-0.08	0.02	0.00	0.00	24.60
rs60177389	X-11381 levels	GCST90200471	18	29410169	C	A	8225	0.17	0.03	0.00	0.00	28.97
rs7350994	X-11381 levels	GCST90200471	18	68520387	G	C	8225	0.08	0.02	0.00	0.00	20.22
rs6069700	X-11381 levels	GCST90200471	20	56304232	A	G	8225	-0.17	0.04	0.00	0.00	21.61
rs17348202	X-11850 levels	GCST90200472	2	221207458	C	T	7629	0.15	0.03	0.00	0.00	19.67
rs4858791	X-11850 levels	GCST90200472	3	165203182	T	C	7629	0.20	0.04	0.00	0.00	21.69
rs7664690	X-11850 levels	GCST90200472	4	28011100	C	T	7629	-0.09	0.02	0.00	0.00	20.18
rs79449392	X-11850 levels	GCST90200472	4	61293006	A	G	7629	0.32	0.07	0.00	0.00	21.38
rs138886343	X-11850 levels	GCST90200472	5	20740038	A	G	7629	-0.20	0.04	0.00	0.00	24.84
rs1205283	X-11850 levels	GCST90200472	7	77965746	G	T	7629	-0.09	0.02	0.00	0.00	21.82
rs76033483	X-11850 levels	GCST90200472	8	4280433	T	C	7629	0.21	0.05	0.00	0.00	20.28
rs4831602	X-11850 levels	GCST90200472	8	14543369	T	C	7629	-0.13	0.03	0.00	0.00	20.03
rs62512054	X-11850 levels	GCST90200472	8	57971256	C	T	7629	-0.33	0.07	0.00	0.00	20.73
rs10963516	X-11850 levels	GCST90200472	9	18206784	A	G	7629	0.09	0.02	0.00	0.00	21.80
rs11597566	X-11850 levels	GCST90200472	10	25117742	G	A	7629	0.23	0.05	0.00	0.00	20.11
rs4576774	X-11850 levels	GCST90200472	10	113787768	C	A	7629	0.07	0.02	0.00	0.00	20.38
rs10842320	X-11850 levels	GCST90200472	12	24299073	T	G	7629	-0.09	0.02	0.00	0.00	23.49
rs142840963	X-11850 levels	GCST90200472	13	62566252	C	T	7629	0.21	0.05	0.00	0.00	20.22
rs181782952	X-11850 levels	GCST90200472	13	67698750	C	A	7629	-0.32	0.07	0.00	0.00	21.78
rs72676435	X-11850 levels	GCST90200472	14	20599774	T	C	7629	-0.17	0.04	0.00	0.00	20.76
rs12433497	X-11850 levels	GCST90200472	14	34923676	T	C	7629	0.09	0.02	0.00	0.00	19.52

rs76917355	X-11850 levels	GCST90200472	15	41970649	A	G	7629	0.14	0.03	0.00	0.00	21.55
rs112260967	X-11850 levels	GCST90200472	15	65267622	A	T	7629	0.15	0.03	0.00	0.00	22.32
rs75195552	X-11850 levels	GCST90200472	17	63446864	A	G	7629	-0.09	0.02	0.00	0.00	23.27
rs117950536	X-11850 levels	GCST90200472	18	26784102	C	A	7629	-0.29	0.06	0.00	0.00	21.96
rs58280688	X-11850 levels	GCST90200472	20	35506701	C	G	7629	-0.22	0.05	0.00	0.00	20.06
rs113125510	X-11850 levels	GCST90200472	21	13896015	A	G	7629	-0.19	0.04	0.00	0.00	23.82
rs3884707	X-11850 levels	GCST90200472	22	25827140	T	G	7629	0.08	0.02	0.00	0.00	21.02
rs6692460	X-11795 levels	GCST90200473	1	3350578	G	A	8238	-0.25	0.05	0.00	0.00	21.87
rs28941785	X-11795 levels	GCST90200473	1	70415987	T	C	8238	0.79	0.07	0.00	0.01	114.16
rs3940549	X-11795 levels	GCST90200473	2	135381057	G	A	8238	0.08	0.02	0.00	0.00	28.14
rs56395835	X-11795 levels	GCST90200473	6	10910458	T	C	8238	-0.17	0.04	0.00	0.00	19.69
rs9395779	X-11795 levels	GCST90200473	6	52303275	G	A	8238	-0.11	0.02	0.00	0.00	23.16
rs78672416	X-11795 levels	GCST90200473	9	25565020	A	G	8238	0.25	0.06	0.00	0.00	19.51
rs61847378	X-11795 levels	GCST90200473	10	12745171	T	C	8238	-0.24	0.05	0.00	0.00	27.10
rs10454465	X-11795 levels	GCST90200473	10	70250578	G	C	8238	0.08	0.02	0.00	0.00	24.62
rs17885600	X-11795 levels	GCST90200473	10	104267428	T	A	8238	0.31	0.07	0.00	0.00	20.58
rs11038288	X-11795 levels	GCST90200473	11	45054301	C	G	8238	0.08	0.02	0.00	0.00	19.95
rs145507996	X-11795 levels	GCST90200473	14	30906638	C	T	8238	0.41	0.09	0.00	0.00	21.18
rs1534597	X-11795 levels	GCST90200473	15	32715600	A	C	8238	-0.25	0.05	0.00	0.00	22.86
rs72744476	X-11795 levels	GCST90200473	15	66179056	A	G	8238	-0.20	0.04	0.00	0.00	23.06
rs57226474	X-11795 levels	GCST90200473	17	63203322	A	G	8238	0.07	0.02	0.00	0.00	21.68
rs34960453	X-11795 levels	GCST90200473	19	18750669	T	C	8238	0.20	0.04	0.00	0.00	20.70
rs112115240	X-11444 levels	GCST90200474	2	31492465	G	A	8206	-0.46	0.06	0.00	0.01	52.68
rs72794638	X-11444 levels	GCST90200474	2	31561978	C	T	8206	-0.76	0.05	0.00	0.02	198.36
rs9282858	X-11444 levels	GCST90200474	2	31580756	T	C	8206	-0.68	0.04	0.00	0.03	294.55
rs55834920	X-11444 levels	GCST90200474	2	31626839	T	C	8206	-0.23	0.02	0.00	0.01	91.33
rs191237582	X-11444 levels	GCST90200474	2	32244887	G	A	8206	0.23	0.04	0.00	0.00	30.80
rs190522553	X-11444 levels	GCST90200474	3	9465070	C	T	8206	-0.40	0.09	0.00	0.00	21.44
rs371566017	X-11444 levels	GCST90200474	3	20018916	C	T	8206	0.12	0.03	0.00	0.00	19.86
rs185011719	X-11444 levels	GCST90200474	3	88208393	C	G	8206	-0.54	0.12	0.00	0.00	20.64
rs17393391	X-11444 levels	GCST90200474	3	139267761	G	T	8206	0.08	0.02	0.00	0.00	23.34
rs1038883	X-11444 levels	GCST90200474	3	171358804	A	G	8206	0.07	0.02	0.00	0.00	19.79
rs1960773	X-11444 levels	GCST90200474	4	68671436	C	A	8206	-0.07	0.01	0.00	0.00	21.17
rs13151252	X-11444 levels	GCST90200474	4	69474535	C	T	8206	-0.08	0.02	0.00	0.00	20.96
rs2724587	X-11444 levels	GCST90200474	4	99682293	A	G	8206	0.10	0.02	0.00	0.00	19.82
rs716622	X-11444 levels	GCST90200474	4	187217098	C	T	8206	0.07	0.01	0.00	0.00	20.23
rs6449708	X-11444 levels	GCST90200474	5	51555741	C	T	8206	-0.07	0.01	0.00	0.00	23.41
rs142149249	X-11444 levels	GCST90200474	6	157408644	C	T	8206	-0.25	0.05	0.00	0.00	22.26
rs10111392	X-11444 levels	GCST90200474	8	15876802	T	C	8206	-0.21	0.04	0.00	0.00	21.89
rs2954038	X-11444 levels	GCST90200474	8	125495147	A	C	8206	-0.11	0.02	0.00	0.01	48.97
rs3739593	X-11444 levels	GCST90200474	9	484336	T	C	8206	-0.09	0.02	0.00	0.00	21.49
rs7847337	X-11444 levels	GCST90200474	9	2181173	C	T	8206	-0.14	0.03	0.00	0.00	25.67
rs188302697	X-11444 levels	GCST90200474	10	104748671	C	G	8206	0.28	0.06	0.00	0.00	19.52
rs56858810	X-11444 levels	GCST90200474	10	123111126	C	T	8206	0.10	0.02	0.00	0.00	22.28
rs150262653	X-11444 levels	GCST90200474	11	63092993	G	A	8206	0.18	0.03	0.00	0.00	34.26
rs60170989	X-11444 levels	GCST90200474	12	88756620	C	T	8206	0.30	0.07	0.00	0.00	20.29
rs79376274	X-11444 levels	GCST90200474	12	102003905	A	T	8206	0.11	0.02	0.00	0.00	22.28
rs76946001	X-11444 levels	GCST90200474	12	129232137	G	A	8206	0.28	0.06	0.00	0.00	24.81
rs61946921	X-11444 levels	GCST90200474	13	30216244	C	T	8206	0.09	0.02	0.00	0.00	20.57
rs112635299	X-11444 levels	GCST90200474	14	94371805	T	G	8206	0.24	0.05	0.00	0.00	20.51
rs142395500	X-11444 levels	GCST90200474	18	31934009	A	G	8206	-0.21	0.04	0.00	0.00	23.25
rs113162347	X-11444 levels	GCST90200474	18	54563358	G	T	8206	-0.23	0.05	0.00	0.00	22.35
rs57233947	X-11444 levels	GCST90200474	18	78709379	T	C	8206	0.18	0.04	0.00	0.00	19.78
rs7251153	X-11444 levels	GCST90200474	19	47737973	C	T	8206	0.08	0.02	0.00	0.00	24.94
rs4821455	X-11444 levels	GCST90200474	22	36107378	T	G	8206	0.07	0.02	0.00	0.00	19.77
rs11579284	X-11858 levels	GCST90200475	1	54165692	T	C	6008	-0.22	0.04	0.00	0.00	28.62
rs12478932	X-11858 levels	GCST90200475	2	30764828	A	G	6008	-0.15	0.03	0.00	0.00	20.62
rs73090250	X-11858 levels	GCST90200475	3	53690915	T	C	6008	-0.34	0.08	0.00	0.00	19.76
rs2056334	X-11858 levels	GCST90200475	3	152187597	A	C	6008	0.09	0.02	0.00	0.00	22.19

rs11124628 1	X-11858 levels	GCST90200475	4	12187357	A	G	6008	0.52	0.11	0.00	0.00	21.11
rs4619875	X-11858 levels	GCST90200475	4	152779978	T	C	6008	-0.08	0.02	0.00	0.00	20.55
rs79000936	X-11858 levels	GCST90200475	4	186623309	T	C	6008	0.24	0.05	0.00	0.00	19.92
rs917042	X-11858 levels	GCST90200475	5	12442504	G	T	6008	0.08	0.02	0.00	0.00	22.03
rs788512	X-11858 levels	GCST90200475	5	53947584	T	C	6008	0.15	0.03	0.00	0.00	21.18
rs4380603	X-11858 levels	GCST90200475	5	68110386	A	G	6008	0.10	0.02	0.00	0.00	19.95
rs7713886	X-11858 levels	GCST90200475	5	148645595	T	C	6008	0.11	0.02	0.00	0.00	20.57
rs11243125	X-11858 levels	GCST90200475	6	6869665	T	G	6008	0.09	0.02	0.00	0.00	22.25
rs76762417	X-11858 levels	GCST90200475	7	112139779	C	G	6008	0.30	0.07	0.00	0.00	20.38
rs10097327	X-11858 levels	GCST90200475	8	2118244	C	T	6008	-0.09	0.02	0.00	0.00	25.12
rs79962891	X-11858 levels	GCST90200475	8	122824404	C	T	6008	-0.17	0.03	0.00	0.00	25.86
rs3793730	X-11858 levels	GCST90200475	10	6480736	C	G	6008	0.12	0.03	0.00	0.00	20.95
rs16918109	X-11858 levels	GCST90200475	11	28653005	C	T	6008	0.28	0.06	0.00	0.00	19.54
rs6995563	X-11858 levels	GCST90200475	12	62678751	T	C	6008	0.16	0.04	0.00	0.00	20.70
rs11788111 6	X-11858 levels	GCST90200475	12	76706985	G	T	6008	-0.26	0.06	0.00	0.00	20.56
rs54416889 2	X-11858 levels	GCST90200475	12	105247735	C	T	6008	-0.23	0.05	0.00	0.00	20.62
rs188620	X-11858 levels	GCST90200475	14	60222460	C	A	6008	-0.19	0.04	0.00	0.00	20.30
rs243219	X-11858 levels	GCST90200475	14	89538667	T	C	6008	0.08	0.02	0.00	0.00	20.25
rs8022713	X-11858 levels	GCST90200475	14	95722510	A	T	6008	-0.11	0.02	0.00	0.00	21.45
rs11237306 1	X-11858 levels	GCST90200475	15	80098263	G	A	6008	-0.21	0.04	0.00	0.00	23.21
rs11729879 8	X-11858 levels	GCST90200475	16	55495982	T	C	6008	-0.31	0.07	0.00	0.00	20.64
rs4795351	X-11858 levels	GCST90200475	17	28146674	A	C	6008	-0.08	0.02	0.00	0.00	19.71
rs2918333	X-11858 levels	GCST90200475	19	36259637	A	G	6008	0.15	0.03	0.00	0.00	19.72
rs13915080 4	X-11858 levels	GCST90200475	20	61829629	A	G	6008	-0.33	0.07	0.00	0.00	22.05
rs7536712	X-11843 levels	GCST90200476	1	5193604	C	T	7230	-0.07	0.02	0.00	0.00	19.71
rs10865454	X-11843 levels	GCST90200476	2	81352315	A	G	7230	-0.08	0.02	0.00	0.00	22.28
rs11809325 6	X-11843 levels	GCST90200476	2	151622628	C	G	7230	-0.23	0.05	0.00	0.00	24.21
rs56068899	X-11843 levels	GCST90200476	2	170307134	C	T	7230	-0.23	0.05	0.00	0.00	24.91
rs6770457	X-11843 levels	GCST90200476	3	195026386	A	G	7230	-0.30	0.06	0.00	0.00	25.40
rs76887464	X-11843 levels	GCST90200476	4	31680444	T	G	7230	-0.34	0.07	0.00	0.00	20.68
rs79449392	X-11843 levels	GCST90200476	4	61293006	A	G	7230	0.32	0.07	0.00	0.00	20.47
rs756004	X-11843 levels	GCST90200476	4	89243561	G	C	7230	-0.08	0.02	0.00	0.00	22.52
rs13947450 6	X-11843 levels	GCST90200476	4	148598361	G	T	7230	0.35	0.07	0.00	0.00	23.22
rs19076439 6	X-11843 levels	GCST90200476	6	46535280	G	A	7230	-0.30	0.07	0.00	0.00	21.05
rs79872474	X-11843 levels	GCST90200476	6	83067402	T	C	7230	-0.22	0.05	0.00	0.00	20.53
rs62442119	X-11843 levels	GCST90200476	6	165189534	G	A	7230	0.07	0.02	0.00	0.00	20.17
rs56388170	X-11843 levels	GCST90200476	7	28684757	T	G	7230	0.09	0.02	0.00	0.00	21.96
rs11777201 8	X-11843 levels	GCST90200476	7	110732109	C	T	7230	0.35	0.07	0.00	0.00	22.24
rs62508795	X-11843 levels	GCST90200476	8	31561713	A	G	7230	-0.28	0.06	0.00	0.00	20.48
rs11363109 0	X-11843 levels	GCST90200476	8	59037662	T	C	7230	0.51	0.11	0.00	0.00	21.38
rs1243191	X-11843 levels	GCST90200476	10	21580680	G	A	7230	0.10	0.02	0.00	0.00	20.22
rs12809597	X-11843 levels	GCST90200476	12	51962539	G	T	7230	-0.09	0.02	0.00	0.00	22.90
rs11208874 9	X-11843 levels	GCST90200476	12	119591356	A	G	7230	0.17	0.04	0.00	0.00	20.42
rs18178295 2	X-11843 levels	GCST90200476	13	67698750	C	A	7230	-0.34	0.07	0.00	0.00	24.13
rs74999006	X-11843 levels	GCST90200476	14	96300544	C	T	7230	-0.15	0.03	0.00	0.00	25.23
rs11633018	X-11843 levels	GCST90200476	15	74399169	T	C	7230	-0.23	0.05	0.00	0.00	21.50
rs19325357 3	X-11843 levels	GCST90200476	17	63990634	A	T	7230	0.34	0.07	0.00	0.00	23.13
rs34651486	X-11843 levels	GCST90200476	21	13897240	T	C	7230	-0.19	0.04	0.00	0.00	20.06
rs66859195	X-12127 levels	GCST90200477	1	3918865	C	T	5878	0.14	0.03	0.00	0.00	20.59
rs2881832	X-12127 levels	GCST90200477	1	165078549	C	T	5878	0.09	0.02	0.00	0.00	23.14
rs906864	X-12127 levels	GCST90200477	2	30259233	A	G	5878	0.09	0.02	0.00	0.00	20.71
rs10185948	X-12127 levels	GCST90200477	2	38209987	C	T	5878	-0.12	0.03	0.00	0.00	20.01
rs6756200	X-12127 levels	GCST90200477	2	134723708	C	T	5878	-0.09	0.02	0.00	0.00	23.35
rs867064	X-12127 levels	GCST90200477	3	78274222	A	C	5878	0.21	0.04	0.00	0.00	22.42
rs6448132	X-12127 levels	GCST90200477	4	22191139	C	T	5878	-0.14	0.03	0.00	0.00	19.74
rs6815441	X-12127 levels	GCST90200477	4	85809361	T	C	5878	-0.13	0.03	0.00	0.00	23.25
rs28694248	X-12127 levels	GCST90200477	4	111982818	A	G	5878	-0.10	0.02	0.00	0.00	22.25
rs6859362	X-12127 levels	GCST90200477	5	11635033	C	T	5878	0.29	0.06	0.00	0.00	20.56
rs6898919	X-12127 levels	GCST90200477	5	178745478	A	G	5878	0.22	0.05	0.00	0.00	21.98
rs3093956	X-12127 levels	GCST90200477	6	31459190	C	T	5878	0.14	0.02	0.00	0.01	35.08

rs3798550	X-12127 levels	GCST90200477	6	34549452	A	G	5878	-0.10	0.02	0.00	0.00	20.38
rs4385425	X-12127 levels	GCST90200477	7	50267738	G	A	5878	-0.11	0.02	0.00	0.01	31.58
rs11723024 7	X-12127 levels	GCST90200477	8	8502157	G	A	5878	0.41	0.09	0.00	0.00	20.85
rs18281432 2	X-12127 levels	GCST90200477	8	24263529	C	T	5878	-0.28	0.06	0.00	0.00	20.33
rs10124831	X-12127 levels	GCST90200477	9	91070638	C	T	5878	0.08	0.02	0.00	0.00	20.01
rs35191214	X-12127 levels	GCST90200477	9	136737626	G	T	5878	0.18	0.04	0.00	0.00	23.72
rs1171615	X-12127 levels	GCST90200477	10	59709332	T	C	5878	0.10	0.02	0.00	0.00	23.36
rs72833970	X-12127 levels	GCST90200477	10	97448749	G	C	5878	-0.10	0.02	0.00	0.00	23.39
rs12295924	X-12127 levels	GCST90200477	11	18838729	T	C	5878	0.15	0.03	0.00	0.00	19.91
rs11787103 9	X-12127 levels	GCST90200477	11	41035636	T	G	5878	0.28	0.06	0.00	0.00	21.81
rs9539548	X-12127 levels	GCST90200477	13	62678863	C	T	5878	0.10	0.02	0.00	0.00	19.99
rs9322948	X-12127 levels	GCST90200477	14	35338618	A	T	5878	0.10	0.02	0.00	0.00	25.32
rs2023605	X-12127 levels	GCST90200477	14	86469233	C	T	5878	-0.16	0.04	0.00	0.00	20.68
rs6500756	X-12127 levels	GCST90200477	16	6089659	G	T	5878	-0.16	0.03	0.00	0.00	20.77
rs72817882	X-12127 levels	GCST90200477	17	34591615	G	T	5878	0.28	0.06	0.00	0.00	19.72
rs16944974	X-12127 levels	GCST90200477	18	28584661	A	G	5878	0.09	0.02	0.00	0.00	20.56
rs11880677	X-12127 levels	GCST90200477	19	40872815	A	T	5878	-0.17	0.04	0.00	0.00	21.22
rs14485152 8	X-12127 levels	GCST90200477	20	46230567	G	A	5878	-0.36	0.08	0.00	0.00	20.35
rs17027949	X-12221 levels	GCST90200478	2	41542487	G	T	6819	0.12	0.03	0.00	0.00	19.79
rs11461967 2	X-12221 levels	GCST90200478	2	229877017	G	A	6819	-0.29	0.06	0.00	0.00	20.61
rs2398697	X-12221 levels	GCST90200478	3	102121505	G	A	6819	0.09	0.02	0.00	0.00	20.13
rs34924045	X-12221 levels	GCST90200478	4	98955597	T	C	6819	-0.12	0.03	0.00	0.00	20.61
rs72708324	X-12221 levels	GCST90200478	4	176278438	G	T	6819	0.10	0.02	0.00	0.00	20.51
rs7719723	X-12221 levels	GCST90200478	5	2137644	G	T	6819	0.08	0.02	0.00	0.00	19.57
rs12192906	X-12221 levels	GCST90200478	6	53266491	A	T	6819	0.14	0.03	0.00	0.00	20.91
rs15131431 1	X-12221 levels	GCST90200478	7	84726493	T	C	6819	0.16	0.03	0.00	0.00	23.98
rs28676577	X-12221 levels	GCST90200478	7	106535824	A	G	6819	0.18	0.04	0.00	0.00	19.61
rs18938743 0	X-12221 levels	GCST90200478	9	10952260	G	A	6819	-0.18	0.04	0.00	0.00	22.13
rs55776482	X-12221 levels	GCST90200478	9	31328224	A	C	6819	-0.08	0.02	0.00	0.00	19.83
rs73664373	X-12221 levels	GCST90200478	9	104900023	C	G	6819	0.14	0.03	0.00	0.00	19.72
rs4838131	X-12221 levels	GCST90200478	9	124214067	G	A	6819	-0.10	0.02	0.00	0.00	20.22
rs1978359	X-12221 levels	GCST90200478	9	126061607	G	A	6819	0.10	0.02	0.00	0.00	23.42
rs18450895 1	X-12221 levels	GCST90200478	10	25605880	G	A	6819	-0.27	0.06	0.00	0.00	19.66
rs7904900	X-12221 levels	GCST90200478	10	91947035	T	G	6819	0.14	0.03	0.00	0.00	19.55
rs72981746	X-12221 levels	GCST90200478	11	95156680	T	C	6819	-0.31	0.06	0.00	0.00	26.58
rs7133246	X-12221 levels	GCST90200478	12	113761119	T	C	6819	0.13	0.03	0.00	0.00	21.60
rs10162468	X-12221 levels	GCST90200478	14	87673165	A	G	6819	-0.16	0.03	0.00	0.00	20.33
rs4238402	X-12221 levels	GCST90200478	15	66158493	C	T	6819	0.10	0.02	0.00	0.00	19.77
rs14773948 8	X-12221 levels	GCST90200478	16	28112089	A	G	6819	-0.31	0.07	0.00	0.00	19.66
rs77480694	X-12221 levels	GCST90200478	16	86666367	G	A	6819	-0.28	0.06	0.00	0.00	21.09
rs10405514	X-12221 levels	GCST90200478	19	50790275	A	G	6819	0.20	0.05	0.00	0.00	19.72
rs12167840	X-12221 levels	GCST90200478	22	32493571	T	C	6819	0.12	0.03	0.00	0.00	20.08
rs14376464 1	X-12283 levels	GCST90200479	1	99509872	C	T	7763	0.16	0.03	0.00	0.00	21.66
rs11597079 2	X-12283 levels	GCST90200479	2	72092827	C	T	7763	-0.31	0.07	0.00	0.00	20.49
rs4988235	X-12283 levels	GCST90200479	2	135851076	A	G	7763	-0.08	0.02	0.00	0.00	24.16
rs4473355	X-12283 levels	GCST90200479	2	175840894	A	G	7763	0.10	0.02	0.00	0.00	20.29
rs72917807	X-12283 levels	GCST90200479	2	204086130	A	C	7763	0.34	0.08	0.00	0.00	19.88
rs74480962	X-12283 levels	GCST90200479	3	22993112	C	T	7763	0.22	0.05	0.00	0.00	20.48
rs1871709	X-12283 levels	GCST90200479	4	70324482	T	A	7763	-0.07	0.02	0.00	0.00	20.93
rs410181	X-12283 levels	GCST90200479	5	104907176	T	C	7763	0.09	0.02	0.00	0.00	20.22
rs34964258	X-12283 levels	GCST90200479	7	47515187	G	A	7763	0.09	0.02	0.00	0.00	22.79
rs11782381 9	X-12283 levels	GCST90200479	7	93017035	C	G	7763	0.33	0.07	0.00	0.00	19.93
rs922657	X-12283 levels	GCST90200479	8	14921821	A	G	7763	0.11	0.02	0.00	0.00	23.42
rs13268878	X-12283 levels	GCST90200479	8	74456081	G	A	7763	-0.09	0.02	0.00	0.00	20.07
rs76765547	X-12283 levels	GCST90200479	9	75460874	C	T	7763	-0.21	0.04	0.00	0.00	28.43
rs9651324	X-12283 levels	GCST90200479	10	65756339	A	G	7763	0.08	0.02	0.00	0.00	22.65
rs76850416	X-12283 levels	GCST90200479	11	35274953	T	C	7763	0.40	0.09	0.00	0.00	20.08
rs77028732	X-12283 levels	GCST90200479	11	71924122	T	C	7763	-0.21	0.04	0.00	0.00	22.73
rs61942343	X-12283 levels	GCST90200479	12	112817637	A	C	7763	-0.20	0.05	0.00	0.00	19.71
rs9545954	X-12283 levels	GCST90200479	13	82017389	T	C	7763	-0.09	0.02	0.00	0.00	26.73
rs14781162 8	X-12283 levels	GCST90200479	13	92538695	T	G	7763	0.30	0.07	0.00	0.00	21.48

rs34611317	X-12283 levels	GCST90200479	15	71198072	C	T	7763	0.10	0.02	0.00	0.00	20.74
rs72751721	X-12283 levels	GCST90200479	15	87582392	T	C	7763	-0.17	0.04	0.00	0.00	20.18
rs1634310	X-12283 levels	GCST90200479	16	20478746	C	A	7763	-0.15	0.03	0.00	0.00	21.47
rs117306467	X-12283 levels	GCST90200479	18	52033137	C	T	7763	-0.22	0.05	0.00	0.00	21.27
rs75894605	X-12283 levels	GCST90200479	18	71167577	A	G	7763	-0.24	0.05	0.00	0.00	19.58
rs138010181	X-12283 levels	GCST90200479	18	79770107	T	C	7763	0.34	0.07	0.00	0.00	21.71
rs3218312	X-12283 levels	GCST90200479	22	37134292	G	A	7763	0.09	0.02	0.00	0.00	21.10
rs141093207	X-12283 levels	GCST90200479	22	46134852	A	G	7763	0.14	0.03	0.00	0.00	19.83
rs144044265	X-12410 levels	GCST90200480	1	3634257	T	C	7442	0.30	0.07	0.00	0.00	21.52
rs2345093	X-12410 levels	GCST90200480	2	18018882	C	G	7442	0.07	0.02	0.00	0.00	19.84
rs114666562	X-12410 levels	GCST90200480	2	82911834	G	C	7442	-0.20	0.05	0.00	0.00	19.82
rs9852801	X-12410 levels	GCST90200480	3	133873930	A	C	7442	0.08	0.02	0.00	0.00	24.68
rs17626424	X-12410 levels	GCST90200480	4	169060742	A	G	7442	0.12	0.03	0.00	0.00	22.03
rs4702036	X-12410 levels	GCST90200480	5	14528428	C	T	7442	-0.07	0.02	0.00	0.00	20.02
rs55971708	X-12410 levels	GCST90200480	5	117927665	T	C	7442	-0.21	0.05	0.00	0.00	20.23
rs1947416	X-12410 levels	GCST90200480	6	66996663	C	T	7442	-0.08	0.02	0.00	0.00	21.94
rs1989105	X-12410 levels	GCST90200480	8	6523709	G	C	7442	0.07	0.02	0.00	0.00	19.80
rs35246381	X-12410 levels	GCST90200480	8	18415025	T	C	7442	-0.28	0.02	0.00	0.03	238.01
rs72683020	X-12410 levels	GCST90200480	8	102474719	T	C	7442	0.13	0.03	0.00	0.00	21.65
rs10964085	X-12410 levels	GCST90200480	9	1938162	T	A	7442	-0.12	0.02	0.00	0.00	24.82
rs398704	X-12410 levels	GCST90200480	9	99301912	C	T	7442	-0.09	0.02	0.00	0.00	22.10
rs115802554	X-12410 levels	GCST90200480	9	129282938	A	C	7442	0.23	0.05	0.00	0.00	20.66
rs72803989	X-12410 levels	GCST90200480	10	57386057	G	A	7442	0.08	0.02	0.00	0.00	19.69
rs72989014	X-12410 levels	GCST90200480	11	106225360	T	C	7442	0.30	0.07	0.00	0.00	19.60
rs117851987	X-12410 levels	GCST90200480	12	82113224	G	A	7442	0.18	0.04	0.00	0.00	22.47
rs113921066	X-12410 levels	GCST90200480	13	22203264	G	A	7442	0.25	0.06	0.00	0.00	20.74
rs72675293	X-12410 levels	GCST90200480	14	34667399	C	A	7442	0.14	0.03	0.00	0.00	20.79
rs117437408	X-12410 levels	GCST90200480	14	70207961	T	C	7442	0.26	0.06	0.00	0.00	21.26
rs7158098	X-12410 levels	GCST90200480	14	105733128	A	G	7442	-0.24	0.05	0.00	0.00	21.05
rs117709864	X-12410 levels	GCST90200480	15	88606573	T	C	7442	0.39	0.08	0.00	0.00	23.97
rs79879904	X-12410 levels	GCST90200480	15	95033990	C	T	7442	0.25	0.06	0.00	0.00	20.26
rs112537521	X-12410 levels	GCST90200480	16	11392475	T	G	7442	0.52	0.11	0.00	0.00	20.61
rs145261788	X-12410 levels	GCST90200480	17	53748660	A	T	7442	0.36	0.07	0.00	0.00	26.50
rs1719482	X-12410 levels	GCST90200480	17	74554211	G	A	7442	0.10	0.02	0.00	0.00	19.81
rs28656885	X-12410 levels	GCST90200480	18	5891638	A	C	7442	-0.08	0.02	0.00	0.00	20.52
rs469612	X-12410 levels	GCST90200480	21	42077307	T	C	7442	-0.09	0.02	0.00	0.00	20.53
rs114924037	X-12104 levels	GCST90200481	1	205890704	T	C	7194	0.24	0.05	0.00	0.00	19.71
rs75352110	X-12104 levels	GCST90200481	1	218376757	T	C	7194	-0.43	0.09	0.00	0.00	22.47
rs148109466	X-12104 levels	GCST90200481	1	237367945	A	G	7194	-0.37	0.08	0.00	0.00	19.87
rs59116697	X-12104 levels	GCST90200481	2	145218601	T	A	7194	0.08	0.02	0.00	0.00	20.72
rs139026819	X-12104 levels	GCST90200481	3	62073564	T	C	7194	-0.13	0.03	0.00	0.00	19.68
rs12485642	X-12104 levels	GCST90200481	3	156616668	A	C	7194	-0.12	0.03	0.00	0.00	20.70
rs254801	X-12104 levels	GCST90200481	5	7457122	A	C	7194	0.22	0.05	0.00	0.00	20.26
rs72676269	X-12104 levels	GCST90200481	8	99859513	A	C	7194	0.34	0.07	0.00	0.00	22.23
rs7125344	X-12104 levels	GCST90200481	11	25944577	G	A	7194	0.09	0.02	0.00	0.00	22.70
rs17391090	X-12104 levels	GCST90200481	13	23522356	G	A	7194	-0.09	0.02	0.00	0.00	20.14
rs8008867	X-12104 levels	GCST90200481	14	96615872	G	C	7194	-0.09	0.02	0.00	0.00	21.41
rs75707322	X-12104 levels	GCST90200481	17	44894754	A	G	7194	-0.13	0.03	0.00	0.00	21.51
rs12185396	X-12104 levels	GCST90200481	18	36158533	C	T	7194	-0.09	0.02	0.00	0.00	27.52
rs12608580	X-12104 levels	GCST90200481	19	48356974	A	G	7194	-0.08	0.02	0.00	0.00	20.07
rs62236222	X-12104 levels	GCST90200481	22	31466524	C	G	7194	-0.25	0.05	0.00	0.00	25.20
rs183487	X-12193 levels	GCST90200482	2	38187399	C	T	7705	-0.08	0.02	0.00	0.00	19.80
rs76270461	X-12193 levels	GCST90200482	2	206788929	A	G	7705	-0.13	0.03	0.00	0.00	22.18
rs79838953	X-12193 levels	GCST90200482	3	113228291	G	C	7705	-0.14	0.03	0.00	0.00	25.50
rs114912254	X-12193 levels	GCST90200482	5	77821576	G	A	7705	0.31	0.07	0.00	0.00	20.79
rs149130179	X-12193 levels	GCST90200482	5	118758160	T	G	7705	-0.40	0.09	0.00	0.00	21.13
rs966089	X-12193 levels	GCST90200482	5	121289225	T	C	7705	0.09	0.02	0.00	0.00	22.26

rs147759534	X-12193 levels	GCST90200482	5	163455632	T	C	7705	-0.48	0.11	0.00	0.00	20.92
rs16881089	X-12193 levels	GCST90200482	6	18712313	C	A	7705	0.13	0.03	0.00	0.00	20.33
rs117189900	X-12193 levels	GCST90200482	6	94753126	T	C	7705	0.30	0.06	0.00	0.00	25.96
rs116969504	X-12193 levels	GCST90200482	7	55074747	G	C	7705	0.23	0.05	0.00	0.00	22.86
rs190891620	X-12193 levels	GCST90200482	7	55482572	A	C	7705	0.33	0.07	0.00	0.00	21.42
rs56299871	X-12193 levels	GCST90200482	8	70904583	A	G	7705	0.08	0.02	0.00	0.00	26.36
rs11994852	X-12193 levels	GCST90200482	8	80962623	G	A	7705	-0.18	0.04	0.00	0.00	19.63
rs10974264	X-12193 levels	GCST90200482	9	3965485	T	C	7705	-0.32	0.07	0.00	0.00	19.78
rs112313627	X-12193 levels	GCST90200482	11	1799477	T	C	7705	-0.11	0.03	0.00	0.00	19.92
rs77585588	X-12193 levels	GCST90200482	11	45063972	A	G	7705	0.42	0.09	0.00	0.00	21.76
rs7105846	X-12193 levels	GCST90200482	11	99897800	C	T	7705	-0.18	0.04	0.00	0.00	19.85
rs78760035	X-12193 levels	GCST90200482	12	75731724	A	T	7705	-0.08	0.02	0.00	0.00	21.43
rs10777331	X-12193 levels	GCST90200482	12	91767607	C	T	7705	-0.14	0.03	0.00	0.00	21.05
rs146730870	X-12193 levels	GCST90200482	12	111895192	A	G	7705	0.34	0.07	0.00	0.00	21.98
rs35718792	X-12193 levels	GCST90200482	13	25146545	A	G	7705	0.08	0.02	0.00	0.00	23.57
rs149432165	X-12193 levels	GCST90200482	14	54438170	A	G	7705	0.28	0.06	0.00	0.00	23.36
rs183874065	X-12193 levels	GCST90200482	15	58029396	C	T	7705	0.29	0.06	0.00	0.00	22.70
rs141147481	X-12193 levels	GCST90200482	15	78542897	G	C	7705	-0.30	0.06	0.00	0.00	22.24
rs7208286	X-12193 levels	GCST90200482	17	12891615	A	G	7705	0.07	0.02	0.00	0.00	19.69
rs511638	X-12193 levels	GCST90200482	18	34876390	C	T	7705	0.08	0.02	0.00	0.00	20.17
rs403897	X-12193 levels	GCST90200482	19	6696084	C	G	7705	0.07	0.02	0.00	0.00	19.67
rs139153395	X-12193 levels	GCST90200482	19	45301790	C	A	7705	0.20	0.04	0.00	0.00	22.16
rs140796431	X-12193 levels	GCST90200482	22	49813088	A	G	7705	0.38	0.09	0.00	0.00	19.61
rs171260	X-12216 levels	GCST90200483	1	4313112	C	A	8181	-0.09	0.02	0.00	0.00	19.51
rs12121840	X-12216 levels	GCST90200483	1	165572405	T	C	8181	0.14	0.03	0.00	0.00	19.81
rs3806357	X-12216 levels	GCST90200483	1	202010327	A	G	8181	0.12	0.03	0.00	0.00	19.69
rs62127683	X-12216 levels	GCST90200483	2	25790944	T	C	8181	0.09	0.02	0.00	0.00	24.63
rs76614684	X-12216 levels	GCST90200483	2	57481618	T	C	8181	-0.56	0.12	0.00	0.00	22.11
rs72844718	X-12216 levels	GCST90200483	2	132640054	A	C	8181	-0.26	0.06	0.00	0.00	20.72
rs113042740	X-12216 levels	GCST90200483	2	201684725	T	C	8181	-0.13	0.02	0.00	0.00	27.29
rs11943282	X-12216 levels	GCST90200483	4	38983205	C	T	8181	-0.07	0.02	0.00	0.00	20.96
rs9363267	X-12216 levels	GCST90200483	6	64840918	T	C	8181	-0.12	0.03	0.00	0.00	20.26
rs9459715	X-12216 levels	GCST90200483	6	166687837	G	T	8181	-0.12	0.03	0.00	0.00	20.82
rs111403544	X-12216 levels	GCST90200483	7	140513195	A	T	8181	0.21	0.05	0.00	0.00	22.27
rs10216403	X-12216 levels	GCST90200483	8	27750417	G	A	8181	0.10	0.02	0.00	0.00	21.62
rs7868128	X-12216 levels	GCST90200483	9	85122484	G	A	8181	-0.19	0.04	0.00	0.00	24.05
rs117851413	X-12216 levels	GCST90200483	11	32965139	A	C	8181	0.15	0.03	0.00	0.00	20.57
rs4612814	X-12216 levels	GCST90200483	11	120724104	G	A	8181	-0.10	0.02	0.00	0.00	20.24
rs144764979	X-12216 levels	GCST90200483	12	4421434	T	C	8181	-0.40	0.09	0.00	0.00	19.79
rs4761199	X-12216 levels	GCST90200483	12	70371808	T	A	8181	0.07	0.02	0.00	0.00	21.82
rs260545	X-12216 levels	GCST90200483	15	29681521	G	C	8181	0.13	0.03	0.00	0.00	21.04
rs1112669	X-12216 levels	GCST90200483	15	94501748	C	G	8181	0.10	0.02	0.00	0.00	23.66
rs35680393	X-12216 levels	GCST90200483	17	30292721	A	G	8181	-0.09	0.02	0.00	0.00	20.23
rs12185242	X-12216 levels	GCST90200483	17	49329709	C	A	8181	-0.07	0.02	0.00	0.00	22.37
rs4939880	X-12216 levels	GCST90200483	18	49622393	T	C	8181	-0.08	0.02	0.00	0.00	23.39
rs149397079	X-12216 levels	GCST90200483	19	40796235	C	A	8181	-0.30	0.05	0.00	0.01	42.85
rs56113850	X-12216 levels	GCST90200483	19	40847202	C	T	8181	0.13	0.02	0.00	0.01	74.33
rs891527	X-12306 levels	GCST90200484	1	68175477	T	A	6054	0.09	0.02	0.00	0.00	21.42
rs6697607	X-12306 levels	GCST90200484	1	74397442	A	G	6054	0.18	0.04	0.00	0.00	20.32
rs9661233	X-12306 levels	GCST90200484	1	173874913	T	A	6054	0.08	0.02	0.00	0.00	19.51
rs1554108	X-12306 levels	GCST90200484	2	9758555	T	C	6054	-0.10	0.02	0.00	0.00	21.21
rs6709175	X-12306 levels	GCST90200484	2	86881088	C	T	6054	0.10	0.02	0.00	0.00	19.54
rs56208737	X-12306 levels	GCST90200484	2	104513628	G	A	6054	0.29	0.06	0.00	0.00	20.51
rs10203657	X-12306 levels	GCST90200484	2	112107290	G	A	6054	0.10	0.02	0.00	0.00	24.60
rs160329	X-12306 levels	GCST90200484	2	135860235	T	C	6054	-0.09	0.02	0.00	0.00	21.09
rs111717976	X-12306 levels	GCST90200484	2	154651566	A	G	6054	-0.30	0.06	0.00	0.00	25.80

rs192917672	X-12306 levels	GCST90200484	2	195528690	T	C	6054	0.22	0.05	0.00	0.00	21.19
rs1400349	X-12306 levels	GCST90200484	2	233041094	C	T	6054	-0.09	0.02	0.00	0.00	22.48
rs35055852	X-12306 levels	GCST90200484	3	53965952	G	A	6054	-0.12	0.03	0.00	0.00	20.51
rs147689990	X-12306 levels	GCST90200484	3	96379769	T	C	6054	-0.32	0.07	0.00	0.00	20.06
rs111722547	X-12306 levels	GCST90200484	3	132985257	A	G	6054	0.27	0.06	0.00	0.00	23.02
rs191873691	X-12306 levels	GCST90200484	3	137391923	A	G	6054	0.28	0.06	0.00	0.00	20.96
rs10513804	X-12306 levels	GCST90200484	3	186756772	C	G	6054	-0.14	0.03	0.00	0.00	20.49
rs73832804	X-12306 levels	GCST90200484	4	99386273	G	A	6054	0.14	0.03	0.00	0.00	19.86
rs45473295	X-12306 levels	GCST90200484	6	33438628	T	C	6054	0.45	0.09	0.00	0.00	27.70
rs72854204	X-12306 levels	GCST90200484	6	40989870	T	C	6054	0.22	0.05	0.00	0.00	20.84
rs56316833	X-12306 levels	GCST90200484	7	144808837	C	T	6054	-0.13	0.03	0.00	0.00	20.09
rs4318987	X-12306 levels	GCST90200484	7	152576525	A	G	6054	-0.10	0.02	0.00	0.00	20.44
rs62519773	X-12306 levels	GCST90200484	8	64498015	T	G	6054	-0.16	0.04	0.00	0.00	19.66
rs34777941	X-12306 levels	GCST90200484	9	4300654	G	C	6054	0.11	0.02	0.00	0.00	22.41
rs80151165	X-12306 levels	GCST90200484	11	67326513	T	C	6054	0.19	0.04	0.00	0.00	24.35
rs11050213	X-12306 levels	GCST90200484	12	29372680	T	G	6054	0.16	0.03	0.00	0.00	20.83
rs9550108	X-12306 levels	GCST90200484	13	112458776	C	G	6054	0.09	0.02	0.00	0.00	20.88
rs75256939	X-12306 levels	GCST90200484	15	49723446	A	G	6054	0.30	0.07	0.00	0.00	20.01
rs8029327	X-12306 levels	GCST90200484	15	88380350	G	C	6054	-0.25	0.06	0.00	0.00	20.09
rs142398582	X-12306 levels	GCST90200484	17	58178046	C	A	6054	0.43	0.09	0.00	0.00	20.36
rs73075880	X-12306 levels	GCST90200484	20	11357105	A	C	6054	0.17	0.04	0.00	0.00	19.85
rs1016631	X-12306 levels	GCST90200484	21	21874511	G	C	6054	0.11	0.02	0.00	0.00	20.73
rs9970821	X-12100 levels	GCST90200485	1	238619759	A	C	8210	0.08	0.02	0.00	0.00	20.92
rs10212193	X-12100 levels	GCST90200485	3	25090336	A	G	8210	0.08	0.02	0.00	0.00	19.72
rs2256831	X-12100 levels	GCST90200485	3	124563133	C	T	8210	0.07	0.01	0.00	0.00	19.73
rs7612532	X-12100 levels	GCST90200485	3	156178949	T	C	8210	0.06	0.01	0.00	0.00	19.70
rs76820740	X-12100 levels	GCST90200485	4	155834908	A	G	8210	-0.11	0.02	0.00	0.00	20.31
rs114309633	X-12100 levels	GCST90200485	5	132979849	G	A	8210	0.32	0.07	0.00	0.00	20.01
rs3132619	X-12100 levels	GCST90200485	6	30406434	G	A	8210	0.11	0.02	0.00	0.00	25.23
rs11766932	X-12100 levels	GCST90200485	7	70590174	G	A	8210	-0.07	0.02	0.00	0.00	21.37
rs150646363	X-12100 levels	GCST90200485	7	129265128	T	C	8210	-0.38	0.08	0.00	0.00	21.43
rs10085935	X-12100 levels	GCST90200485	8	39948748	T	C	8210	-0.10	0.01	0.00	0.01	45.45
rs113455870	X-12100 levels	GCST90200485	9	129907821	T	C	8210	0.27	0.06	0.00	0.00	23.97
rs3184504	X-12100 levels	GCST90200485	12	111446804	C	T	8210	-0.11	0.01	0.00	0.01	58.86
rs7145174	X-12100 levels	GCST90200485	14	70820051	A	G	8210	0.16	0.03	0.00	0.00	21.21
rs75973738	X-12100 levels	GCST90200485	14	84718587	A	T	8210	-0.17	0.04	0.00	0.00	22.86
rs77924615	X-12100 levels	GCST90200485	16	20381010	A	G	8210	-0.10	0.02	0.00	0.00	28.69
rs250572	X-12100 levels	GCST90200485	16	23373709	A	G	8210	0.11	0.03	0.00	0.00	19.76
rs193139533	X-12100 levels	GCST90200485	16	78129852	A	C	8210	0.27	0.06	0.00	0.00	20.26
rs6540080	X-12100 levels	GCST90200485	16	87784963	A	G	8210	-0.08	0.02	0.00	0.00	28.04
rs12931876	X-12100 levels	GCST90200485	16	87840576	C	T	8210	0.17	0.02	0.00	0.01	110.26
rs116967324	X-12100 levels	GCST90200485	21	24843225	C	T	8210	0.30	0.06	0.00	0.00	23.49
rs79047749	X-12100 levels	GCST90200485	22	24751850	A	G	8210	-0.26	0.06	0.00	0.00	20.29
rs45508296	X-12261 levels	GCST90200486	1	55054874	G	A	4347	-0.36	0.08	0.00	0.00	20.76
rs142487205	X-12261 levels	GCST90200486	3	49212925	T	C	4347	0.29	0.06	0.00	0.00	21.17
rs143916354	X-12261 levels	GCST90200486	3	181805082	G	A	4347	-0.36	0.08	0.00	0.00	20.20
rs326100	X-12261 levels	GCST90200486	5	100260665	A	G	4347	-0.10	0.02	0.00	0.00	20.65
rs2496635	X-12261 levels	GCST90200486	6	41467079	A	G	4347	0.10	0.02	0.00	0.00	21.56
rs141229068	X-12261 levels	GCST90200486	6	58217342	C	G	4347	-0.35	0.08	0.00	0.00	20.72
rs73170221	X-12261 levels	GCST90200486	7	70780123	C	A	4347	0.20	0.04	0.00	0.00	20.37
rs2898235	X-12261 levels	GCST90200486	8	9843634	T	C	4347	0.14	0.03	0.00	0.01	22.91
rs11788647	X-12261 levels	GCST90200486	9	87409394	G	A	4347	0.12	0.02	0.00	0.01	23.89
rs4743823	X-12261 levels	GCST90200486	9	90043507	G	A	4347	-0.10	0.02	0.00	0.00	20.77
rs193283102	X-12261 levels	GCST90200486	12	51516867	C	T	4347	0.49	0.10	0.00	0.01	22.45
rs11620614	X-12261 levels	GCST90200486	13	36160365	G	T	4347	-0.23	0.05	0.00	0.01	22.24
rs17750398	X-12261 levels	GCST90200486	15	29493108	G	A	4347	-0.18	0.04	0.00	0.00	19.52
rs117097657	X-12261 levels	GCST90200486	15	98320259	T	C	4347	0.40	0.09	0.00	0.00	20.07
rs117066821	X-12261 levels	GCST90200486	16	77129150	G	A	4347	0.58	0.13	0.00	0.00	19.79

rs183028279	X-12261 levels	GCST90200486	21	16445079	T	C	4347	0.48	0.11	0.00	0.00	20.52
rs73225055	X-12261 levels	GCST90200486	21	20549046	A	C	4347	0.15	0.03	0.00	0.00	21.69
rs4816404	X-12261 levels	GCST90200486	21	31622874	C	T	4347	-0.24	0.05	0.00	0.00	20.23
rs3884707	X-12261 levels	GCST90200486	22	25827140	T	G	4347	0.12	0.02	0.00	0.01	25.15
rs17413364	X-11880 levels	GCST90200487	2	211570769	T	C	8206	-0.19	0.04	0.00	0.00	25.31
rs13410335	X-11880 levels	GCST90200487	2	233733369	G	T	8206	-0.11	0.02	0.00	0.01	50.03
rs58205726	X-11880 levels	GCST90200487	5	142656784	T	A	8206	-0.23	0.05	0.00	0.00	22.55
rs17834207	X-11880 levels	GCST90200487	6	683804	T	C	8206	0.18	0.04	0.00	0.00	23.46
rs17748415	X-11880 levels	GCST90200487	7	21660189	A	T	8206	0.11	0.02	0.00	0.00	21.29
rs150529195	X-11880 levels	GCST90200487	7	40687405	A	G	8206	-0.36	0.07	0.00	0.00	24.93
rs75516836	X-11880 levels	GCST90200487	9	28075847	C	T	8206	-0.22	0.04	0.00	0.00	24.59
rs11140383	X-11880 levels	GCST90200487	9	84110155	A	G	8206	-0.09	0.02	0.00	0.00	20.98
rs61859378	X-11880 levels	GCST90200487	10	43825840	G	A	8206	-0.09	0.02	0.00	0.00	20.95
rs4937096	X-11880 levels	GCST90200487	11	126092639	T	C	8206	0.07	0.02	0.00	0.00	21.29
rs2417966	X-11880 levels	GCST90200487	12	21190295	G	C	8206	0.10	0.02	0.00	0.00	32.64
rs11045856	X-11880 levels	GCST90200487	12	21197755	G	T	8206	-0.16	0.02	0.00	0.01	89.92
rs192963379	X-11880 levels	GCST90200487	14	76162345	A	G	8206	-0.36	0.07	0.00	0.00	23.00
rs148935727	X-11880 levels	GCST90200487	15	50229437	C	T	8206	-0.24	0.05	0.00	0.00	22.73
rs8037291	X-11880 levels	GCST90200487	15	87964700	G	A	8206	-0.10	0.02	0.00	0.00	25.49
rs142076087	X-11880 levels	GCST90200487	16	90001985	T	C	8206	-0.48	0.10	0.00	0.00	21.28
rs4789458	X-11880 levels	GCST90200487	17	77520878	T	A	8206	0.07	0.02	0.00	0.00	20.32
rs117693750	X-11880 levels	GCST90200487	21	41001336	A	T	8206	-0.19	0.04	0.00	0.00	22.06
rs11582696	X-12117 levels	GCST90200488	1	64913231	T	C	7379	-0.18	0.04	0.00	0.00	22.44
rs114658756	X-12117 levels	GCST90200488	1	94039719	C	A	7379	-0.25	0.05	0.00	0.00	21.25
rs10924103	X-12117 levels	GCST90200488	1	116493929	G	A	7379	-0.09	0.02	0.00	0.00	20.33
rs11809239	X-12117 levels	GCST90200488	1	241770574	G	A	7379	-0.08	0.02	0.00	0.00	24.02
rs6704782	X-12117 levels	GCST90200488	2	73539327	T	A	7379	-0.09	0.02	0.00	0.00	25.97
rs13010122	X-12117 levels	GCST90200488	2	100943560	T	C	7379	0.08	0.02	0.00	0.00	22.65
rs34427332	X-12117 levels	GCST90200488	2	154172187	A	C	7379	-0.09	0.02	0.00	0.00	24.04
rs115525526	X-12117 levels	GCST90200488	3	74474074	C	T	7379	-0.35	0.07	0.00	0.00	23.63
rs73129971	X-12117 levels	GCST90200488	4	32893880	C	T	7379	-0.29	0.06	0.00	0.00	19.83
rs35937374	X-12117 levels	GCST90200488	4	39184735	T	C	7379	-0.07	0.02	0.00	0.00	20.13
rs17186704	X-12117 levels	GCST90200488	4	74822371	C	T	7379	0.09	0.02	0.00	0.00	22.44
rs368823	X-12117 levels	GCST90200488	5	34854386	G	A	7379	0.12	0.02	0.00	0.00	32.91
rs37369	X-12117 levels	GCST90200488	5	35037010	T	C	7379	-0.58	0.03	0.00	0.05	414.88
rs111538191	X-12117 levels	GCST90200488	5	119739351	T	A	7379	0.21	0.05	0.00	0.00	20.87
rs10456272	X-12117 levels	GCST90200488	6	23154117	G	A	7379	0.08	0.02	0.00	0.00	20.46
rs683369	X-12117 levels	GCST90200488	6	160130172	C	G	7379	-0.08	0.02	0.00	0.00	21.46
rs112875651	X-12117 levels	GCST90200488	8	125494452	A	G	7379	0.08	0.02	0.00	0.00	27.19
rs62542879	X-12117 levels	GCST90200488	9	73765950	T	G	7379	0.16	0.03	0.00	0.00	20.59
rs11545229	X-12117 levels	GCST90200488	11	65127634	A	G	7379	-0.38	0.08	0.00	0.00	21.17
rs34400381	X-12117 levels	GCST90200488	11	65376421	A	G	7379	-0.31	0.04	0.00	0.01	51.79
rs112564808	X-12117 levels	GCST90200488	11	126177295	C	T	7379	0.38	0.08	0.00	0.00	23.77
rs118037557	X-12117 levels	GCST90200488	12	12084461	A	C	7379	-0.27	0.06	0.00	0.00	19.90
rs117427650	X-12117 levels	GCST90200488	12	119494665	A	C	7379	0.18	0.04	0.00	0.00	21.61
rs75203798	X-12117 levels	GCST90200488	13	67973950	C	A	7379	0.29	0.06	0.00	0.00	20.90
rs17656454	X-12117 levels	GCST90200488	13	99462088	G	A	7379	0.12	0.03	0.00	0.00	20.96
rs11627462	X-12117 levels	GCST90200488	14	57661373	T	C	7379	-0.15	0.03	0.00	0.00	21.03
rs16977754	X-12117 levels	GCST90200488	15	45127187	A	G	7379	-0.30	0.06	0.00	0.00	21.77
rs34901612	X-12117 levels	GCST90200488	15	91447368	G	A	7379	0.07	0.02	0.00	0.00	19.62
rs2063840	X-12117 levels	GCST90200488	16	27028195	A	G	7379	0.15	0.03	0.00	0.00	21.47
rs149937410	X-12117 levels	GCST90200488	17	13121641	C	T	7379	-0.22	0.05	0.00	0.00	21.89
rs76996336	X-12117 levels	GCST90200488	18	44820344	C	A	7379	0.25	0.05	0.00	0.00	22.20
rs305941	X-12117 levels	GCST90200488	19	53754733	T	C	7379	-0.10	0.02	0.00	0.00	20.79
rs62229260	X-12117 levels	GCST90200488	21	36065268	A	G	7379	-0.11	0.02	0.00	0.01	48.03
rs12759868	X-12407 levels	GCST90200489	1	24378634	C	G	6534	-0.24	0.05	0.00	0.00	20.72
rs3845534	X-12407 levels	GCST90200489	1	163769713	A	G	6534	0.08	0.02	0.00	0.00	19.66
rs116125738	X-12407 levels	GCST90200489	1	202171650	A	G	6534	-0.36	0.08	0.00	0.00	20.72

rs14399017	X-12407 levels	GCST90200489	2	50634189	T	G	6534	0.38	0.09	0.00	0.00	20.32
1												
rs80323879	X-12407 levels	GCST90200489	3	61974086	C	A	6534	-0.17	0.04	0.00	0.00	20.99
rs6790284	X-12407 levels	GCST90200489	3	194796371	A	T	6534	0.19	0.04	0.00	0.00	22.29
rs35243540	X-12407 levels	GCST90200489	5	1725149	C	A	6534	-0.08	0.02	0.00	0.00	20.07
rs14195662												
2	X-12407 levels	GCST90200489	5	17069665	C	A	6534	-0.32	0.07	0.00	0.00	20.66
rs315813	X-12407 levels	GCST90200489	5	170327129	A	G	6534	0.13	0.03	0.00	0.00	19.56
rs55741109	X-12407 levels	GCST90200489	8	3177343	T	G	6534	0.11	0.03	0.00	0.00	19.64
rs28635038	X-12407 levels	GCST90200489	8	59165095	A	G	6534	-0.10	0.02	0.00	0.00	20.47
rs62515321	X-12407 levels	GCST90200489	8	82180452	T	C	6534	-0.22	0.04	0.00	0.00	24.67
rs11690975												
8	X-12407 levels	GCST90200489	11	14330880	C	G	6534	-0.16	0.04	0.00	0.00	19.62
rs45616033	X-12407 levels	GCST90200489	12	2651921	A	G	6534	0.20	0.05	0.00	0.00	19.79
rs11055393	X-12407 levels	GCST90200489	12	13379054	A	G	6534	0.14	0.03	0.00	0.00	20.02
rs10774885	X-12407 levels	GCST90200489	12	116748225	A	G	6534	0.09	0.02	0.00	0.00	21.38
rs61136351	X-12407 levels	GCST90200489	15	82111812	T	C	6534	0.14	0.03	0.00	0.00	20.07
rs72767030	X-12407 levels	GCST90200489	15	97654073	A	T	6534	-0.15	0.03	0.00	0.00	19.82
rs12922461	X-12407 levels	GCST90200489	16	6457174	T	C	6534	-0.16	0.03	0.00	0.00	23.32
rs12956597	X-12407 levels	GCST90200489	18	71477560	T	C	6534	0.10	0.02	0.00	0.00	20.84
rs34406008	X-12407 levels	GCST90200489	18	73977135	A	G	6534	-0.08	0.02	0.00	0.00	20.27
rs13857041												
7	X-12407 levels	GCST90200489	19	9760047	G	T	6534	-0.35	0.07	0.00	0.00	21.88
rs28530560	X-12407 levels	GCST90200489	20	17567829	C	A	6534	-0.24	0.05	0.00	0.00	20.51
rs56662359												
6	X-12407 levels	GCST90200489	20	26237585	C	T	6534	0.58	0.13	0.00	0.00	19.72
rs7541058	X-12101 levels	GCST90200490	1	75734132	T	C	8217	0.18	0.02	0.00	0.02	125.61
rs56000812	X-12101 levels	GCST90200490	1	151926628	G	A	8217	0.08	0.02	0.00	0.00	20.82
rs10912833	X-12101 levels	GCST90200490	1	171360138	G	A	8217	-0.07	0.02	0.00	0.00	19.54
rs796484	X-12101 levels	GCST90200490	1	220709791	A	G	8217	-0.13	0.03	0.00	0.00	21.11
rs14404475												
5	X-12101 levels	GCST90200490	3	112067163	A	C	8217	0.25	0.05	0.00	0.00	24.60
rs2202311	X-12101 levels	GCST90200490	4	21622247	G	A	8217	0.18	0.04	0.00	0.00	20.61
rs2085378	X-12101 levels	GCST90200490	4	25952739	G	A	8217	-0.07	0.02	0.00	0.00	21.79
rs7375325	X-12101 levels	GCST90200490	4	107997213	G	A	8217	-0.13	0.03	0.00	0.00	22.11

rs112268750	X-12026 levels	GCST90200491	7	31574413	A	G	8180	-0.26	0.06	0.00	0.00	19.87
rs74782627	X-12026 levels	GCST90200491	7	34070658	T	A	8180	-0.17	0.04	0.00	0.00	21.26
rs1115540	X-12026 levels	GCST90200491	8	86582155	G	A	8180	-0.07	0.02	0.00	0.00	20.49
rs41301539	X-12026 levels	GCST90200491	9	102578333	C	T	8180	-0.35	0.08	0.00	0.00	19.66
rs7857390	X-12026 levels	GCST90200491	9	133253159	G	A	8180	-0.07	0.01	0.00	0.00	20.36
rs34848251	X-12026 levels	GCST90200491	10	92640936	A	T	8180	-0.21	0.05	0.00	0.00	20.36
rs10879558	X-12026 levels	GCST90200491	12	73124057	A	G	8180	0.08	0.02	0.00	0.00	20.93
rs4901588	X-12026 levels	GCST90200491	14	55546466	C	T	8180	0.08	0.02	0.00	0.00	24.56
rs146607119	X-12026 levels	GCST90200491	15	44130901	A	G	8180	0.23	0.05	0.00	0.00	19.68
rs77275835	X-12026 levels	GCST90200491	15	55037527	A	C	8180	-0.22	0.05	0.00	0.00	24.52
rs111661818	X-12026 levels	GCST90200491	15	75297795	T	C	8180	-0.08	0.02	0.00	0.00	22.49
rs8059901	X-12026 levels	GCST90200491	16	9489299	C	G	8180	0.37	0.08	0.00	0.00	23.81
rs117344546	X-12026 levels	GCST90200491	18	36191480	A	G	8180	-0.19	0.03	0.00	0.00	30.86
rs79395638	X-12026 levels	GCST90200491	18	63040931	G	C	8180	-0.16	0.03	0.00	0.00	21.58
rs2545773	X-12026 levels	GCST90200491	19	40818927	C	T	8180	-0.07	0.02	0.00	0.00	21.39
rs147855120	X-12026 levels	GCST90200491	21	24478117	G	C	8180	0.33	0.07	0.00	0.00	22.18
rs8139858	X-12026 levels	GCST90200491	22	42713767	A	G	8180	0.07	0.01	0.00	0.00	21.96
rs7519001	X-12411 levels	GCST90200492	1	171348019	A	T	8174	-0.08	0.02	0.00	0.00	28.18
rs4671798	X-12411 levels	GCST90200492	2	67381005	A	G	8174	0.99	0.22	0.00	0.00	21.02
rs140669132	X-12411 levels	GCST90200492	2	219875828	C	T	8174	-0.27	0.06	0.00	0.00	24.30
rs73258384	X-12411 levels	GCST90200492	4	23695048	A	G	8174	0.26	0.05	0.00	0.00	22.22
rs9995607	X-12411 levels	GCST90200492	4	141281493	T	C	8174	-0.09	0.02	0.00	0.00	19.60
rs6866652	X-12411 levels	GCST90200492	5	137179699	C	T	8174	0.07	0.01	0.00	0.00	21.72
rs7736185	X-12411 levels	GCST90200492	5	172554500	T	C	8174	0.13	0.03	0.00	0.00	25.53
rs17073887	X-12411 levels	GCST90200492	8	5528739	T	C	8174	-0.09	0.02	0.00	0.00	19.93
rs1863737	X-12411 levels	GCST90200492	10	123727907	A	G	8174	0.13	0.03	0.00	0.00	19.54
rs4945463	X-12411 levels	GCST90200492	11	80912934	T	C	8174	0.07	0.01	0.00	0.00	20.05
rs117432550	X-12411 levels	GCST90200492	13	25429870	T	C	8174	-0.23	0.05	0.00	0.00	20.66
rs4786487	X-12411 levels	GCST90200492	16	4390396	C	G	8174	0.09	0.02	0.00	0.00	27.25
rs72809418	X-12411 levels	GCST90200492	16	88571898	G	A	8174	0.10	0.02	0.00	0.00	20.46
rs8067876	X-12411 levels	GCST90200492	17	53537915	C	A	8174	0.08	0.02	0.00	0.00	21.37
rs62111897	X-12411 levels	GCST90200492	19	13768530	A	G	8174	0.57	0.05	0.00	0.02	159.07
rs111331573	X-12411 levels	GCST90200492	19	56072251	C	G	8174	0.09	0.02	0.00	0.00	22.21
rs145656540	X-12411 levels	GCST90200492	20	59391283	T	G	8174	0.35	0.08	0.00	0.00	20.25
rs6683792	X-12013 levels	GCST90200493	1	26417412	T	C	5848	0.09	0.02	0.00	0.00	21.26
rs114036797	X-12013 levels	GCST90200493	2	84346202	C	T	5848	0.32	0.07	0.00	0.00	21.85
rs118093256	X-12013 levels	GCST90200493	2	151622628	C	G	5848	-0.28	0.05	0.00	0.00	28.78
rs1882378	X-12013 levels	GCST90200493	2	171480753	T	C	5848	0.24	0.05	0.00	0.00	20.36
rs11721405	X-12013 levels	GCST90200493	4	85888538	T	C	5848	-0.13	0.03	0.00	0.00	20.05
rs116476683	X-12013 levels	GCST90200493	5	72541845	T	C	5848	0.51	0.11	0.00	0.00	20.07
rs12525751	X-12013 levels	GCST90200493	6	109016520	A	G	5848	-0.11	0.02	0.00	0.00	26.01
rs79720569	X-12013 levels	GCST90200493	6	124751335	T	G	5848	0.14	0.03	0.00	0.00	20.21
rs112509998	X-12013 levels	GCST90200493	8	48748097	T	A	5848	0.23	0.05	0.00	0.00	20.37
rs74465990	X-12013 levels	GCST90200493	9	790141	A	C	5848	0.34	0.07	0.00	0.00	21.70
rs2894081	X-12013 levels	GCST90200493	10	69295476	C	T	5848	0.09	0.02	0.00	0.00	21.30
rs3740434	X-12013 levels	GCST90200493	10	70762433	G	A	5848	0.09	0.02	0.00	0.00	19.94
rs6585247	X-12013 levels	GCST90200493	10	113787521	G	T	5848	0.08	0.02	0.00	0.00	20.57
rs78731911	X-12013 levels	GCST90200493	12	90389624	A	G	5848	0.29	0.06	0.00	0.00	20.76
rs1536750	X-12013 levels	GCST90200493	13	36153365	T	C	5848	-0.13	0.03	0.00	0.00	21.83
rs4584742	X-12013 levels	GCST90200493	14	43790086	T	C	5848	0.10	0.02	0.00	0.00	25.70
rs11856370	X-12013 levels	GCST90200493	15	38464922	T	C	5848	0.09	0.02	0.00	0.00	22.63
rs12904079	X-12013 levels	GCST90200493	15	45190926	A	G	5848	-0.10	0.02	0.00	0.00	25.27
rs62022376	X-12013 levels	GCST90200493	15	98287246	G	A	5848	0.19	0.04	0.00	0.00	27.87
rs77698231	X-12013 levels	GCST90200493	18	50371260	A	G	5848	0.18	0.04	0.00	0.00	23.77
rs17599404	X-12013 levels	GCST90200493	18	60563997	G	A	5848	0.18	0.04	0.00	0.00	19.52
rs4816404	X-12013 levels	GCST90200493	21	31622874	C	T	5848	-0.21	0.05	0.00	0.00	20.22
rs73165456	X-12013 levels	GCST90200493	22	26717133	G	A	5848	0.37	0.08	0.00	0.00	19.90
rs7551831	X-12007 levels	GCST90200494	1	117215404	G	T	8002	-0.11	0.02	0.00	0.00	21.25
rs76144453	X-12007 levels	GCST90200494	1	247774930	T	C	8002	-0.23	0.05	0.00	0.00	23.07
rs72788789	X-12007 levels	GCST90200494	2	34465866	C	T	8002	-0.23	0.05	0.00	0.00	19.51

rs14727407	X-12007 levels	GCST90200494	3	184076213	T	A	8002	0.16	0.03	0.00	0.00	22.05
7												
rs1531022	X-12007 levels	GCST90200494	4	68666410	A	G	8002	-0.09	0.02	0.00	0.00	31.31
rs15079460	X-12007 levels	GCST90200494	4	147838118	A	G	8002	0.27	0.06	0.00	0.00	21.20
3												
rs9368584	X-12007 levels	GCST90200494	6	28978182	T	C	8002	-0.10	0.02	0.00	0.00	19.94
rs58446853	X-12007 levels	GCST90200494	7	82312535	G	A	8002	0.15	0.03	0.00	0.00	23.56
rs18924227	X-12007 levels	GCST90200494	7	126032406	C	T	8002	-0.47	0.09	0.00	0.00	25.59
5												
rs2807736	X-12007 levels	GCST90200494	10	28501888	T	G	8002	0.09	0.02	0.00	0.00	20.31
rs2002179	X-12007 levels	GCST90200494	11	111320497	T	G	8002	-0.23	0.05	0.00	0.00	21.86
rs18236429	X-12007 levels	GCST90200494	11	118728940	G	A	8002	0.31	0.06	0.00	0.00	23.00
0												
rs74362432	X-12007 levels	GCST90200494	15	97685851	T	C	8002	-0.20	0.04	0.00	0.00	20.09
rs2637353	X-12007 levels	GCST90200494	17	33757655	T	A	8002	0.07	0.02	0.00	0.00	19.66
rs4798414	X-12007 levels	GCST90200494	18	602081	C	G	8002	0.07	0.02	0.00	0.00	21.50
rs34965439	X-12007 levels	GCST90200494	19	55052538	A	G	8002	0.08	0.02	0.00	0.00	21.08
rs14461484	X-12007 levels	GCST90200494	21	13522597	A	T	8002	0.30	0.06	0.00	0.00	22.44
4												
rs11681338	X-12462 levels	GCST90200495	2	195004157	T	G	8236	0.18	0.04	0.00	0.00	20.30
rs18422461	X-12462 levels	GCST90200495	2	214318412	T	C	8236	-0.28	0.06	0.00	0.00	19.65
2												
rs6793289	X-12462 levels	GCST90200495	3	79247838	G	C	8236	-0.22	0.05	0.00	0.00	22.00
rs13985869	X-12462 levels	GCST90200495	3	135208016	G	A	8236	0.25	0.05	0.00	0.00	20.12
4												
rs11193535	X-12462 levels	GCST90200495	3	138101682	A	G	8236	-0.49	0.11	0.00	0.00	20.92
1												
rs72724132	X-12462 levels	GCST90200495	9	37709020	A	G	8236	-0.31	0.07	0.00	0.00	21.29
rs7129855	X-12462 levels	GCST90200495	11	132796774	G	T	8236	0.08	0.02	0.00	0.00	24.66
rs61912206	X-12462 levels	GCST90200495	12	24973679	A	G	8236	-0.18	0.04	0.00	0.00	20.75
rs72956117	X-12462 levels	GCST90200495	18	10031291	T	A	8236	-0.08	0.02	0.00	0.00	20.89
rs13982447	X-12462 levels	GCST90200495	19	18363158	T	C	8236	-0.31	0.07	0.00	0.00	21.87
3												
rs266848	X-12462 levels	GCST90200495	19	50842825	G	A	8236	-0.12	0.02	0.00	0.00	22.30
rs13968339	X-12462 levels	GCST90200495	20	51396834	A	G	8236	0.40	0.09	0.00	0.00	20.50
9												
rs18622182	X-12714 levels	GCST90200496	2	86177550	A	G	6870	-0.43	0.09	0.00	0.00	23.02
2												
rs18528760	X-12714 levels	GCST90200496	2	129086975	G	A	6870	-0.34	0.07	0.00	0.00	22.20
0												
rs14041331	X-12714 levels	GCST90200496	2	224541293	T	A	6870	-0.39	0.08	0.00	0.00	21.37
2												
rs18478075	X-12714 levels	GCST90200496	3	1882159	C	T	6870	-0.35	0.07	0.00	0.00	23.03
5												
rs11712073	X-12714 levels	GCST90200496	3	62662229	C	T	6870	-0.08	0.02	0.00	0.00	19.63
rs14645848	X-12714 levels	GCST90200496	5	167577340	G	A	6870	-0.31	0.07	0.00	0.00	20.50
7												
rs11773657	X-12714 levels	GCST90200496	7	158697280	G	C	6870	-0.16	0.04	0.00	0.00	19.86
rs11754574	X-12714 levels	GCST90200496	10	131775835	A	G	6870	-0.23	0.05	0.00	0.00	20.46
3												
rs11712025	X-12714 levels	GCST90200496	11	97759620	A	T	6870	-0.21	0.05	0.00	0.00	20.11
5												
rs9514451	X-12714 levels	GCST90200496	13	105916257	A	G	6870	-0.18	0.04	0.00	0.00	21.97
rs75031110	X-12714 levels	GCST90200496	14	72921979	G	A	6870	-0.13	0.03	0.00	0.00	20.20
rs28364405	X-12714 levels	GCST90200496	15	42387216	G	A	6870	0.26	0.05	0.00	0.00	26.17
rs151228	X-12714 levels	GCST90200496	16	28551705	G	A	6870	0.22	0.02	0.00	0.02	172.07
rs8104987	X-12714 levels	GCST90200496	19	52125157	C	T	6870	-0.16	0.03	0.00	0.00	27.48
rs9974063	X-12714 levels	GCST90200496	21	23765879	G	A	6870	0.09	0.02	0.00	0.00	21.29
rs12087029	X-12740 levels	GCST90200497	1	96833766	T	C	6449	-0.10	0.02	0.00	0.00	22.08
rs15088846	X-12740 levels	GCST90200497	3	192561953	G	A	6449	0.39	0.09	0.00	0.00	20.89
4												
rs6845199	X-12740 levels	GCST90200497	4	138868444	A	G	6449	0.08	0.02	0.00	0.00	19.56
rs13101456	X-12740 levels	GCST90200497	4	139581591	A	G	6449	0.17	0.03	0.00	0.00	25.75
rs11769237	X-12740 levels	GCST90200497	7	6943781	A	T	6449	0.11	0.02	0.00	0.00	20.75
rs14399894	X-12740 levels	GCST90200497	7	46658198	A	G	6449	0.34	0.07	0.00	0.00	23.55
0												
rs13222549	X-12740 levels	GCST90200497	7	55157447	C	G	6449	-0.09	0.02	0.00	0.00	21.88
rs19103168	X-12740 levels	GCST90200497	9	326507	A	T	6449	0.29	0.06	0.00	0.00	21.59
3												
rs79046442	X-12740 levels	GCST90200497	10	117801171	T	G	6449	0.14	0.03	0.00	0.00	22.15
rs8041599	X-12740 levels	GCST90200497	15	71580753	C	T	6449	0.11	0.02	0.00	0.00	23.03
rs15017433	X-12740 levels	GCST90200497	16	57604799	T	A	6449	-0.31	0.06	0.00	0.00	23.60
5												
rs2215209	X-12740 levels	GCST90200497	19	28519597	T	C	6449	0.08	0.02	0.00	0.00	22.45

rs879574	X-12740 levels	GCST90200497	22	17107415	A	T	6449	-0.13	0.03	0.00	0.00	20.18
rs2377724	X-12730 levels	GCST90200498	1	31199512	A	G	7133	0.17	0.04	0.00	0.00	22.40
rs116656933	X-12730 levels	GCST90200498	1	164627393	T	C	7133	-0.28	0.06	0.00	0.00	19.77
rs146068392	X-12730 levels	GCST90200498	2	39886837	G	C	7133	0.18	0.04	0.00	0.00	20.50
rs2568201	X-12730 levels	GCST90200498	2	85181428	G	A	7133	0.08	0.02	0.00	0.00	21.63
rs146303421	X-12730 levels	GCST90200498	2	239814305	A	G	7133	0.30	0.07	0.00	0.00	19.78
rs7428941	X-12730 levels	GCST90200498	3	26113330	G	A	7133	-0.31	0.07	0.00	0.00	22.08
rs78538024	X-12730 levels	GCST90200498	5	52688213	T	C	7133	-0.29	0.06	0.00	0.00	21.09
rs182223	X-12730 levels	GCST90200498	5	68018131	T	A	7133	-0.08	0.02	0.00	0.00	20.62
rs115151170	X-12730 levels	GCST90200498	6	54906289	C	T	7133	-0.39	0.08	0.00	0.00	24.83
rs142099183	X-12730 levels	GCST90200498	7	111196011	C	G	7133	-0.40	0.08	0.00	0.00	22.80
rs9644338	X-12730 levels	GCST90200498	8	3321571	G	C	7133	0.08	0.02	0.00	0.00	20.68
rs35928472	X-12730 levels	GCST90200498	8	37590329	G	T	7133	-0.21	0.04	0.00	0.00	25.53
rs7897005	X-12730 levels	GCST90200498	10	104517375	A	G	7133	0.08	0.02	0.00	0.00	20.54
rs10129985	X-12730 levels	GCST90200498	14	29157563	A	G	7133	-0.09	0.02	0.00	0.00	23.31
rs150853009	X-12730 levels	GCST90200498	14	80823692	A	G	7133	-0.36	0.08	0.00	0.00	21.34
rs144422278	X-12730 levels	GCST90200498	16	18908228	T	C	7133	-0.33	0.07	0.00	0.00	20.16
rs117913440	X-12730 levels	GCST90200498	17	80662206	T	C	7133	-0.37	0.08	0.00	0.00	21.62
rs190508665	X-12730 levels	GCST90200498	18	69498445	C	T	7133	-0.28	0.06	0.00	0.00	20.66
rs61751957	X-12730 levels	GCST90200498	19	50517800	G	A	7133	-0.08	0.02	0.00	0.00	19.66
rs73167495	X-12730 levels	GCST90200498	22	26918890	G	A	7133	-0.46	0.10	0.00	0.00	22.72
rs116007040	X-12701 levels	GCST90200499	1	73268654	C	T	6278	-0.30	0.07	0.00	0.00	21.53
rs16855560	X-12701 levels	GCST90200499	1	205420332	C	T	6278	-0.12	0.03	0.00	0.00	23.09
rs75771468	X-12701 levels	GCST90200499	2	83797459	A	G	6278	-0.43	0.10	0.00	0.00	19.91
rs665535	X-12701 levels	GCST90200499	2	234048290	T	A	6278	-0.09	0.02	0.00	0.00	19.99
rs6778165	X-12701 levels	GCST90200499	3	135059650	A	G	6278	0.08	0.02	0.00	0.00	20.79
rs1960773	X-12701 levels	GCST90200499	4	68671436	C	A	6278	0.11	0.02	0.00	0.01	37.66
rs1531598	X-12701 levels	GCST90200499	4	175093937	T	A	6278	-0.08	0.02	0.00	0.00	20.66
rs318041	X-12701 levels	GCST90200499	5	41474630	T	C	6278	0.09	0.02	0.00	0.00	27.67
rs56124105	X-12701 levels	GCST90200499	6	25431543	T	G	6278	-0.29	0.06	0.00	0.00	21.95
rs62531721	X-12701 levels	GCST90200499	8	70649549	G	A	6278	-0.14	0.03	0.00	0.00	22.81
rs147841492	X-12701 levels	GCST90200499	10	128588096	A	G	6278	0.26	0.06	0.00	0.00	20.05
rs55790138	X-12701 levels	GCST90200499	11	133044869	C	G	6278	0.14	0.03	0.00	0.00	20.88
rs117458131	X-12701 levels	GCST90200499	12	85714769	T	C	6278	-0.38	0.08	0.00	0.00	20.72
rs146724204	X-12701 levels	GCST90200499	13	64516275	A	G	6278	0.28	0.06	0.00	0.00	19.79
rs3948263	X-12701 levels	GCST90200499	15	96127654	C	G	6278	0.08	0.02	0.00	0.00	20.06
rs6027337	X-12701 levels	GCST90200499	20	60137422	A	C	6278	0.08	0.02	0.00	0.00	21.67
rs76177699	X-12701 levels	GCST90200499	21	27619880	T	G	6278	0.18	0.04	0.00	0.00	19.88
rs28670633	X-12816 levels	GCST90200500	1	1027340	T	C	5190	-0.13	0.03	0.00	0.00	22.41
rs116113931	X-12816 levels	GCST90200500	1	239959730	C	T	5190	-1.04	0.21	0.00	0.00	24.56
rs184900377	X-12816 levels	GCST90200500	2	49393951	C	T	5190	-0.44	0.10	0.00	0.00	21.11
rs79616155	X-12816 levels	GCST90200500	2	211834651	A	G	5190	0.17	0.04	0.00	0.00	19.54
rs7640812	X-12816 levels	GCST90200500	3	13157743	T	C	5190	-0.10	0.02	0.00	0.01	26.74
rs1478552	X-12816 levels	GCST90200500	3	27918938	C	T	5190	-0.09	0.02	0.00	0.00	20.94
rs75709740	X-12816 levels	GCST90200500	4	55418629	A	G	5190	0.28	0.06	0.00	0.00	20.00
rs115413619	X-12816 levels	GCST90200500	4	163663970	G	A	5190	0.30	0.07	0.00	0.00	20.86
rs62352363	X-12816 levels	GCST90200500	4	164740545	T	C	5190	-0.45	0.09	0.00	0.00	25.71
rs2973433	X-12816 levels	GCST90200500	5	91194432	T	C	5190	0.16	0.04	0.00	0.00	21.30
rs7714412	X-12816 levels	GCST90200500	5	128819585	G	A	5190	-0.09	0.02	0.00	0.00	20.47
rs139524919	X-12816 levels	GCST90200500	5	178187744	A	G	5190	0.40	0.09	0.00	0.00	21.92
rs2718136	X-12816 levels	GCST90200500	7	138937826	C	T	5190	0.10	0.02	0.00	0.00	22.50
rs13295703	X-12816 levels	GCST90200500	9	4345557	A	C	5190	-0.16	0.03	0.00	0.00	25.16
rs59762720	X-12816 levels	GCST90200500	9	136538272	T	C	5190	0.28	0.06	0.00	0.00	24.35
rs181192632	X-12816 levels	GCST90200500	10	5940132	C	T	5190	-0.16	0.04	0.00	0.00	19.90
rs2249627	X-12816 levels	GCST90200500	10	105922603	T	C	5190	-0.09	0.02	0.00	0.00	21.42
rs4910362	X-12816 levels	GCST90200500	11	11485610	G	A	5190	0.09	0.02	0.00	0.00	19.69

rs76311938	X-12816 levels	GCST90200500	11	68442141	A	G	5190	-0.32	0.07	0.00	0.00	20.03
rs75810679	X-12816 levels	GCST90200500	11	123849150	T	C	5190	-0.18	0.04	0.00	0.00	19.97
rs112814194	X-12816 levels	GCST90200500	12	75572147	T	C	5190	-0.21	0.04	0.00	0.00	25.37
rs139544744	X-12816 levels	GCST90200500	13	108594841	A	G	5190	-0.48	0.10	0.00	0.00	23.10
rs144847253	X-12816 levels	GCST90200500	14	30510440	G	A	5190	-0.61	0.13	0.00	0.00	22.20
rs140183240	X-12816 levels	GCST90200500	14	85278817	T	G	5190	-0.34	0.07	0.00	0.00	21.38
rs2304902	X-12816 levels	GCST90200500	15	75048386	T	G	5190	0.09	0.02	0.00	0.00	20.92
rs1641105	X-12816 levels	GCST90200500	16	8675275	T	C	5190	-0.12	0.03	0.00	0.00	21.03
rs56323949	X-12816 levels	GCST90200500	17	35728857	A	G	5190	-0.10	0.02	0.00	0.00	19.88
rs45598532	X-12816 levels	GCST90200500	19	45584839	T	C	5190	-0.27	0.06	0.00	0.00	19.68
rs149534633	X-12816 levels	GCST90200500	22	33458493	A	G	5190	-0.25	0.06	0.00	0.00	20.00
rs11887874	X-12731 levels	GCST90200501	2	11668906	T	C	5770	0.09	0.02	0.00	0.00	20.86
rs72974813	X-12731 levels	GCST90200501	2	229041848	G	A	5770	-0.16	0.03	0.00	0.00	23.58
rs150790707	X-12731 levels	GCST90200501	4	155189551	T	G	5770	0.35	0.07	0.00	0.00	22.05
rs191162	X-12731 levels	GCST90200501	5	41473490	T	C	5770	0.10	0.02	0.00	0.00	20.05
rs488748	X-12731 levels	GCST90200501	6	54539370	G	A	5770	0.18	0.04	0.00	0.00	20.25
rs139179089	X-12731 levels	GCST90200501	7	35322147	C	A	5770	0.28	0.05	0.00	0.00	26.63
rs62461177	X-12731 levels	GCST90200501	7	64082778	T	A	5770	0.15	0.03	0.00	0.01	29.42
rs11250003	X-12731 levels	GCST90200501	8	10405185	C	T	5770	-0.45	0.10	0.00	0.00	19.88
rs117405276	X-12731 levels	GCST90200501	8	81877728	A	C	5770	-0.16	0.03	0.00	0.00	25.38
rs1354504	X-12731 levels	GCST90200501	8	121260500	T	C	5770	-0.09	0.02	0.00	0.00	20.34
rs10961983	X-12731 levels	GCST90200501	9	15359604	T	C	5770	0.28	0.06	0.00	0.00	22.29
rs1416942	X-12731 levels	GCST90200501	9	117392571	T	G	5770	-0.09	0.02	0.00	0.00	20.29
rs12355257	X-12731 levels	GCST90200501	10	110431534	T	C	5770	-0.20	0.04	0.00	0.00	20.11
rs117428324	X-12731 levels	GCST90200501	10	133303738	A	G	5770	0.33	0.07	0.00	0.00	20.60
rs57554724	X-12731 levels	GCST90200501	11	20440373	C	T	5770	0.23	0.04	0.00	0.00	27.89
rs12279948	X-12731 levels	GCST90200501	11	27026251	G	C	5770	-0.11	0.02	0.00	0.00	22.15
rs61913160	X-12731 levels	GCST90200501	11	96789421	A	C	5770	0.11	0.02	0.00	0.00	27.71
rs34649330	X-12731 levels	GCST90200501	12	53499247	T	C	5770	-0.12	0.03	0.00	0.00	22.66
rs7299235	X-12731 levels	GCST90200501	12	69205182	C	G	5770	-0.11	0.02	0.00	0.00	23.37
rs7988881	X-12731 levels	GCST90200501	13	73794749	C	T	5770	-0.09	0.02	0.00	0.00	22.20
rs76277562	X-12731 levels	GCST90200501	14	76338535	G	A	5770	0.21	0.04	0.00	0.00	24.02
rs138075613	X-12731 levels	GCST90200501	15	41405309	A	C	5770	0.24	0.05	0.00	0.00	19.74
rs2115828	X-12731 levels	GCST90200501	15	54174918	G	A	5770	0.34	0.07	0.00	0.00	20.70
rs4426330	X-12731 levels	GCST90200501	15	90158897	G	A	5770	-0.10	0.02	0.00	0.00	20.59
rs12708779	X-12731 levels	GCST90200501	16	13783509	C	G	5770	-0.09	0.02	0.00	0.00	19.59
rs55742101	X-12731 levels	GCST90200501	16	86329779	T	C	5770	0.16	0.03	0.00	0.00	23.89
rs62045844	X-12731 levels	GCST90200501	16	89018519	T	C	5770	0.18	0.04	0.00	0.00	21.14
rs6506440	X-12731 levels	GCST90200501	18	6781017	A	G	5770	-0.21	0.04	0.00	0.00	22.33
rs4649043	X-12707 levels	GCST90200502	1	25015765	A	T	7461	0.14	0.03	0.00	0.00	22.91
rs17357891	X-12707 levels	GCST90200502	1	189150393	G	C	7461	-0.10	0.02	0.00	0.00	20.22
rs2540018	X-12707 levels	GCST90200502	2	59333920	G	A	7461	-0.08	0.02	0.00	0.00	20.61
rs148060734	X-12707 levels	GCST90200502	2	212933105	G	A	7461	0.43	0.09	0.00	0.00	22.66
rs17712069	X-12707 levels	GCST90200502	3	115887108	G	T	7461	0.13	0.03	0.00	0.00	21.93
rs115094506	X-12707 levels	GCST90200502	4	110302519	T	C	7461	0.27	0.06	0.00	0.00	21.87
rs76062400	X-12707 levels	GCST90200502	5	13982180	A	G	7461	0.22	0.05	0.00	0.00	20.43
rs80339217	X-12707 levels	GCST90200502	6	47374896	C	G	7461	-0.25	0.04	0.00	0.00	31.36
rs2040801	X-12707 levels	GCST90200502	7	11242404	C	G	7461	0.43	0.09	0.00	0.00	20.79
rs72720906	X-12707 levels	GCST90200502	9	38377231	A	G	7461	-0.18	0.04	0.00	0.00	19.90
rs4837433	X-12707 levels	GCST90200502	9	129938175	T	A	7461	-0.13	0.03	0.00	0.00	25.19
rs10762982	X-12707 levels	GCST90200502	10	53487720	T	C	7461	-0.10	0.02	0.00	0.00	19.58
rs10770141	X-12707 levels	GCST90200502	11	2172610	G	A	7461	-0.08	0.02	0.00	0.00	22.82
rs79252520	X-12707 levels	GCST90200502	11	34870278	T	C	7461	0.20	0.04	0.00	0.00	19.68
rs4963272	X-12707 levels	GCST90200502	11	63555356	G	A	7461	0.09	0.02	0.00	0.00	20.61
rs76470122	X-12707 levels	GCST90200502	12	84359936	T	C	7461	-0.12	0.03	0.00	0.00	20.24
rs9525958	X-12707 levels	GCST90200502	13	44466912	T	C	7461	0.17	0.04	0.00	0.00	21.56
rs12438830	X-12707 levels	GCST90200502	15	94477410	C	G	7461	0.12	0.03	0.00	0.00	19.71
rs29575	X-12707 levels	GCST90200502	16	8322963	A	T	7461	-0.07	0.02	0.00	0.00	19.74
rs7199777	X-12707 levels	GCST90200502	16	24021875	C	T	7461	0.08	0.02	0.00	0.00	25.52
rs111875922	X-12707 levels	GCST90200502	16	28551158	T	C	7461	0.46	0.06	0.00	0.01	59.68

rs144245963	X-12707 levels	GCST90200502	16	28579926	T	C	7461	0.52	0.07	0.00	0.01	60.02
rs117985404	X-12707 levels	GCST90200502	16	28588700	A	G	7461	0.34	0.05	0.00	0.01	39.63
rs113927841	X-12707 levels	GCST90200502	16	28633813	C	T	7461	0.26	0.06	0.00	0.00	20.78
rs12325244	X-12707 levels	GCST90200502	16	28849146	C	T	7461	0.26	0.06	0.00	0.00	19.54
rs12923643	X-12707 levels	GCST90200502	16	28955514	A	G	7461	0.31	0.04	0.00	0.01	54.74
rs116938011	X-12707 levels	GCST90200502	16	28999791	T	C	7461	-0.71	0.08	0.00	0.01	72.92
rs78157656	X-12707 levels	GCST90200502	18	66036164	A	G	7461	-0.28	0.06	0.00	0.00	20.27
rs76274897	X-12707 levels	GCST90200502	18	78051008	T	C	7461	0.10	0.02	0.00	0.00	22.08
rs36123375	X-12707 levels	GCST90200502	22	19872536	T	G	7461	0.16	0.03	0.00	0.00	22.15
rs165656	X-12707 levels	GCST90200502	22	19961340	C	G	7461	0.24	0.02	0.00	0.03	226.34
rs115999384	X-12729 levels	GCST90200503	1	84245830	G	A	7446	0.53	0.11	0.00	0.00	23.21
rs144468068	X-12729 levels	GCST90200503	1	199620442	C	G	7446	-0.34	0.08	0.00	0.00	20.90
rs35872799	X-12729 levels	GCST90200503	1	243380958	T	G	7446	0.19	0.04	0.00	0.00	23.66
rs114203096	X-12729 levels	GCST90200503	3	74062770	C	T	7446	0.62	0.14	0.00	0.00	20.28
rs9852801	X-12729 levels	GCST90200503	3	133873930	A	C	7446	0.08	0.02	0.00	0.00	23.31
rs60837324	X-12729 levels	GCST90200503	4	25641234	A	G	7446	0.08	0.02	0.00	0.00	20.41
rs11941570	X-12729 levels	GCST90200503	4	37471762	G	A	7446	-0.10	0.02	0.00	0.00	21.67
rs113076767	X-12729 levels	GCST90200503	4	55331263	G	A	7446	0.20	0.04	0.00	0.00	20.58
rs142184447	X-12729 levels	GCST90200503	4	66494267	C	T	7446	0.15	0.03	0.00	0.00	21.74
rs76796972	X-12729 levels	GCST90200503	4	104237869	T	C	7446	-0.26	0.06	0.00	0.00	21.02
rs72703892	X-12729 levels	GCST90200503	4	179966881	A	G	7446	0.18	0.03	0.00	0.00	28.18
rs13162517	X-12729 levels	GCST90200503	5	113909970	C	T	7446	0.16	0.04	0.00	0.00	20.43
rs116227346	X-12729 levels	GCST90200503	6	16986178	C	G	7446	0.44	0.10	0.00	0.00	20.66
rs190842251	X-12729 levels	GCST90200503	7	62545119	A	C	7446	3.15	0.71	0.00	0.00	19.95
rs10256499	X-12729 levels	GCST90200503	7	143942958	A	G	7446	0.21	0.04	0.00	0.00	27.76
rs2449174	X-12729 levels	GCST90200503	8	3600024	G	A	7446	0.10	0.02	0.00	0.00	22.56
rs75261704	X-12729 levels	GCST90200503	8	19623606	G	A	7446	0.17	0.04	0.00	0.00	22.41
rs141529568	X-12729 levels	GCST90200503	8	29369201	A	G	7446	0.30	0.07	0.00	0.00	20.29
rs78166940	X-12729 levels	GCST90200503	8	119618853	T	G	7446	1.08	0.24	0.00	0.00	21.08
rs11142789	X-12729 levels	GCST90200503	9	71295466	T	C	7446	-0.10	0.02	0.00	0.00	20.26
rs140651776	X-12729 levels	GCST90200503	10	66743905	T	A	7446	-0.11	0.02	0.00	0.00	21.01
rs76235046	X-12729 levels	GCST90200503	12	125844558	G	A	7446	0.20	0.05	0.00	0.00	20.18
rs61956684	X-12729 levels	GCST90200503	13	59418764	T	C	7446	0.33	0.06	0.00	0.00	25.82
rs7991863	X-12729 levels	GCST90200503	13	75710859	T	G	7446	0.25	0.05	0.00	0.00	21.68
rs34772335	X-12729 levels	GCST90200503	14	89436352	T	A	7446	0.09	0.02	0.00	0.00	20.99
rs143845203	X-12729 levels	GCST90200503	15	66742868	T	G	7446	0.61	0.13	0.00	0.00	22.54
rs139776635	X-12729 levels	GCST90200503	20	25663764	T	C	7446	0.31	0.07	0.00	0.00	19.61
rs192526781	X-12729 levels	GCST90200503	20	41637744	A	C	7446	0.41	0.09	0.00	0.00	20.61
rs2483250	X-12830 levels	GCST90200504	1	3439841	C	A	5725	0.16	0.03	0.00	0.00	24.83
rs185729445	X-12830 levels	GCST90200504	1	117720650	A	G	5725	-0.48	0.10	0.00	0.00	22.64
rs10127728	X-12830 levels	GCST90200504	1	173182017	T	G	5725	0.13	0.03	0.00	0.00	20.06
rs77217066	X-12830 levels	GCST90200504	2	40044773	G	T	5725	0.32	0.07	0.00	0.00	19.85
rs12989747	X-12830 levels	GCST90200504	2	172422296	G	A	5725	-0.10	0.02	0.00	0.00	25.61
rs17237062	X-12830 levels	GCST90200504	2	174042915	A	C	5725	-0.09	0.02	0.00	0.00	19.85
rs146640068	X-12830 levels	GCST90200504	3	10424750	A	G	5725	0.80	0.18	0.00	0.00	19.60
rs6819968	X-12830 levels	GCST90200504	4	58969548	G	A	5725	-0.11	0.02	0.00	0.00	23.39
rs116109325	X-12830 levels	GCST90200504	4	110328870	G	A	5725	-0.30	0.07	0.00	0.00	20.13
rs7718231	X-12830 levels	GCST90200504	5	37891384	A	G	5725	0.16	0.03	0.00	0.00	21.80
rs192877104	X-12830 levels	GCST90200504	5	64181858	A	G	5725	-0.38	0.08	0.00	0.00	20.00
rs72890109	X-12830 levels	GCST90200504	6	66965414	G	A	5725	-0.20	0.04	0.00	0.00	21.98
rs17590916	X-12830 levels	GCST90200504	6	90634291	G	T	5725	-0.09	0.02	0.00	0.00	23.99
rs78841457	X-12830 levels	GCST90200504	6	151653357	A	G	5725	-0.32	0.07	0.00	0.00	21.37
rs5010832	X-12830 levels	GCST90200504	7	21833095	G	A	5725	0.11	0.02	0.00	0.00	20.09
rs7823820	X-12830 levels	GCST90200504	8	130513176	A	T	5725	0.10	0.02	0.00	0.00	21.15

rs10811951	X-12830 levels	GCST90200504	9	23675853	A	T	5725	-0.29	0.06	0.00	0.00	23.12
rs10817938	X-12830 levels	GCST90200504	9	97700127	C	T	5725	0.24	0.05	0.00	0.00	23.44
rs14749424 2	X-12830 levels	GCST90200504	9	118367298	T	C	5725	0.47	0.10	0.00	0.00	21.16
rs4756498	X-12830 levels	GCST90200504	11	39301877	C	T	5725	0.35	0.07	0.00	0.00	24.13
rs79791836	X-12830 levels	GCST90200504	12	75030060	G	A	5725	0.22	0.05	0.00	0.00	20.27
rs3011445	X-12830 levels	GCST90200504	13	29257643	G	T	5725	0.15	0.03	0.00	0.00	22.14
rs11684469 8	X-12830 levels	GCST90200504	17	66764695	T	A	5725	-0.30	0.07	0.00	0.00	21.01
rs45619334	X-12830 levels	GCST90200504	18	25252715	T	G	5725	-0.31	0.07	0.00	0.00	19.61
rs2903842	X-12830 levels	GCST90200504	19	28178644	C	T	5725	-0.12	0.02	0.00	0.00	23.66
rs73319078	X-12830 levels	GCST90200504	20	62425173	A	G	5725	-0.32	0.06	0.00	0.00	24.30
rs74324875	X-12830 levels	GCST90200504	21	30914338	A	G	5725	-0.21	0.05	0.00	0.00	20.17
rs5756677	X-12830 levels	GCST90200504	22	37439541	A	G	5725	-0.10	0.02	0.00	0.00	19.69
rs11449040 4	X-12818 levels	GCST90200505	1	65381421	T	C	6246	-0.29	0.06	0.00	0.00	23.16
rs12468008	X-12818 levels	GCST90200505	2	6067888	A	T	6246	-0.17	0.04	0.00	0.00	22.78
rs13397679	X-12818 levels	GCST90200505	2	25708236	A	G	6246	-0.15	0.03	0.00	0.00	20.19
rs7575241	X-12818 levels	GCST90200505	2	135010782	A	C	6246	-0.10	0.02	0.00	0.00	20.27
rs73035081	X-12818 levels	GCST90200505	2	176930005	A	G	6246	-0.19	0.04	0.00	0.00	22.26
rs14073371 0	X-12818 levels	GCST90200505	2	221784885	C	T	6246	-0.20	0.04	0.00	0.00	23.83
rs7642640	X-12818 levels	GCST90200505	3	7485822	T	G	6246	-0.35	0.08	0.00	0.00	19.71
rs16847291	X-12818 levels	GCST90200505	3	137653064	G	A	6246	0.29	0.06	0.00	0.00	21.30
rs78209121	X-12818 levels	GCST90200505	4	113072837	G	A	6246	0.19	0.04	0.00	0.00	20.37
rs1948210	X-12818 levels	GCST90200505	4	130636909	T	C	6246	0.08	0.02	0.00	0.00	19.78
rs76928260	X-12818 levels	GCST90200505	5	25089366	A	G	6246	0.15	0.03	0.00	0.00	20.18
rs351250	X-12818 levels	GCST90200505	5	141907117	A	G	6246	0.44	0.10	0.00	0.00	20.02
rs9362595	X-12818 levels	GCST90200505	6	88977126	T	G	6246	0.08	0.02	0.00	0.00	19.56
rs76847240	X-12818 levels	GCST90200505	8	131830118	T	G	6246	-0.31	0.07	0.00	0.00	20.57
rs14049859 2	X-12818 levels	GCST90200505	9	5362389	T	C	6246	-0.43	0.10	0.00	0.00	19.72
rs72738691	X-12818 levels	GCST90200505	9	80076226	T	C	6246	-0.38	0.08	0.00	0.00	24.04
rs78939116	X-12818 levels	GCST90200505	11	80859191	G	A	6246	-0.23	0.05	0.00	0.00	19.67
rs12794326	X-12818 levels	GCST90200505	11	113248134	T	C	6246	0.09	0.02	0.00	0.00	22.94
rs18966562 1	X-12818 levels	GCST90200505	15	25001835	A	T	6246	-0.45	0.10	0.00	0.00	19.98
rs14133504 9	X-12818 levels	GCST90200505	17	1502206	G	A	6246	-0.22	0.04	0.00	0.00	24.26
rs11215525 7	X-12818 levels	GCST90200505	18	23246537	G	A	6246	0.15	0.03	0.00	0.00	20.52
rs9964683	X-12818 levels	GCST90200505	18	47499054	C	T	6246	0.08	0.02	0.00	0.00	19.58
rs858059	X-12818 levels	GCST90200505	20	24247037	A	G	6246	0.08	0.02	0.00	0.00	20.05
rs4839515	X-12812 levels	GCST90200506	1	116164162	C	T	6435	0.10	0.02	0.00	0.00	23.03
rs15125613 9	X-12812 levels	GCST90200506	1	234795864	T	C	6435	-0.36	0.08	0.00	0.00	22.13
rs360413	X-12812 levels	GCST90200506	3	171589803	G	A	6435	0.09	0.02	0.00	0.00	23.89
rs76930955	X-12812 levels	GCST90200506	4	6565761	G	A	6435	-0.20	0.05	0.00	0.00	19.91
rs11580678 3	X-12812 levels	GCST90200506	4	60416500	A	C	6435	-0.15	0.03	0.00	0.00	19.91
rs78871416	X-12812 levels	GCST90200506	4	181043656	T	C	6435	0.38	0.08	0.00	0.00	20.89
rs75768169	X-12812 levels	GCST90200506	5	10292289	G	C	6435	0.37	0.08	0.00	0.00	20.91
rs507207	X-12812 levels	GCST90200506	5	162184381	G	T	6435	-0.09	0.02	0.00	0.00	25.27
rs11412307 6	X-12812 levels	GCST90200506	6	148849788	A	G	6435	0.29	0.06	0.00	0.00	21.30
rs76019207	X-12812 levels	GCST90200506	7	68100541	T	C	6435	0.25	0.05	0.00	0.00	20.06
rs75657278	X-12812 levels	GCST90200506	8	13706184	T	C	6435	0.22	0.05	0.00	0.00	19.97
rs72618191	X-12812 levels	GCST90200506	9	93949367	T	G	6435	-0.51	0.12	0.00	0.00	19.64
rs11015257	X-12812 levels	GCST90200506	10	26742160	A	T	6435	-0.16	0.03	0.00	0.00	21.50
rs75800330	X-12812 levels	GCST90200506	11	9687932	C	T	6435	-0.20	0.04	0.00	0.00	19.62
rs78328708	X-12812 levels	GCST90200506	11	33024099	A	C	6435	0.20	0.04	0.00	0.00	20.89
rs9898599	X-12812 levels	GCST90200506	17	68328623	A	G	6435	-0.09	0.02	0.00	0.00	20.84
rs78975261	X-12812 levels	GCST90200506	21	34223595	A	C	6435	-0.30	0.07	0.00	0.00	19.76
rs858033	X-12812 levels	GCST90200506	21	37729218	T	C	6435	0.09	0.02	0.00	0.00	19.71
rs11671233 8	X-12822 levels	GCST90200507	1	29447819	A	G	7957	-0.29	0.06	0.00	0.00	22.31
rs13095942	X-12822 levels	GCST90200507	3	65292896	C	T	7957	0.14	0.03	0.00	0.00	21.11
rs79174723	X-12822 levels	GCST90200507	3	151865646	C	T	7957	-0.14	0.03	0.00	0.00	20.75
rs11723917	X-12822 levels	GCST90200507	4	108268960	T	G	7957	0.22	0.05	0.00	0.00	21.60
rs2762353	X-12822 levels	GCST90200507	6	25794203	G	A	7957	0.26	0.02	0.00	0.04	298.18
rs3799367	X-12822 levels	GCST90200507	6	25877274	C	A	7957	0.10	0.02	0.00	0.00	37.17
rs18130523 2	X-12822 levels	GCST90200507	8	1591535	T	C	7957	-0.26	0.06	0.00	0.00	20.47

rs114848508	X-12822 levels	GCST90200507	8	56913544	A	T	7957	0.18	0.04	0.00	0.00	19.66
rs35253810	X-12822 levels	GCST90200507	9	69953181	C	T	7957	0.07	0.02	0.00	0.00	20.64
rs117481713	X-12822 levels	GCST90200507	9	127722272	T	C	7957	0.23	0.05	0.00	0.00	20.56
rs72838146	X-12822 levels	GCST90200507	10	99849294	T	C	7957	0.15	0.03	0.00	0.00	22.65
rs35186790	X-12822 levels	GCST90200507	12	121075484	T	C	7957	-0.11	0.02	0.00	0.00	24.98
rs9323508	X-12822 levels	GCST90200507	14	68423393	G	A	7957	0.07	0.02	0.00	0.00	19.96
rs55651630	X-12822 levels	GCST90200507	15	42669796	G	A	7957	0.10	0.02	0.00	0.00	23.95
rs55762828	X-12822 levels	GCST90200507	18	3242811	A	G	7957	0.22	0.05	0.00	0.00	22.46
rs73310215	X-12822 levels	GCST90200507	21	17620558	G	C	7957	-0.35	0.08	0.00	0.00	19.89
rs112841497	X-12822 levels	GCST90200507	22	39001596	T	C	7957	-0.26	0.06	0.00	0.00	20.67
rs150826928	X-12738 levels	GCST90200508	2	157189148	T	C	5874	-0.37	0.07	0.00	0.00	25.34
rs115621382	X-12738 levels	GCST90200508	3	95227538	T	G	5874	0.32	0.07	0.00	0.00	21.48
rs79993169	X-12738 levels	GCST90200508	3	146159546	A	G	5874	0.24	0.06	0.00	0.00	19.52
rs149130651	X-12738 levels	GCST90200508	4	105010341	C	T	5874	-0.35	0.08	0.00	0.00	20.32
rs2877985	X-12738 levels	GCST90200508	4	177347743	G	A	5874	-0.13	0.03	0.00	0.00	19.69
rs114762502	X-12738 levels	GCST90200508	4	178321844	T	C	5874	-0.50	0.11	0.00	0.00	21.29
rs78017143	X-12738 levels	GCST90200508	5	32567530	C	T	5874	-0.31	0.07	0.00	0.00	19.87
rs115665989	X-12738 levels	GCST90200508	5	76559278	T	C	5874	0.35	0.07	0.00	0.00	21.82
rs34296934	X-12738 levels	GCST90200508	7	126013826	A	G	5874	-0.09	0.02	0.00	0.00	20.82
rs12544035	X-12738 levels	GCST90200508	8	141622825	A	G	5874	-0.10	0.02	0.00	0.00	20.94
rs6480485	X-12738 levels	GCST90200508	10	71052128	G	A	5874	0.09	0.02	0.00	0.00	21.06
rs143743534	X-12738 levels	GCST90200508	11	60526046	A	G	5874	-0.30	0.06	0.00	0.00	24.73
rs149706970	X-12738 levels	GCST90200508	14	56457230	C	T	5874	0.29	0.07	0.00	0.00	20.14
rs79606653	X-12738 levels	GCST90200508	15	54795320	G	A	5874	0.12	0.03	0.00	0.00	20.29
rs140644844	X-12738 levels	GCST90200508	17	18909929	T	C	5874	-0.43	0.09	0.00	0.00	20.67
rs12940181	X-12738 levels	GCST90200508	17	35429981	A	T	5874	0.12	0.03	0.00	0.00	22.47
rs12451699	X-12738 levels	GCST90200508	17	71503458	A	T	5874	-0.18	0.04	0.00	0.00	19.80
rs72935028	X-12738 levels	GCST90200508	18	64504348	A	G	5874	-0.21	0.04	0.00	0.00	23.34
rs148828998	X-12738 levels	GCST90200508	20	64148157	A	G	5874	-0.31	0.07	0.00	0.00	20.43
rs583789	X-12544 levels	GCST90200509	1	89237930	C	G	7471	-0.33	0.07	0.00	0.00	19.70
rs35484591	X-12544 levels	GCST90200509	1	102479425	A	G	7471	-0.16	0.04	0.00	0.00	20.35
rs9725374	X-12544 levels	GCST90200509	1	232377571	C	G	7471	-0.12	0.03	0.00	0.00	20.69
rs113641606	X-12544 levels	GCST90200509	2	40216941	C	T	7471	-0.11	0.02	0.00	0.00	20.07
rs76468795	X-12544 levels	GCST90200509	3	124037958	A	T	7471	-0.11	0.02	0.00	0.00	19.64
rs73155980	X-12544 levels	GCST90200509	3	160687765	C	G	7471	0.21	0.04	0.00	0.00	21.60
rs34078670	X-12544 levels	GCST90200509	3	186321468	C	T	7471	0.38	0.08	0.00	0.00	21.09
rs6533618	X-12544 levels	GCST90200509	4	112427069	G	A	7471	-0.07	0.02	0.00	0.00	20.78
rs7715843	X-12544 levels	GCST90200509	5	136629260	C	T	7471	-0.09	0.02	0.00	0.00	21.03
rs11167850	X-12544 levels	GCST90200509	5	144220953	A	G	7471	0.08	0.02	0.00	0.00	23.10
rs73021292	X-12544 levels	GCST90200509	6	161388059	T	C	7471	0.16	0.04	0.00	0.00	21.15
rs139079805	X-12544 levels	GCST90200509	7	126679237	C	T	7471	0.42	0.09	0.00	0.00	21.09
rs7816295	X-12544 levels	GCST90200509	8	75256635	G	C	7471	-0.08	0.02	0.00	0.00	22.53
rs10964665	X-12544 levels	GCST90200509	9	20700839	G	A	7471	0.08	0.02	0.00	0.00	25.22
rs151073103	X-12544 levels	GCST90200509	10	16211065	C	G	7471	2.73	0.57	0.00	0.00	23.24
rs113225663	X-12544 levels	GCST90200509	10	94814942	T	C	7471	0.22	0.03	0.00	0.01	42.18
rs10840422	X-12544 levels	GCST90200509	11	10470194	T	A	7471	-0.07	0.02	0.00	0.00	20.26
rs117824389	X-12544 levels	GCST90200509	11	75089093	A	G	7471	0.30	0.06	0.00	0.00	22.54
rs143220286	X-12544 levels	GCST90200509	11	85885003	A	G	7471	0.25	0.06	0.00	0.00	19.58
rs112000638	X-12544 levels	GCST90200509	11	131359434	C	T	7471	0.39	0.08	0.00	0.00	22.27
rs188054632	X-12544 levels	GCST90200509	17	75514221	G	C	7471	0.36	0.08	0.00	0.00	19.94
rs72968250	X-12544 levels	GCST90200509	18	59158969	A	G	7471	0.22	0.05	0.00	0.00	21.19
rs4892153	X-12544 levels	GCST90200509	18	73832210	C	G	7471	-0.23	0.05	0.00	0.00	21.04
rs144225974	X-12544 levels	GCST90200509	19	49947752	C	G	7471	0.29	0.06	0.00	0.00	20.01

rs11238934 1	X-12544 levels	GCST90200509	19	57157416	T	C	7471	0.21	0.05	0.00	0.00	19.69
rs74973692	X-12544 levels	GCST90200509	21	37845170	T	G	7471	0.19	0.03	0.00	0.00	29.37
rs11394976 3	X-12680 levels	GCST90200510	1	106003794	A	G	8255	-0.09	0.02	0.00	0.00	19.74
rs17416443	X-12680 levels	GCST90200510	2	212146780	T	A	8255	0.16	0.03	0.00	0.00	20.17
rs62278649	X-12680 levels	GCST90200510	3	157449066	A	G	8255	-0.08	0.02	0.00	0.00	25.27
rs10006132	X-12680 levels	GCST90200510	4	113822491	A	G	8255	0.11	0.02	0.00	0.00	28.49
rs6888519	X-12680 levels	GCST90200510	5	172744640	C	T	8255	-0.18	0.04	0.00	0.00	20.93
rs9461633	X-12680 levels	GCST90200510	6	30793391	G	A	8255	-0.09	0.02	0.00	0.00	19.58
rs62	X-12680 levels	GCST90200510	7	11581530	C	T	8255	-0.07	0.02	0.00	0.00	19.91
rs11759904 4	X-12680 levels	GCST90200510	7	19087917	T	A	8255	0.15	0.03	0.00	0.00	19.89
rs11790084	X-12680 levels	GCST90200510	9	466528	T	C	8255	-0.12	0.02	0.00	0.00	23.68
rs61844105	X-12680 levels	GCST90200510	10	17465128	T	A	8255	0.12	0.03	0.00	0.00	20.56
rs1232965	X-12680 levels	GCST90200510	12	47566688	G	A	8255	0.13	0.03	0.00	0.00	23.90
rs73164485	X-12680 levels	GCST90200510	13	22028594	T	C	8255	0.20	0.04	0.00	0.00	27.48
rs468720	X-12680 levels	GCST90200510	13	56111736	A	G	8255	0.08	0.02	0.00	0.00	22.72
rs13826861 5	X-12680 levels	GCST90200510	13	93442826	C	G	8255	-0.28	0.06	0.00	0.00	19.81
rs74459194	X-12680 levels	GCST90200510	14	60303801	A	C	8255	-0.26	0.06	0.00	0.00	19.75
rs12438406	X-12680 levels	GCST90200510	15	60777272	C	T	8255	0.09	0.02	0.00	0.00	19.60
rs75693448	X-12680 levels	GCST90200510	19	16884261	T	C	8255	-0.12	0.03	0.00	0.00	22.24
rs201928	X-12680 levels	GCST90200510	20	17544258	T	C	8255	0.07	0.02	0.00	0.00	20.29
rs548299	X-12906 levels	GCST90200511	1	44098146	T	C	7896	-0.07	0.02	0.00	0.00	20.38
rs9789361	X-12906 levels	GCST90200511	2	71723920	G	T	7896	-0.08	0.02	0.00	0.00	19.93
rs11617457 8	X-12906 levels	GCST90200511	2	214496344	A	C	7896	0.35	0.07	0.00	0.00	21.89
rs79547980	X-12906 levels	GCST90200511	3	3218402	G	T	7896	0.22	0.05	0.00	0.00	20.51
rs7679999	X-12906 levels	GCST90200511	4	181849709	C	T	7896	0.08	0.02	0.00	0.00	23.91
rs310325	X-12906 levels	GCST90200511	8	23828054	T	C	7896	-0.07	0.02	0.00	0.00	20.48
rs11770843 6	X-12906 levels	GCST90200511	8	97449134	T	C	7896	0.29	0.07	0.00	0.00	19.72
rs34153407	X-12906 levels	GCST90200511	8	138198093	G	A	7896	-0.10	0.02	0.00	0.00	23.45
rs14327	X-12906 levels	GCST90200511	10	50306130	C	T	7896	-0.07	0.02	0.00	0.00	22.02
rs11193706	X-12906 levels	GCST90200511	10	107807992	T	G	7896	0.12	0.02	0.00	0.00	22.08
rs12354542	X-12906 levels	GCST90200511	10	109553005	C	T	7896	-0.15	0.03	0.00	0.00	19.55
rs4938481	X-12906 levels	GCST90200511	11	118098659	T	C	7896	-0.08	0.02	0.00	0.00	23.68
rs61943887	X-12906 levels	GCST90200511	12	132200252	T	C	7896	-0.31	0.07	0.00	0.00	21.32
rs73159010	X-12906 levels	GCST90200511	13	22806017	A	G	7896	-0.11	0.02	0.00	0.00	20.15
rs14948650 5	X-12906 levels	GCST90200511	14	25327335	G	A	7896	0.32	0.07	0.00	0.00	20.36
rs55980115	X-12906 levels	GCST90200511	15	25856557	T	C	7896	-0.23	0.05	0.00	0.00	20.47
rs11160436 1	X-12906 levels	GCST90200511	18	40105424	T	C	7896	0.30	0.06	0.00	0.00	21.78
rs14275422 5	X-12906 levels	GCST90200511	18	53631661	C	T	7896	0.33	0.07	0.00	0.00	22.68
rs6587622	X-13684 levels	GCST90200512	1	151841929	G	A	8112	-0.07	0.01	0.00	0.00	21.47
rs73044866	X-13684 levels	GCST90200512	1	166373796	A	G	8112	-0.24	0.05	0.00	0.00	20.85
rs2160387	X-13684 levels	GCST90200512	2	64993776	C	T	8112	-0.20	0.01	0.00	0.02	183.84
rs11443422 2	X-13684 levels	GCST90200512	2	138335532	T	C	8112	-0.23	0.05	0.00	0.00	19.57
rs35379016	X-13684 levels	GCST90200512	2	230377242	G	C	8112	0.08	0.02	0.00	0.00	21.34
rs14884342 0	X-13684 levels	GCST90200512	3	140936230	T	C	8112	-0.16	0.04	0.00	0.00	20.26
rs1526914	X-13684 levels	GCST90200512	4	122038028	A	G	8112	-0.10	0.02	0.00	0.00	24.00
rs28714103	X-13684 levels	GCST90200512	4	131588576	A	T	8112	-0.08	0.02	0.00	0.00	19.52
rs76479880	X-13684 levels	GCST90200512	4	189115614	A	G	8112	0.22	0.05	0.00	0.00	21.96
rs62362636	X-13684 levels	GCST90200512	5	77196531	G	A	8112	0.09	0.02	0.00	0.00	19.79
rs11447432 7	X-13684 levels	GCST90200512	6	32438117	T	A	8112	-0.31	0.07	0.00	0.00	21.92
rs62400866	X-13684 levels	GCST90200512	6	46207471	T	C	8112	-0.19	0.04	0.00	0.00	19.97
rs14444592 2	X-13684 levels	GCST90200512	6	71264700	C	T	8112	0.33	0.07	0.00	0.00	22.65
rs76949216	X-13684 levels	GCST90200512	6	138502902	T	A	8112	0.27	0.06	0.00	0.00	20.56
rs4524699	X-13684 levels	GCST90200512	7	154500783	C	A	8112	0.08	0.02	0.00	0.00	23.61
rs11745076 5	X-13684 levels	GCST90200512	8	86949012	C	T	8112	-0.15	0.03	0.00	0.00	23.20
rs2725878	X-13684 levels	GCST90200512	8	124946812	G	A	8112	0.08	0.02	0.00	0.00	21.13
rs17340890	X-13684 levels	GCST90200512	10	14502082	A	G	8112	0.15	0.03	0.00	0.00	20.92
rs79459541	X-13684 levels	GCST90200512	10	125687771	A	G	8112	0.15	0.03	0.00	0.00	20.36
rs4287265	X-13684 levels	GCST90200512	10	131351826	A	G	8112	-0.09	0.02	0.00	0.00	25.02
rs3802967	X-13684 levels	GCST90200512	11	18322517	C	T	8112	-0.12	0.01	0.00	0.01	65.29

rs117469840	X-13684 levels	GCST90200512	11	117320185	T	C	8112	0.27	0.06	0.00	0.00	24.31
rs147581056	X-13684 levels	GCST90200512	12	69128385	A	G	8112	-0.32	0.07	0.00	0.00	20.47
rs61729891	X-13684 levels	GCST90200512	14	21283098	A	G	8112	0.24	0.05	0.00	0.00	20.68
rs28606058	X-13684 levels	GCST90200512	14	34011990	G	C	8112	-0.11	0.03	0.00	0.00	19.84
rs2781413	X-13684 levels	GCST90200512	14	97502650	T	C	8112	0.08	0.02	0.00	0.00	21.57
rs234126	X-13684 levels	GCST90200512	14	97656422	T	C	8112	-0.07	0.02	0.00	0.00	20.98
rs2062541	X-13684 levels	GCST90200512	16	16033378	A	G	8112	-0.12	0.02	0.00	0.01	64.27
rs8050744	X-13684 levels	GCST90200512	16	58758580	G	A	8112	0.34	0.03	0.00	0.02	156.76
rs7192948	X-13684 levels	GCST90200512	16	81147492	T	G	8112	-0.15	0.03	0.00	0.00	24.61
rs77349210	X-13684 levels	GCST90200512	18	77072410	G	A	8112	-0.13	0.02	0.00	0.00	28.80
rs1150405	X-13684 levels	GCST90200512	20	54330353	A	G	8112	-0.07	0.02	0.00	0.00	19.58
rs3753143	X-13684 levels	GCST90200512	22	37027101	C	T	8112	-0.33	0.03	0.00	0.01	104.42
rs589312	X-13507 levels	GCST90200513	1	199427552	A	G	7936	-0.09	0.02	0.00	0.00	20.63
rs10181777	X-13507 levels	GCST90200513	2	26964386	A	G	7936	-0.08	0.02	0.00	0.00	20.23
rs368427971	X-13507 levels	GCST90200513	2	85024605	C	T	7936	0.36	0.08	0.00	0.00	21.10
rs115341625	X-13507 levels	GCST90200513	2	137068781	A	G	7936	-0.17	0.04	0.00	0.00	20.23
rs12987566	X-13507 levels	GCST90200513	2	171296136	T	C	7936	0.08	0.02	0.00	0.00	19.54
rs76128989	X-13507 levels	GCST90200513	3	30294757	T	C	7936	-0.32	0.07	0.00	0.00	21.56
rs7430957	X-13507 levels	GCST90200513	3	69929315	G	A	7936	-0.10	0.02	0.00	0.00	27.52
rs28441511	X-13507 levels	GCST90200513	3	128656805	C	A	7936	-0.18	0.04	0.00	0.00	20.44
rs77502498	X-13507 levels	GCST90200513	6	161105548	G	A	7936	0.45	0.10	0.00	0.00	21.60
rs17162893	X-13507 levels	GCST90200513	7	10298398	A	G	7936	-0.08	0.02	0.00	0.00	20.15
rs79343234	X-13507 levels	GCST90200513	9	4223503	G	C	7936	-0.09	0.02	0.00	0.00	23.05
rs73185822	X-13507 levels	GCST90200513	12	103181502	G	A	7936	-0.33	0.07	0.00	0.00	21.77
rs9552710	X-13507 levels	GCST90200513	13	22798412	T	A	7936	0.08	0.02	0.00	0.00	24.59
rs1175196	X-13507 levels	GCST90200513	13	44336980	A	C	7936	0.08	0.02	0.00	0.00	20.60
rs2876814	X-13507 levels	GCST90200513	13	84342723	G	T	7936	-0.09	0.02	0.00	0.00	20.60
rs145278999	X-13507 levels	GCST90200513	14	91044751	G	A	7936	-0.19	0.04	0.00	0.00	19.91
rs117873917	X-13507 levels	GCST90200513	14	93173091	T	C	7936	0.25	0.05	0.00	0.00	20.64
rs12149621	X-13507 levels	GCST90200513	16	82111443	T	G	7936	-0.08	0.02	0.00	0.00	22.50
rs144613714	X-12851 levels	GCST90200514	2	179778306	C	G	7385	-0.27	0.06	0.00	0.00	22.82
rs76434393	X-12851 levels	GCST90200514	3	46532941	C	T	7385	0.26	0.06	0.00	0.00	19.51
rs12643735	X-12851 levels	GCST90200514	4	9836234	A	G	7385	-0.09	0.02	0.00	0.00	21.07
rs190607410	X-12851 levels	GCST90200514	4	40292140	T	C	7385	-0.29	0.06	0.00	0.00	20.18
rs114109144	X-12851 levels	GCST90200514	4	58704293	T	C	7385	0.49	0.10	0.00	0.00	23.79
rs10023688	X-12851 levels	GCST90200514	4	79975257	T	C	7385	0.08	0.02	0.00	0.00	20.29
rs188614158	X-12851 levels	GCST90200514	4	183733492	T	C	7385	0.29	0.06	0.00	0.00	20.58
rs11743023	X-12851 levels	GCST90200514	5	40305034	C	T	7385	0.19	0.04	0.00	0.00	21.90
rs72848086	X-12851 levels	GCST90200514	6	37032180	T	G	7385	-0.21	0.05	0.00	0.00	20.74
rs2215644	X-12851 levels	GCST90200514	7	44143527	G	C	7385	-0.09	0.02	0.00	0.00	26.18
rs10094242	X-12851 levels	GCST90200514	8	61723198	T	A	7385	0.08	0.02	0.00	0.00	22.83
rs1385511	X-12851 levels	GCST90200514	8	119059700	G	A	7385	-0.09	0.02	0.00	0.00	20.34
rs1975407	X-12851 levels	GCST90200514	10	54263049	A	G	7385	-0.08	0.02	0.00	0.00	20.48
rs146860861	X-12851 levels	GCST90200514	10	99887356	A	G	7385	-0.19	0.03	0.00	0.00	31.30
rs78517573	X-12851 levels	GCST90200514	11	81398497	G	T	7385	0.17	0.04	0.00	0.00	20.01
rs11045856	X-12851 levels	GCST90200514	12	21197755	C	T	7385	-0.12	0.02	0.00	0.01	38.25
rs261909	X-12851 levels	GCST90200514	12	22721431	C	G	7385	-0.07	0.02	0.00	0.00	20.38
rs4625592	X-12851 levels	GCST90200514	13	100945024	G	A	7385	0.07	0.02	0.00	0.00	20.63
rs2072365	X-12851 levels	GCST90200514	17	50675505	T	C	7385	-0.09	0.02	0.00	0.00	29.19
rs148132579	X-12851 levels	GCST90200514	19	12468122	A	G	7385	-0.11	0.02	0.00	0.00	20.41
rs112540923	X-12851 levels	GCST90200514	19	31856552	T	C	7385	0.26	0.06	0.00	0.00	20.65
rs281377	X-12851 levels	GCST90200514	19	48703346	T	C	7385	-0.08	0.02	0.00	0.00	26.36
rs191477975	X-12851 levels	GCST90200514	20	15238056	A	G	7385	-0.43	0.09	0.00	0.00	23.79
rs1459391	X-12851 levels	GCST90200514	21	23278655	T	C	7385	0.11	0.02	0.00	0.00	20.19
rs11487435	X-12849 levels	GCST90200515	1	31039242	G	A	7555	-0.08	0.02	0.00	0.00	22.25
rs35326271	X-12849 levels	GCST90200515	1	190788556	C	A	7555	0.09	0.02	0.00	0.00	21.38
rs13386620	X-12849 levels	GCST90200515	2	11932932	A	C	7555	-0.12	0.02	0.00	0.00	22.28
rs76447666	X-12849 levels	GCST90200515	2	56810410	C	T	7555	-0.25	0.06	0.00	0.00	20.86
rs6716856	X-12849 levels	GCST90200515	2	127447787	T	G	7555	0.20	0.04	0.00	0.00	21.91
rs3828210	X-12849 levels	GCST90200515	2	239143835	C	T	7555	-0.09	0.02	0.00	0.00	20.37

rs1876254	X-12849 levels	GCST90200515	3	62680244	A	G	7555	-0.08	0.02	0.00	0.00	20.97
rs62321483	X-12849 levels	GCST90200515	4	98292233	C	T	7555	0.11	0.03	0.00	0.00	19.66
rs184782427	X-12849 levels	GCST90200515	4	180784324	A	G	7555	0.23	0.05	0.00	0.00	20.96
rs79918116	X-12849 levels	GCST90200515	5	58927941	A	G	7555	0.19	0.04	0.00	0.00	20.14
rs2916610	X-12849 levels	GCST90200515	5	90293514	G	T	7555	0.13	0.03	0.00	0.00	20.17
rs150860204	X-12849 levels	GCST90200515	6	121587446	G	A	7555	0.48	0.10	0.00	0.00	21.77
rs7759075	X-12849 levels	GCST90200515	6	132588279	T	C	7555	0.21	0.05	0.00	0.00	20.18
rs72611556	X-12849 levels	GCST90200515	7	140401224	C	T	7555	0.40	0.09	0.00	0.00	21.29
rs2942211	X-12849 levels	GCST90200515	8	23523126	A	G	7555	-0.09	0.02	0.00	0.00	19.56
rs12872612	X-12849 levels	GCST90200515	13	26882948	T	G	7555	0.20	0.04	0.00	0.00	20.79
rs111295425	X-12849 levels	GCST90200515	13	66453709	C	G	7555	0.39	0.09	0.00	0.00	20.30
rs9531784	X-12849 levels	GCST90200515	13	85407963	C	T	7555	-0.09	0.02	0.00	0.00	20.41
rs6491806	X-12849 levels	GCST90200515	13	103835020	C	G	7555	-0.08	0.02	0.00	0.00	22.83
rs17091434	X-12849 levels	GCST90200515	14	23391499	T	G	7555	0.15	0.03	0.00	0.00	21.36
rs186129911	X-12849 levels	GCST90200515	14	62492715	T	C	7555	-0.35	0.07	0.00	0.00	22.60
rs73115392	X-12849 levels	GCST90200515	20	18352863	C	T	7555	-0.21	0.05	0.00	0.00	21.39
rs2206890	X-12849 levels	GCST90200515	20	45270494	A	C	7555	-0.17	0.04	0.00	0.00	21.18
rs76738915	X-12849 levels	GCST90200515	20	61211710	A	G	7555	0.14	0.03	0.00	0.00	20.90
rs2833587	X-12849 levels	GCST90200515	21	31974405	A	G	7555	-0.08	0.02	0.00	0.00	24.98
rs10915020	X-12847 levels	GCST90200516	1	34692115	A	T	7790	-0.12	0.03	0.00	0.00	20.47
rs74383526	X-12847 levels	GCST90200516	1	104322463	A	C	7790	0.24	0.05	0.00	0.00	22.53
rs71632110	X-12847 levels	GCST90200516	1	181306363	T	C	7790	-0.35	0.08	0.00	0.00	20.03
rs34344583	X-12847 levels	GCST90200516	3	110569989	A	T	7790	0.12	0.03	0.00	0.00	22.20
rs76685218	X-12847 levels	GCST90200516	4	57342138	T	C	7790	-0.40	0.09	0.00	0.00	21.44
rs1165154	X-12847 levels	GCST90200516	6	25816988	C	T	7790	0.14	0.02	0.00	0.01	74.88
rs849782	X-12847 levels	GCST90200516	7	12606848	C	T	7790	0.09	0.02	0.00	0.00	21.82
rs115333696	X-12847 levels	GCST90200516	7	135898331	A	G	7790	-0.09	0.02	0.00	0.00	21.66
rs1477535	X-12847 levels	GCST90200516	8	31101349	A	G	7790	0.08	0.02	0.00	0.00	20.47
rs62531330	X-12847 levels	GCST90200516	8	69986276	G	A	7790	0.25	0.06	0.00	0.00	19.65
rs10981801	X-12847 levels	GCST90200516	9	97369372	A	C	7790	-0.09	0.02	0.00	0.00	21.27
rs73407913	X-12847 levels	GCST90200516	11	6061488	T	A	7790	0.21	0.05	0.00	0.00	21.12
rs7953809	X-12847 levels	GCST90200516	12	114040437	G	A	7790	-0.08	0.02	0.00	0.00	21.27
rs61945017	X-12847 levels	GCST90200516	13	19156134	A	G	7790	-0.27	0.06	0.00	0.00	19.67
rs9568024	X-12847 levels	GCST90200516	13	48211119	T	C	7790	0.13	0.03	0.00	0.00	21.67
rs7141711	X-12847 levels	GCST90200516	14	65957887	A	C	7790	-0.08	0.02	0.00	0.00	20.78
rs279223	X-12847 levels	GCST90200516	19	11880823	G	T	7790	-0.15	0.03	0.00	0.00	19.56
rs117971927	X-12847 levels	GCST90200516	22	29244856	A	G	7790	-0.28	0.06	0.00	0.00	19.61
rs141993770	X-13553 levels	GCST90200517	1	164413824	C	T	8118	-0.30	0.07	0.00	0.00	20.44
rs186802061	X-13553 levels	GCST90200517	2	39489074	T	G	8118	-0.41	0.09	0.00	0.00	20.23
rs10495913	X-13553 levels	GCST90200517	2	44116537	A	G	8118	0.07	0.01	0.00	0.00	20.89
rs12492113	X-13553 levels	GCST90200517	3	50483971	A	G	8118	-0.10	0.02	0.00	0.00	20.30
rs114819259	X-13553 levels	GCST90200517	3	63600080	G	C	8118	-0.28	0.06	0.00	0.00	21.72
rs142402970	X-13553 levels	GCST90200517	3	164744376	T	C	8118	0.43	0.09	0.00	0.00	21.09
rs144098166	X-13553 levels	GCST90200517	4	5519291	G	A	8118	0.34	0.07	0.00	0.00	22.99
rs77438259	X-13553 levels	GCST90200517	4	129566841	A	C	8118	-0.26	0.06	0.00	0.00	22.05
rs4704097	X-13553 levels	GCST90200517	5	73773756	G	A	8118	-0.07	0.01	0.00	0.00	21.20
rs2963950	X-13553 levels	GCST90200517	5	153649912	T	C	8118	0.07	0.02	0.00	0.00	19.92
rs3121429	X-13553 levels	GCST90200517	6	106684637	C	T	8118	-0.11	0.02	0.00	0.00	20.62
rs4415228	X-13553 levels	GCST90200517	7	46844052	A	G	8118	0.06	0.01	0.00	0.00	20.50
rs13228009	X-13553 levels	GCST90200517	7	118859209	G	A	8118	0.06	0.01	0.00	0.00	19.59
rs2916716	X-13553 levels	GCST90200517	8	6499714	T	A	8118	-0.07	0.02	0.00	0.00	21.46
rs10840516	X-13553 levels	GCST90200517	11	2188737	A	G	8118	0.09	0.02	0.00	0.00	29.49
rs503223	X-13553 levels	GCST90200517	11	124016010	A	G	8118	0.45	0.10	0.00	0.00	19.72
rs12228698	X-13553 levels	GCST90200517	12	84378282	G	A	8118	-0.13	0.02	0.00	0.00	27.43
rs117242663	X-13553 levels	GCST90200517	12	123011088	A	G	8118	-0.29	0.06	0.00	0.00	21.96
rs139448040	X-13553 levels	GCST90200517	14	84597408	A	G	8118	0.27	0.06	0.00	0.00	20.50
rs113941374	X-13553 levels	GCST90200517	15	66946561	G	A	8118	0.16	0.04	0.00	0.00	20.81
rs144245963	X-13553 levels	GCST90200517	16	28579926	T	C	8118	0.33	0.06	0.00	0.00	28.80

rs147712721	X-13553 levels	GCST90200517	16	29771895	C	G	8118	-0.27	0.05	0.00	0.00	31.02
rs8080108	X-13553 levels	GCST90200517	17	49436349	C	T	8118	0.09	0.02	0.00	0.00	31.92
rs2270524	X-13553 levels	GCST90200517	17	64097600	T	C	8118	0.19	0.04	0.00	0.00	21.63
rs72972188	X-13553 levels	GCST90200517	19	586242	C	T	8118	0.11	0.02	0.00	0.00	19.87
rs6687264	X-12839 levels	GCST90200518	1	46908367	C	T	4867	0.15	0.03	0.00	0.01	28.57
rs150404394	X-12839 levels	GCST90200518	1	75701297	G	C	4867	0.10	0.02	0.00	0.00	23.82
rs149417462	X-12839 levels	GCST90200518	1	112812242	G	A	4867	0.18	0.04	0.00	0.00	19.61
rs149251287	X-12839 levels	GCST90200518	1	160594104	T	G	4867	0.38	0.07	0.00	0.01	27.10
rs140132351	X-12839 levels	GCST90200518	1	229291599	T	G	4867	-0.28	0.06	0.00	0.00	19.65
rs72965172	X-12839 levels	GCST90200518	2	159490303	C	T	4867	0.09	0.02	0.00	0.00	19.68
rs138461190	X-12839 levels	GCST90200518	2	216054339	A	G	4867	0.51	0.10	0.00	0.01	25.19
rs142143702	X-12839 levels	GCST90200518	3	32301047	T	G	4867	-0.27	0.06	0.00	0.00	20.47
rs7620877	X-12839 levels	GCST90200518	3	117565982	G	A	4867	0.10	0.02	0.00	0.01	25.45
rs185853925	X-12839 levels	GCST90200518	4	156651330	T	C	4867	0.40	0.08	0.00	0.00	23.29
rs74492026	X-12839 levels	GCST90200518	5	162241883	C	T	4867	-0.25	0.06	0.00	0.00	19.63
rs559147483	X-12839 levels	GCST90200518	5	178353953	C	A	4867	0.38	0.08	0.00	0.00	22.15
rs1408273	X-12839 levels	GCST90200518	6	25840718	G	A	4867	0.13	0.02	0.00	0.01	45.76
rs4721923	X-12839 levels	GCST90200518	7	20598098	C	A	4867	0.09	0.02	0.00	0.00	21.42
rs12669528	X-12839 levels	GCST90200518	7	21459003	G	C	4867	-0.10	0.02	0.00	0.00	20.43
rs73153958	X-12839 levels	GCST90200518	7	142039525	A	G	4867	0.37	0.08	0.00	0.00	20.64
rs2702828	X-12839 levels	GCST90200518	8	6916786	G	A	4867	0.22	0.05	0.00	0.00	19.55
rs10821696	X-12839 levels	GCST90200518	10	60180013	C	G	4867	-0.11	0.02	0.00	0.01	25.30
rs80051868	X-12839 levels	GCST90200518	12	71804548	C	T	4867	0.30	0.06	0.00	0.00	20.92
rs61942136	X-12839 levels	GCST90200518	12	106255446	T	C	4867	-0.09	0.02	0.00	0.00	20.28
rs11616521	X-12839 levels	GCST90200518	13	22932509	G	T	4867	0.10	0.02	0.00	0.00	20.86
rs1333584	X-12839 levels	GCST90200518	13	82599139	T	C	4867	0.09	0.02	0.00	0.00	22.03
rs117404767	X-12839 levels	GCST90200518	13	104457715	A	C	4867	0.39	0.08	0.00	0.00	22.83
rs147262219	X-12839 levels	GCST90200518	16	24151506	T	C	4867	-0.42	0.09	0.00	0.00	20.39
rs115995689	X-12839 levels	GCST90200518	18	38854467	G	A	4867	-0.41	0.09	0.00	0.00	20.09
rs74407240	X-12839 levels	GCST90200518	19	2522673	G	A	4867	0.15	0.03	0.00	0.00	20.42
rs117610650	X-12839 levels	GCST90200518	19	28585023	T	C	4867	0.34	0.08	0.00	0.00	19.88
rs6109233	X-12839 levels	GCST90200518	20	12030723	G	A	4867	-0.13	0.03	0.00	0.00	22.17
rs7270451	X-12839 levels	GCST90200518	20	54628101	T	C	4867	-0.10	0.02	0.00	0.00	20.90
rs138789	X-12839 levels	GCST90200518	22	35334092	C	A	4867	0.10	0.02	0.00	0.00	24.36
rs113685239	X-12839 levels	GCST90200518	22	42393944	A	G	4867	0.32	0.07	0.00	0.00	20.31
rs10494228	X-13729 levels	GCST90200519	1	119635202	C	G	7724	0.07	0.02	0.00	0.00	20.71
rs12034533	X-13729 levels	GCST90200519	1	173519136	C	A	7724	0.10	0.02	0.00	0.00	22.33
rs10174021	X-13729 levels	GCST90200519	2	10939414	C	T	7724	0.12	0.02	0.00	0.00	24.21
rs537510794	X-13729 levels	GCST90200519	2	233185568	C	G	7724	0.27	0.06	0.00	0.00	22.01
rs72551330	X-13729 levels	GCST90200519	2	233672032	C	T	7724	0.30	0.06	0.00	0.00	21.96
rs76411331	X-13729 levels	GCST90200519	3	21217574	T	C	7724	0.12	0.03	0.00	0.00	19.82
rs11130907	X-13729 levels	GCST90200519	3	63005500	T	A	7724	0.08	0.02	0.00	0.00	21.66
rs10937929	X-13729 levels	GCST90200519	4	3481310	G	A	7724	-0.08	0.02	0.00	0.00	24.84
rs60981106	X-13729 levels	GCST90200519	4	8084781	A	G	7724	0.19	0.04	0.00	0.00	21.00
rs114081268	X-13729 levels	GCST90200519	4	128815390	A	G	7724	-0.35	0.07	0.00	0.00	23.13
rs79102130	X-13729 levels	GCST90200519	4	140194787	A	G	7724	-0.17	0.04	0.00	0.00	22.77
rs28477602	X-13729 levels	GCST90200519	4	163309325	T	C	7724	-0.08	0.02	0.00	0.00	20.80
rs75428798	X-13729 levels	GCST90200519	5	101671432	T	A	7724	0.23	0.05	0.00	0.00	20.93
rs373599134	X-13729 levels	GCST90200519	7	63745596	G	A	7724	0.17	0.04	0.00	0.00	20.54
rs747631	X-13729 levels	GCST90200519	7	98229870	C	A	7724	0.07	0.02	0.00	0.00	22.62
rs117982327	X-13729 levels	GCST90200519	8	3521000	C	T	7724	-0.22	0.05	0.00	0.00	20.23
rs73430743	X-13729 levels	GCST90200519	9	20391704	T	C	7724	-0.29	0.06	0.00	0.00	22.01
rs186601729	X-13729 levels	GCST90200519	9	128829567	T	C	7724	-0.25	0.06	0.00	0.00	21.03
rs10999397	X-13729 levels	GCST90200519	10	70556838	C	A	7724	-0.07	0.02	0.00	0.00	21.18

rs117144859	X-13729 levels	GCST90200519	10	91471197	G	C	7724	0.20	0.04	0.00	0.00	28.78
rs7068446	X-13729 levels	GCST90200519	10	113537927	G	A	7724	-0.22	0.05	0.00	0.00	20.57
rs118155399	X-13729 levels	GCST90200519	11	68046994	G	A	7724	-0.17	0.04	0.00	0.00	20.30
rs72741925	X-13729 levels	GCST90200519	15	48955484	G	T	7724	-0.08	0.02	0.00	0.00	20.68
rs1112669	X-13729 levels	GCST90200519	15	94501748	C	G	7724	0.10	0.02	0.00	0.00	22.34
rs111875922	X-13729 levels	GCST90200519	16	28551158	T	C	7724	0.28	0.06	0.00	0.00	21.45
rs189978904	X-13729 levels	GCST90200519	16	28823100	T	C	7724	0.19	0.04	0.00	0.00	21.48
rs116938011	X-13729 levels	GCST90200519	16	28999791	T	C	7724	-0.43	0.08	0.00	0.00	27.97
rs4939880	X-13729 levels	GCST90200519	18	49622393	T	C	7724	-0.07	0.02	0.00	0.00	19.99
rs9606138	X-13729 levels	GCST90200519	22	19688870	A	G	7724	0.13	0.03	0.00	0.00	21.73
rs665774	X-13007 levels	GCST90200520	1	169984100	C	T	6270	-0.15	0.03	0.00	0.00	24.22
rs35428087	X-13007 levels	GCST90200520	2	128260490	G	A	6270	-0.12	0.03	0.00	0.00	23.73
rs62244312	X-13007 levels	GCST90200520	3	6598356	G	A	6270	-0.09	0.02	0.00	0.00	24.01
rs73125241	X-13007 levels	GCST90200520	3	79328951	G	A	6270	0.13	0.03	0.00	0.00	21.12
rs11731069	X-13007 levels	GCST90200520	4	7406342	C	G	6270	0.13	0.03	0.00	0.00	19.65
rs138621088	X-13007 levels	GCST90200520	4	128388806	A	G	6270	0.52	0.10	0.00	0.00	27.24
rs13182207	X-13007 levels	GCST90200520	5	105759549	C	T	6270	-0.09	0.02	0.00	0.00	23.91
rs903078	X-13007 levels	GCST90200520	5	133905307	G	A	6270	-0.10	0.02	0.00	0.00	21.18
rs140545087	X-13007 levels	GCST90200520	6	32992717	A	G	6270	0.32	0.07	0.00	0.00	23.04
rs80354054	X-13007 levels	GCST90200520	6	83228123	A	G	6270	-0.23	0.05	0.00	0.00	20.11
rs36050678	X-13007 levels	GCST90200520	8	18947613	T	C	6270	0.12	0.03	0.00	0.00	20.34
rs79042538	X-13007 levels	GCST90200520	9	392396	T	C	6270	-0.31	0.07	0.00	0.00	20.27
rs72707406	X-13007 levels	GCST90200520	9	33322601	T	G	6270	-0.35	0.08	0.00	0.00	21.06
rs79703166	X-13007 levels	GCST90200520	9	35880777	C	T	6270	-0.17	0.04	0.00	0.00	21.23
rs117955750	X-13007 levels	GCST90200520	9	80183007	C	T	6270	0.36	0.08	0.00	0.00	22.49
rs75326127	X-13007 levels	GCST90200520	9	120790823	T	A	6270	0.16	0.04	0.00	0.00	20.96
rs117911035	X-13007 levels	GCST90200520	10	54041708	A	G	6270	-0.41	0.09	0.00	0.00	19.66
rs11004798	X-13007 levels	GCST90200520	10	55290908	C	T	6270	0.26	0.06	0.00	0.00	20.03
rs72948124	X-13007 levels	GCST90200520	11	36309283	A	C	6270	0.34	0.07	0.00	0.00	25.33
rs17235951	X-13007 levels	GCST90200520	11	90363716	G	A	6270	0.29	0.06	0.00	0.00	21.00
rs34800392	X-13007 levels	GCST90200520	11	95424757	T	C	6270	0.27	0.06	0.00	0.00	21.11
rs11222082	X-13007 levels	GCST90200520	11	99966526	G	C	6270	-0.12	0.03	0.00	0.00	20.26
rs825468	X-13007 levels	GCST90200520	12	124069870	C	T	6270	-0.10	0.02	0.00	0.00	19.95
rs117378653	X-13007 levels	GCST90200520	15	41537912	C	T	6270	0.18	0.04	0.00	0.00	20.74
rs17326483	X-13007 levels	GCST90200520	16	19600340	G	C	6270	-0.08	0.02	0.00	0.00	20.65
rs521000	X-13007 levels	GCST90200520	18	25968286	A	G	6270	-0.12	0.03	0.00	0.00	20.93
rs12958550	X-13007 levels	GCST90200520	18	51699253	T	C	6270	-0.10	0.02	0.00	0.00	22.34
rs4283327	X-13007 levels	GCST90200520	19	46650822	T	G	6270	0.08	0.02	0.00	0.00	19.68
rs78394368	X-13007 levels	GCST90200520	22	50479557	G	A	6270	0.17	0.04	0.00	0.00	21.50
rs9439603	X-13844 levels	GCST90200521	1	5619381	G	A	7501	0.08	0.02	0.00	0.00	26.30
rs79679562	X-13844 levels	GCST90200521	1	31825441	T	C	7501	0.16	0.04	0.00	0.00	21.41
rs7546236	X-13844 levels	GCST90200521	1	216562796	C	A	7501	-0.07	0.02	0.00	0.00	19.51
rs61546260	X-13844 levels	GCST90200521	2	121197956	A	C	7501	-0.07	0.02	0.00	0.00	19.91
rs189667108	X-13844 levels	GCST90200521	2	173540697	T	C	7501	0.39	0.09	0.00	0.00	20.53
rs75166338	X-13844 levels	GCST90200521	4	125085932	G	A	7501	-0.38	0.08	0.00	0.00	22.97
rs72767943	X-13844 levels	GCST90200521	5	63981390	C	A	7501	-0.30	0.06	0.00	0.00	21.24
rs3849062	X-13844 levels	GCST90200521	5	126038191	G	A	7501	-0.08	0.02	0.00	0.00	22.22
rs75308367	X-13844 levels	GCST90200521	6	119507195	C	A	7501	-0.21	0.05	0.00	0.00	20.09
rs77784574	X-13844 levels	GCST90200521	9	107925382	G	A	7501	-0.21	0.05	0.00	0.00	20.62
rs10508307	X-13844 levels	GCST90200521	10	6455345	T	C	7501	0.10	0.02	0.00	0.00	19.97
rs117928166	X-13844 levels	GCST90200521	10	85769026	C	T	7501	-0.37	0.08	0.00	0.00	21.98
rs7085243	X-13844 levels	GCST90200521	10	128004856	A	G	7501	-0.07	0.02	0.00	0.00	20.40
rs183434404	X-13844 levels	GCST90200521	12	3174685	T	C	7501	-0.12	0.03	0.00	0.00	19.60
rs10131426	X-13844 levels	GCST90200521	14	50854567	T	C	7501	0.21	0.05	0.00	0.00	20.55
rs78781245	X-13844 levels	GCST90200521	15	57284194	T	G	7501	-0.20	0.04	0.00	0.00	22.96
rs76377130	X-13844 levels	GCST90200521	16	23369654	T	C	7501	0.13	0.03	0.00	0.00	22.85
rs76125561	X-13844 levels	GCST90200521	16	87829585	G	C	7501	0.18	0.04	0.00	0.00	21.66
rs144838290	X-13728 levels	GCST90200522	1	23223615	A	G	7905	0.37	0.08	0.00	0.00	22.77
rs112705243	X-13728 levels	GCST90200522	2	21483693	A	G	7905	0.39	0.08	0.00	0.00	23.65

rs186066346	X-13728 levels	GCST90200522	2	61643705	A	C	7905	0.49	0.10	0.00	0.00	24.07
rs116892987	X-13728 levels	GCST90200522	6	102527357	A	G	7905	-0.34	0.07	0.00	0.00	22.59
rs2529273	X-13728 levels	GCST90200522	7	74873835	T	C	7905	0.08	0.02	0.00	0.00	19.96
rs141878668	X-13728 levels	GCST90200522	7	119697248	T	C	7905	-0.33	0.07	0.00	0.00	20.38
rs2839662	X-13728 levels	GCST90200522	10	31463202	G	A	7905	-0.34	0.07	0.00	0.00	22.38
rs2590341	X-13728 levels	GCST90200522	10	58252540	C	T	7905	-0.27	0.06	0.00	0.00	22.69
rs118025488	X-13728 levels	GCST90200522	11	79065105	T	C	7905	-0.21	0.04	0.00	0.00	21.32
rs7940662	X-13728 levels	GCST90200522	11	102237078	G	T	7905	-0.18	0.04	0.00	0.00	26.01
rs78836778	X-13728 levels	GCST90200522	12	71327305	G	A	7905	-0.13	0.03	0.00	0.00	21.66
rs139091784	X-13728 levels	GCST90200522	13	29637204	T	G	7905	-0.29	0.06	0.00	0.00	21.60
rs58475438	X-13728 levels	GCST90200522	14	57788303	T	C	7905	-0.33	0.07	0.00	0.00	20.67
rs76246121	X-13728 levels	GCST90200522	15	53291346	C	T	7905	-0.24	0.05	0.00	0.00	20.00
rs59484405	X-13728 levels	GCST90200522	15	83807782	T	A	7905	0.08	0.02	0.00	0.00	19.80
rs4984465	X-13728 levels	GCST90200522	15	95943388	G	A	7905	-0.21	0.05	0.00	0.00	19.68
rs67210567	X-13728 levels	GCST90200522	19	40851552	T	G	7905	0.26	0.05	0.00	0.00	27.79
rs62215570	X-13728 levels	GCST90200522	20	54027443	T	C	7905	-0.16	0.04	0.00	0.00	20.23
rs73178241	X-13728 levels	GCST90200522	22	44900122	T	C	7905	-0.19	0.04	0.00	0.00	20.82
rs114489604	X-12844 levels	GCST90200523	1	71028841	G	A	8231	-0.24	0.05	0.00	0.00	20.38
rs1874807	X-12844 levels	GCST90200523	1	85313710	A	G	8231	-0.07	0.02	0.00	0.00	21.63
rs114758923	X-12844 levels	GCST90200523	1	100167393	T	C	8231	0.24	0.05	0.00	0.00	20.13
rs115396324	X-12844 levels	GCST90200523	1	116845314	A	C	8231	-0.28	0.06	0.00	0.00	22.94
rs3009934	X-12844 levels	GCST90200523	1	214127980	G	T	8231	0.08	0.02	0.00	0.00	19.55
rs1260326	X-12844 levels	GCST90200523	2	27508073	C	T	8231	0.09	0.02	0.00	0.00	30.73
rs13409331	X-12844 levels	GCST90200523	2	66078811	G	A	8231	-0.12	0.03	0.00	0.00	20.20
rs78528652	X-12844 levels	GCST90200523	2	101425019	C	A	8231	-0.10	0.02	0.00	0.00	21.40
rs145300984	X-12844 levels	GCST90200523	2	210296058	G	T	8231	-0.29	0.06	0.00	0.00	20.14
rs77927691	X-12844 levels	GCST90200523	3	16659179	A	G	8231	-0.11	0.02	0.00	0.00	19.83
rs145096002	X-12844 levels	GCST90200523	3	183198209	A	G	8231	-0.29	0.06	0.00	0.00	20.24
rs1531022	X-12844 levels	GCST90200523	4	68666410	A	G	8231	-0.14	0.02	0.00	0.01	83.73
rs41297371	X-12844 levels	GCST90200523	4	69491511	C	T	8231	-0.17	0.02	0.00	0.01	92.98
rs1813246	X-12844 levels	GCST90200523	4	177241921	G	A	8231	0.11	0.02	0.00	0.00	21.66
rs143320465	X-12844 levels	GCST90200523	6	72894349	T	C	8231	-0.30	0.07	0.00	0.00	20.90
rs72986127	X-12844 levels	GCST90200523	6	140752228	G	A	8231	0.14	0.03	0.00	0.00	22.12
rs73055894	X-12844 levels	GCST90200523	7	5376795	T	C	8231	-0.19	0.04	0.00	0.00	21.02
rs2191891	X-12844 levels	GCST90200523	7	19294738	G	A	8231	-0.16	0.03	0.00	0.00	24.56
rs1872809	X-12844 levels	GCST90200523	7	98696097	C	G	8231	0.08	0.02	0.00	0.00	19.86
rs77326643	X-12844 levels	GCST90200523	7	101606904	T	C	8231	-0.10	0.02	0.00	0.00	23.09
rs80147006	X-12844 levels	GCST90200523	7	138116720	C	G	8231	-0.27	0.05	0.00	0.00	26.02
rs7780066	X-12844 levels	GCST90200523	7	138117169	A	G	8231	0.24	0.02	0.00	0.02	155.06
rs4240624	X-12844 levels	GCST90200523	8	9326721	A	G	8231	-0.13	0.03	0.00	0.00	21.65
rs114971224	X-12844 levels	GCST90200523	9	92821242	C	T	8231	-0.20	0.04	0.00	0.00	19.76
rs10836523	X-12844 levels	GCST90200523	11	4716699	C	T	8231	-0.09	0.02	0.00	0.00	20.23
rs147869121	X-12844 levels	GCST90200523	11	29978364	G	T	8231	-0.27	0.06	0.00	0.00	20.06
rs113497640	X-12844 levels	GCST90200523	11	63156266	G	A	8231	0.26	0.03	0.00	0.01	63.69
rs1149607	X-12844 levels	GCST90200523	11	76781402	A	C	8231	-0.10	0.02	0.00	0.00	23.26
rs56196860	X-12844 levels	GCST90200523	12	2799164	A	C	8231	-0.21	0.04	0.00	0.00	22.59
rs7308158	X-12844 levels	GCST90200523	12	107475871	A	G	8231	0.07	0.02	0.00	0.00	19.75
rs12926880	X-12844 levels	GCST90200523	16	14363810	G	T	8231	-0.09	0.02	0.00	0.00	22.44
rs1486437	X-12844 levels	GCST90200523	16	51865949	G	A	8231	-0.11	0.02	0.00	0.00	21.54
rs12596660	X-12844 levels	GCST90200523	16	72898804	A	G	8231	0.17	0.04	0.00	0.00	20.18
rs4804669	X-12844 levels	GCST90200523	19	12391643	G	A	8231	-0.14	0.02	0.00	0.01	54.08
rs59993856	X-12844 levels	GCST90200523	22	42007976	T	C	8231	0.08	0.02	0.00	0.00	21.10
rs591858	X-13695 levels	GCST90200524	1	30418370	T	C	6486	0.10	0.02	0.00	0.00	21.07
rs6543581	X-13695 levels	GCST90200524	2	239780614	G	A	6486	-0.08	0.02	0.00	0.00	20.82
rs62245941	X-13695 levels	GCST90200524	3	17409819	A	G	6486	0.23	0.05	0.00	0.00	21.99
rs143412045	X-13695 levels	GCST90200524	3	93940362	T	A	6486	0.46	0.10	0.00	0.00	20.62
rs142977793	X-13695 levels	GCST90200524	3	94958324	A	G	6486	0.33	0.06	0.00	0.00	28.40
rs16847371	X-13695 levels	GCST90200524	3	137707511	C	A	6486	0.27	0.06	0.00	0.00	20.44

rs923251	X-13695 levels	GCST90200524	5	1907125	G	T	6486	0.16	0.03	0.00	0.00	24.79
rs117449060	X-13695 levels	GCST90200524	10	99522718	G	T	6486	-0.16	0.03	0.00	0.00	23.03
rs113609496	X-13695 levels	GCST90200524	10	104056379	A	G	6486	0.70	0.16	0.00	0.00	19.65
rs146467609	X-13695 levels	GCST90200524	11	67881531	T	C	6486	-0.32	0.06	0.00	0.00	25.68
rs61890245	X-13695 levels	GCST90200524	11	82056478	T	C	6486	0.09	0.02	0.00	0.00	19.63
rs56774016	X-13695 levels	GCST90200524	13	39470562	T	C	6486	0.11	0.02	0.00	0.00	20.45
rs181311	X-13695 levels	GCST90200524	14	47869958	T	G	6486	0.08	0.02	0.00	0.00	21.15
rs148639599	X-13695 levels	GCST90200524	17	46769401	C	T	6486	-0.39	0.09	0.00	0.00	20.27
rs73963343	X-13695 levels	GCST90200524	18	67032737	T	C	6486	-0.32	0.07	0.00	0.00	23.48
rs117291728	X-13695 levels	GCST90200524	22	47646943	A	G	6486	-0.34	0.07	0.00	0.00	20.93
rs146378363	X-13723 levels	GCST90200525	2	214503028	C	T	5269	-0.37	0.08	0.00	0.00	20.96
rs73189513	X-13723 levels	GCST90200525	3	124532897	T	C	5269	-0.21	0.04	0.00	0.00	24.09
rs9884681	X-13723 levels	GCST90200525	4	178634111	A	G	5269	-0.11	0.02	0.00	0.00	20.01
rs13175850	X-13723 levels	GCST90200525	5	56598461	C	T	5269	0.18	0.04	0.00	0.00	23.59
rs143984022	X-13723 levels	GCST90200525	6	41826030	A	G	5269	0.57	0.12	0.00	0.00	23.30
rs182325254	X-13723 levels	GCST90200525	6	84779206	T	A	5269	0.29	0.06	0.00	0.00	20.70
rs9374249	X-13723 levels	GCST90200525	6	111021526	G	A	5269	-0.17	0.03	0.00	0.00	24.20
rs6964466	X-13723 levels	GCST90200525	7	19098234	A	G	5269	-0.09	0.02	0.00	0.00	19.53
rs12533916	X-13723 levels	GCST90200525	7	20069214	A	G	5269	0.13	0.03	0.00	0.00	21.41
rs141735286	X-13723 levels	GCST90200525	7	140256898	A	G	5269	-0.34	0.07	0.00	0.00	22.04
rs112218194	X-13723 levels	GCST90200525	10	19806830	A	G	5269	-0.18	0.04	0.00	0.00	19.81
rs56043227	X-13723 levels	GCST90200525	13	25795745	A	T	5269	0.29	0.06	0.00	0.00	20.76
rs200374463	X-13723 levels	GCST90200525	14	23976965	T	G	5269	-0.23	0.05	0.00	0.00	24.52
rs8071295	X-13723 levels	GCST90200525	17	52054634	A	C	5269	-0.12	0.03	0.00	0.00	20.14
rs75826829	X-13723 levels	GCST90200525	19	39644619	T	C	5269	-0.25	0.05	0.00	0.00	20.66
rs2342209	X-14056 levels	GCST90200526	1	73759975	A	G	8242	0.07	0.02	0.00	0.00	21.31
rs186343856	X-14056 levels	GCST90200526	1	222147729	C	T	8242	-0.48	0.10	0.00	0.00	21.78
rs149202809	X-14056 levels	GCST90200526	3	174006032	T	C	8242	-0.24	0.06	0.00	0.00	19.54
rs2189160	X-14056 levels	GCST90200526	4	103816543	A	G	8242	-0.09	0.02	0.00	0.00	19.77
rs3112403	X-14056 levels	GCST90200526	5	72119803	A	G	8242	-0.45	0.10	0.00	0.00	22.38
rs72784931	X-14056 levels	GCST90200526	5	101427304	G	A	8242	0.17	0.04	0.00	0.00	19.88
rs80068029	X-14056 levels	GCST90200526	5	150614848	A	C	8242	0.36	0.08	0.00	0.00	19.58
rs62419760	X-14056 levels	GCST90200526	6	103892987	T	G	8242	0.13	0.03	0.00	0.00	20.73
rs3465	X-14056 levels	GCST90200526	6	159777363	A	G	8242	-0.08	0.02	0.00	0.00	22.86
rs11978376	X-14056 levels	GCST90200526	7	132030557	C	A	8242	-0.10	0.02	0.00	0.00	19.59
rs2640726	X-14056 levels	GCST90200526	8	27548292	C	T	8242	0.07	0.02	0.00	0.00	21.13
rs10970887	X-14056 levels	GCST90200526	9	32269688	G	A	8242	-0.07	0.02	0.00	0.00	19.74
rs12798644	X-14056 levels	GCST90200526	11	70617930	T	G	8242	0.08	0.02	0.00	0.00	21.44
rs73044591	X-14056 levels	GCST90200526	12	6254175	G	T	8242	0.19	0.04	0.00	0.00	20.73
rs12322141	X-14056 levels	GCST90200526	12	88881935	G	A	8242	-0.64	0.14	0.00	0.00	19.86
rs10148270	X-14056 levels	GCST90200526	14	85500620	A	T	8242	0.07	0.02	0.00	0.00	19.70
rs17580	X-14056 levels	GCST90200526	14	94380925	A	T	8242	-0.16	0.03	0.00	0.00	20.82
rs76436276	X-14056 levels	GCST90200526	17	62174421	T	C	8242	0.11	0.02	0.00	0.00	19.81
rs855791	X-14056 levels	GCST90200526	22	37066896	G	A	8242	-0.08	0.02	0.00	0.00	24.57
rs61701091	X-13866 levels	GCST90200527	1	4104401	G	A	8252	0.09	0.02	0.00	0.00	19.64
rs41271743	X-13866 levels	GCST90200527	1	168904677	G	A	8252	0.25	0.05	0.00	0.00	23.64
rs72746425	X-13866 levels	GCST90200527	1	219056163	C	T	8252	0.08	0.02	0.00	0.00	20.56
rs12142897	X-13866 levels	GCST90200527	1	237483391	G	A	8252	0.18	0.04	0.00	0.00	25.18
rs349536	X-13866 levels	GCST90200527	3	140532645	C	T	8252	-0.08	0.02	0.00	0.00	21.81
rs112526395	X-13866 levels	GCST90200527	4	177496813	C	G	8252	-0.08	0.02	0.00	0.00	21.19
rs1183200	X-13866 levels	GCST90200527	6	25818418	C	G	8252	0.30	0.01	0.00	0.05	410.58
rs3799367	X-13866 levels	GCST90200527	6	25877274	C	A	8252	0.09	0.02	0.00	0.00	34.89
rs76492754	X-13866 levels	GCST90200527	6	65137837	T	A	8252	0.27	0.06	0.00	0.00	21.84
rs4490750	X-13866 levels	GCST90200527	7	146861962	G	A	8252	0.32	0.07	0.00	0.00	20.60
rs72654135	X-13866 levels	GCST90200527	8	71268635	T	C	8252	-0.20	0.04	0.00	0.00	20.24
rs1380686	X-13866 levels	GCST90200527	8	104841700	T	G	8252	0.07	0.02	0.00	0.00	20.05
rs4480206	X-13866 levels	GCST90200527	9	25171708	C	G	8252	0.20	0.04	0.00	0.00	20.55
rs142209460	X-13866 levels	GCST90200527	9	91740585	C	T	8252	0.19	0.04	0.00	0.00	19.54
rs78266345	X-13866 levels	GCST90200527	10	56630327	A	G	8252	0.21	0.05	0.00	0.00	21.37

rs6578859	X-13866 levels	GCST90200527	11	7403835	C	A	8252	0.11	0.03	0.00	0.00	20.79
rs4149056	X-13866 levels	GCST90200527	12	21178615	C	T	8252	0.11	0.02	0.00	0.00	26.50
rs185677856	X-13866 levels	GCST90200527	12	31990070	A	G	8252	-0.34	0.08	0.00	0.00	19.51
rs111561314	X-13866 levels	GCST90200527	12	66415777	A	G	8252	0.18	0.04	0.00	0.00	21.89
rs147320068	X-13866 levels	GCST90200527	14	72411546	C	A	8252	0.20	0.04	0.00	0.00	21.34
rs8014023	X-13866 levels	GCST90200527	14	73505585	G	A	8252	-0.08	0.02	0.00	0.00	28.59
rs17730281	X-13866 levels	GCST90200527	15	53615751	A	G	8252	-0.09	0.02	0.00	0.00	25.51
rs11857516	X-13866 levels	GCST90200527	15	75664155	A	G	8252	-0.08	0.02	0.00	0.00	19.80
rs62015470	X-13866 levels	GCST90200527	16	6543750	C	G	8252	0.08	0.02	0.00	0.00	25.46
rs55793561	X-13866 levels	GCST90200527	17	32522010	A	G	8252	0.13	0.03	0.00	0.00	20.30
rs74920018	X-13866 levels	GCST90200527	18	34607557	T	A	8252	0.14	0.03	0.00	0.00	22.66
rs115817702	X-13866 levels	GCST90200527	19	11445918	T	C	8252	-0.18	0.04	0.00	0.00	20.22
rs62231654	X-13866 levels	GCST90200527	22	43085942	T	C	8252	0.21	0.04	0.00	0.00	24.04
rs55958328	X-17146 levels	GCST90200528	2	53824363	T	G	7778	-0.12	0.03	0.00	0.00	20.93
rs116098515	X-17146 levels	GCST90200528	2	144617839	T	C	7778	-0.32	0.07	0.00	0.00	19.67
rs73005393	X-17146 levels	GCST90200528	2	239503742	A	G	7778	-0.28	0.06	0.00	0.00	22.52
rs34864402	X-17146 levels	GCST90200528	3	174658191	G	A	7778	0.36	0.07	0.00	0.00	23.86
rs11723926	X-17146 levels	GCST90200528	4	16349191	T	C	7778	-0.15	0.03	0.00	0.00	20.46
rs73251808	X-17146 levels	GCST90200528	4	27831062	C	T	7778	0.18	0.04	0.00	0.00	19.76
rs149956481	X-17146 levels	GCST90200528	4	187602779	T	A	7778	0.42	0.09	0.00	0.00	22.19
rs188834895	X-17146 levels	GCST90200528	5	34071867	T	C	7778	0.38	0.09	0.00	0.00	19.71
rs115419645	X-17146 levels	GCST90200528	5	40323315	T	C	7778	-0.16	0.04	0.00	0.00	21.34
rs2914083	X-17146 levels	GCST90200528	5	121182063	G	T	7778	-0.10	0.02	0.00	0.00	20.15
rs17057582	X-17146 levels	GCST90200528	6	129683839	C	G	7778	0.08	0.02	0.00	0.00	20.72
rs147985078	X-17146 levels	GCST90200528	6	161904229	A	G	7778	0.36	0.08	0.00	0.00	20.37
rs145723333	X-17146 levels	GCST90200528	7	131668108	A	G	7778	0.13	0.03	0.00	0.00	20.56
rs7833646	X-17146 levels	GCST90200528	8	100957392	G	A	7778	0.08	0.02	0.00	0.00	21.70
rs137942730	X-17146 levels	GCST90200528	10	51596107	A	G	7778	-0.32	0.06	0.00	0.00	27.47
rs75205730	X-17146 levels	GCST90200528	16	8263144	G	A	7778	0.18	0.04	0.00	0.00	20.10
rs72938104	X-17146 levels	GCST90200528	18	8791325	C	T	7778	-0.13	0.02	0.00	0.00	27.86
rs10401448	X-17146 levels	GCST90200528	19	570193	C	G	7778	-0.09	0.02	0.00	0.00	23.87
rs6519752	X-17146 levels	GCST90200528	22	28508193	G	A	7778	0.10	0.02	0.00	0.00	22.12
rs34601004	X-17146 levels	GCST90200528	22	43861694	A	G	7778	0.13	0.03	0.00	0.00	20.66
rs9429103	X-16397 levels	GCST90200529	1	46865519	A	G	8057	-0.13	0.02	0.00	0.00	28.21
rs11162812	X-16397 levels	GCST90200529	1	79753306	T	A	8057	0.07	0.02	0.00	0.00	20.14
rs931519	X-16397 levels	GCST90200529	1	99783994	A	C	8057	-0.12	0.03	0.00	0.00	22.51
rs143226816	X-16397 levels	GCST90200529	1	161096286	A	G	8057	-0.39	0.09	0.00	0.00	20.42
rs12127631	X-16397 levels	GCST90200529	1	242601618	T	C	8057	-0.14	0.03	0.00	0.00	31.29
rs113998579	X-16397 levels	GCST90200529	3	4961980	T	C	8057	-0.25	0.06	0.00	0.00	19.79
rs9835948	X-16397 levels	GCST90200529	3	184558829	G	T	8057	-0.30	0.06	0.00	0.00	23.08
rs186284041	X-16397 levels	GCST90200529	4	39477299	T	C	8057	-0.35	0.08	0.00	0.00	21.15
rs56149949	X-16397 levels	GCST90200529	5	22487051	T	G	8057	0.11	0.02	0.00	0.00	19.52
rs6879713	X-16397 levels	GCST90200529	5	77978207	G	A	8057	-0.34	0.07	0.00	0.00	21.02
rs7742231	X-16397 levels	GCST90200529	6	50909491	A	T	8057	0.08	0.02	0.00	0.00	22.21
rs75782045	X-16397 levels	GCST90200529	6	90355549	C	A	8057	-0.28	0.06	0.00	0.00	19.80
rs1861960	X-16397 levels	GCST90200529	7	155492440	G	T	8057	-0.09	0.02	0.00	0.00	20.00
rs7844508	X-16397 levels	GCST90200529	8	70690760	T	G	8057	0.12	0.02	0.00	0.01	58.55
rs193183459	X-16397 levels	GCST90200529	10	60033372	C	G	8057	-0.37	0.07	0.00	0.00	24.97
rs79436592	X-16397 levels	GCST90200529	11	119891630	A	G	8057	-0.19	0.04	0.00	0.00	21.13
rs9937234	X-16397 levels	GCST90200529	16	53904138	C	T	8057	0.12	0.03	0.00	0.00	22.71
rs1741605	X-16397 levels	GCST90200529	20	63511130	T	C	8057	-0.11	0.02	0.00	0.00	20.33
rs12127631	X-17335 levels	GCST90200530	1	242601618	T	C	7747	-0.11	0.03	0.00	0.00	19.81
rs34713419	X-17335 levels	GCST90200530	2	47535287	A	C	7747	-0.07	0.02	0.00	0.00	21.14
rs144448722	X-17335 levels	GCST90200530	3	151034063	T	C	7747	-0.43	0.09	0.00	0.00	23.77
rs76448749	X-17335 levels	GCST90200530	7	116151675	A	G	7747	0.17	0.04	0.00	0.00	20.45
rs140576688	X-17335 levels	GCST90200530	8	5126176	G	A	7747	-0.32	0.07	0.00	0.00	23.57
rs7819986	X-17335 levels	GCST90200530	8	92125346	C	A	7747	-0.11	0.02	0.00	0.00	19.90

rs141882839	X-17335 levels	GCST90200530	11	7573189	A	G	7747	0.26	0.05	0.00	0.00	28.92
rs6580866	X-17335 levels	GCST90200530	12	38936968	G	C	7747	-0.14	0.03	0.00	0.00	23.27
rs75673453	X-17335 levels	GCST90200530	12	118551987	A	G	7747	0.16	0.03	0.00	0.00	20.49
rs72637741	X-17335 levels	GCST90200530	13	90317471	T	A	7747	0.08	0.02	0.00	0.00	21.04
rs35469830	X-17335 levels	GCST90200530	15	101158719	T	C	7747	-0.08	0.02	0.00	0.00	19.62
rs149288081	X-17335 levels	GCST90200530	17	21578263	T	C	7747	0.23	0.05	0.00	0.00	19.53
rs145484988	X-17335 levels	GCST90200530	17	60152446	A	G	7747	-0.47	0.10	0.00	0.00	22.29
rs12606645	X-17335 levels	GCST90200530	18	55807932	G	A	7747	-0.08	0.02	0.00	0.00	20.54
rs62243093	X-17335 levels	GCST90200530	22	34981911	C	G	7747	0.22	0.05	0.00	0.00	21.26
rs147289551	X-16964 levels	GCST90200531	1	48187678	T	C	8048	-0.30	0.07	0.00	0.00	19.95
rs116018398	X-16964 levels	GCST90200531	2	80453398	T	G	8048	-0.35	0.08	0.00	0.00	21.53
rs13011469	X-16964 levels	GCST90200531	2	229416143	G	A	8048	-0.08	0.02	0.00	0.00	20.57
rs11707158	X-16964 levels	GCST90200531	3	51493101	C	T	8048	0.16	0.04	0.00	0.00	20.18
rs863582	X-16964 levels	GCST90200531	3	195751823	A	G	8048	-0.08	0.02	0.00	0.00	21.53
rs72738548	X-16964 levels	GCST90200531	5	11989410	T	C	8048	0.26	0.06	0.00	0.00	19.62
rs77741622	X-16964 levels	GCST90200531	5	77196032	A	G	8048	-0.08	0.02	0.00	0.00	20.86
rs927406	X-16964 levels	GCST90200531	6	7807071	C	T	8048	0.08	0.02	0.00	0.00	20.88
rs35527537	X-16964 levels	GCST90200531	6	165422996	T	A	8048	0.33	0.07	0.00	0.00	21.16
rs68027864	X-16964 levels	GCST90200531	7	7203188	T	C	8048	-0.10	0.02	0.00	0.00	23.12
rs12334096	X-16964 levels	GCST90200531	7	110760028	A	C	8048	0.10	0.02	0.00	0.00	21.29
rs10128457	X-16964 levels	GCST90200531	10	52301678	C	T	8048	0.07	0.02	0.00	0.00	20.64
rs77130063	X-16964 levels	GCST90200531	10	66974196	C	T	8048	-0.21	0.05	0.00	0.00	19.91
rs1169296	X-16964 levels	GCST90200531	12	120990604	G	A	8048	0.08	0.02	0.00	0.00	20.97
rs58997743	X-16964 levels	GCST90200531	14	83821084	A	G	8048	-0.10	0.02	0.00	0.00	21.15
rs352935	X-16964 levels	GCST90200531	16	89582172	T	C	8048	0.08	0.02	0.00	0.00	23.80
rs13380895	X-16964 levels	GCST90200531	18	52095713	C	T	8048	-0.08	0.02	0.00	0.00	25.45
rs116228678	X-16935 levels	GCST90200532	1	221061979	G	A	7804	-0.23	0.05	0.00	0.00	19.93
rs2253831	X-16935 levels	GCST90200532	1	237759753	T	C	7804	0.07	0.02	0.00	0.00	19.63
rs11886084	X-16935 levels	GCST90200532	2	18025147	G	A	7804	-0.07	0.02	0.00	0.00	19.70
rs146217030	X-16935 levels	GCST90200532	2	41116566	C	T	7804	0.37	0.08	0.00	0.00	20.92
rs67362914	X-16935 levels	GCST90200532	4	4852288	C	T	7804	-0.11	0.02	0.00	0.00	20.32
rs1349581	X-16935 levels	GCST90200532	5	21606114	C	T	7804	0.08	0.02	0.00	0.00	19.80
rs112973650	X-16935 levels	GCST90200532	6	115622019	C	T	7804	-0.23	0.05	0.00	0.00	23.36
rs74333134	X-16935 levels	GCST90200532	7	19849635	G	A	7804	-0.16	0.03	0.00	0.00	20.73
rs13269886	X-16935 levels	GCST90200532	8	27770791	A	T	7804	-0.19	0.04	0.00	0.00	20.47
rs1058930	X-16935 levels	GCST90200532	10	95058362	C	G	7804	-0.15	0.03	0.00	0.00	19.89
rs286919	X-16935 levels	GCST90200532	11	34622616	C	T	7804	0.10	0.02	0.00	0.00	19.74
rs695079	X-16935 levels	GCST90200532	11	126002060	G	A	7804	0.08	0.02	0.00	0.00	22.49
rs2417966	X-16935 levels	GCST90200532	12	21190295	G	C	7804	0.15	0.02	0.00	0.01	75.68
rs11045856	X-16935 levels	GCST90200532	12	21197755	G	T	7804	-0.24	0.02	0.00	0.02	179.70
rs146719253	X-16935 levels	GCST90200532	12	84460796	A	G	7804	-0.36	0.07	0.00	0.00	23.85
rs57431608	X-16935 levels	GCST90200532	12	117509689	G	A	7804	0.09	0.02	0.00	0.00	19.90
rs11057830	X-16935 levels	GCST90200532	12	124822507	A	G	7804	0.11	0.02	0.00	0.00	24.74
rs12881531	X-16935 levels	GCST90200532	14	37238261	A	C	7804	0.10	0.02	0.00	0.00	19.85
rs55826256	X-16935 levels	GCST90200532	14	73612505	C	G	7804	-0.35	0.02	0.00	0.04	323.03
rs1648348	X-16935 levels	GCST90200532	15	50182569	C	A	7804	0.14	0.02	0.00	0.01	75.37
rs4148415	X-16935 levels	GCST90200532	17	50675239	T	C	7804	-0.11	0.02	0.00	0.01	44.90
rs1135640	X-16935 levels	GCST90200532	17	75953459	C	G	7804	0.08	0.02	0.00	0.00	24.14
rs111812630	X-16935 levels	GCST90200532	18	23385854	A	G	7804	0.42	0.08	0.00	0.00	26.81
rs2163857	X-16935 levels	GCST90200532	19	10233923	G	C	7804	0.07	0.02	0.00	0.00	21.17
rs2297291	X-16935 levels	GCST90200532	21	45525426	G	A	7804	-0.08	0.02	0.00	0.00	23.94
rs9435963	X-15486 levels	GCST90200533	1	151927766	G	C	8236	-0.07	0.02	0.00	0.00	20.61
rs61824287	X-15486 levels	GCST90200533	1	222672942	A	T	8236	-0.27	0.06	0.00	0.00	23.87
rs12035552	X-15486 levels	GCST90200533	1	245457816	T	C	8236	-0.08	0.02	0.00	0.00	23.24
rs114613601	X-15486 levels	GCST90200533	2	138772013	G	C	8236	0.22	0.05	0.00	0.00	23.47
rs17771891	X-15486 levels	GCST90200533	5	132408510	T	C	8236	-0.09	0.02	0.00	0.00	19.97
rs1165151	X-15486 levels	GCST90200533	6	25821388	G	T	8236	0.18	0.02	0.00	0.02	148.41
rs75814043	X-15486 levels	GCST90200533	6	129922052	T	A	8236	-0.30	0.06	0.00	0.00	21.40
rs147659619	X-15486 levels	GCST90200533	8	4063817	G	T	8236	-0.32	0.07	0.00	0.00	19.64
rs2795333	X-15486 levels	GCST90200533	9	27749599	C	G	8236	-0.07	0.02	0.00	0.00	22.30
rs4330995	X-15486 levels	GCST90200533	10	2750928	T	C	8236	-0.31	0.07	0.00	0.00	19.52
rs55775066	X-15486 levels	GCST90200533	12	57871065	G	A	8236	0.24	0.05	0.00	0.00	21.98

rs4772797	X-15486 levels	GCST90200533	13	106549001	T	C	8236	0.09	0.02	0.00	0.00	26.58
rs12324304	X-15486 levels	GCST90200533	15	62305889	T	G	8236	-0.08	0.02	0.00	0.00	20.34
rs14217234	X-15486 levels	GCST90200533	17	4892972	T	C	8236	-0.24	0.05	0.00	0.00	19.88
5												
rs17657478	X-15486 levels	GCST90200533	18	41785768	C	A	8236	0.07	0.02	0.00	0.00	19.96
rs11731635	X-15486 levels	GCST90200533	21	21949135	C	A	8236	-0.20	0.04	0.00	0.00	20.51
8												
rs35001035	X-16580 levels	GCST90200534	1	15655222	G	A	8254	-0.14	0.03	0.00	0.00	20.53
rs11211403	X-16580 levels	GCST90200534	1	46927183	T	G	8254	0.13	0.02	0.00	0.00	29.58
rs12088936	X-16580 levels	GCST90200534	1	195086853	G	A	8254	0.09	0.02	0.00	0.00	19.84
rs12121162	X-16580 levels	GCST90200534	1	242603238	T	G	8254	-0.11	0.02	0.00	0.00	21.12
rs2468392	X-16580 levels	GCST90200534	2	172920232	C	A	8254	-0.10	0.02	0.00	0.00	20.28
rs58667109	X-16580 levels	GCST90200534	3	10588733	C	G	8254	-0.18	0.04	0.00	0.00	20.42
rs7639004	X-16580 levels	GCST90200534	3	13694551	A	G	8254	-0.42	0.09	0.00	0.00	19.71
rs11718728	X-16580 levels	GCST90200534	3	143414662	A	G	8254	0.09	0.02	0.00	0.00	23.19
rs13146069	X-16580 levels	GCST90200534	4	61841028	T	A	8254	-0.09	0.02	0.00	0.00	21.06
rs11702013	X-16580 levels	GCST90200534	6	163223330	A	G	8254	-0.23	0.05	0.00	0.00	20.15
7												
rs62532093	X-16580 levels	GCST90200534	8	70754059	T	C	8254	-0.08	0.02	0.00	0.00	27.96
rs41307553	X-16580 levels	GCST90200534	10	30015004	G	T	8254	0.17	0.04	0.00	0.00	20.80
rs55982070	X-16580 levels	GCST90200534	10	75361715	T	C	8254	-0.20	0.04	0.00	0.00	23.43
rs11056479	X-16580 levels	GCST90200534	12	15430075	A	G	8254	0.13	0.03	0.00	0.00	22.47
rs77261061	X-16580 levels	GCST90200534	12	94418461	A	G	8254	-0.16	0.04	0.00	0.00	19.70
rs11760904	X-16580 levels	GCST90200534	15	33856015	T	C	8254	0.35	0.07	0.00	0.00	21.91
7												
rs12607348	X-16580 levels	GCST90200534	18	5751624	C	G	8254	0.13	0.02	0.00	0.00	26.50
rs11084080	X-16580 levels	GCST90200534	19	51403752	C	T	8254	-0.09	0.02	0.00	0.00	27.06
rs61777887	X-17325 levels	GCST90200535	1	1531630	C	T	7448	0.25	0.05	0.00	0.00	21.39
rs17732770	X-17325 levels	GCST90200535	1	37870006	A	G	7448	0.23	0.05	0.00	0.00	20.68
rs324420	X-17325 levels	GCST90200535	1	46405089	A	C	7448	0.09	0.02	0.00	0.00	23.10
rs72697926	X-17325 levels	GCST90200535	1	115063931	G	C	7448	0.21	0.05	0.00	0.00	19.70
rs7603543	X-17325 levels	GCST90200535	2	55820481	G	A	7448	-0.18	0.04	0.00	0.00	23.61
rs1047891	X-17325 levels	GCST90200535	2	210675783	A	C	7448	0.19	0.02	0.00	0.02	124.09
rs923353	X-17325 levels	GCST90200535	3	4740819	T	C	7448	0.08	0.02	0.00	0.00	20.67
rs14631366	X-17325 levels	GCST90200535	3	21198882	C	T	7448	-0.32	0.07	0.00	0.00	19.66
1												
rs11599603	X-17325 levels	GCST90200535	3	62814207	T	A	7448	-0.14	0.03	0.00	0.00	19.75
3												
rs4693216	X-17325 levels	GCST90200535	4	88512711	G	A	7448	0.14	0.03	0.00	0.00	20.09
rs56251626	X-17325 levels	GCST90200535	5	35064922	G	C	7448	-0.32	0.07	0.00	0.00	20.10
rs71624147	X-17325 levels	GCST90200535	5	57050784	C	T	7448	0.18	0.04	0.00	0.00	20.56
rs74689782	X-17325 levels	GCST90200535	6	30883824	A	G	7448	-0.24	0.05	0.00	0.00	22.39
rs11692631	X-17325 levels	GCST90200535	6	79724197	T	C	7448	0.23	0.05	0.00	0.00	22.39
0												
rs11766611	X-17325 levels	GCST90200535	7	4790832	A	G	7448	-0.27	0.05	0.00	0.00	26.63
rs6963576	X-17325 levels	GCST90200535	7	40884765	T	C	7448	0.21	0.04	0.00	0.00	22.51
rs2613715	X-17325 levels	GCST90200535	8	21168618	T	C	7448	0.07	0.02	0.00	0.00	19.60
rs2376411	X-17325 levels	GCST90200535	9	2899868	C	G	7448	0.08	0.02	0.00	0.00	19.75
rs17522609	X-17325 levels	GCST90200535	10	78172778	A	C	7448	-0.25	0.05	0.00	0.00	21.30
rs11198042	X-17325 levels	GCST90200535	10	117591748	G	C	7448	-0.14	0.03	0.00	0.00	19.94
rs78128655	X-17325 levels	GCST90200535	12	57118207	G	C	7448	0.33	0.07	0.00	0.00	20.78
rs10146609	X-17325 levels	GCST90200535	14	24413599	C	T	7448	-0.14	0.03	0.00	0.00	20.56
rs72703565	X-17325 levels	GCST90200535	15	25942214	C	T	7448	0.09	0.02	0.00	0.00	19.75
rs76150504	X-17325 levels	GCST90200535	19	15731919	G	C	7448	-0.34	0.07	0.00	0.00	22.19
rs78986657	X-17325 levels	GCST90200535	20	52635224	T	C	7448	0.26	0.05	0.00	0.00	22.89
rs2823729	X-17325 levels	GCST90200535	21	16268533	A	G	7448	-0.07	0.02	0.00	0.00	19.57
rs11629149	X-17328 levels	GCST90200536	1	18998940	A	T	5856	0.19	0.04	0.00	0.00	19.97
3												
rs10800439	X-17328 levels	GCST90200536	1	169361801	C	G	5856	0.08	0.02	0.00	0.00	20.32
rs13413420	X-17328 levels	GCST90200536	2	127616802	G	C	5856	-0.11	0.02	0.00	0.00	21.62
rs7647377	X-17328 levels	GCST90200536	3	63958338	G	T	5856	0.40	0.09	0.00	0.00	20.24
rs6763458	X-17328 levels	GCST90200536	3	126945680	C	T	5856	-0.26	0.06	0.00	0.00	21.63
rs1902023	X-17328 levels	GCST90200536	4	68670366	C	A	5856	-0.13	0.02	0.00	0.01	49.90
rs18439127	X-17328 levels	GCST90200536	5	24342732	T	C	5856	-0.34	0.07	0.00	0.00	20.74
6												
rs10463060	X-17328 levels	GCST90200536	5	176801952	A	G	5856	-0.24	0.05	0.00	0.00	26.27
rs14172224	X-17328 levels	GCST90200536	5	181262808	C	T	5856	0.41	0.09	0.00	0.00	20.14
8												
rs2024408	X-17328 levels	GCST90200536	7	38393337	C	T	5856	0.09	0.02	0.00	0.00	24.37
rs1661607	X-17328 levels	GCST90200536	7	52660308	G	C	5856	-0.13	0.03	0.00	0.00	20.26
rs17523109	X-17328 levels	GCST90200536	7	120637767	A	C	5856	0.18	0.04	0.00	0.00	20.44
rs62493218	X-17328 levels	GCST90200536	8	5492063	A	G	5856	0.32	0.07	0.00	0.00	21.00
rs10954830	X-17328 levels	GCST90200536	8	32140635	A	C	5856	-0.09	0.02	0.00	0.00	19.57
rs34432511	X-17328 levels	GCST90200536	9	27214991	G	C	5856	0.21	0.05	0.00	0.00	20.51

rs11140055	X-17328 levels	GCST90200536	9	83363860	G	T	5856	0.16	0.03	0.00	0.00	21.45
rs14042724 3	X-17328 levels	GCST90200536	9	123942733	C	A	5856	0.44	0.10	0.00	0.00	19.54
rs11816879	X-17328 levels	GCST90200536	10	118767049	G	C	5856	0.17	0.04	0.00	0.00	19.76
rs11170506 0	X-17328 levels	GCST90200536	10	128871846	C	G	5856	0.43	0.10	0.00	0.00	20.07
rs77574810	X-17328 levels	GCST90200536	11	73890878	T	C	5856	0.28	0.06	0.00	0.00	20.92
rs14838960 7	X-17328 levels	GCST90200536	12	22963426	C	T	5856	-0.20	0.05	0.00	0.00	19.57
rs729748	X-17328 levels	GCST90200536	14	23667378	A	G	5856	-0.11	0.02	0.00	0.00	19.63
rs2214195	X-17328 levels	GCST90200536	16	20488075	A	C	5856	-0.12	0.02	0.00	0.00	26.48
rs14451927 2	X-17328 levels	GCST90200536	19	33706934	C	A	5856	0.51	0.11	0.00	0.00	19.89
rs55826339	X-17328 levels	GCST90200536	19	54073506	A	G	5856	-0.09	0.02	0.00	0.00	26.85
rs11409094 2	X-17328 levels	GCST90200536	20	18021931	T	G	5856	0.14	0.03	0.00	0.00	25.07
rs386524	X-17328 levels	GCST90200536	21	14261268	C	T	5856	-0.15	0.03	0.00	0.00	28.35
rs2413537	X-17328 levels	GCST90200536	22	38570408	G	C	5856	-0.11	0.02	0.00	0.00	19.79
rs12129637	X-16087 levels	GCST90200537	1	116110039	T	C	7071	0.13	0.03	0.00	0.00	20.09
rs11898468	X-16087 levels	GCST90200537	2	21828122	G	A	7071	0.29	0.06	0.00	0.00	23.49
rs14883664 6	X-16087 levels	GCST90200537	2	57202842	A	G	7071	-0.24	0.05	0.00	0.00	20.69
rs4072127	X-16087 levels	GCST90200537	2	68974079	G	A	7071	-0.09	0.02	0.00	0.00	27.03
rs18382713 2	X-16087 levels	GCST90200537	3	169654737	T	A	7071	0.48	0.09	0.00	0.00	26.01
rs10513155	X-16087 levels	GCST90200537	5	13788777	A	C	7071	0.08	0.02	0.00	0.00	19.79
rs2028836	X-16087 levels	GCST90200537	5	59287387	G	A	7071	-0.08	0.02	0.00	0.00	19.59
rs14540904 7	X-16087 levels	GCST90200537	5	140755218	T	C	7071	0.39	0.09	0.00	0.00	20.30
rs2762353	X-16087 levels	GCST90200537	6	25794203	G	A	7071	-0.26	0.02	0.00	0.04	264.97
rs56242039	X-16087 levels	GCST90200537	6	37353428	C	G	7071	-0.11	0.02	0.00	0.00	21.12
rs11298301 3	X-16087 levels	GCST90200537	7	103705790	G	C	7071	-0.33	0.07	0.00	0.00	20.47
rs12784596	X-16087 levels	GCST90200537	10	15611548	A	G	7071	-0.08	0.02	0.00	0.00	21.65
rs77794699	X-16087 levels	GCST90200537	10	95060813	A	G	7071	0.17	0.02	0.00	0.01	98.62
rs78175246	X-16087 levels	GCST90200537	11	87887636	G	A	7071	0.35	0.07	0.00	0.00	25.81
rs13886216 8	X-16087 levels	GCST90200537	11	90299383	C	T	7071	0.34	0.08	0.00	0.00	20.16
rs12814270	X-16087 levels	GCST90200537	12	20944395	G	A	7071	0.11	0.02	0.00	0.00	32.41
rs383203	X-16087 levels	GCST90200537	14	77223374	A	C	7071	0.08	0.02	0.00	0.00	19.56
rs7163105	X-16087 levels	GCST90200537	15	79595970	C	T	7071	-0.07	0.02	0.00	0.00	19.90
rs72817206	X-16087 levels	GCST90200537	17	13100851	T	A	7071	0.16	0.03	0.00	0.00	21.11
rs71372243	X-16087 levels	GCST90200537	17	30892296	A	G	7071	-0.32	0.07	0.00	0.00	20.48
rs11568591	X-16087 levels	GCST90200537	17	50683692	A	G	7071	-0.20	0.03	0.00	0.01	38.10
rs73437925	X-16087 levels	GCST90200537	18	58814558	G	A	7071	0.30	0.05	0.00	0.00	31.16
rs11692450 9	X-16087 levels	GCST90200537	19	13308982	T	C	7071	-0.52	0.12	0.00	0.00	20.33
rs6012878	X-16087 levels	GCST90200537	20	50220941	A	G	7071	0.07	0.02	0.00	0.00	20.69
rs15021286 5	X-17010 levels	GCST90200538	1	228374505	T	C	7879	0.57	0.13	0.00	0.00	20.83
rs11366201 9	X-17010 levels	GCST90200538	2	31083936	C	T	7879	0.11	0.02	0.00	0.00	26.19
rs9751098	X-17010 levels	GCST90200538	2	149841776	G	A	7879	-0.09	0.02	0.00	0.00	20.01
rs2219754	X-17010 levels	GCST90200538	2	181384167	T	A	7879	-0.16	0.03	0.00	0.00	21.07
rs62238450	X-17010 levels	GCST90200538	3	10530936	T	C	7879	0.44	0.09	0.00	0.00	21.94
rs14851200 1	X-17010 levels	GCST90200538	3	125501982	T	C	7879	0.36	0.08	0.00	0.00	20.13
rs62374176	X-17010 levels	GCST90200538	5	86719357	A	G	7879	-0.09	0.02	0.00	0.00	21.93
rs6865536	X-17010 levels	GCST90200538	5	174844987	G	A	7879	-0.08	0.02	0.00	0.00	21.35
rs2281448	X-17010 levels	GCST90200538	6	47260208	A	G	7879	0.10	0.02	0.00	0.00	19.79
rs14204445 9	X-17010 levels	GCST90200538	8	28061898	C	T	7879	0.26	0.06	0.00	0.00	20.69
rs10099610	X-17010 levels	GCST90200538	8	61425042	C	T	7879	-0.09	0.02	0.00	0.00	20.09
rs10217033	X-17010 levels	GCST90200538	8	71377496	G	C	7879	0.14	0.03	0.00	0.00	27.30
rs61881362	X-17010 levels	GCST90200538	11	44567714	T	C	7879	0.15	0.03	0.00	0.00	19.93
rs174564	X-17010 levels	GCST90200538	11	61820833	G	A	7879	-0.10	0.02	0.00	0.00	36.64
rs14313999 6	X-17010 levels	GCST90200538	11	100549185	A	G	7879	-0.20	0.04	0.00	0.00	20.95
rs14855931 0	X-17010 levels	GCST90200538	14	45119971	C	T	7879	0.39	0.09	0.00	0.00	20.05
rs60949977	X-17010 levels	GCST90200538	16	25965098	T	G	7879	0.20	0.04	0.00	0.00	21.32
rs77647530	X-17010 levels	GCST90200538	17	50926350	T	C	7879	-0.29	0.06	0.00	0.00	20.48
rs3928985	X-17010 levels	GCST90200538	22	20746269	A	G	7879	-0.31	0.07	0.00	0.00	21.23
rs12742541	X-14939 levels	GCST90200539	1	41632411	G	A	8250	0.27	0.06	0.00	0.00	20.81

rs1126742	X-14939 levels	GCST90200539	1	46932824	G	A	8250	0.29	0.02	0.00	0.02	173.75
rs11204904	X-14939 levels	GCST90200539	1	151862799	A	T	8250	-0.07	0.02	0.00	0.00	21.93
rs908909	X-14939 levels	GCST90200539	2	17383764	T	G	8250	-0.08	0.02	0.00	0.00	20.61
rs2720255	X-14939 levels	GCST90200539	3	127487215	A	C	8250	-0.07	0.02	0.00	0.00	19.57
rs59007063	X-14939 levels	GCST90200539	3	150513658	T	A	8250	-0.17	0.04	0.00	0.00	20.25
rs12639380	X-14939 levels	GCST90200539	3	168633506	G	A	8250	0.15	0.03	0.00	0.00	23.25
rs6923152	X-14939 levels	GCST90200539	6	125232030	A	G	8250	-0.18	0.04	0.00	0.00	20.77
rs11753995	X-14939 levels	GCST90200539	6	160154334	A	G	8250	-0.09	0.02	0.00	0.00	20.78
rs184896720	X-14939 levels	GCST90200539	7	112697303	A	G	8250	-0.23	0.05	0.00	0.00	19.75
rs79551804	X-14939 levels	GCST90200539	7	134542589	T	C	8250	0.21	0.04	0.00	0.00	22.63
rs148389263	X-14939 levels	GCST90200539	7	144801360	T	C	8250	0.23	0.05	0.00	0.00	19.77
rs76709703	X-14939 levels	GCST90200539	7	154930314	C	T	8250	0.14	0.03	0.00	0.00	24.64
rs142992142	X-14939 levels	GCST90200539	9	85482983	G	C	8250	-0.66	0.14	0.00	0.00	21.84
rs114094648	X-14939 levels	GCST90200539	10	77000731	A	G	8250	-0.30	0.06	0.00	0.00	25.31
rs140075121	X-14939 levels	GCST90200539	10	102150931	C	T	8250	0.27	0.06	0.00	0.00	21.73
rs7103235	X-14939 levels	GCST90200539	11	49677639	G	A	8250	0.07	0.02	0.00	0.00	21.92
rs12585350	X-14939 levels	GCST90200539	13	104450109	T	C	8250	-0.16	0.03	0.00	0.00	30.91
rs75088464	X-14939 levels	GCST90200539	14	47785275	G	C	8250	-0.25	0.05	0.00	0.00	20.63
rs34606986	X-14939 levels	GCST90200539	15	95397766	A	G	8250	0.12	0.02	0.00	0.00	24.06
rs149930714	X-14939 levels	GCST90200539	17	39399712	G	A	8250	-0.51	0.11	0.00	0.00	21.30
rs34239840	X-14939 levels	GCST90200539	17	65278160	C	G	8250	-0.18	0.04	0.00	0.00	20.58
rs797272	X-14939 levels	GCST90200539	19	43798124	T	A	8250	-0.11	0.02	0.00	0.00	21.80
rs12044550	X-15461 levels	GCST90200540	1	17278265	C	T	8144	-0.07	0.02	0.00	0.00	19.81
rs476365	X-15461 levels	GCST90200540	1	86842012	A	G	8144	0.10	0.02	0.00	0.00	24.11
rs2256595	X-15461 levels	GCST90200540	5	38482402	T	C	8144	-0.07	0.02	0.00	0.00	20.67
rs77010315	X-15461 levels	GCST90200540	5	151343594	A	C	8144	-0.35	0.07	0.00	0.00	27.35
rs11756733	X-15461 levels	GCST90200540	6	105171687	T	A	8144	0.16	0.03	0.00	0.00	20.66
rs3734935	X-15461 levels	GCST90200540	7	138786514	T	C	8144	-0.09	0.02	0.00	0.00	20.70
rs117464208	X-15461 levels	GCST90200540	7	155906279	T	G	8144	0.14	0.03	0.00	0.00	24.09
rs4986782	X-15461 levels	GCST90200540	8	18222607	A	G	8144	-0.28	0.05	0.00	0.00	26.86
rs62510203	X-15461 levels	GCST90200540	8	60445069	A	G	8144	0.13	0.03	0.00	0.00	26.51
rs1388418	X-15461 levels	GCST90200540	8	84356716	T	C	8144	0.08	0.02	0.00	0.00	20.72
rs10746751	X-15461 levels	GCST90200540	9	84885900	T	C	8144	-0.07	0.02	0.00	0.00	19.74
rs141397985	X-15461 levels	GCST90200540	9	116746840	A	C	8144	-0.26	0.06	0.00	0.00	21.36
rs1171617	X-15461 levels	GCST90200540	10	59707424	T	G	8144	0.09	0.02	0.00	0.00	26.44
rs2283233	X-15461 levels	GCST90200540	11	17990017	C	A	8144	-0.07	0.02	0.00	0.00	20.34
rs150898919	X-15461 levels	GCST90200540	11	55555553	T	C	8144	0.34	0.07	0.00	0.00	20.31
rs541273	X-15461 levels	GCST90200540	12	265236	T	C	8144	0.11	0.02	0.00	0.00	30.60
rs7970695	X-15461 levels	GCST90200540	12	120985573	A	G	8144	-0.07	0.02	0.00	0.00	19.69
rs9533422	X-15461 levels	GCST90200540	13	43192968	T	C	8144	0.07	0.02	0.00	0.00	20.34
rs9569246	X-15461 levels	GCST90200540	13	55244555	G	A	8144	-0.07	0.01	0.00	0.00	20.53
rs486467	X-15461 levels	GCST90200540	13	80378477	C	A	8144	-0.07	0.02	0.00	0.00	20.26
rs9518464	X-15461 levels	GCST90200540	13	101622701	A	C	8144	0.20	0.04	0.00	0.00	23.37
rs78289729	X-15461 levels	GCST90200540	15	31869224	C	T	8144	0.16	0.04	0.00	0.00	20.43
rs76150850	X-15461 levels	GCST90200540	15	80743909	T	G	8144	0.27	0.06	0.00	0.00	20.86
rs189064732	X-15461 levels	GCST90200540	21	32345148	T	C	8144	0.41	0.09	0.00	0.00	22.20
rs9624615	X-15461 levels	GCST90200540	22	24799573	A	G	8144	-0.13	0.03	0.00	0.00	19.90
rs113660590	X-15523 levels	GCST90200541	1	63719744	A	G	8071	0.20	0.05	0.00	0.00	19.98
rs113337327	X-15523 levels	GCST90200541	1	111436043	A	G	8071	0.32	0.07	0.00	0.00	19.82
rs115511401	X-15523 levels	GCST90200541	1	247674229	A	T	8071	0.29	0.06	0.00	0.00	20.28
rs79016091	X-15523 levels	GCST90200541	2	51008610	A	G	8071	1.17	0.25	0.00	0.00	22.73
rs4567963	X-15523 levels	GCST90200541	2	79030760	A	G	8071	0.24	0.05	0.00	0.00	25.40
rs151106682	X-15523 levels	GCST90200541	2	96644599	A	G	8071	0.44	0.10	0.00	0.00	20.55
rs144250519	X-15523 levels	GCST90200541	2	118537782	T	C	8071	0.33	0.07	0.00	0.00	21.82
rs113034612	X-15523 levels	GCST90200541	2	120910563	T	C	8071	0.29	0.06	0.00	0.00	21.58
rs59057294	X-15523 levels	GCST90200541	2	150276119	T	G	8071	1.37	0.26	0.00	0.00	27.32
rs72877081	X-15523 levels	GCST90200541	2	166620360	G	A	8071	0.44	0.09	0.00	0.00	22.73
rs6717389	X-15523 levels	GCST90200541	2	201205277	G	T	8071	1.38	0.28	0.00	0.00	24.08

rs839536	X-15523 levels	GCST90200541	2	211945430	T	C	8071	0.10	0.02	0.00	0.00	21.26
rs62246460	X-15523 levels	GCST90200541	3	22203780	C	T	8071	0.21	0.05	0.00	0.00	20.35
rs11493749 2	X-15523 levels	GCST90200541	3	63401540	T	A	8071	0.52	0.11	0.00	0.00	22.05
rs17022545	X-15523 levels	GCST90200541	3	85151029	G	A	8071	0.10	0.02	0.00	0.00	19.88
rs19308753 7	X-15523 levels	GCST90200541	3	86898686	G	A	8071	0.26	0.05	0.00	0.00	23.52
rs2332595	X-15523 levels	GCST90200541	3	123714886	C	A	8071	-0.50	0.11	0.00	0.00	21.37
rs11618234 2	X-15523 levels	GCST90200541	3	152368936	C	T	8071	0.21	0.05	0.00	0.00	19.96
rs79506475	X-15523 levels	GCST90200541	4	31338557	G	A	8071	0.10	0.02	0.00	0.00	19.89
rs17716956	X-15523 levels	GCST90200541	4	53549912	G	A	8071	0.14	0.03	0.00	0.00	19.70
rs11547338 3	X-15523 levels	GCST90200541	4	83137891	A	G	8071	0.23	0.05	0.00	0.00	24.70
rs14178420 9	X-15523 levels	GCST90200541	4	102955360	C	T	8071	0.25	0.06	0.00	0.00	20.65
rs14682247 4	X-15523 levels	GCST90200541	4	108414494	G	A	8071	0.43	0.08	0.00	0.00	25.27
rs11523395 3	X-15523 levels	GCST90200541	4	152310708	A	C	8071	0.43	0.09	0.00	0.00	21.95
rs14403920 5	X-15523 levels	GCST90200541	4	180423545	T	C	8071	0.37	0.07	0.00	0.00	26.61
rs78827180	X-15523 levels	GCST90200541	5	2135578	C	G	8071	0.50	0.11	0.00	0.00	21.33
rs76952379	X-15523 levels	GCST90200541	5	17233782	G	A	8071	0.18	0.04	0.00	0.00	20.09
rs78649716	X-15523 levels	GCST90200541	5	46023591	C	A	8071	0.33	0.07	0.00	0.00	22.31
rs271237	X-15523 levels	GCST90200541	5	53785978	C	G	8071	0.34	0.07	0.00	0.00	21.47
rs13848942 0	X-15523 levels	GCST90200541	5	73248492	C	A	8071	0.38	0.08	0.00	0.00	21.34
rs11550300 6	X-15523 levels	GCST90200541	5	109367807	C	A	8071	0.27	0.06	0.00	0.00	20.69
rs1366150	X-15523 levels	GCST90200541	5	163200638	C	T	8071	0.14	0.03	0.00	0.00	20.40
rs18939457 8	X-15523 levels	GCST90200541	6	37146640	A	G	8071	0.42	0.08	0.00	0.00	25.65
rs15090858 7	X-15523 levels	GCST90200541	6	94157760	C	A	8071	1.85	0.38	0.00	0.00	23.45
rs75410853	X-15523 levels	GCST90200541	6	94766471	A	G	8071	0.30	0.06	0.00	0.00	21.06
rs14719540 7	X-15523 levels	GCST90200541	6	165905598	A	G	8071	0.41	0.09	0.00	0.00	20.48
rs73042338	X-15523 levels	GCST90200541	7	4902595	A	G	8071	0.26	0.06	0.00	0.00	20.63
rs11188618 8	X-15523 levels	GCST90200541	7	30688923	A	C	8071	0.38	0.08	0.00	0.00	21.68
rs13827414 0	X-15523 levels	GCST90200541	7	54709639	G	A	8071	0.37	0.08	0.00	0.00	24.02
rs13879497 3	X-15523 levels	GCST90200541	7	62684713	A	G	8071	3.97	0.71	0.00	0.00	30.87
rs10282311	X-15523 levels	GCST90200541	7	94184240	T	C	8071	0.16	0.03	0.00	0.00	22.80
rs78169719	X-15523 levels	GCST90200541	7	157795896	C	A	8071	0.33	0.07	0.00	0.00	24.50
rs77404354	X-15523 levels	GCST90200541	8	64641039	T	C	8071	0.26	0.05	0.00	0.00	24.28
rs20180711 4	X-15523 levels	GCST90200541	8	86330640	C	A	8071	2.73	0.58	0.00	0.00	21.85
rs10101219	X-15523 levels	GCST90200541	8	98906440	G	C	8071	0.48	0.11	0.00	0.00	20.34
rs13865996 5	X-15523 levels	GCST90200541	8	113336716	T	C	8071	0.28	0.06	0.00	0.00	21.90
rs19130412 3	X-15523 levels	GCST90200541	8	142828588	T	A	8071	0.25	0.05	0.00	0.00	20.05
rs60962879	X-15523 levels	GCST90200541	8	143196179	T	C	8071	0.13	0.02	0.00	0.00	27.30
rs13813762 5	X-15523 levels	GCST90200541	9	19624422	A	G	8071	0.52	0.10	0.00	0.00	29.34
rs76053345	X-15523 levels	GCST90200541	9	109316487	C	T	8071	0.39	0.09	0.00	0.00	20.78
rs11699939 0	X-15523 levels	GCST90200541	9	117012414	T	G	8071	0.26	0.06	0.00	0.00	19.59
rs20073284 3	X-15523 levels	GCST90200541	9	134302503	T	G	8071	2.74	0.58	0.00	0.00	22.09
rs11594835	X-15523 levels	GCST90200541	10	7150269	T	C	8071	0.41	0.08	0.00	0.00	25.41
rs80319011	X-15523 levels	GCST90200541	10	17133166	A	G	8071	1.49	0.26	0.00	0.00	32.51
rs77759493	X-15523 levels	GCST90200541	10	50410767	A	C	8071	0.40	0.08	0.00	0.00	22.18
rs11249746 2	X-15523 levels	GCST90200541	10	94387004	G	A	8071	0.27	0.05	0.00	0.00	25.70
rs7907607	X-15523 levels	GCST90200541	10	110148752	G	A	8071	0.71	0.15	0.00	0.00	20.92
rs14886701 6	X-15523 levels	GCST90200541	10	120592399	A	G	8071	0.34	0.07	0.00	0.00	22.80
rs76535887	X-15523 levels	GCST90200541	11	22448756	T	C	8071	0.27	0.06	0.00	0.00	19.60
rs18916440 7	X-15523 levels	GCST90200541	11	34711497	G	A	8071	0.48	0.11	0.00	0.00	20.64

rs180689878	X-15523 levels	GCST90200541	11	76416816	T	C	8071	2.62	0.45	0.00	0.00	33.65
rs140063846	X-15523 levels	GCST90200541	11	119821566	T	C	8071	0.52	0.11	0.00	0.00	21.81
rs117714889	X-15523 levels	GCST90200541	12	47891957	A	G	8071	0.44	0.09	0.00	0.00	25.98
rs145179231	X-15523 levels	GCST90200541	12	64234773	G	A	8071	0.44	0.09	0.00	0.00	24.95
rs74236574	X-15523 levels	GCST90200541	12	75639352	C	T	8071	1.48	0.32	0.00	0.00	21.27
rs75584525	X-15523 levels	GCST90200541	12	117231157	G	A	8071	0.27	0.06	0.00	0.00	21.01
rs79927247	X-15523 levels	GCST90200541	13	41664193	C	G	8071	0.47	0.10	0.00	0.00	20.13
rs181176542	X-15523 levels	GCST90200541	13	47428907	C	T	8071	0.42	0.09	0.00	0.00	19.94
rs140047638	X-15523 levels	GCST90200541	13	71979335	C	T	8071	0.45	0.07	0.00	0.01	42.69
rs554342893	X-15523 levels	GCST90200541	13	89678748	A	C	8071	3.48	0.71	0.00	0.00	23.68
rs75712670	X-15523 levels	GCST90200541	13	100953269	A	G	8071	2.47	0.51	0.00	0.00	23.95
rs76309627	X-15523 levels	GCST90200541	14	40795292	C	A	8071	4.75	0.71	0.00	0.01	44.35
rs148309160	X-15523 levels	GCST90200541	14	58834915	T	A	8071	0.24	0.05	0.00	0.00	20.43
rs143408808	X-15523 levels	GCST90200541	14	102176469	T	C	8071	2.08	0.41	0.00	0.00	25.39
rs79343456	X-15523 levels	GCST90200541	15	32663298	T	C	8071	2.24	0.51	0.00	0.00	19.57
rs139494609	X-15523 levels	GCST90200541	15	37214357	T	C	8071	0.34	0.07	0.00	0.00	21.42
rs140467425	X-15523 levels	GCST90200541	15	79411128	T	C	8071	2.33	0.41	0.00	0.00	31.89
rs7189018	X-15523 levels	GCST90200541	16	776511	C	T	8071	0.16	0.03	0.00	0.00	22.11
rs9902076	X-15523 levels	GCST90200541	17	8793098	G	T	8071	-0.08	0.02	0.00	0.00	23.36
rs78382947	X-15523 levels	GCST90200541	17	59872694	G	A	8071	1.68	0.30	0.00	0.00	30.48
rs73995812	X-15523 levels	GCST90200541	17	72434090	C	T	8071	2.76	0.58	0.00	0.00	22.34
rs117685435	X-15523 levels	GCST90200541	18	30905254	C	T	8071	0.53	0.11	0.00	0.00	23.86
rs74744227	X-15523 levels	GCST90200541	18	46278266	G	C	8071	0.43	0.08	0.00	0.00	25.56
rs141707776	X-15523 levels	GCST90200541	18	71008620	T	A	8071	0.24	0.05	0.00	0.00	20.24
rs113126428	X-15523 levels	GCST90200541	19	8638523	A	G	8071	0.43	0.09	0.00	0.00	23.13
rs73571613	X-15523 levels	GCST90200541	19	32623967	T	C	8071	0.66	0.14	0.00	0.00	20.57
rs112496134	X-15523 levels	GCST90200541	19	42960949	T	G	8071	2.25	0.38	0.00	0.00	34.61
rs6067977	X-15523 levels	GCST90200541	20	51862632	C	T	8071	-0.09	0.02	0.00	0.00	20.45
rs2273359	X-15523 levels	GCST90200541	20	58987047	G	C	8071	0.18	0.04	0.00	0.00	21.88
rs148298484	X-15523 levels	GCST90200541	21	36616928	G	A	8071	0.24	0.05	0.00	0.00	25.71
rs138559519	X-15523 levels	GCST90200541	21	42480727	A	G	8071	0.36	0.08	0.00	0.00	21.30
rs9615653	X-15523 levels	GCST90200541	22	47835350	A	T	8071	0.16	0.04	0.00	0.00	20.05
rs568297197	X-15523 levels	GCST90200541	22	47955040	C	T	8071	0.95	0.19	0.00	0.00	24.48
rs76363293	X-15728 levels	GCST90200542	1	62982292	T	C	7874	0.28	0.06	0.00	0.00	19.98
rs7586740	X-15728 levels	GCST90200542	2	20925873	C	T	7874	0.30	0.06	0.00	0.00	21.77
rs138870941	X-15728 levels	GCST90200542	2	54489719	T	C	7874	0.22	0.05	0.00	0.00	20.53
rs115920599	X-15728 levels	GCST90200542	2	140456241	T	C	7874	0.15	0.03	0.00	0.00	23.66
rs1603866	X-15728 levels	GCST90200542	3	6237965	T	C	7874	-0.09	0.02	0.00	0.00	19.74
rs111996073	X-15728 levels	GCST90200542	3	73740568	G	A	7874	0.39	0.08	0.00	0.00	23.62
rs6832681	X-15728 levels	GCST90200542	4	83863621	C	T	7874	-0.18	0.04	0.00	0.00	19.96
rs6534669	X-15728 levels	GCST90200542	4	128181030	C	A	7874	-0.08	0.02	0.00	0.00	20.06
rs188029449	X-15728 levels	GCST90200542	4	162184198	C	T	7874	-0.38	0.09	0.00	0.00	19.79
rs66659415	X-15728 levels	GCST90200542	5	31601810	A	G	7874	-0.11	0.02	0.00	0.00	21.74
rs1321909	X-15728 levels	GCST90200542	6	23646290	C	T	7874	0.08	0.02	0.00	0.00	21.46
rs4291100	X-15728 levels	GCST90200542	6	95725808	A	T	7874	-0.23	0.05	0.00	0.00	21.74
rs142530204	X-15728 levels	GCST90200542	8	3965880	T	G	7874	-0.47	0.10	0.00	0.00	21.56
rs79050552	X-15728 levels	GCST90200542	8	18762785	G	C	7874	-0.32	0.07	0.00	0.00	21.16
rs4480113	X-15728 levels	GCST90200542	8	68810277	A	G	7874	0.13	0.03	0.00	0.00	20.07
rs7847333	X-15728 levels	GCST90200542	9	110090055	A	T	7874	0.11	0.02	0.00	0.00	21.52
rs220358	X-15728 levels	GCST90200542	10	24285480	G	A	7874	0.07	0.02	0.00	0.00	22.60
rs2616135	X-15728 levels	GCST90200542	10	69713204	G	A	7874	-0.08	0.02	0.00	0.00	19.72

rs12780386	X-15728 levels	GCST90200542	10	102437109	T	C	7874	0.10	0.02	0.00	0.00	28.49
rs11194897	X-15728 levels	GCST90200542	10	109857266	T	C	7874	0.16	0.04	0.00	0.00	19.85
rs7095721	X-15728 levels	GCST90200542	10	125046395	G	A	7874	-0.09	0.02	0.00	0.00	21.32
rs117300534	X-15728 levels	GCST90200542	11	78438187	G	A	7874	0.31	0.07	0.00	0.00	20.78
rs74911812	X-15728 levels	GCST90200542	12	29443556	C	G	7874	-0.23	0.05	0.00	0.00	19.73
rs117983041	X-15728 levels	GCST90200542	12	66842750	C	T	7874	0.16	0.04	0.00	0.00	19.52
rs9565812	X-15728 levels	GCST90200542	13	82814750	C	T	7874	0.09	0.02	0.00	0.00	25.13
rs72759043	X-15728 levels	GCST90200542	15	89036341	T	C	7874	-0.13	0.03	0.00	0.00	22.91
rs113685907	X-15728 levels	GCST90200542	17	28770892	C	T	7874	-0.18	0.04	0.00	0.00	20.31
rs206626	X-15728 levels	GCST90200542	18	10321350	G	A	7874	-0.07	0.02	0.00	0.00	20.10
rs143926151	X-15728 levels	GCST90200542	19	8070996	C	T	7874	0.38	0.08	0.00	0.00	21.48
rs6049097	X-15728 levels	GCST90200542	20	23772915	T	C	7874	0.08	0.02	0.00	0.00	21.50
rs138857920	X-15728 levels	GCST90200542	20	43600521	G	A	7874	-0.20	0.04	0.00	0.00	21.43
rs1297215	X-15728 levels	GCST90200542	21	14987139	C	T	7874	0.07	0.02	0.00	0.00	21.22
rs77258809	X-15503 levels	GCST90200543	1	56365024	C	T	8237	0.38	0.09	0.00	0.00	19.59
rs4367753	X-15503 levels	GCST90200543	1	71130509	T	G	8237	0.06	0.01	0.00	0.00	19.52
rs471615	X-15503 levels	GCST90200543	1	153155893	C	A	8237	0.16	0.04	0.00	0.00	21.54
rs113478941	X-15503 levels	GCST90200543	1	160774732	T	C	8237	-0.14	0.03	0.00	0.00	21.60
rs544535	X-15503 levels	GCST90200543	1	214989557	C	T	8237	-0.10	0.02	0.00	0.00	22.31
rs61825638	X-15503 levels	GCST90200543	1	241550102	T	C	8237	0.21	0.02	0.00	0.02	169.20
rs352925	X-15503 levels	GCST90200543	2	143020781	T	C	8237	0.14	0.02	0.00	0.01	80.91
rs73106337	X-15503 levels	GCST90200543	3	62775650	G	T	8237	0.09	0.02	0.00	0.00	20.36
rs11740651	X-15503 levels	GCST90200543	5	45302374	A	C	8237	-0.11	0.02	0.00	0.00	27.79
rs116433805	X-15503 levels	GCST90200543	6	14787645	A	G	8237	0.19	0.04	0.00	0.00	24.15
rs12216053	X-15503 levels	GCST90200543	6	168102244	G	A	8237	0.07	0.02	0.00	0.00	20.14
rs9650615	X-15503 levels	GCST90200543	8	8836145	A	G	8237	0.16	0.04	0.00	0.00	21.51
rs118065167	X-15503 levels	GCST90200543	9	110456284	C	A	8237	-0.21	0.05	0.00	0.00	19.76
rs140757604	X-15503 levels	GCST90200543	10	66868313	T	C	8237	-0.14	0.03	0.00	0.00	23.27
rs3184504	X-15503 levels	GCST90200543	12	111446804	C	T	8237	-0.07	0.01	0.00	0.00	22.04
rs1323136	X-15503 levels	GCST90200543	13	43440333	C	T	8237	0.11	0.02	0.00	0.00	20.62
rs201893915	X-15503 levels	GCST90200543	15	95869954	T	G	8237	-0.43	0.10	0.00	0.00	20.40
rs62083961	X-15503 levels	GCST90200543	18	3473089	T	G	8237	-0.08	0.02	0.00	0.00	21.76
rs12982646	X-15503 levels	GCST90200543	19	499978	A	G	8237	-0.07	0.02	0.00	0.00	22.51
rs56113850	X-15503 levels	GCST90200543	19	40847202	C	T	8237	0.08	0.01	0.00	0.00	30.90
rs1883763	X-16124 levels	GCST90200544	1	15131930	T	C	5337	0.31	0.07	0.00	0.00	20.23
rs587601417	X-16124 levels	GCST90200544	1	120541488	C	T	5337	0.47	0.10	0.00	0.00	21.30
rs17731478	X-16124 levels	GCST90200544	2	162761793	T	A	5337	0.21	0.04	0.00	0.00	22.15
rs140639713	X-16124 levels	GCST90200544	2	226647897	G	A	5337	0.49	0.11	0.00	0.00	20.88
rs115038630	X-16124 levels	GCST90200544	3	65228071	A	T	5337	0.28	0.06	0.00	0.00	23.72
rs2194917	X-16124 levels	GCST90200544	3	187582321	A	G	5337	0.08	0.02	0.00	0.00	19.65
rs145154563	X-16124 levels	GCST90200544	4	26969364	C	T	5337	0.52	0.12	0.00	0.00	20.49
rs7713186	X-16124 levels	GCST90200544	5	2655002	T	C	5337	-0.09	0.02	0.00	0.00	20.68
rs13171635	X-16124 levels	GCST90200544	5	91289638	C	T	5337	-0.14	0.03	0.00	0.00	22.02
rs1799562	X-16124 levels	GCST90200544	5	166432978	T	C	5337	-0.13	0.03	0.00	0.00	23.35
rs114415531	X-16124 levels	GCST90200544	6	12140696	C	T	5337	0.22	0.04	0.00	0.00	23.55
rs9465629	X-16124 levels	GCST90200544	6	20072085	C	T	5337	0.22	0.05	0.00	0.00	21.83
rs71572234	X-16124 levels	GCST90200544	7	103353789	A	C	5337	-0.19	0.04	0.00	0.00	21.67
rs11538324	X-16124 levels	GCST90200544	7	135674354	G	A	5337	0.26	0.05	0.00	0.00	25.29
rs148811125	X-16124 levels	GCST90200544	8	11070470	G	A	5337	0.31	0.06	0.00	0.00	25.66
rs185416562	X-16124 levels	GCST90200544	8	28971338	A	G	5337	0.54	0.12	0.00	0.00	21.92
rs112798388	X-16124 levels	GCST90200544	8	93243030	A	T	5337	0.46	0.09	0.00	0.01	27.01
rs1929241	X-16124 levels	GCST90200544	10	29929152	C	T	5337	-0.09	0.02	0.00	0.00	20.20
rs181971690	X-16124 levels	GCST90200544	10	123308838	T	A	5337	0.33	0.07	0.00	0.00	20.05
rs144092380	X-16124 levels	GCST90200544	11	55343380	T	C	5337	1.01	0.21	0.00	0.00	24.15

rs3829264	X-16124 levels	GCST90200544	11	129894673	T	C	5337	0.09	0.02	0.00	0.00	21.14
rs1430430	X-16124 levels	GCST90200544	14	31801538	A	G	5337	-0.55	0.11	0.00	0.00	25.06
rs62009378	X-16124 levels	GCST90200544	14	48232413	A	G	5337	0.59	0.12	0.00	0.00	23.45
rs8051393	X-16124 levels	GCST90200544	16	7956077	A	G	5337	-0.09	0.02	0.00	0.00	23.08
rs14355202	X-16124 levels	GCST90200544	16	53663885	C	A	5337	-0.26	0.06	0.00	0.00	19.98
rs55961949	X-16124 levels	GCST90200544	17	3952694	G	A	5337	-0.11	0.02	0.00	0.00	23.50
rs7501624	X-16124 levels	GCST90200544	17	77635596	T	A	5337	-0.09	0.02	0.00	0.00	19.54
rs11708268	X-16124 levels	GCST90200544	18	24138799	G	A	5337	0.90	0.20	0.00	0.00	21.01
rs14739592	X-16124 levels	GCST90200544	18	37281070	T	C	5337	-0.34	0.08	0.00	0.00	19.66
rs11759719	X-16124 levels	GCST90200544	19	50290341	A	G	5337	0.46	0.10	0.00	0.00	19.53
rs14078349	X-16124 levels	GCST90200544	19	52689573	C	G	5337	0.47	0.10	0.00	0.00	21.51
rs13048770	X-16124 levels	GCST90200544	21	21979681	A	G	5337	0.16	0.04	0.00	0.00	19.53
rs71310332	X-17438 levels	GCST90200545	3	16280026	T	C	6913	0.17	0.03	0.00	0.00	25.61
rs14073060	X-17438 levels	GCST90200545	3	141768491	A	G	6913	0.33	0.07	0.00	0.00	19.71
rs2061298	X-17438 levels	GCST90200545	4	182477708	G	A	6913	-0.08	0.02	0.00	0.00	21.28
rs57049035	X-17438 levels	GCST90200545	5	27724039	A	G	6913	0.17	0.04	0.00	0.00	20.43
rs17435170	X-17438 levels	GCST90200545	6	14240441	G	T	6913	0.19	0.04	0.00	0.00	24.11
rs6928691	X-17438 levels	GCST90200545	6	22397070	G	A	6913	0.17	0.04	0.00	0.00	20.43
rs17792244	X-17438 levels	GCST90200545	7	9194712	G	A	6913	0.08	0.02	0.00	0.00	23.42
rs14169243	X-17438 levels	GCST90200545	7	102460787	G	C	6913	-0.35	0.08	0.00	0.00	21.36
rs11277568	X-17438 levels	GCST90200545	8	43436173	T	C	6913	-0.25	0.05	0.00	0.00	22.21
rs80085405	X-17438 levels	GCST90200545	9	78289692	C	T	6913	-0.30	0.07	0.00	0.00	19.63
rs2274841	X-17438 levels	GCST90200545	9	134938019	C	G	6913	0.21	0.05	0.00	0.00	20.54
rs34872768	X-17438 levels	GCST90200545	10	121815236	T	C	6913	-0.09	0.02	0.00	0.00	20.45
rs14665414	X-17438 levels	GCST90200545	12	130100536	A	G	6913	0.70	0.15	0.00	0.00	21.12
rs60906193	X-17438 levels	GCST90200545	14	91051301	A	G	6913	0.12	0.03	0.00	0.00	19.98
rs79321389	X-17438 levels	GCST90200545	18	2272399	T	C	6913	0.32	0.07	0.00	0.00	22.92
rs36872477	X-17438 levels	GCST90200545	18	27510146	C	T	6913	-0.17	0.04	0.00	0.00	20.62
rs14500608	X-17438 levels	GCST90200545	18	52598526	C	T	6913	-0.30	0.06	0.00	0.00	24.50
rs475896	X-17438 levels	GCST90200545	19	7766543	G	C	6913	0.08	0.02	0.00	0.00	22.92
rs14606424	X-17438 levels	GCST90200545	20	51652880	A	G	6913	0.30	0.06	0.00	0.00	22.60
rs2822790	X-17438 levels	GCST90200545	21	14583254	T	C	6913	-0.28	0.06	0.00	0.00	23.85
rs2931610	X-17354 levels	GCST90200546	1	188243970	G	A	5375	0.09	0.02	0.00	0.00	20.13
rs16833586	X-17354 levels	GCST90200546	1	236331113	G	A	5375	0.19	0.04	0.00	0.00	20.82
rs11598699	X-17354 levels	GCST90200546	2	117256382	C	G	5375	0.33	0.07	0.00	0.00	20.32
rs14958986	X-17354 levels	GCST90200546	2	208406841	T	C	5375	-0.31	0.07	0.00	0.00	21.09
rs11707080	X-17354 levels	GCST90200546	3	72092572	A	G	5375	-0.09	0.02	0.00	0.00	19.92
rs1501106	X-17354 levels	GCST90200546	4	100431190	A	C	5375	0.10	0.02	0.00	0.00	21.82
rs11571373	X-17354 levels	GCST90200546	4	132445704	A	G	5375	-0.52	0.12	0.00	0.00	19.57
rs14287610	X-17354 levels	GCST90200546	5	174741929	G	A	5375	0.29	0.06	0.00	0.00	20.19
rs12353276	X-17354 levels	GCST90200546	9	91139758	A	G	5375	0.14	0.03	0.00	0.00	22.29
rs6421979	X-17354 levels	GCST90200546	11	365894	G	A	5375	0.11	0.03	0.00	0.00	19.79
rs7111617	X-17354 levels	GCST90200546	11	20715205	G	A	5375	-0.13	0.03	0.00	0.00	19.64
rs4393315	X-17354 levels	GCST90200546	11	88204353	G	A	5375	0.12	0.03	0.00	0.00	19.97
rs7954863	X-17354 levels	GCST90200546	12	126580134	C	G	5375	0.13	0.03	0.00	0.00	22.02
rs62015695	X-17354 levels	GCST90200546	15	64768970	A	G	5375	0.30	0.07	0.00	0.00	20.11
rs12150136	X-17354 levels	GCST90200546	17	14214246	G	A	5375	0.15	0.03	0.00	0.00	24.20
rs58787712	X-17354 levels	GCST90200546	18	24540367	A	G	5375	0.13	0.03	0.00	0.00	21.04
rs79441906	X-17654 levels	GCST90200547	2	50571145	C	G	7690	0.17	0.04	0.00	0.00	20.35
rs10178909	X-17654 levels	GCST90200547	2	216035805	G	C	7690	0.48	0.03	0.00	0.04	355.76
rs72950678	X-17654 levels	GCST90200547	2	216557937	T	G	7690	0.17	0.04	0.00	0.00	22.11
rs150205	X-17654 levels	GCST90200547	3	162911782	T	G	7690	0.07	0.02	0.00	0.00	21.76
rs58515985	X-17654 levels	GCST90200547	4	104010300	T	C	7690	0.19	0.04	0.00	0.00	19.61
rs56050317	X-17654 levels	GCST90200547	5	119469552	G	A	7690	-0.21	0.03	0.00	0.01	47.77
rs7736918	X-17654 levels	GCST90200547	5	170431822	G	A	7690	-0.07	0.02	0.00	0.00	20.69
rs2240803	X-17654 levels	GCST90200547	6	30953180	A	G	7690	0.09	0.02	0.00	0.00	20.31
rs1420122	X-17654 levels	GCST90200547	7	29596433	G	A	7690	0.09	0.02	0.00	0.00	25.32

rs138111698	X-17654 levels	GCST90200547	7	130168471	T	C	7690	0.21	0.05	0.00	0.00	19.76
rs149103447	X-17654 levels	GCST90200547	7	137128378	G	A	7690	-0.40	0.09	0.00	0.00	20.84
rs111913418	X-17654 levels	GCST90200547	8	4696997	G	C	7690	0.31	0.06	0.00	0.00	25.02
rs116948601	X-17654 levels	GCST90200547	9	16055130	C	T	7690	-0.29	0.05	0.00	0.00	28.40
rs2378478	X-17654 levels	GCST90200547	9	80436894	G	T	7690	-0.31	0.06	0.00	0.00	24.49
rs112577588	X-17654 levels	GCST90200547	10	94897643	T	A	7690	0.50	0.03	0.00	0.03	245.35
rs4751996	X-17654 levels	GCST90200547	10	116638383	G	A	7690	0.07	0.02	0.00	0.00	19.88
rs72995872	X-17654 levels	GCST90200547	11	120797424	G	C	7690	0.28	0.06	0.00	0.00	20.25
rs145055014	X-17654 levels	GCST90200547	12	10602103	T	C	7690	0.34	0.08	0.00	0.00	20.17
rs4149056	X-17654 levels	GCST90200547	12	21178615	C	T	7690	0.23	0.02	0.00	0.01	114.89
rs3742262	X-17654 levels	GCST90200547	13	41868410	G	A	7690	-0.09	0.02	0.00	0.00	25.81
rs72738356	X-17654 levels	GCST90200547	14	73559459	A	G	7690	0.20	0.02	0.00	0.01	111.84
rs9302221	X-17654 levels	GCST90200547	15	61001896	G	A	7690	-0.10	0.02	0.00	0.00	20.05
rs73426726	X-17654 levels	GCST90200547	15	61797732	G	C	7690	0.26	0.06	0.00	0.00	20.44
rs2899742	X-17654 levels	GCST90200547	15	68665706	G	A	7690	-0.15	0.03	0.00	0.00	22.23
rs105284	X-17654 levels	GCST90200547	16	22811287	T	A	7690	-0.08	0.02	0.00	0.00	20.47
rs111476945	X-17654 levels	GCST90200547	18	28348327	T	C	7690	-0.31	0.07	0.00	0.00	20.21
rs117714967	X-17654 levels	GCST90200547	18	39456814	A	T	7690	-0.32	0.07	0.00	0.00	20.25
rs116973367	X-17654 levels	GCST90200547	22	35158544	A	C	7690	0.27	0.06	0.00	0.00	20.58
rs77244636	X-17676 levels	GCST90200548	1	17028340	T	C	8118	0.39	0.09	0.00	0.00	19.53
rs61757683	X-17676 levels	GCST90200548	1	18872954	T	G	8118	0.54	0.05	0.00	0.01	99.55
rs75465398	X-17676 levels	GCST90200548	1	58510036	T	A	8118	0.32	0.07	0.00	0.00	23.22
rs150176945	X-17676 levels	GCST90200548	2	36311037	T	C	8118	-0.27	0.06	0.00	0.00	20.19
rs13019460	X-17676 levels	GCST90200548	2	100844637	G	C	8118	0.09	0.02	0.00	0.00	21.13
rs7625428	X-17676 levels	GCST90200548	3	56536879	T	C	8118	0.07	0.02	0.00	0.00	19.52
rs144054861	X-17676 levels	GCST90200548	3	85697584	G	A	8118	0.25	0.05	0.00	0.00	21.88
rs10517862	X-17676 levels	GCST90200548	4	63619844	A	T	8118	0.10	0.02	0.00	0.00	19.67
rs17861911	X-17676 levels	GCST90200548	4	117436328	T	A	8118	-0.08	0.02	0.00	0.00	22.64
rs6853741	X-17676 levels	GCST90200548	4	148061408	A	G	8118	0.08	0.02	0.00	0.00	21.39
rs12513745	X-17676 levels	GCST90200548	5	79482213	T	C	8118	0.11	0.02	0.00	0.00	24.62
rs72835176	X-17676 levels	GCST90200548	5	147773088	C	A	8118	-0.20	0.04	0.00	0.00	20.13
rs727260	X-17676 levels	GCST90200548	6	3152171	A	G	8118	-0.30	0.04	0.00	0.01	70.93
rs605986	X-17676 levels	GCST90200548	6	131110318	C	T	8118	-0.07	0.02	0.00	0.00	21.54
rs331845	X-17676 levels	GCST90200548	7	54588730	T	G	8118	0.13	0.03	0.00	0.00	20.93
rs4739770	X-17676 levels	GCST90200548	8	80929661	C	T	8118	0.08	0.02	0.00	0.00	19.95
rs4560862	X-17676 levels	GCST90200548	9	119976380	A	T	8118	0.08	0.02	0.00	0.00	20.94
rs117872399	X-17676 levels	GCST90200548	10	373976	C	G	8118	-0.20	0.04	0.00	0.00	21.53
rs76228369	X-17676 levels	GCST90200548	11	60948988	C	T	8118	0.27	0.06	0.00	0.00	20.71
rs77928504	X-17676 levels	GCST90200548	12	21777593	T	C	8118	0.16	0.03	0.00	0.00	21.66
rs80080384	X-17676 levels	GCST90200548	13	37258052	G	A	8118	-0.30	0.06	0.00	0.00	22.42
rs10220047	X-17676 levels	GCST90200548	13	54510382	C	G	8118	-0.20	0.04	0.00	0.00	20.22
rs9922704	X-17676 levels	GCST90200548	16	20549055	C	T	8118	-0.35	0.05	0.00	0.01	46.28
rs11078861	X-17676 levels	GCST90200548	17	10795327	C	G	8118	0.08	0.02	0.00	0.00	22.87
rs143548745	X-17676 levels	GCST90200548	17	54905464	A	G	8118	-0.34	0.07	0.00	0.00	21.89
rs1668849	X-17676 levels	GCST90200548	18	24924653	T	G	8118	-0.11	0.02	0.00	0.00	22.89
rs4800740	X-17676 levels	GCST90200548	18	26558187	G	C	8118	0.20	0.04	0.00	0.00	20.76
rs146809374	X-17676 levels	GCST90200548	19	15931235	A	G	8118	-0.55	0.12	0.00	0.00	21.83
rs80172635	X-17676 levels	GCST90200548	21	35182230	T	C	8118	-0.17	0.03	0.00	0.00	25.37
rs5997788	X-17676 levels	GCST90200548	22	30859042	T	G	8118	0.07	0.02	0.00	0.00	21.31
rs61706391	X-17367 levels	GCST90200549	1	176005315	A	C	6092	-0.10	0.02	0.00	0.00	20.05
rs1705047	X-17367 levels	GCST90200549	2	35987138	A	G	6092	0.09	0.02	0.00	0.00	21.14
rs3937464	X-17367 levels	GCST90200549	2	37434200	C	A	6092	-0.11	0.02	0.00	0.00	28.28
rs1047891	X-17367 levels	GCST90200549	2	210675783	A	C	6092	0.23	0.02	0.00	0.02	146.39
rs17470240	X-17367 levels	GCST90200549	3	143206674	C	G	6092	0.14	0.03	0.00	0.00	23.48
rs73229208	X-17367 levels	GCST90200549	4	32301088	T	C	6092	0.18	0.04	0.00	0.00	19.64
rs6447142	X-17367 levels	GCST90200549	4	42200727	A	C	6092	0.10	0.02	0.00	0.00	24.58
rs41297405	X-17367 levels	GCST90200549	4	69488555	C	T	6092	0.25	0.05	0.00	0.00	22.19
rs13176396	X-17367 levels	GCST90200549	5	86021189	A	T	6092	0.09	0.02	0.00	0.00	21.41
rs2223980	X-17367 levels	GCST90200549	6	79791139	C	A	6092	0.18	0.04	0.00	0.00	23.43
rs1980602	X-17367 levels	GCST90200549	6	154835087	A	G	6092	-0.08	0.02	0.00	0.00	19.63

rs1381000	X-17367 levels	GCST90200549	8	21168758	G	T	6092	0.09	0.02	0.00	0.00	21.18
rs14758728	X-17367 levels	GCST90200549	8	126127030	C	A	6092	0.19	0.04	0.00	0.00	19.51
5												
rs15062016	X-17367 levels	GCST90200549	9	107805051	T	C	6092	0.37	0.08	0.00	0.00	21.16
6												
rs16931397	X-17367 levels	GCST90200549	9	129687920	T	C	6092	-0.24	0.05	0.00	0.00	21.52
rs10794918	X-17367 levels	GCST90200549	10	2532937	G	C	6092	0.10	0.02	0.00	0.00	19.52
rs5029487	X-17367 levels	GCST90200549	11	120503118	T	A	6092	0.09	0.02	0.00	0.00	22.34
rs2469541	X-17367 levels	GCST90200549	15	76269777	T	C	6092	0.10	0.02	0.00	0.01	32.29
rs13843830	X-17367 levels	GCST90200549	16	61047541	G	A	6092	0.31	0.07	0.00	0.00	20.10
0												
rs62115346	X-17367 levels	GCST90200549	19	53356746	A	G	6092	0.18	0.04	0.00	0.00	21.00
rs6056342	X-17367 levels	GCST90200549	20	9025068	A	G	6092	-0.09	0.02	0.00	0.00	22.29
rs78986657	X-17367 levels	GCST90200549	20	52635224	T	C	6092	0.30	0.06	0.00	0.00	26.81
rs11366508	X-17357 levels	GCST90200550	1	9036580	T	C	8041	0.38	0.07	0.00	0.00	29.53
2												
rs79909222	X-17357 levels	GCST90200550	1	115302815	T	C	8041	0.13	0.03	0.00	0.00	20.37
rs78244989	X-17357 levels	GCST90200550	2	200811128	G	A	8041	0.21	0.04	0.00	0.00	26.98
rs9288520	X-17357 levels	GCST90200550	2	216616548	A	G	8041	-0.10	0.02	0.00	0.00	19.93
rs11355534	X-17357 levels	GCST90200550	3	7554029	A	C	8041	0.18	0.04	0.00	0.00	19.57
7												
rs6441051	X-17357 levels	GCST90200550	3	156203566	T	C	8041	0.07	0.02	0.00	0.00	22.15
rs1392114	X-17357 levels	GCST90200550	3	172956045	C	G	8041	-0.07	0.02	0.00	0.00	22.55
rs79576557	X-17357 levels	GCST90200550	4	133045454	A	G	8041	-0.24	0.05	0.00	0.00	25.41
rs10042752	X-17357 levels	GCST90200550	5	52998721	G	T	8041	0.09	0.02	0.00	0.00	23.44
rs6901419	X-17357 levels	GCST90200550	6	3098124	G	A	8041	-0.21	0.05	0.00	0.00	21.18
rs11754515	X-17357 levels	GCST90200550	6	76561602	A	G	8041	-0.18	0.04	0.00	0.00	19.78
2												
rs9390185	X-17357 levels	GCST90200550	6	144659415	G	T	8041	0.10	0.02	0.00	0.00	19.56
rs7798199	X-17357 levels	GCST90200550	7	11813984	G	A	8041	0.07	0.02	0.00	0.00	20.68
rs62471929	X-17357 levels	GCST90200550	7	99676693	G	A	8041	0.24	0.03	0.00	0.01	49.55
rs9642091	X-17357 levels	GCST90200550	7	138114542	C	T	8041	0.18	0.02	0.00	0.01	92.19
rs80147006	X-17357 levels	GCST90200550	7	138116720	C	G	8041	-0.25	0.05	0.00	0.00	22.79
rs77341791	X-17357 levels	GCST90200550	8	115718219	G	A	8041	0.25	0.05	0.00	0.00	21.09
rs78702581	X-17357 levels	GCST90200550	10	104476779	T	G	8041	-0.38	0.08	0.00	0.00	24.10
rs61863623	X-17357 levels	GCST90200550	10	128540356	C	T	8041	0.15	0.03	0.00	0.00	20.25
rs12360633	X-17357 levels	GCST90200550	11	15961337	T	C	8041	-0.14	0.03	0.00	0.00	21.89
rs7928134	X-17357 levels	GCST90200550	11	43764763	G	A	8041	0.26	0.02	0.00	0.03	250.57
rs72639149	X-17357 levels	GCST90200550	11	80569409	C	G	8041	-0.09	0.02	0.00	0.00	20.59
rs56196860	X-17357 levels	GCST90200550	12	2799164	A	C	8041	-0.20	0.04	0.00	0.00	20.61
rs76491438	X-17357 levels	GCST90200550	12	74904633	T	C	8041	-0.27	0.06	0.00	0.00	20.60
rs11703699	X-17357 levels	GCST90200550	13	102303769	A	T	8041	0.20	0.04	0.00	0.00	20.60
7												
rs12943295	X-17357 levels	GCST90200550	17	65568387	C	T	8041	-0.11	0.02	0.00	0.00	19.77
rs11745647	X-17357 levels	GCST90200550	18	55286671	A	G	8041	-0.17	0.04	0.00	0.00	19.69
1												
rs11591103	X-17357 levels	GCST90200550	19	9051277	A	G	8041	-0.12	0.03	0.00	0.00	21.51
0												
rs2910993	X-17357 levels	GCST90200550	19	12393701	C	T	8041	-0.13	0.02	0.00	0.01	43.98
rs11088558	X-17357 levels	GCST90200550	21	15943111	A	T	8041	0.09	0.02	0.00	0.00	23.48
rs928771	X-17357 levels	GCST90200550	21	38291838	G	T	8041	-0.07	0.02	0.00	0.00	20.72
rs5758576	X-17357 levels	GCST90200550	22	42092159	A	G	8041	0.10	0.02	0.00	0.00	26.06
rs2582788	X-18886 levels	GCST90200551	1	119777874	G	T	8198	-0.11	0.02	0.00	0.01	44.10
rs2378075	X-18886 levels	GCST90200551	1	218921258	A	G	8198	-0.07	0.02	0.00	0.00	20.51
rs11482306	X-18886 levels	GCST90200551	2	5785045	T	C	8198	-0.33	0.07	0.00	0.00	20.03
7												
rs73227034	X-18886 levels	GCST90200551	3	134798535	C	A	8198	0.10	0.02	0.00	0.00	19.77
rs17550036	X-18886 levels	GCST90200551	4	18704204	G	T	8198	0.11	0.02	0.00	0.00	19.54
rs10951036	X-18886 levels	GCST90200551	7	24948935	A	G	8198	0.07	0.02	0.00	0.00	21.51
rs2188492	X-18886 levels	GCST90200551	7	104362734	G	C	8198	-0.08	0.02	0.00	0.00	19.55
rs28422045	X-18886 levels	GCST90200551	8	57454000	G	T	8198	0.08	0.02	0.00	0.00	22.10
rs34232467	X-18886 levels	GCST90200551	8	87811966	A	T	8198	-0.20	0.04	0.00	0.00	21.34
rs746872	X-18886 levels	GCST90200551	9	129102748	T	C	8198	0.08	0.02	0.00	0.00	24.49
rs10838163	X-18886 levels	GCST90200551	11	43775878	G	A	8198	-0.11	0.02	0.00	0.01	42.71
rs18191086	X-18886 levels	GCST90200551	12	81659545	C	A	8198	0.40	0.08	0.00	0.00	27.47
9												
rs78813940	X-18886 levels	GCST90200551	15	53834097	T	C	8198	0.54	0.12	0.00	0.00	20.34
rs18751327	X-18886 levels	GCST90200551	16	84946715	T	C	8198	0.09	0.02	0.00	0.00	21.36
6												
rs72826199	X-18886 levels	GCST90200551	17	37235780	T	C	8198	-0.28	0.06	0.00	0.00	21.03
rs6111256	X-18886 levels	GCST90200551	20	16725901	A	T	8198	-0.09	0.02	0.00	0.00	20.58
rs71329849	X-18886 levels	GCST90200551	21	26641327	G	T	8198	0.15	0.03	0.00	0.00	20.56
rs2861789	X-18887 levels	GCST90200552	2	79254171	A	G	6790	-0.08	0.02	0.00	0.00	24.84
rs2244346	X-18887 levels	GCST90200552	2	127645125	T	A	6790	0.09	0.02	0.00	0.00	21.17

rs4552487	X-18887 levels	GCST90200552	4	79749967	A	G	6790	0.09	0.02	0.00	0.00	20.44
rs112789114	X-18887 levels	GCST90200552	4	106026569	G	A	6790	0.21	0.05	0.00	0.00	20.12
rs114507862	X-18887 levels	GCST90200552	5	6158209	C	T	6790	0.46	0.10	0.00	0.00	20.59
rs34760634	X-18887 levels	GCST90200552	5	45433054	T	A	6790	0.27	0.06	0.00	0.00	19.92
rs6912283	X-18887 levels	GCST90200552	6	43396756	A	G	6790	0.07	0.02	0.00	0.00	20.56
rs196612	X-18887 levels	GCST90200552	7	36298804	C	T	6790	-0.08	0.02	0.00	0.00	23.28
rs181992648	X-18887 levels	GCST90200552	8	19689361	T	A	6790	-0.31	0.07	0.00	0.00	19.71
rs12769135	X-18887 levels	GCST90200552	10	94211709	G	T	6790	-0.08	0.02	0.00	0.00	19.72
rs7948250	X-18887 levels	GCST90200552	11	88727999	C	T	6790	-0.20	0.04	0.00	0.00	23.05
rs76171884	X-18887 levels	GCST90200552	12	1154505	C	G	6790	0.18	0.04	0.00	0.00	20.36
rs145393182	X-18887 levels	GCST90200552	12	81198299	A	G	6790	-0.23	0.05	0.00	0.00	20.34
rs7313165	X-18887 levels	GCST90200552	12	128244001	A	G	6790	0.16	0.04	0.00	0.00	19.52
rs9594738	X-18887 levels	GCST90200552	13	42378009	T	C	6790	0.08	0.02	0.00	0.00	22.93
rs1596732	X-18887 levels	GCST90200552	14	48105854	T	C	6790	-0.15	0.03	0.00	0.00	21.09
rs62043341	X-18887 levels	GCST90200552	16	79723861	A	G	6790	-0.21	0.05	0.00	0.00	20.35
rs4503879	X-18887 levels	GCST90200552	18	56101384	C	G	6790	0.11	0.02	0.00	0.00	21.41
rs146711790	X-18887 levels	GCST90200552	21	34240460	G	A	6790	-0.14	0.03	0.00	0.00	20.74
rs61818717	X-17653 levels	GCST90200553	1	158303038	G	A	8025	-0.18	0.04	0.00	0.00	19.82
rs73920112	X-17653 levels	GCST90200553	2	23222861	C	A	8025	-0.15	0.03	0.00	0.00	22.09
rs139632519	X-17653 levels	GCST90200553	2	36774994	T	C	8025	-0.45	0.10	0.00	0.00	21.20
rs55803818	X-17653 levels	GCST90200553	2	230593331	G	T	8025	-0.08	0.02	0.00	0.00	19.65
rs389595	X-17653 levels	GCST90200553	3	9213354	G	C	8025	-0.39	0.08	0.00	0.00	21.86
rs150863490	X-17653 levels	GCST90200553	4	20767029	G	C	8025	0.22	0.05	0.00	0.00	21.06
rs76655226	X-17653 levels	GCST90200553	5	138867027	T	A	8025	-0.10	0.02	0.00	0.00	19.85
rs7736918	X-17653 levels	GCST90200553	5	170431822	G	A	8025	-0.07	0.02	0.00	0.00	20.56
rs112973650	X-17653 levels	GCST90200553	6	115622019	C	T	8025	-0.23	0.05	0.00	0.00	22.79
rs117463332	X-17653 levels	GCST90200553	8	20897934	C	G	8025	-0.24	0.05	0.00	0.00	19.69
rs144658967	X-17653 levels	GCST90200553	8	25726054	G	T	8025	-0.35	0.07	0.00	0.00	27.47
rs17484618	X-17653 levels	GCST90200553	8	118187600	G	A	8025	-0.27	0.06	0.00	0.00	22.58
rs6990723	X-17653 levels	GCST90200553	8	138631599	A	G	8025	0.18	0.04	0.00	0.00	19.65
rs61854089	X-17653 levels	GCST90200553	10	54745097	T	A	8025	-0.24	0.05	0.00	0.00	23.77
rs144599632	X-17653 levels	GCST90200553	10	94847919	G	C	8025	0.20	0.03	0.00	0.00	38.54
rs140385458	X-17653 levels	GCST90200553	10	131274369	G	C	8025	-0.32	0.07	0.00	0.00	20.06
rs12276109	X-17653 levels	GCST90200553	11	33067041	T	C	8025	-0.07	0.02	0.00	0.00	20.65
rs4937396	X-17653 levels	GCST90200553	11	128946755	C	T	8025	-0.08	0.02	0.00	0.00	22.70
rs4762697	X-17653 levels	GCST90200553	12	21162039	T	A	8025	0.10	0.02	0.00	0.00	33.36
rs4149056	X-17653 levels	GCST90200553	12	21178615	C	T	8025	0.31	0.02	0.00	0.03	219.57
rs78984577	X-17653 levels	GCST90200553	12	45920705	C	T	8025	0.23	0.05	0.00	0.00	22.15
rs61972981	X-17653 levels	GCST90200553	14	33583087	C	T	8025	0.12	0.03	0.00	0.00	20.73
rs72738356	X-17653 levels	GCST90200553	14	73559459	A	G	8025	0.18	0.02	0.00	0.01	97.99
rs111658324	X-17653 levels	GCST90200553	16	57885224	T	C	8025	-0.32	0.07	0.00	0.00	21.80
rs9894291	X-17653 levels	GCST90200553	17	75841938	A	G	8025	-0.08	0.02	0.00	0.00	26.51
rs147086478	X-17653 levels	GCST90200553	20	50960993	T	C	8025	-0.28	0.06	0.00	0.00	20.39
rs12084189	X-17346 levels	GCST90200554	1	18775111	G	T	6459	0.21	0.05	0.00	0.00	21.58
rs75317356	X-17346 levels	GCST90200554	2	176506649	G	A	6459	0.18	0.04	0.00	0.00	20.79
rs149866973	X-17346 levels	GCST90200554	2	219834101	T	C	6459	-0.57	0.12	0.00	0.00	21.45
rs188797466	X-17346 levels	GCST90200554	3	25612133	C	G	6459	0.53	0.12	0.00	0.00	20.62
rs13065055	X-17346 levels	GCST90200554	3	41900935	G	A	6459	0.18	0.04	0.00	0.00	20.49
rs565457794	X-17346 levels	GCST90200554	3	180056214	C	A	6459	-0.77	0.17	0.00	0.00	20.87
rs79613831	X-17346 levels	GCST90200554	4	25056523	T	G	6459	0.37	0.08	0.00	0.00	22.57
rs11959466	X-17346 levels	GCST90200554	5	42803722	T	C	6459	-0.17	0.04	0.00	0.00	20.62
rs551345931	X-17346 levels	GCST90200554	5	92076747	T	C	6459	0.37	0.08	0.00	0.00	23.90
rs17056397	X-17346 levels	GCST90200554	6	128724059	T	C	6459	-0.18	0.04	0.00	0.00	20.81
rs17301525	X-17346 levels	GCST90200554	8	36473927	T	G	6459	0.14	0.03	0.00	0.00	22.44
rs60199364	X-17346 levels	GCST90200554	9	76325550	G	T	6459	0.09	0.02	0.00	0.00	20.17
rs58331764	X-17346 levels	GCST90200554	9	101969494	G	A	6459	0.22	0.05	0.00	0.00	20.05

rs11257268	X-17346 levels	GCST90200554	10	11707985	G	A	6459	0.16	0.03	0.00	0.00	22.39
rs11016590	X-17346 levels	GCST90200554	10	128988312	C	T	6459	-0.10	0.02	0.00	0.00	20.38
rs10836397	X-17346 levels	GCST90200554	11	4636838	G	A	6459	0.08	0.02	0.00	0.00	20.84
rs71476982	X-17346 levels	GCST90200554	11	111170138	A	G	6459	-0.29	0.06	0.00	0.00	21.52
rs145136378	X-17346 levels	GCST90200554	11	127526929	G	A	6459	0.34	0.08	0.00	0.00	19.80
rs1535573	X-17346 levels	GCST90200554	14	57602334	G	A	6459	-0.09	0.02	0.00	0.00	19.69
rs117638954	X-17346 levels	GCST90200554	15	44237315	T	C	6459	-0.25	0.06	0.00	0.00	20.06
rs144422278	X-17346 levels	GCST90200554	16	18908228	T	C	6459	-0.37	0.08	0.00	0.00	21.99
rs34132524	X-17346 levels	GCST90200554	16	67875247	A	G	6459	0.16	0.03	0.00	0.00	23.48
rs8063078	X-17346 levels	GCST90200554	16	85638818	T	C	6459	-0.11	0.03	0.00	0.00	19.90
rs1699584	X-17346 levels	GCST90200554	17	74584799	A	G	6459	0.10	0.02	0.00	0.00	22.48
rs62129536	X-17346 levels	GCST90200554	19	2031710	A	G	6459	-0.09	0.02	0.00	0.00	23.11
rs28456686	X-17346 levels	GCST90200554	19	55565792	A	G	6459	0.15	0.03	0.00	0.00	20.32
rs4813714	X-17346 levels	GCST90200554	20	4754399	A	G	6459	-0.09	0.02	0.00	0.00	20.15
rs9984485	X-17346 levels	GCST90200554	21	31450097	G	T	6459	-0.09	0.02	0.00	0.00	23.55
rs11718962	X-17690 levels	GCST90200555	3	56249636	A	G	7043	-0.08	0.02	0.00	0.00	21.35
rs1491598	X-17690 levels	GCST90200555	3	70589414	G	A	7043	0.11	0.02	0.00	0.00	30.67
rs12495944	X-17690 levels	GCST90200555	3	72560486	T	C	7043	0.13	0.03	0.00	0.00	21.83
rs9812699	X-17690 levels	GCST90200555	3	95240766	A	G	7043	-0.09	0.02	0.00	0.00	23.40
rs58222759	X-17690 levels	GCST90200555	3	160254044	T	C	7043	-0.11	0.02	0.00	0.00	22.55
rs115611978	X-17690 levels	GCST90200555	4	136195698	A	G	7043	0.28	0.06	0.00	0.00	24.87
rs7674382	X-17690 levels	GCST90200555	4	148602771	G	A	7043	-0.08	0.02	0.00	0.00	20.77
rs1042184	X-17690 levels	GCST90200555	5	140346376	A	G	7043	-0.15	0.03	0.00	0.00	22.54
rs365782	X-17690 levels	GCST90200555	5	157152440	G	A	7043	0.08	0.02	0.00	0.00	19.75
rs2096386	X-17690 levels	GCST90200555	6	25787589	A	G	7043	-0.08	0.02	0.00	0.00	24.50
rs1165191	X-17690 levels	GCST90200555	6	25847619	T	A	7043	0.22	0.02	0.00	0.02	135.35
rs17179080	X-17690 levels	GCST90200555	6	29830256	A	G	7043	0.40	0.08	0.00	0.00	28.01
rs9384348	X-17690 levels	GCST90200555	6	155619422	G	C	7043	0.08	0.02	0.00	0.00	19.86
rs16939136	X-17690 levels	GCST90200555	8	75705060	A	T	7043	-0.12	0.03	0.00	0.00	21.48
rs35845312	X-17690 levels	GCST90200555	9	2620592	A	T	7043	0.27	0.06	0.00	0.00	19.89
rs3012475	X-17690 levels	GCST90200555	10	16988730	G	A	7043	-0.07	0.02	0.00	0.00	20.08
rs150849281	X-17690 levels	GCST90200555	10	101841954	G	A	7043	-0.20	0.04	0.00	0.00	22.97
rs10896119	X-17690 levels	GCST90200555	11	66403969	A	C	7043	-0.14	0.03	0.00	0.00	21.90
rs17339581	X-17690 levels	GCST90200555	11	80764948	G	A	7043	0.27	0.06	0.00	0.00	22.63
rs34246922	X-17690 levels	GCST90200555	11	92298296	G	A	7043	-0.10	0.02	0.00	0.00	22.06
rs144616158	X-17690 levels	GCST90200555	12	21740037	G	A	7043	0.33	0.07	0.00	0.00	22.03
rs10862970	X-17690 levels	GCST90200555	12	85335961	T	C	7043	0.08	0.02	0.00	0.00	19.74
rs17541693	X-17690 levels	GCST90200555	12	102705802	A	G	7043	0.14	0.03	0.00	0.00	21.20
rs117463895	X-17690 levels	GCST90200555	12	128651265	A	G	7043	-0.46	0.09	0.00	0.00	23.83
rs4389069	X-17690 levels	GCST90200555	14	28498522	A	G	7043	-0.08	0.02	0.00	0.00	20.66
rs62009076	X-17690 levels	GCST90200555	15	61874276	C	T	7043	0.13	0.03	0.00	0.00	21.58
rs9946406	X-17690 levels	GCST90200555	18	40288238	A	C	7043	-0.18	0.04	0.00	0.00	24.87
rs10418839	X-17690 levels	GCST90200555	19	7790895	A	G	7043	0.09	0.02	0.00	0.00	23.72
rs13340087	X-17690 levels	GCST90200555	22	17096397	C	T	7043	-0.13	0.03	0.00	0.00	19.63
rs11209549	X-18345 levels	GCST90200556	1	69819680	C	T	5476	0.11	0.03	0.00	0.00	19.64
rs17592348	X-18345 levels	GCST90200556	1	186883519	G	T	5476	0.30	0.07	0.00	0.00	19.59
rs34349246	X-18345 levels	GCST90200556	1	207472818	T	C	5476	0.35	0.08	0.00	0.00	22.07
rs17009440	X-18345 levels	GCST90200556	3	21744726	T	C	5476	0.16	0.03	0.00	0.00	23.45
rs145566922	X-18345 levels	GCST90200556	3	58734247	T	C	5476	0.47	0.10	0.00	0.00	20.58
rs148027152	X-18345 levels	GCST90200556	4	59688490	C	T	5476	0.37	0.08	0.00	0.00	20.39
rs6837139	X-18345 levels	GCST90200556	4	93732543	C	T	5476	-0.09	0.02	0.00	0.00	22.14
rs148075359	X-18345 levels	GCST90200556	4	141813543	A	G	5476	0.46	0.10	0.00	0.00	20.15
rs6832922	X-18345 levels	GCST90200556	4	164781769	G	T	5476	0.28	0.06	0.00	0.00	20.92
rs187024611	X-18345 levels	GCST90200556	5	165593257	T	C	5476	0.37	0.08	0.00	0.00	22.14
rs9313444	X-18345 levels	GCST90200556	5	169130828	A	G	5476	0.32	0.07	0.00	0.00	19.78
rs79549818	X-18345 levels	GCST90200556	6	93111929	C	T	5476	0.19	0.04	0.00	0.00	20.56
rs6960890	X-18345 levels	GCST90200556	7	6947902	G	A	5476	-0.12	0.02	0.00	0.00	23.73
rs6464303	X-18345 levels	GCST90200556	7	153076730	T	C	5476	0.08	0.02	0.00	0.00	19.73
rs180967335	X-18345 levels	GCST90200556	8	57310075	T	C	5476	0.41	0.09	0.00	0.00	21.36
rs76316062	X-18345 levels	GCST90200556	10	86241313	T	C	5476	-0.19	0.04	0.00	0.00	20.49
rs181900682	X-18345 levels	GCST90200556	11	79864822	C	T	5476	0.31	0.07	0.00	0.00	20.30

rs11823116	X-18345 levels	GCST90200556	11	106725590	G	T	5476	-0.09	0.02	0.00	0.00	20.92
rs12582126	X-18345 levels	GCST90200556	12	535560	A	G	5476	0.10	0.02	0.00	0.00	19.76
rs5745822	X-18345 levels	GCST90200556	12	118021464	T	C	5476	0.59	0.11	0.00	0.00	27.07
rs756750	X-18345 levels	GCST90200556	12	119557398	T	C	5476	-0.11	0.02	0.00	0.00	20.80
rs14416009	X-18345 levels	GCST90200556	13	69441128	T	C	5476	0.56	0.12	0.00	0.00	20.25
rs78991509	X-18345 levels	GCST90200556	13	103330971	C	T	5476	0.26	0.06	0.00	0.00	19.67
rs73379225	X-18345 levels	GCST90200556	15	31215477	G	C	5476	0.37	0.08	0.00	0.00	21.57
rs11774639	X-18345 levels	GCST90200556	16	13193925	T	A	5476	0.51	0.09	0.00	0.01	29.98
rs14242843	X-18345 levels	GCST90200556	16	71943885	A	T	5476	-0.31	0.07	0.00	0.00	19.85
rs14608349	X-18345 levels	GCST90200556	17	73002649	A	C	5476	0.72	0.14	0.00	0.00	25.51
rs76554863	X-18345 levels	GCST90200556	17	73910037	C	T	5476	-0.25	0.06	0.00	0.00	19.81
rs11663294	X-18345 levels	GCST90200556	18	8603448	C	T	5476	0.09	0.02	0.00	0.00	21.60
rs74382050	X-18345 levels	GCST90200556	18	74225182	A	G	5476	-0.25	0.06	0.00	0.00	20.11
rs1078959	X-18345 levels	GCST90200556	20	59409325	A	G	5476	-0.10	0.02	0.00	0.00	20.87
rs79084668	X-18345 levels	GCST90200556	22	23705012	T	C	5476	0.34	0.07	0.00	0.00	24.92
rs71514011	X-17685 levels	GCST90200557	1	105462540	T	C	7327	-0.34	0.08	0.00	0.00	19.66
rs11559862	X-17685 levels	GCST90200557	2	898092	T	C	7327	0.25	0.05	0.00	0.00	22.65
rs317606	X-17685 levels	GCST90200557	3	4034049	C	T	7327	0.07	0.02	0.00	0.00	19.90
rs1027238	X-17685 levels	GCST90200557	3	68280902	T	C	7327	0.08	0.02	0.00	0.00	19.96
rs2471342	X-17685 levels	GCST90200557	4	3041693	T	C	7327	-0.15	0.03	0.00	0.00	25.70
rs14712898	X-17685 levels	GCST90200557	4	58295746	G	C	7327	0.44	0.10	0.00	0.00	20.88
rs78515166	X-17685 levels	GCST90200557	4	142974434	A	G	7327	-0.18	0.04	0.00	0.00	20.71
rs73284655	X-17685 levels	GCST90200557	5	121587006	G	A	7327	-0.17	0.03	0.00	0.00	25.56
rs1165150	X-17685 levels	GCST90200557	6	25841804	T	C	7327	-0.09	0.02	0.00	0.00	32.59
rs11660378	X-17685 levels	GCST90200557	6	29779958	A	G	7327	-0.47	0.09	0.00	0.00	27.45
rs77061910	X-17685 levels	GCST90200557	6	71428421	G	C	7327	0.31	0.07	0.00	0.00	20.15
rs55668849	X-17685 levels	GCST90200557	7	13468242	G	A	7327	-0.21	0.04	0.00	0.00	23.24
rs77228784	X-17685 levels	GCST90200557	8	23281303	G	T	7327	0.25	0.06	0.00	0.00	21.31
rs71489637	X-17685 levels	GCST90200557	10	28905428	C	T	7327	0.12	0.03	0.00	0.00	19.53
rs34720103	X-17685 levels	GCST90200557	14	21091152	A	G	7327	-0.18	0.04	0.00	0.00	22.54
rs2085270	X-17685 levels	GCST90200557	15	92516396	C	A	7327	-0.07	0.02	0.00	0.00	20.04
rs77694059	X-17685 levels	GCST90200557	16	25296520	T	G	7327	-0.17	0.04	0.00	0.00	21.66
rs62084944	X-17685 levels	GCST90200557	17	74829732	C	T	7327	-0.48	0.09	0.00	0.00	27.15
rs7239618	X-17685 levels	GCST90200557	18	74278135	T	C	7327	-0.09	0.02	0.00	0.00	21.72
rs62115723	X-17685 levels	GCST90200557	19	43467282	G	C	7327	-0.26	0.05	0.00	0.00	24.62
rs11312556	X-17685 levels	GCST90200557	19	47092874	C	T	7327	-0.18	0.04	0.00	0.00	20.67
rs11815162	X-17685 levels	GCST90200557	21	30099048	T	C	7327	-0.48	0.11	0.00	0.00	20.52
rs4284207	X-18888 levels	GCST90200558	1	46918357	C	T	6974	0.11	0.02	0.00	0.00	31.48
rs14460498	X-18888 levels	GCST90200558	1	58338982	C	T	6974	-0.39	0.09	0.00	0.00	19.57
rs11803052	X-18888 levels	GCST90200558	1	73967272	G	A	6974	-0.13	0.03	0.00	0.00	20.09
rs15015869	X-18888 levels	GCST90200558	1	112390223	G	A	6974	-0.21	0.05	0.00	0.00	19.61
rs28415528	X-18888 levels	GCST90200558	1	151907285	A	G	6974	-0.12	0.02	0.00	0.01	47.22
rs11473445	X-18888 levels	GCST90200558	1	242646347	T	C	6974	0.16	0.04	0.00	0.00	20.30
rs79675564	X-18888 levels	GCST90200558	2	210422172	A	C	6974	0.14	0.03	0.00	0.00	20.24
rs75985732	X-18888 levels	GCST90200558	3	32573927	G	C	6974	0.22	0.04	0.00	0.00	30.86
rs11521690	X-18888 levels	GCST90200558	3	143927320	C	T	6974	0.52	0.12	0.00	0.00	19.95
rs4688978	X-18888 levels	GCST90200558	4	6232163	A	G	6974	-0.08	0.02	0.00	0.00	23.16
rs11410210	X-18888 levels	GCST90200558	5	21696472	A	G	6974	-0.15	0.03	0.00	0.00	20.42
rs72758408	X-18888 levels	GCST90200558	5	30563907	G	A	6974	-0.20	0.04	0.00	0.00	19.74
rs10081326	X-18888 levels	GCST90200558	7	39247823	A	G	6974	0.08	0.02	0.00	0.00	19.66
rs14462139	X-18888 levels	GCST90200558	7	92477673	A	G	6974	0.30	0.06	0.00	0.00	21.86
rs4738877	X-18888 levels	GCST90200558	8	61241698	T	G	6974	0.22	0.04	0.00	0.00	23.81
rs5005341	X-18888 levels	GCST90200558	10	70995327	C	G	6974	-0.08	0.02	0.00	0.00	19.85
rs13969864	X-18888 levels	GCST90200558	10	86028094	T	C	6974	0.41	0.09	0.00	0.00	20.12
rs11700168	X-18888 levels	GCST90200558	11	68489504	G	C	6974	0.31	0.07	0.00	0.00	20.87
rs1825945	X-18888 levels	GCST90200558	12	99867420	T	A	6974	-0.08	0.02	0.00	0.00	22.86
rs11850426	X-18888 levels	GCST90200558	14	82406168	T	A	6974	-0.10	0.02	0.00	0.00	20.76

rs8017983	X-18888 levels	GCST90200558	14	100761252	T	C	6974	0.09	0.02	0.00	0.00	23.63
rs146330218	X-18888 levels	GCST90200558	15	29311896	G	A	6974	-0.35	0.07	0.00	0.00	22.07
rs55747820	X-18888 levels	GCST90200558	15	73676787	A	G	6974	0.23	0.05	0.00	0.00	19.76
rs139264571	X-18888 levels	GCST90200558	17	55039953	G	T	6974	0.50	0.11	0.00	0.00	21.23
rs560834456	X-18888 levels	GCST90200558	17	64802000	C	T	6974	0.36	0.08	0.00	0.00	20.14
rs117918759	X-18888 levels	GCST90200558	18	25513421	T	C	6974	0.36	0.07	0.00	0.00	28.26
rs185348765	X-18888 levels	GCST90200558	19	27283159	T	C	6974	0.81	0.15	0.00	0.00	28.04
rs12481288	X-18888 levels	GCST90200558	20	17354491	T	C	6974	0.09	0.02	0.00	0.00	25.17
rs2209162	X-18901 levels	GCST90200559	1	4873464	A	G	8128	0.08	0.02	0.00	0.00	20.57
rs145909089	X-18901 levels	GCST90200559	1	153288840	T	C	8128	0.44	0.09	0.00	0.00	23.18
rs35809007	X-18901 levels	GCST90200559	2	46792382	A	G	8128	0.08	0.02	0.00	0.00	23.29
rs140994924	X-18901 levels	GCST90200559	2	104804258	A	C	8128	0.35	0.08	0.00	0.00	21.05
rs72551330	X-18901 levels	GCST90200559	2	233672032	C	T	8128	0.34	0.06	0.00	0.00	29.42
rs17022796	X-18901 levels	GCST90200559	3	29171109	A	G	8128	0.08	0.02	0.00	0.00	19.82
rs112059398	X-18901 levels	GCST90200559	3	148944225	A	G	8128	0.17	0.04	0.00	0.00	21.91
rs4680013	X-18901 levels	GCST90200559	3	152901918	C	T	8128	0.10	0.02	0.00	0.00	22.35
rs28507255	X-18901 levels	GCST90200559	4	17469701	G	T	8128	-0.07	0.02	0.00	0.00	19.96
rs76476319	X-18901 levels	GCST90200559	4	29832490	A	G	8128	0.36	0.08	0.00	0.00	19.98
rs139567251	X-18901 levels	GCST90200559	4	40383970	T	C	8128	0.38	0.07	0.00	0.00	25.62
rs28432331	X-18901 levels	GCST90200559	4	70590244	C	T	8128	0.07	0.02	0.00	0.00	20.98
rs72801077	X-18901 levels	GCST90200559	5	143354220	C	T	8128	0.24	0.05	0.00	0.00	19.95
rs138612141	X-18901 levels	GCST90200559	5	175588031	A	G	8128	-0.23	0.05	0.00	0.00	22.93
rs62402572	X-18901 levels	GCST90200559	6	19541019	T	C	8128	-0.07	0.02	0.00	0.00	20.39
rs117573557	X-18901 levels	GCST90200559	6	105454174	A	G	8128	0.33	0.06	0.00	0.00	27.95
rs1765654	X-18901 levels	GCST90200559	6	124647096	A	G	8128	0.07	0.02	0.00	0.00	20.83
rs1873176	X-18901 levels	GCST90200559	6	152369424	A	G	8128	0.07	0.02	0.00	0.00	21.03
rs117623176	X-18901 levels	GCST90200559	7	12237206	T	C	8128	0.28	0.06	0.00	0.00	20.30
rs117805609	X-18901 levels	GCST90200559	7	64329308	G	A	8128	0.17	0.04	0.00	0.00	19.69
rs148116449	X-18901 levels	GCST90200559	8	19517322	A	C	8128	0.25	0.06	0.00	0.00	20.22
rs183900344	X-18901 levels	GCST90200559	8	84544343	A	T	8128	0.43	0.10	0.00	0.00	20.62
rs77182952	X-18901 levels	GCST90200559	9	105794512	A	G	8128	-0.32	0.07	0.00	0.00	20.54
rs140808895	X-18901 levels	GCST90200559	10	18188831	T	C	8128	-0.20	0.04	0.00	0.00	22.19
rs80159642	X-18901 levels	GCST90200559	10	94960089	T	A	8128	0.10	0.02	0.00	0.00	28.97
rs140433931	X-18901 levels	GCST90200559	11	111330939	G	C	8128	0.30	0.07	0.00	0.00	20.80
rs2199680	X-18901 levels	GCST90200559	12	21262562	T	A	8128	0.09	0.02	0.00	0.00	20.41
rs9646149	X-18901 levels	GCST90200559	14	22831183	T	G	8128	0.08	0.02	0.00	0.00	22.65
rs117539781	X-18901 levels	GCST90200559	15	84825646	C	G	8128	0.36	0.08	0.00	0.00	21.62
rs2198555	X-18901 levels	GCST90200559	18	1737903	A	G	8128	0.08	0.02	0.00	0.00	19.65
rs12756428	X-17351 levels	GCST90200560	1	3967395	A	G	7281	0.22	0.04	0.00	0.00	25.09
rs6542006	X-17351 levels	GCST90200560	2	125576950	A	G	7281	0.10	0.02	0.00	0.00	24.13
rs2278544	X-17351 levels	GCST90200560	2	135788540	G	A	7281	-0.10	0.02	0.00	0.00	26.51
rs11902640	X-17351 levels	GCST90200560	2	173587378	A	C	7281	-0.20	0.04	0.00	0.00	22.66
rs17272614	X-17351 levels	GCST90200560	3	16628765	T	C	7281	-0.10	0.02	0.00	0.00	22.66
rs2605436	X-17351 levels	GCST90200560	3	59758937	T	A	7281	-0.14	0.03	0.00	0.00	20.98
rs28622408	X-17351 levels	GCST90200560	4	6356484	C	T	7281	-0.09	0.02	0.00	0.00	27.57
rs77581031	X-17351 levels	GCST90200560	5	3339442	A	G	7281	-0.20	0.05	0.00	0.00	19.73
rs12656969	X-17351 levels	GCST90200560	5	56870368	A	G	7281	0.16	0.04	0.00	0.00	19.64
rs77801681	X-17351 levels	GCST90200560	5	172157092	T	A	7281	0.23	0.05	0.00	0.00	20.83
rs9349816	X-17351 levels	GCST90200560	6	56311961	A	G	7281	0.08	0.02	0.00	0.00	19.84
rs17375582	X-17351 levels	GCST90200560	8	27391468	C	G	7281	-0.13	0.03	0.00	0.00	22.76
rs10886941	X-17351 levels	GCST90200560	10	83692337	C	T	7281	0.12	0.02	0.00	0.00	24.22
rs6571599	X-17351 levels	GCST90200560	14	33481084	G	A	7281	-0.18	0.04	0.00	0.00	20.19
rs34859939	X-17351 levels	GCST90200560	16	20502995	C	T	7281	-0.13	0.03	0.00	0.00	21.85
rs67959066	X-17351 levels	GCST90200560	17	20619222	A	G	7281	0.09	0.02	0.00	0.00	21.71
rs76573302	X-17351 levels	GCST90200560	18	3596820	A	T	7281	-0.14	0.03	0.00	0.00	23.24

rs138584683	X-17351 levels	GCST90200560	20	50549002	A	G	7281	-0.24	0.05	0.00	0.00	21.50
rs78847031	X-18779 levels	GCST90200561	1	53489615	A	G	8144	-0.32	0.07	0.00	0.00	20.54
rs115254145	X-18779 levels	GCST90200561	1	234645123	A	G	8144	-0.37	0.08	0.00	0.00	20.35
rs55690911	X-18779 levels	GCST90200561	2	111480035	T	C	8144	0.23	0.05	0.00	0.00	20.61
rs114732350	X-18779 levels	GCST90200561	3	133667473	G	A	8144	-0.24	0.05	0.00	0.00	20.75
rs6818526	X-18779 levels	GCST90200561	4	181384094	C	A	8144	0.08	0.02	0.00	0.00	22.13
rs853354	X-18779 levels	GCST90200561	6	14170127	G	A	8144	0.08	0.02	0.00	0.00	19.87
rs783375	X-18779 levels	GCST90200561	6	117119828	A	C	8144	0.09	0.02	0.00	0.00	25.05
rs117014828	X-18779 levels	GCST90200561	6	165526590	A	C	8144	-0.41	0.09	0.00	0.00	20.47
rs139644600	X-18779 levels	GCST90200561	7	37870386	A	C	8144	-0.22	0.04	0.00	0.00	23.75
rs17457063	X-18779 levels	GCST90200561	9	129306258	T	C	8144	-0.14	0.03	0.00	0.00	19.86
rs2633322	X-18779 levels	GCST90200561	10	73934174	C	T	8144	0.08	0.02	0.00	0.00	19.94
rs145918498	X-18779 levels	GCST90200561	10	126802042	C	T	8144	0.26	0.06	0.00	0.00	19.75
rs34499183	X-18779 levels	GCST90200561	11	1057596	C	G	8144	0.13	0.03	0.00	0.00	20.50
rs184257876	X-18779 levels	GCST90200561	12	20260658	T	C	8144	0.13	0.03	0.00	0.00	19.75
rs191076878	X-18779 levels	GCST90200561	16	59963159	C	T	8144	-0.22	0.04	0.00	0.00	25.19
rs113105567	X-18779 levels	GCST90200561	16	69005558	A	G	8144	-0.32	0.07	0.00	0.00	20.13
rs17651851	X-18779 levels	GCST90200561	17	36994380	G	T	8144	0.15	0.03	0.00	0.00	20.44
rs139155349	X-18779 levels	GCST90200561	19	57320691	G	C	8144	0.23	0.05	0.00	0.00	20.04
rs9976236	X-18779 levels	GCST90200561	21	16377743	G	A	8144	-0.10	0.02	0.00	0.00	20.47
rs117675268	X-18779 levels	GCST90200561	22	50528256	T	C	8144	-0.31	0.07	0.00	0.00	20.84
rs4563176	X-21286 levels	GCST90200562	2	25303852	C	T	8231	0.16	0.03	0.00	0.00	20.87
rs35581429	X-21286 levels	GCST90200562	2	151253584	T	C	8231	0.09	0.02	0.00	0.00	22.77
rs150886675	X-21286 levels	GCST90200562	2	226435810	A	G	8231	-0.44	0.09	0.00	0.00	21.88
rs146156052	X-21286 levels	GCST90200562	3	6034831	T	G	8231	-0.70	0.16	0.00	0.00	20.15
rs36124964	X-21286 levels	GCST90200562	4	68488644	C	T	8231	-0.09	0.02	0.00	0.00	31.50
rs75187800	X-21286 levels	GCST90200562	4	68670996	A	G	8231	-0.09	0.02	0.00	0.00	27.51
rs11736884	X-21286 levels	GCST90200562	4	123849984	C	T	8231	0.11	0.02	0.00	0.00	20.88
rs2247546	X-21286 levels	GCST90200562	5	90858098	A	G	8231	-0.07	0.02	0.00	0.00	23.82
rs57477573	X-21286 levels	GCST90200562	5	172551228	C	G	8231	0.12	0.03	0.00	0.00	21.14
rs2608622	X-21286 levels	GCST90200562	6	52749133	T	C	8231	0.09	0.02	0.00	0.00	29.25
rs9459715	X-21286 levels	GCST90200562	6	166687837	G	T	8231	-0.13	0.03	0.00	0.00	24.83
rs12670403	X-21286 levels	GCST90200562	7	17269655	A	C	8231	-0.09	0.02	0.00	0.00	37.23
rs34442937	X-21286 levels	GCST90200562	7	48839745	T	C	8231	0.14	0.03	0.00	0.00	20.18
rs12533120	X-21286 levels	GCST90200562	7	76043393	G	A	8231	0.08	0.02	0.00	0.00	25.66
rs7785642	X-21286 levels	GCST90200562	7	137776835	A	C	8231	0.08	0.02	0.00	0.00	25.36
rs72770775	X-21286 levels	GCST90200562	9	131391220	A	G	8231	-0.14	0.03	0.00	0.00	19.83
rs12247258	X-21286 levels	GCST90200562	10	22391479	C	T	8231	-0.30	0.07	0.00	0.00	20.80
rs182484211	X-21286 levels	GCST90200562	11	87949798	T	C	8231	-0.21	0.05	0.00	0.00	19.54
rs12827965	X-21286 levels	GCST90200562	12	87161650	A	C	8231	-0.08	0.02	0.00	0.00	22.39
rs2472297	X-21286 levels	GCST90200562	15	74735539	T	C	8231	-0.10	0.02	0.00	0.00	34.52
rs1112669	X-21286 levels	GCST90200562	15	94501748	C	G	8231	0.09	0.02	0.00	0.00	20.80
rs2335454	X-21286 levels	GCST90200562	16	2778156	C	G	8231	0.08	0.02	0.00	0.00	20.65
rs1362554	X-21286 levels	GCST90200562	16	52406702	T	G	8231	-0.13	0.03	0.00	0.00	20.51
rs11652572	X-21286 levels	GCST90200562	17	4149155	G	T	8231	-0.23	0.05	0.00	0.00	19.76
rs10852837	X-21286 levels	GCST90200562	17	16880475	G	C	8231	0.07	0.02	0.00	0.00	21.41
rs58882737	X-21286 levels	GCST90200562	17	49336310	A	G	8231	0.08	0.02	0.00	0.00	20.22
rs571905	X-21286 levels	GCST90200562	17	74909375	G	A	8231	-0.22	0.05	0.00	0.00	21.73
rs56113850	X-21286 levels	GCST90200562	19	40847202	C	T	8231	-0.14	0.02	0.00	0.01	81.75
rs9977504	X-21286 levels	GCST90200562	21	36740480	C	G	8231	-0.07	0.02	0.00	0.00	19.88
rs11898823	X-21355 levels	GCST90200563	2	15745965	T	A	8257	0.15	0.03	0.00	0.00	21.09
rs114396557	X-21355 levels	GCST90200563	2	19547583	G	T	8257	-0.27	0.06	0.00	0.00	20.02
rs74457103	X-21355 levels	GCST90200563	2	128441569	A	G	8257	0.15	0.03	0.00	0.00	19.61
rs35994	X-21355 levels	GCST90200563	3	74216102	A	C	8257	-0.24	0.05	0.00	0.00	24.99
rs76326750	X-21355 levels	GCST90200563	3	195136249	T	C	8257	-0.23	0.05	0.00	0.00	19.69
rs193105685	X-21355 levels	GCST90200563	7	65723290	A	G	8257	0.25	0.06	0.00	0.00	19.78
rs138671103	X-21355 levels	GCST90200563	7	108459492	C	T	8257	0.36	0.08	0.00	0.00	20.36

rs77377397	X-21355 levels	GCST90200563	8	127471205	G	A	8257	0.18	0.04	0.00	0.00	25.64
rs16904728	X-21355 levels	GCST90200563	8	132728653	G	A	8257	-1.48	0.33	0.00	0.00	19.83
rs378000	X-21355 levels	GCST90200563	9	91096106	T	C	8257	0.18	0.04	0.00	0.00	20.24
rs4749835	X-21355 levels	GCST90200563	10	9073445	C	T	8257	-0.52	0.12	0.00	0.00	19.59
rs10833304	X-21355 levels	GCST90200563	11	20346332	G	A	8257	-0.07	0.02	0.00	0.00	20.30
rs78652012	X-21355 levels	GCST90200563	13	27541440	A	G	8257	-0.27	0.06	0.00	0.00	19.87
rs12450388	X-21355 levels	GCST90200563	17	40070602	C	T	8257	0.08	0.02	0.00	0.00	22.09
rs76275691	X-21355 levels	GCST90200563	18	54829059	C	T	8257	0.17	0.04	0.00	0.00	20.17
rs77326992	X-21355 levels	GCST90200563	20	1003960	A	G	8257	0.37	0.07	0.00	0.00	25.50
rs56263606	X-21355 levels	GCST90200563	20	24374458	T	C	8257	-0.12	0.03	0.00	0.00	21.16
rs11211387	X-21319 levels	GCST90200564	1	46857650	C	G	8109	0.12	0.02	0.00	0.00	24.46
rs11455925	X-21319 levels	GCST90200564	1	208047440	A	T	8109	0.16	0.04	0.00	0.00	20.90
rs11336640	X-21319 levels	GCST90200564	2	167719918	T	C	8109	-0.11	0.02	0.00	0.00	22.06
rs79658827	X-21319 levels	GCST90200564	3	109970279	T	C	8109	0.22	0.05	0.00	0.00	19.55
rs710582	X-21319 levels	GCST90200564	3	190094092	A	T	8109	0.30	0.07	0.00	0.00	19.71
rs12498431	X-21319 levels	GCST90200564	4	13745449	T	C	8109	0.08	0.02	0.00	0.00	19.57
rs1960773	X-21319 levels	GCST90200564	4	68671436	C	A	8109	-0.09	0.02	0.00	0.00	33.30
rs2589658	X-21319 levels	GCST90200564	5	10500964	A	C	8109	0.07	0.02	0.00	0.00	20.81
rs388891	X-21319 levels	GCST90200564	5	132365102	G	C	8109	0.08	0.02	0.00	0.00	20.26
rs11749913	X-21319 levels	GCST90200564	5	150103864	C	G	8109	-0.08	0.02	0.00	0.00	24.95
rs3024405	X-21319 levels	GCST90200564	6	6223749	A	T	8109	-0.08	0.02	0.00	0.00	21.04
rs7385111	X-21319 levels	GCST90200564	7	132017199	A	C	8109	-0.08	0.02	0.00	0.00	19.88
rs4100277	X-21319 levels	GCST90200564	11	55303394	A	G	8109	0.08	0.02	0.00	0.00	19.68
rs12585350	X-21319 levels	GCST90200564	13	104450109	T	C	8109	-0.14	0.03	0.00	0.00	23.11
rs75088464	X-21319 levels	GCST90200564	14	47785275	G	C	8109	-0.26	0.06	0.00	0.00	21.63
rs2188761	X-21319 levels	GCST90200564	16	20498374	C	T	8109	0.15	0.02	0.00	0.01	57.59
rs79637918	X-21258 levels	GCST90200565	1	46826222	C	T	8198	-0.08	0.02	0.00	0.00	23.12
rs14726767	X-21258 levels	GCST90200565	1	239611711	G	A	8198	-0.19	0.04	0.00	0.00	26.75
rs18787655	X-21258 levels	GCST90200565	5	58240078	A	G	8198	0.33	0.07	0.00	0.00	20.68
rs9293411	X-21258 levels	GCST90200565	5	85136459	G	C	8198	-0.16	0.03	0.00	0.00	22.13
rs14350919	X-21258 levels	GCST90200565	6	119055517	C	T	8198	-0.36	0.08	0.00	0.00	20.28
rs55782022	X-21258 levels	GCST90200565	7	70722588	G	A	8198	-0.11	0.02	0.00	0.00	21.35
rs56759003	X-21258 levels	GCST90200565	7	133111706	A	G	8198	-0.08	0.02	0.00	0.00	20.88
rs11758567	X-21258 levels	GCST90200565	7	144385567	A	G	8198	-0.29	0.06	0.00	0.00	22.05
rs14165642	X-21258 levels	GCST90200565	9	103750396	A	G	8198	-0.20	0.04	0.00	0.00	19.82
rs11492874	X-21258 levels	GCST90200565	10	88631371	T	C	8198	-0.17	0.03	0.00	0.00	27.96
rs2248443	X-21258 levels	GCST90200565	10	91296075	G	A	8198	0.07	0.02	0.00	0.00	19.51
rs14459963	X-21258 levels	GCST90200565	10	94847919	G	C	8198	0.36	0.03	0.00	0.01	124.00
rs2577373	X-21258 levels	GCST90200565	10	116343474	G	A	8198	0.08	0.02	0.00	0.00	23.79
rs11737678	X-21258 levels	GCST90200565	11	1108881	A	G	8198	0.23	0.05	0.00	0.00	19.73
rs11840752	X-21258 levels	GCST90200565	13	39935602	T	C	8198	0.38	0.08	0.00	0.00	21.11
rs15106816	X-21258 levels	GCST90200565	13	74337002	C	T	8198	0.33	0.07	0.00	0.00	22.91
rs77000946	X-21258 levels	GCST90200565	13	88393257	G	T	8198	0.22	0.04	0.00	0.00	25.77
rs15026297	X-21258 levels	GCST90200565	14	26774268	A	G	8198	-0.36	0.08	0.00	0.00	21.58
rs12890189	X-21258 levels	GCST90200565	14	52378786	C	G	8198	0.24	0.05	0.00	0.00	20.73
rs1258736	X-21258 levels	GCST90200565	15	32775822	G	A	8198	0.08	0.02	0.00	0.00	19.52
rs11726416	X-21258 levels	GCST90200565	16	28618200	A	G	8198	-0.17	0.04	0.00	0.00	21.96
rs13840956	X-21258 levels	GCST90200565	16	50772955	G	A	8198	-0.42	0.10	0.00	0.00	19.61
rs1689825	X-21258 levels	GCST90200565	17	32631302	C	T	8198	0.08	0.02	0.00	0.00	20.52
rs72861804	X-21258 levels	GCST90200565	18	393838	T	C	8198	0.17	0.04	0.00	0.00	19.68
rs28797492	X-21258 levels	GCST90200565	18	73329365	G	A	8198	-0.24	0.05	0.00	0.00	19.84
rs6075966	X-21258 levels	GCST90200565	20	22797734	A	T	8198	0.10	0.02	0.00	0.00	22.39
rs4661916	X-21364 levels	GCST90200566	1	13630630	A	C	8203	0.22	0.05	0.00	0.00	20.79
rs11166576	X-21364 levels	GCST90200566	1	101274850	A	G	8203	0.07	0.02	0.00	0.00	20.45
rs598782	X-21364 levels	GCST90200566	1	202603468	T	C	8203	0.08	0.02	0.00	0.00	19.56
rs14417147	X-21364 levels	GCST90200566	1	217935530	G	A	8203	-0.26	0.06	0.00	0.00	20.60
rs14135048	X-21364 levels	GCST90200566	3	16244115	A	G	8203	-0.28	0.06	0.00	0.00	20.71
rs9843744	X-21364 levels	GCST90200566	3	26160835	A	C	8203	0.10	0.02	0.00	0.00	20.85
rs76561767	X-21364 levels	GCST90200566	4	152701902	T	C	8203	0.12	0.03	0.00	0.00	20.30

rs6882718	X-21364 levels	GCST90200566	5	2449061	T	C	8203	0.21	0.05	0.00	0.00	20.63
rs13157117	X-21364 levels	GCST90200566	5	99316144	C	T	8203	0.07	0.01	0.00	0.00	20.12
rs72805934	X-21364 levels	GCST90200566	5	150360315	T	C	8203	0.15	0.03	0.00	0.00	20.42
rs1165195	X-21364 levels	GCST90200566	6	25814852	G	T	8203	-0.13	0.01	0.00	0.01	73.76
rs4712015	X-21364 levels	GCST90200566	6	52748899	A	G	8203	0.07	0.01	0.00	0.00	21.77
rs34303228	X-21364 levels	GCST90200566	6	127001573	C	T	8203	-0.07	0.01	0.00	0.00	20.34
rs2354373	X-21364 levels	GCST90200566	7	11419479	C	G	8203	0.07	0.02	0.00	0.00	21.45
rs17361671	X-21364 levels	GCST90200566	7	75863618	A	G	8203	-0.08	0.02	0.00	0.00	19.98
rs13938003	X-21364 levels	GCST90200566	7	99314204	A	C	8203	0.23	0.05	0.00	0.00	20.24
1												
rs1979195	X-21364 levels	GCST90200566	7	158701255	G	A	8203	0.08	0.02	0.00	0.00	21.01
rs77991261	X-21364 levels	GCST90200566	9	11713604	T	C	8203	-0.31	0.07	0.00	0.00	20.96
rs11699421	X-21364 levels	GCST90200566	9	78894851	C	T	8203	-0.24	0.05	0.00	0.00	19.59
3												
rs11344974	X-21364 levels	GCST90200566	10	56562313	C	T	8203	-0.33	0.07	0.00	0.00	21.27
8												
rs14328869	X-21364 levels	GCST90200566	11	25227381	A	G	8203	0.35	0.08	0.00	0.00	20.71
5												
rs55962399	X-21364 levels	GCST90200566	11	124101909	C	T	8203	-0.19	0.04	0.00	0.00	21.24
rs11291468	X-21364 levels	GCST90200566	12	3221884	T	C	8203	0.29	0.07	0.00	0.00	19.83
4												
rs11494550	X-21364 levels	GCST90200566	12	20852018	C	T	8203	0.09	0.02	0.00	0.00	20.35
rs11706887	X-21364 levels	GCST90200566	12	108938676	C	G	8203	-0.30	0.07	0.00	0.00	19.70
6												
rs71454659	X-21364 levels	GCST90200566	12	120680301	A	G	8203	0.10	0.02	0.00	0.00	22.49
rs79121175	X-21364 levels	GCST90200566	13	90395862	A	G	8203	-0.22	0.05	0.00	0.00	19.89
rs12882344	X-21364 levels	GCST90200566	14	92683116	A	T	8203	-0.07	0.02	0.00	0.00	20.70
rs11641025	X-21364 levels	GCST90200566	16	81551468	G	A	8203	-0.10	0.02	0.00	0.00	28.19
rs62054232	X-21364 levels	GCST90200566	17	14329134	G	A	8203	0.07	0.02	0.00	0.00	22.06
rs78916770	X-21364 levels	GCST90200566	19	10433839	T	A	8203	-0.12	0.02	0.00	0.00	25.85
rs79388972	X-21364 levels	GCST90200566	22	18129459	A	G	8203	-0.15	0.03	0.00	0.00	20.04
rs14606463	X-21353 levels	GCST90200567	1	28767548	A	G	8265	0.24	0.05	0.00	0.00	19.79
7												
rs1418026	X-21353 levels	GCST90200567	1	119308513	T	C	8265	0.11	0.03	0.00	0.00	19.87
rs28415528	X-21353 levels	GCST90200567	1	151907285	A	G	8265	-0.22	0.02	0.00	0.02	187.70
rs14662914	X-21353 levels	GCST90200567	2	192598584	T	C	8265	0.22	0.04	0.00	0.00	24.78
4												
rs7695116	X-21353 levels	GCST90200567	4	171900826	C	G	8265	0.08	0.02	0.00	0.00	20.76
rs11647413	X-21353 levels	GCST90200567	4	185619988	A	G	8265	-0.22	0.05	0.00	0.00	20.23
5												
rs710362	X-21353 levels	GCST90200567	5	87845250	G	A	8265	0.17	0.03	0.00	0.00	24.83
rs75191864	X-21353 levels	GCST90200567	5	116461161	A	C	8265	0.19	0.04	0.00	0.00	22.50
rs1458352	X-21353 levels	GCST90200567	5	162986460	G	A	8265	-0.08	0.02	0.00	0.00	20.24
rs13281473	X-21353 levels	GCST90200567	8	72005208	A	G	8265	0.18	0.04	0.00	0.00	22.22
rs35593326	X-21353 levels	GCST90200567	9	31323722	T	C	8265	0.07	0.02	0.00	0.00	20.92
rs1998757	X-21353 levels	GCST90200567	10	98469749	C	G	8265	0.09	0.02	0.00	0.00	20.97
rs11052059	X-21353 levels	GCST90200567	12	32540963	A	G	8265	0.16	0.03	0.00	0.00	24.22
rs11067600	X-21353 levels	GCST90200567	12	115439972	C	T	8265	0.27	0.06	0.00	0.00	21.88
rs3088051	X-21353 levels	GCST90200567	12	131922463	C	T	8265	-0.08	0.02	0.00	0.00	22.21
rs11625879	X-21353 levels	GCST90200567	14	76669686	A	G	8265	0.09	0.02	0.00	0.00	21.29
rs11764750	X-21353 levels	GCST90200567	15	39489740	G	A	8265	-1.62	0.32	0.00	0.00	25.37
4												
rs876481	X-21353 levels	GCST90200567	16	84916864	T	C	8265	-0.08	0.02	0.00	0.00	21.45
rs7651	X-21353 levels	GCST90200567	17	74261793	C	T	8265	-0.08	0.02	0.00	0.00	20.27
rs2825688	X-21353 levels	GCST90200567	21	19626330	A	C	8265	0.08	0.02	0.00	0.00	19.82
rs6425530	X-19438 levels	GCST90200568	1	179308467	C	T	7259	0.08	0.02	0.00	0.00	20.34
rs4920200	X-19438 levels	GCST90200568	1	234920922	G	A	7259	0.07	0.02	0.00	0.00	19.92
rs13830144	X-19438 levels	GCST90200568	2	20645281	A	G	7259	0.31	0.07	0.00	0.00	22.36
9												
rs4665972	X-19438 levels	GCST90200568	2	27375230	C	T	7259	-0.08	0.02	0.00	0.00	25.61
rs14980045	X-19438 levels	GCST90200568	2	167980508	A	G	7259	0.47	0.10	0.00	0.00	20.95
5												
rs62250641	X-19438 levels	GCST90200568	3	27587123	G	A	7259	0.09	0.02	0.00	0.00	27.68
rs13316189	X-19438 levels	GCST90200568	3	29920446	T	A	7259	-0.22	0.05	0.00	0.00	22.03
rs963685	X-19438 levels	GCST90200568	3	60335841	C	A	7259	-0.08	0.02	0.00	0.00	21.07
rs327087	X-19438 levels	GCST90200568	4	186723970	T	C	7259	-0.11	0.02	0.00	0.00	20.40
rs11202480	X-19438 levels	GCST90200568	5	15496732	A	G	7259	0.34	0.07	0.00	0.00	23.01
3												
rs76209735	X-19438 levels	GCST90200568	5	41294667	G	C	7259	0.31	0.07	0.00	0.00	19.51
rs3800477	X-19438 levels	GCST90200568	6	34414955	C	T	7259	-0.33	0.07	0.00	0.00	21.85
rs6968210	X-19438 levels	GCST90200568	7	96689292	C	T	7259	0.09	0.02	0.00	0.00	21.57
rs11687766	X-19438 levels	GCST90200568	8	94287672	C	T	7259	-0.40	0.09	0.00	0.00	20.48
1												
rs7866466	X-19438 levels	GCST90200568	9	79094587	A	G	7259	-0.10	0.02	0.00	0.00	32.48

rs7089734	X-19438 levels	GCST90200568	10	133034546	A	G	7259	0.09	0.02	0.00	0.00	25.90
rs143159724	X-19438 levels	GCST90200568	11	36064531	T	G	7259	0.11	0.02	0.00	0.00	22.54
rs76020750	X-19438 levels	GCST90200568	14	21161067	T	G	7259	-0.16	0.03	0.00	0.00	21.31
rs4408450	X-19438 levels	GCST90200568	14	47841205	G	A	7259	-0.14	0.03	0.00	0.00	20.65
rs6497721	X-19438 levels	GCST90200568	16	24087206	G	A	7259	-0.14	0.03	0.00	0.00	20.20
rs190476750	X-19438 levels	GCST90200568	17	1191579	T	C	7259	-0.29	0.07	0.00	0.00	19.91
rs11867639	X-19438 levels	GCST90200568	17	7199755	A	G	7259	0.08	0.02	0.00	0.00	20.57
rs10417970	X-19438 levels	GCST90200568	19	41669397	A	G	7259	0.08	0.02	0.00	0.00	19.91
rs2233832	X-19438 levels	GCST90200568	20	31482436	A	C	7259	0.14	0.03	0.00	0.00	20.68
rs12568431	X-18913 levels	GCST90200569	1	6726096	T	C	8271	-0.09	0.02	0.00	0.00	27.63
rs4659161	X-18913 levels	GCST90200569	1	117174413	T	C	8271	0.21	0.05	0.00	0.00	19.99
rs77906758	X-18913 levels	GCST90200569	1	199956244	A	G	8271	-0.37	0.08	0.00	0.00	21.48
rs818171	X-18913 levels	GCST90200569	2	10471483	C	A	8271	-0.07	0.02	0.00	0.00	20.66
rs148589896	X-18913 levels	GCST90200569	2	125588242	T	G	8271	0.33	0.07	0.00	0.00	22.48
rs74637339	X-18913 levels	GCST90200569	3	15586533	A	T	8271	0.28	0.03	0.00	0.01	68.00
rs17698379	X-18913 levels	GCST90200569	3	117202884	C	A	8271	0.11	0.03	0.00	0.00	19.62
rs10939663	X-18913 levels	GCST90200569	4	10030892	G	T	8271	0.08	0.02	0.00	0.00	19.81
rs245802	X-18913 levels	GCST90200569	5	56438834	G	C	8271	-0.08	0.02	0.00	0.00	24.88
rs72813824	X-18913 levels	GCST90200569	5	115221627	T	G	8271	0.13	0.03	0.00	0.00	19.72
rs2441014	X-18913 levels	GCST90200569	5	157369851	A	G	8271	0.14	0.03	0.00	0.00	19.54
rs6912625	X-18913 levels	GCST90200569	6	111073399	C	T	8271	-0.09	0.02	0.00	0.00	24.95
rs112503526	X-18913 levels	GCST90200569	8	6504085	A	G	8271	-0.17	0.04	0.00	0.00	20.39
rs56029650	X-18913 levels	GCST90200569	8	104841719	G	A	8271	0.15	0.03	0.00	0.00	22.25
rs76246222	X-18913 levels	GCST90200569	9	84260255	A	T	8271	0.33	0.07	0.00	0.00	22.10
rs10500601	X-18913 levels	GCST90200569	11	4434725	C	T	8271	-0.08	0.02	0.00	0.00	20.07
rs11843964	X-18913 levels	GCST90200569	13	35333237	T	C	8271	0.16	0.03	0.00	0.00	20.49
rs9562166	X-18913 levels	GCST90200569	13	114230137	A	G	8271	-0.26	0.06	0.00	0.00	21.85
rs112888826	X-18913 levels	GCST90200569	14	81133897	G	A	8271	-0.22	0.04	0.00	0.00	28.19
rs149328022	X-18913 levels	GCST90200569	17	9866811	C	T	8271	0.26	0.05	0.00	0.00	27.81
rs12452165	X-18913 levels	GCST90200569	17	41748582	C	G	8271	0.09	0.02	0.00	0.00	19.53
rs1474687	X-18921 levels	GCST90200570	1	14755183	G	A	8257	-0.07	0.02	0.00	0.00	20.48
rs72637963	X-18921 levels	GCST90200570	1	46809219	A	G	8257	0.12	0.02	0.00	0.00	22.84
rs12087626	X-18921 levels	GCST90200570	1	75682788	A	C	8257	-0.18	0.02	0.00	0.01	113.75
rs28415528	X-18921 levels	GCST90200570	1	151907285	A	G	8257	-0.40	0.02	0.00	0.07	631.37
rs986903	X-18921 levels	GCST90200570	1	152438093	T	A	8257	-0.09	0.02	0.00	0.00	27.48
rs1499938	X-18921 levels	GCST90200570	3	115467267	T	C	8257	0.12	0.02	0.00	0.00	24.64
rs7618726	X-18921 levels	GCST90200570	3	143463736	T	C	8257	0.12	0.03	0.00	0.00	21.34
rs75814043	X-18921 levels	GCST90200570	6	129922052	T	A	8257	-0.31	0.07	0.00	0.00	21.92
rs117334109	X-18921 levels	GCST90200570	7	67434471	T	C	8257	-0.18	0.04	0.00	0.00	19.51
rs7003997	X-18921 levels	GCST90200570	8	55208655	T	C	8257	-0.15	0.03	0.00	0.00	23.01
rs78990591	X-18921 levels	GCST90200570	9	23384852	C	G	8257	0.28	0.06	0.00	0.00	22.80
rs7860314	X-18921 levels	GCST90200570	9	72572027	C	G	8257	-0.09	0.02	0.00	0.00	24.43
rs6482730	X-18921 levels	GCST90200570	10	129323427	G	A	8257	0.10	0.02	0.00	0.00	21.67
rs3088357	X-18921 levels	GCST90200570	11	114250570	T	C	8257	0.40	0.08	0.00	0.00	25.06
rs111820420	X-18921 levels	GCST90200570	12	41603292	C	T	8257	0.23	0.04	0.00	0.00	26.11
rs73474191	X-18921 levels	GCST90200570	12	131952674	G	A	8257	-0.13	0.03	0.00	0.00	22.35
rs181354136	X-18921 levels	GCST90200570	15	29130235	C	G	8257	0.48	0.10	0.00	0.00	21.50
rs7500220	X-18921 levels	GCST90200570	16	20489224	G	A	8257	0.12	0.02	0.00	0.00	40.03
rs539368	X-21339 levels	GCST90200571	1	33954881	C	T	8203	-0.07	0.02	0.00	0.00	21.83
rs782135	X-21339 levels	GCST90200571	1	44529163	C	T	8203	-0.07	0.02	0.00	0.00	20.32
rs17868318	X-21339 levels	GCST90200571	2	233660539	T	C	8203	-0.14	0.03	0.00	0.00	19.74
rs1849338	X-21339 levels	GCST90200571	4	45140788	G	A	8203	-0.07	0.02	0.00	0.00	22.16
rs185986725	X-21339 levels	GCST90200571	4	187368127	A	G	8203	-0.31	0.07	0.00	0.00	20.44
rs78713468	X-21339 levels	GCST90200571	5	18172349	C	T	8203	0.15	0.03	0.00	0.00	23.10
rs17146472	X-21339 levels	GCST90200571	5	120335420	A	G	8203	-0.21	0.04	0.00	0.00	21.26
rs145452073	X-21339 levels	GCST90200571	6	55583383	T	C	8203	0.15	0.03	0.00	0.00	20.87
rs10111392	X-21339 levels	GCST90200571	8	15876802	T	C	8203	-0.22	0.05	0.00	0.00	22.56
rs2872238	X-21339 levels	GCST90200571	8	22748600	A	G	8203	-0.15	0.03	0.00	0.00	20.22
rs144658967	X-21339 levels	GCST90200571	8	25726054	G	T	8203	-0.29	0.07	0.00	0.00	19.53
rs7048589	X-21339 levels	GCST90200571	9	30945995	G	T	8203	-0.07	0.02	0.00	0.00	21.44
rs7304327	X-21339 levels	GCST90200571	12	13994414	A	G	8203	0.16	0.03	0.00	0.00	21.25
rs4149083	X-21339 levels	GCST90200571	12	21227696	T	A	8203	0.20	0.02	0.00	0.01	96.62

rs4907563	X-21339 levels	GCST90200571	13	112919058	C	T	8203	0.10	0.02	0.00	0.00	20.09
rs28510347	X-21339 levels	GCST90200571	14	66053152	G	A	8203	0.17	0.04	0.00	0.00	20.29
rs8041483	X-21339 levels	GCST90200571	15	50173024	G	A	8203	0.08	0.02	0.00	0.00	22.80
rs56388626	X-21339 levels	GCST90200571	16	3850636	T	C	8203	-0.36	0.08	0.00	0.00	21.51
rs4260106	X-21339 levels	GCST90200571	17	41955791	A	C	8203	-0.09	0.02	0.00	0.00	23.87
rs7218498	X-21339 levels	GCST90200571	17	75935766	G	C	8203	-0.07	0.02	0.00	0.00	21.44
rs11656795	X-21339 levels	GCST90200571	17	77518873	A	G	8203	-0.07	0.02	0.00	0.00	20.57
rs4926199	X-21339 levels	GCST90200571	19	14314541	C	T	8203	-0.07	0.02	0.00	0.00	20.45
rs6081174	X-21339 levels	GCST90200571	20	18503333	T	C	8203	0.07	0.02	0.00	0.00	21.13
rs6693173	X-19299 levels	GCST90200572	1	4133813	G	A	6100	-0.08	0.02	0.00	0.00	19.52
rs14297512	X-19299 levels	GCST90200572	1	64771238	G	A	6100	-0.37	0.08	0.00	0.00	20.91
rs14535348	X-19299 levels	GCST90200572	1	185459936	T	C	6100	0.31	0.06	0.00	0.00	23.35
rs14841840	X-19299 levels	GCST90200572	2	14610515	A	G	6100	-0.23	0.05	0.00	0.00	20.97
rs14976579	X-19299 levels	GCST90200572	2	47458571	T	C	6100	-0.24	0.05	0.00	0.00	25.17
rs288110	X-19299 levels	GCST90200572	2	140754232	C	T	6100	-0.09	0.02	0.00	0.00	23.77
rs7610368	X-19299 levels	GCST90200572	3	29686205	C	T	6100	-0.22	0.05	0.00	0.00	20.25
rs13100598	X-19299 levels	GCST90200572	3	116072038	T	C	6100	-0.09	0.02	0.00	0.00	22.43
rs77089696	X-19299 levels	GCST90200572	4	8241621	T	G	6100	0.55	0.12	0.00	0.00	20.20
rs17513723	X-19299 levels	GCST90200572	4	40801962	G	T	6100	-0.11	0.02	0.00	0.00	22.27
rs11178314	X-19299 levels	GCST90200572	5	160825238	C	T	6100	-0.33	0.07	0.00	0.00	20.22
rs11777314	X-19299 levels	GCST90200572	6	118975395	C	T	6100	-0.28	0.06	0.00	0.00	22.09
rs1816545	X-19299 levels	GCST90200572	8	31466439	T	C	6100	0.08	0.02	0.00	0.00	20.45
rs7822738	X-19299 levels	GCST90200572	8	126454031	T	C	6100	0.09	0.02	0.00	0.00	23.19
rs7853652	X-19299 levels	GCST90200572	9	2897541	A	T	6100	1.50	0.33	0.00	0.00	20.53
rs2432579	X-19299 levels	GCST90200572	12	55769452	G	C	6100	-0.08	0.02	0.00	0.00	19.59
rs2629864	X-19299 levels	GCST90200572	13	106867141	A	T	6100	0.10	0.02	0.00	0.00	20.00
rs17650363	X-19299 levels	GCST90200572	14	81705439	A	G	6100	-0.12	0.03	0.00	0.00	19.90
rs76207797	X-19299 levels	GCST90200572	16	72863712	G	A	6100	0.46	0.10	0.00	0.00	21.77
rs6011190	X-19299 levels	GCST90200572	20	63857674	A	G	6100	-0.11	0.02	0.00	0.00	22.53
rs61778507	X-18935 levels	GCST90200573	1	91667859	C	T	4952	-0.13	0.03	0.00	0.00	22.37
rs78937709	X-18935 levels	GCST90200573	1	160752617	G	C	4952	-0.13	0.03	0.00	0.00	21.53
rs16843838	X-18935 levels	GCST90200573	1	198789087	G	A	4952	-0.23	0.05	0.00	0.00	21.26
rs11506324	X-18935 levels	GCST90200573	1	217949483	A	G	4952	-0.37	0.08	0.00	0.00	22.67
rs11511481	X-18935 levels	GCST90200573	2	206815963	C	T	4952	-0.63	0.12	0.00	0.01	25.57
rs12694812	X-18935 levels	GCST90200573	2	229415841	G	A	4952	0.10	0.02	0.00	0.00	21.62
rs11723799	X-18935 levels	GCST90200573	4	82586641	T	G	4952	0.13	0.03	0.00	0.00	21.63
rs17033487	X-18935 levels	GCST90200573	4	155766148	A	C	4952	-0.13	0.03	0.00	0.00	20.01
rs19158835	X-18935 levels	GCST90200573	5	21362663	G	C	4952	0.38	0.08	0.00	0.00	21.00
rs11647786	X-18935 levels	GCST90200573	5	54552066	C	G	4952	0.22	0.05	0.00	0.00	22.21
rs2148977	X-18935 levels	GCST90200573	6	6906264	G	A	4952	-0.12	0.03	0.00	0.00	21.15
rs13245150	X-18935 levels	GCST90200573	7	22172344	A	G	4952	-0.15	0.03	0.00	0.00	20.03
rs11791931	X-18935 levels	GCST90200573	7	140383739	T	C	4952	0.14	0.03	0.00	0.00	20.81
rs75511850	X-18935 levels	GCST90200573	8	88058857	A	G	4952	0.18	0.04	0.00	0.00	20.86
rs11764036	X-18935 levels	GCST90200573	10	122711744	T	C	4952	-0.35	0.08	0.00	0.00	21.44
rs11384734	X-18935 levels	GCST90200573	12	44450563	A	G	4952	-0.21	0.04	0.00	0.00	23.73
rs310850	X-18935 levels	GCST90200573	12	77088108	G	A	4952	0.09	0.02	0.00	0.00	21.28
rs760232	X-18935 levels	GCST90200573	14	75927576	A	G	4952	-0.26	0.06	0.00	0.00	20.84
rs11156309	X-18935 levels	GCST90200573	17	43410037	G	A	4952	-0.45	0.10	0.00	0.00	21.49
rs12985186	X-18935 levels	GCST90200573	19	2515876	G	A	4952	-0.09	0.02	0.00	0.00	20.93
rs56113850	X-18935 levels	GCST90200573	19	40847202	C	T	4952	0.13	0.02	0.00	0.01	42.19
rs14570254	X-21310 levels	GCST90200574	1	93420251	T	C	7801	-0.25	0.05	0.00	0.00	22.48
rs6736082	X-21310 levels	GCST90200574	2	11420068	A	C	7801	0.07	0.02	0.00	0.00	19.54
rs76054555	X-21310 levels	GCST90200574	3	22365026	C	T	7801	0.24	0.05	0.00	0.00	20.37
rs58793706	X-21310 levels	GCST90200574	3	190116061	G	C	7801	0.10	0.02	0.00	0.00	22.33
rs14659320	X-21310 levels	GCST90200574	4	5820392	T	C	7801	-0.56	0.10	0.00	0.00	34.46
rs1976170	X-21310 levels	GCST90200574	4	26529780	T	C	7801	-0.10	0.02	0.00	0.00	20.67
rs19110531	X-21310 levels	GCST90200574	4	128815359	G	C	7801	-0.32	0.07	0.00	0.00	19.94

rs2118583	X-21310 levels	GCST90200574	5	12974272	C	T	7801	0.08	0.02	0.00	0.00	23.47
rs78836916	X-21310 levels	GCST90200574	5	180130754	T	C	7801	0.12	0.03	0.00	0.00	20.23
rs10080355	X-21310 levels	GCST90200574	6	143771768	T	C	7801	0.08	0.02	0.00	0.00	20.83
rs2461723	X-21310 levels	GCST90200574	6	165894131	C	T	7801	0.17	0.04	0.00	0.00	21.17
rs17164914	X-21310 levels	GCST90200574	7	11624469	G	T	7801	0.30	0.06	0.00	0.00	21.85
rs73056450	X-21310 levels	GCST90200574	7	15228457	T	G	7801	0.17	0.03	0.00	0.00	23.59
rs12668982	X-21310 levels	GCST90200574	7	101809413	C	T	7801	-0.15	0.03	0.00	0.00	19.77
rs34272460	X-21310 levels	GCST90200574	8	67513966	A	T	7801	-0.25	0.05	0.00	0.00	21.77
rs2995895	X-21310 levels	GCST90200574	9	28923223	T	C	7801	0.09	0.02	0.00	0.00	19.55
rs11478532	X-21310 levels	GCST90200574	10	61621343	G	T	7801	-0.24	0.05	0.00	0.00	20.32
rs11714580	X-21310 levels	GCST90200574	14	31618832	A	T	7801	-0.25	0.05	0.00	0.00	26.62
rs62027346	X-21310 levels	GCST90200574	15	75223213	C	A	7801	0.15	0.03	0.00	0.00	22.18
rs13806377	X-21310 levels	GCST90200574	18	14895326	G	A	7801	-0.21	0.04	0.00	0.00	25.37
rs12479932	X-21310 levels	GCST90200574	20	20382718	T	C	7801	-0.09	0.02	0.00	0.00	22.32
rs6028012	X-21310 levels	GCST90200574	20	61073594	G	A	7801	-0.11	0.02	0.00	0.00	22.84
rs2824627	X-21310 levels	GCST90200574	21	18069064	T	G	7801	-0.16	0.04	0.00	0.00	19.69
rs72895742	X-21283 levels	GCST90200575	1	54798959	G	A	7055	0.17	0.04	0.00	0.00	20.93
rs75236101	X-21283 levels	GCST90200575	1	244461995	A	T	7055	0.28	0.06	0.00	0.00	22.47
rs12474395	X-21283 levels	GCST90200575	2	76436852	A	G	7055	-0.10	0.02	0.00	0.00	21.23
rs11192794	X-21283 levels	GCST90200575	2	200543269	A	G	7055	-0.10	0.02	0.00	0.00	22.35
rs627530	X-21283 levels	GCST90200575	2	219611721	T	C	7055	-0.25	0.05	0.00	0.00	22.05
rs14006086	X-21283 levels	GCST90200575	3	102920703	G	A	7055	-0.33	0.07	0.00	0.00	20.47
rs7640911	X-21283 levels	GCST90200575	3	119376387	C	G	7055	-0.09	0.02	0.00	0.00	20.16
rs55803452	X-21283 levels	GCST90200575	4	15691085	C	A	7055	-0.61	0.02	0.00	0.08	606.21
rs13142231	X-21283 levels	GCST90200575	4	79787316	A	G	7055	0.08	0.02	0.00	0.00	19.51
rs13148864	X-21283 levels	GCST90200575	4	180560798	A	G	7055	-0.08	0.02	0.00	0.00	23.23
rs2578639	X-21283 levels	GCST90200575	5	10265607	G	C	7055	0.12	0.02	0.00	0.00	25.54
rs6953376	X-21283 levels	GCST90200575	7	139313161	G	T	7055	-0.11	0.02	0.00	0.00	25.62
rs18571441	X-21283 levels	GCST90200575	8	62054985	A	T	7055	-0.37	0.08	0.00	0.00	19.60
rs11111388	X-21283 levels	GCST90200575	12	102812717	T	C	7055	-1.26	0.28	0.00	0.00	20.42
rs12578470	X-21283 levels	GCST90200575	12	129816597	C	A	7055	0.08	0.02	0.00	0.00	20.64
rs13333226	X-21283 levels	GCST90200575	16	20354332	G	A	7055	-0.10	0.02	0.00	0.00	21.34
rs10432313	X-21283 levels	GCST90200575	19	10046990	G	A	7055	-0.21	0.04	0.00	0.00	24.48
rs15100222	X-21285 levels	GCST90200576	1	187551198	G	T	6180	-0.34	0.07	0.00	0.00	21.37
rs891369	X-21285 levels	GCST90200576	3	53102535	A	G	6180	-0.08	0.02	0.00	0.00	19.60
rs56181640	X-21285 levels	GCST90200576	3	140902485	A	T	6180	-0.49	0.09	0.00	0.00	27.33
rs11615015	X-21285 levels	GCST90200576	3	161591552	C	A	6180	0.23	0.05	0.00	0.00	22.58
rs2342307	X-21285 levels	GCST90200576	3	196215616	G	A	6180	-0.12	0.02	0.00	0.01	41.97
rs28610050	X-21285 levels	GCST90200576	4	62609424	T	C	6180	-0.25	0.06	0.00	0.00	19.61
rs11590696	X-21285 levels	GCST90200576	5	27330798	T	C	6180	-0.19	0.04	0.00	0.00	21.09
rs34687207	X-21285 levels	GCST90200576	5	166923480	A	G	6180	-0.17	0.03	0.00	0.00	23.59
rs14072744	X-21285 levels	GCST90200576	6	16441699	T	A	6180	0.67	0.13	0.00	0.00	27.46
rs2690098	X-21285 levels	GCST90200576	6	25346727	G	A	6180	0.13	0.02	0.00	0.00	25.85
rs1185977	X-21285 levels	GCST90200576	6	25828826	G	A	6180	-0.18	0.02	0.00	0.01	81.80
rs79677298	X-21285 levels	GCST90200576	7	29878467	T	C	6180	0.57	0.13	0.00	0.00	19.82
rs76493619	X-21285 levels	GCST90200576	7	81343690	G	C	6180	0.23	0.05	0.00	0.00	20.65
rs11366685	X-21285 levels	GCST90200576	7	152954038	G	A	6180	0.23	0.05	0.00	0.00	20.94
rs76254554	X-21285 levels	GCST90200576	8	3311463	C	T	6180	-0.28	0.06	0.00	0.00	24.97
rs11781081	X-21285 levels	GCST90200576	8	42006099	G	A	6180	-0.35	0.08	0.00	0.00	20.52
rs11748918	X-21285 levels	GCST90200576	9	71268146	T	C	6180	-0.31	0.06	0.00	0.00	25.46
rs4838100	X-21285 levels	GCST90200576	9	124052844	T	C	6180	-0.09	0.02	0.00	0.00	23.33
rs1919697	X-21285 levels	GCST90200576	10	55621987	A	C	6180	-0.08	0.02	0.00	0.00	20.97
rs1838376	X-21285 levels	GCST90200576	12	98127700	A	C	6180	0.09	0.02	0.00	0.00	21.08
rs9318855	X-21285 levels	GCST90200576	13	82389389	T	C	6180	0.08	0.02	0.00	0.00	21.12
rs18762016	X-21285 levels	GCST90200576	13	82995014	A	T	6180	0.44	0.10	0.00	0.00	19.69
rs8016464	X-21285 levels	GCST90200576	14	36372133	G	A	6180	0.08	0.02	0.00	0.00	20.15
rs71427112	X-21285 levels	GCST90200576	14	71421627	A	G	6180	0.29	0.06	0.00	0.00	21.14
rs2287375	X-21285 levels	GCST90200576	14	77218499	T	A	6180	-0.09	0.02	0.00	0.00	20.53
rs1190227	X-21285 levels	GCST90200576	14	102925361	A	C	6180	0.08	0.02	0.00	0.00	20.51

rs148713179	X-21285 levels	GCST90200576	15	97747521	A	G	6180	0.36	0.08	0.00	0.00	22.62
rs137981283	X-21285 levels	GCST90200576	16	50490428	G	A	6180	-0.27	0.06	0.00	0.00	20.03
rs74020837	X-21285 levels	GCST90200576	16	52768156	T	C	6180	0.24	0.05	0.00	0.00	19.95
rs71363441	X-21285 levels	GCST90200576	18	34307101	G	A	6180	0.12	0.03	0.00	0.00	20.33
rs10420459	X-21285 levels	GCST90200576	19	28770038	G	A	6180	0.16	0.03	0.00	0.00	25.09
rs45541941	X-21285 levels	GCST90200576	20	63343312	A	G	6180	0.29	0.07	0.00	0.00	20.32
rs6661937	X-21312 levels	GCST90200577	1	181818919	A	C	4897	0.24	0.05	0.00	0.00	21.29
rs72641775	X-21312 levels	GCST90200577	1	187501211	T	C	4897	0.29	0.06	0.00	0.00	23.33
rs13019430	X-21312 levels	GCST90200577	2	170362545	G	A	4897	0.10	0.02	0.00	0.00	23.47
rs2317421	X-21312 levels	GCST90200577	2	236259288	G	A	4897	0.25	0.05	0.00	0.00	21.50
rs73174374	X-21312 levels	GCST90200577	3	169589809	A	C	4897	-0.28	0.06	0.00	0.00	21.16
rs111976237	X-21312 levels	GCST90200577	3	179714847	T	C	4897	0.31	0.07	0.00	0.00	22.16
rs187695445	X-21312 levels	GCST90200577	5	62631166	A	G	4897	-0.36	0.08	0.00	0.00	19.55
rs114917012	X-21312 levels	GCST90200577	5	154077102	A	G	4897	-0.31	0.07	0.00	0.00	20.68
rs556339	X-21312 levels	GCST90200577	6	25870517	T	C	4897	0.19	0.02	0.00	0.02	75.75
rs1611251	X-21312 levels	GCST90200577	6	29782904	A	G	4897	0.09	0.02	0.00	0.00	19.78
rs12533779	X-21312 levels	GCST90200577	7	14504531	C	T	4897	0.20	0.04	0.00	0.00	23.54
rs2683306	X-21312 levels	GCST90200577	8	19249909	T	C	4897	-0.11	0.02	0.00	0.01	26.08
rs75655364	X-21312 levels	GCST90200577	10	132446981	A	G	4897	0.32	0.07	0.00	0.00	19.54
rs10791293	X-21312 levels	GCST90200577	11	133583300	C	A	4897	0.09	0.02	0.00	0.00	19.55
rs145590806	X-21312 levels	GCST90200577	12	25356785	A	G	4897	-0.37	0.08	0.00	0.00	23.84
rs7328454	X-21312 levels	GCST90200577	13	112455066	C	G	4897	0.14	0.03	0.00	0.00	20.18
rs145143145	X-21312 levels	GCST90200577	17	14896377	G	T	4897	0.49	0.11	0.00	0.00	20.66
rs9945690	X-21312 levels	GCST90200577	18	47591887	T	C	4897	0.19	0.04	0.00	0.00	20.32
rs609922	X-21312 levels	GCST90200577	18	59483545	C	A	4897	0.13	0.03	0.00	0.00	20.90
rs6511080	X-21312 levels	GCST90200577	19	20111531	T	C	4897	-0.12	0.03	0.00	0.00	19.54
rs76924111	X-21312 levels	GCST90200577	20	42413124	T	C	4897	0.37	0.08	0.00	0.00	21.22
rs11576656	X-18922 levels	GCST90200578	1	46953896	A	T	8174	0.24	0.03	0.00	0.01	91.41
rs116384338	X-18922 levels	GCST90200578	1	79057222	G	A	8174	-0.17	0.03	0.00	0.00	22.70
rs2582788	X-18922 levels	GCST90200578	1	119777874	G	T	8174	-0.16	0.02	0.00	0.01	88.73
rs144138175	X-18922 levels	GCST90200578	2	44730347	T	C	8174	-0.30	0.07	0.00	0.00	20.10
rs76632890	X-18922 levels	GCST90200578	2	77098358	T	G	8174	0.20	0.04	0.00	0.00	21.91
rs114631825	X-18922 levels	GCST90200578	2	151366783	A	G	8174	0.19	0.04	0.00	0.00	20.90
rs142862819	X-18922 levels	GCST90200578	5	25846221	A	G	8174	-0.29	0.06	0.00	0.00	19.72
rs17153321	X-18922 levels	GCST90200578	5	125788505	T	C	8174	-0.09	0.02	0.00	0.00	21.15
rs116612699	X-18922 levels	GCST90200578	5	172707020	C	G	8174	-0.36	0.08	0.00	0.00	21.13
rs17146613	X-18922 levels	GCST90200578	7	22303495	A	G	8174	-0.13	0.03	0.00	0.00	25.50
rs4631401	X-18922 levels	GCST90200578	7	130782482	A	G	8174	-0.27	0.06	0.00	0.00	21.18
rs13229305	X-18922 levels	GCST90200578	7	135932425	C	A	8174	-0.10	0.02	0.00	0.00	19.57
rs35256369	X-18922 levels	GCST90200578	8	90714611	A	C	8174	-0.25	0.05	0.00	0.00	20.72
rs8180895	X-18922 levels	GCST90200578	8	129494106	A	G	8174	-0.37	0.08	0.00	0.00	19.59
rs10818449	X-18922 levels	GCST90200578	9	120375427	G	A	8174	-0.07	0.02	0.00	0.00	20.62
rs117199693	X-18922 levels	GCST90200578	9	128358102	A	G	8174	0.19	0.04	0.00	0.00	19.63
rs57364924	X-18922 levels	GCST90200578	10	84005122	A	G	8174	0.20	0.04	0.00	0.00	29.28
rs12573386	X-18922 levels	GCST90200578	10	110816801	G	C	8174	0.07	0.02	0.00	0.00	20.24
rs231899	X-18922 levels	GCST90200578	11	2746737	A	G	8174	-0.08	0.02	0.00	0.00	21.52
rs11045806	X-18922 levels	GCST90200578	12	21161802	A	G	8174	-0.15	0.02	0.00	0.01	60.44
rs4149056	X-18922 levels	GCST90200578	12	21178615	C	T	8174	0.30	0.02	0.00	0.03	209.57
rs4902630	X-18922 levels	GCST90200578	14	68675673	G	A	8174	0.08	0.02	0.00	0.00	22.69
rs117669414	X-18922 levels	GCST90200578	14	99596081	A	G	8174	-0.26	0.05	0.00	0.00	22.99
rs60033928	X-18922 levels	GCST90200578	16	19124666	C	T	8174	-0.20	0.04	0.00	0.00	22.51
rs28736286	X-18922 levels	GCST90200578	16	20590965	G	A	8174	0.10	0.02	0.00	0.00	35.54
rs250151	X-18922 levels	GCST90200578	16	79557382	C	T	8174	-0.08	0.02	0.00	0.00	21.75
rs684873	X-18922 levels	GCST90200578	18	26022182	A	G	8174	-0.17	0.04	0.00	0.00	22.54
rs118182968	X-18922 levels	GCST90200578	20	40604120	G	A	8174	-0.32	0.07	0.00	0.00	20.50
rs135536	X-18922 levels	GCST90200578	22	46172421	C	G	8174	-0.12	0.02	0.00	0.00	38.05
rs12120553	X-21442 levels	GCST90200579	1	211873677	T	G	6827	-0.18	0.03	0.00	0.00	30.80
rs79503484	X-21442 levels	GCST90200579	1	245176446	T	G	6827	-0.21	0.05	0.00	0.00	21.31
rs76188105	X-21442 levels	GCST90200579	5	77926387	A	G	6827	-0.16	0.03	0.00	0.00	22.09

rs10236264	X-21442 levels	GCST90200579	7	12058138	A	C	6827	0.12	0.02	0.00	0.00	22.67
rs11787077	X-21442 levels	GCST90200579	8	27607795	C	T	6827	0.08	0.02	0.00	0.00	20.67
rs203625	X-21442 levels	GCST90200579	8	50108322	G	A	6827	0.11	0.02	0.00	0.00	20.80
rs117092809	X-21442 levels	GCST90200579	8	67470497	T	A	6827	-1.34	0.30	0.00	0.00	20.63
rs71526257	X-21442 levels	GCST90200579	8	132533186	A	G	6827	0.23	0.05	0.00	0.00	20.78
rs10988252	X-21442 levels	GCST90200579	9	129218288	T	C	6827	-0.12	0.02	0.00	0.00	27.89
rs191319487	X-21442 levels	GCST90200579	10	92636572	T	C	6827	-0.42	0.09	0.00	0.00	20.17
rs34905955	X-21442 levels	GCST90200579	10	99756615	G	T	6827	-0.17	0.04	0.00	0.00	19.82
rs147915662	X-21442 levels	GCST90200579	11	66271319	G	C	6827	-0.26	0.06	0.00	0.00	19.53
rs2472297	X-21442 levels	GCST90200579	15	74735539	T	C	6827	0.09	0.02	0.00	0.00	23.78
rs3764899	X-21442 levels	GCST90200579	17	4819311	A	G	6827	-0.09	0.02	0.00	0.00	25.27
rs117808108	X-21442 levels	GCST90200579	17	63564170	C	T	6827	0.14	0.03	0.00	0.00	22.37
rs7235345	X-21442 levels	GCST90200579	18	78438905	T	C	6827	0.08	0.02	0.00	0.00	20.17
rs212100	X-21442 levels	GCST90200579	19	47873738	C	T	6827	-0.14	0.02	0.00	0.01	39.17
rs145415193	X-21442 levels	GCST90200579	22	20250438	T	G	6827	0.25	0.06	0.00	0.00	19.60
rs59354128	X-21442 levels	GCST90200579	22	32642294	T	A	6827	0.11	0.02	0.00	0.00	20.14
rs144095101	X-21796 levels	GCST90200580	1	18907433	C	A	8130	-0.24	0.05	0.00	0.00	19.79
rs2235936	X-21796 levels	GCST90200580	1	29305888	A	G	8130	0.10	0.02	0.00	0.00	19.63
rs2081695	X-21796 levels	GCST90200580	1	80493296	T	A	8130	-0.08	0.02	0.00	0.00	25.81
rs74625723	X-21796 levels	GCST90200580	1	222289646	A	G	8130	0.12	0.03	0.00	0.00	21.19
rs76042511	X-21796 levels	GCST90200580	2	1466145	T	C	8130	-0.19	0.04	0.00	0.00	24.06
rs11125778	X-21796 levels	GCST90200580	2	59253405	A	G	8130	-0.07	0.02	0.00	0.00	19.76
rs143713348	X-21796 levels	GCST90200580	2	221885849	T	C	8130	0.28	0.06	0.00	0.00	23.10
rs4148324	X-21796 levels	GCST90200580	2	233764076	G	T	8130	0.17	0.02	0.00	0.01	120.46
rs76622351	X-21796 levels	GCST90200580	4	138825172	T	G	8130	0.14	0.03	0.00	0.00	22.27
rs79938083	X-21796 levels	GCST90200580	6	1367170	A	G	8130	-0.11	0.03	0.00	0.00	19.57
rs56034365	X-21796 levels	GCST90200580	6	25658352	C	T	8130	0.10	0.02	0.00	0.00	24.55
rs2000103	X-21796 levels	GCST90200580	6	69886628	G	T	8130	0.08	0.02	0.00	0.00	21.83
rs143000332	X-21796 levels	GCST90200580	6	91297667	C	T	8130	0.27	0.06	0.00	0.00	21.88
rs2941630	X-21796 levels	GCST90200580	8	105268115	A	G	8130	-0.10	0.02	0.00	0.00	25.54
rs56208285	X-21796 levels	GCST90200580	9	3733123	A	G	8130	0.23	0.05	0.00	0.00	23.51
rs365767	X-21796 levels	GCST90200580	9	103739399	G	A	8130	0.07	0.01	0.00	0.00	23.76
rs11045885	X-21796 levels	GCST90200580	12	21233084	G	A	8130	0.13	0.02	0.00	0.01	46.14
rs146541153	X-21796 levels	GCST90200580	12	85791402	A	G	8130	-0.11	0.02	0.00	0.00	20.40
rs7303369	X-21796 levels	GCST90200580	12	88389968	T	C	8130	-0.09	0.02	0.00	0.00	22.19
rs505018	X-21796 levels	GCST90200580	15	29424552	C	T	8130	0.26	0.06	0.00	0.00	20.33
rs75656674	X-21796 levels	GCST90200580	15	81614872	A	G	8130	-0.14	0.03	0.00	0.00	22.10
rs4785329	X-21796 levels	GCST90200580	16	49655328	A	G	8130	0.07	0.01	0.00	0.00	20.77
rs7507763	X-21796 levels	GCST90200580	19	32087506	G	A	8130	0.07	0.02	0.00	0.00	20.70
rs111840944	X-21796 levels	GCST90200580	19	41360658	A	G	8130	0.12	0.03	0.00	0.00	19.56
rs73185443	X-21796 levels	GCST90200580	21	15899020	C	A	8130	-0.45	0.10	0.00	0.00	20.76
rs688944	X-21441 levels	GCST90200581	1	20697851	A	G	8030	0.07	0.02	0.00	0.00	20.61
rs4653400	X-21441 levels	GCST90200581	1	34177164	T	G	8030	0.08	0.02	0.00	0.00	20.21
rs12038241	X-21441 levels	GCST90200581	1	119404375	G	A	8030	-0.08	0.02	0.00	0.00	26.09
rs12747487	X-21441 levels	GCST90200581	1	159407700	C	T	8030	-0.25	0.06	0.00	0.00	21.08
rs116599962	X-21441 levels	GCST90200581	1	173105443	T	C	8030	-0.27	0.06	0.00	0.00	19.94
rs6758763	X-21441 levels	GCST90200581	2	50440400	T	C	8030	0.13	0.03	0.00	0.00	25.30
rs115322107	X-21441 levels	GCST90200581	2	65048647	T	C	8030	0.27	0.06	0.00	0.00	21.80
rs7591332	X-21441 levels	GCST90200581	2	75493904	A	G	8030	0.17	0.04	0.00	0.00	21.38
rs2011425	X-21441 levels	GCST90200581	2	233718962	G	T	8030	0.36	0.03	0.00	0.02	169.93
rs17874945	X-21441 levels	GCST90200581	2	233756180	T	C	8030	-0.17	0.03	0.00	0.00	26.98
rs4515232	X-21441 levels	GCST90200581	4	69167747	G	T	8030	0.08	0.02	0.00	0.00	27.29
rs17702997	X-21441 levels	GCST90200581	4	87129290	G	A	8030	-0.15	0.03	0.00	0.00	19.91
rs9330356	X-21441 levels	GCST90200581	4	137506073	G	A	8030	-0.10	0.02	0.00	0.00	19.99
rs116162156	X-21441 levels	GCST90200581	4	189424412	A	G	8030	-0.17	0.04	0.00	0.00	22.74
rs145597828	X-21441 levels	GCST90200581	6	15562724	T	C	8030	0.38	0.09	0.00	0.00	19.86
rs4712015	X-21441 levels	GCST90200581	6	52748899	A	G	8030	0.08	0.02	0.00	0.00	24.00
rs9398432	X-21441 levels	GCST90200581	6	116407250	A	G	8030	-0.08	0.02	0.00	0.00	20.94
rs72838138	X-21441 levels	GCST90200581	10	99848144	A	G	8030	-0.60	0.03	0.00	0.04	335.98

rs117231340	X-21441 levels	GCST90200581	10	100056423	C	T	8030	0.25	0.05	0.00	0.00	26.00
rs189017081	X-21441 levels	GCST90200581	10	100126891	C	T	8030	0.41	0.06	0.00	0.01	46.33
rs138814906	X-21441 levels	GCST90200581	10	129305610	A	G	8030	1.59	0.35	0.00	0.00	21.33
rs11032438	X-21441 levels	GCST90200581	11	33887874	G	A	8030	-0.11	0.03	0.00	0.00	20.06
rs174549	X-21441 levels	GCST90200581	11	61803910	A	G	8030	-0.08	0.02	0.00	0.00	21.20
rs3858671	X-21441 levels	GCST90200581	12	20895092	T	C	8030	0.24	0.02	0.00	0.03	216.18
rs140593369	X-21441 levels	GCST90200581	12	21152412	A	T	8030	0.39	0.07	0.00	0.00	32.62
rs2806335	X-21441 levels	GCST90200581	13	103251034	C	T	8030	-0.07	0.02	0.00	0.00	19.64
rs79959535	X-21441 levels	GCST90200581	16	4286443	G	T	8030	-0.42	0.10	0.00	0.00	19.68
rs62041375	X-21441 levels	GCST90200581	16	52797612	A	C	8030	0.17	0.04	0.00	0.00	20.03
rs4790805	X-21441 levels	GCST90200581	17	1700896	G	A	8030	0.15	0.03	0.00	0.00	20.80
rs2325752	X-21441 levels	GCST90200581	17	47844540	C	T	8030	-0.07	0.02	0.00	0.00	21.26
rs2072365	X-21441 levels	GCST90200581	17	50675505	T	C	8030	-0.10	0.02	0.00	0.00	40.01
rs4603627	X-21441 levels	GCST90200581	18	13991027	G	A	8030	-0.09	0.02	0.00	0.00	19.72
rs12968265	X-21441 levels	GCST90200581	18	66258480	G	A	8030	0.21	0.05	0.00	0.00	21.60
rs212100	X-21441 levels	GCST90200581	19	47873738	C	T	8030	0.27	0.02	0.00	0.02	163.35
rs150614649	X-21752 levels	GCST90200582	1	191304883	G	A	6526	0.25	0.06	0.00	0.00	19.94
rs61824284	X-21752 levels	GCST90200582	1	222657082	C	T	6526	0.28	0.06	0.00	0.00	19.70
rs7420715	X-21752 levels	GCST90200582	2	189034846	C	T	6526	-0.20	0.04	0.00	0.00	20.54
rs1911006	X-21752 levels	GCST90200582	3	20499635	A	G	6526	-0.08	0.02	0.00	0.00	20.17
rs73105305	X-21752 levels	GCST90200582	3	77510821	C	T	6526	0.12	0.02	0.00	0.00	23.64
rs192972668	X-21752 levels	GCST90200582	3	195562838	A	G	6526	-0.38	0.08	0.00	0.00	20.40
rs4834291	X-21752 levels	GCST90200582	4	112561562	A	G	6526	0.09	0.02	0.00	0.00	26.93
rs79964157	X-21752 levels	GCST90200582	5	55789026	G	A	6526	-0.18	0.04	0.00	0.00	20.70
rs59498533	X-21752 levels	GCST90200582	5	74147656	A	T	6526	-0.21	0.04	0.00	0.00	21.87
rs12526387	X-21752 levels	GCST90200582	6	161438596	G	A	6526	-0.23	0.05	0.00	0.00	20.16
rs150610042	X-21752 levels	GCST90200582	7	19022643	T	A	6526	-0.30	0.06	0.00	0.00	21.65
rs7780237	X-21752 levels	GCST90200582	7	19438263	A	G	6526	-0.18	0.04	0.00	0.00	20.88
rs7826872	X-21752 levels	GCST90200582	8	131059519	T	C	6526	-0.08	0.02	0.00	0.00	19.80
rs985799	X-21752 levels	GCST90200582	9	16987834	T	A	6526	-0.11	0.02	0.00	0.00	22.01
rs7847123	X-21752 levels	GCST90200582	9	118391606	T	G	6526	0.10	0.02	0.00	0.00	21.91
rs138155819	X-21752 levels	GCST90200582	11	32651142	T	C	6526	-0.40	0.08	0.00	0.00	22.77
rs500755	X-21752 levels	GCST90200582	13	20946332	G	A	6526	-0.10	0.02	0.00	0.00	22.06
rs35502498	X-21752 levels	GCST90200582	17	66722407	G	A	6526	0.10	0.02	0.00	0.00	19.79
rs78575559	X-21752 levels	GCST90200582	18	79600020	T	C	6526	0.16	0.04	0.00	0.00	19.92
rs8108074	X-21752 levels	GCST90200582	19	51627672	A	G	6526	-0.10	0.02	0.00	0.00	19.85
rs116949026	X-21752 levels	GCST90200582	20	11602550	G	A	6526	0.45	0.09	0.00	0.00	23.31
rs71326585	X-21752 levels	GCST90200582	22	35728151	A	G	6526	0.38	0.07	0.00	0.00	25.68
rs72633055	X-21807 levels	GCST90200583	1	7883259	A	G	5602	0.12	0.03	0.00	0.00	22.38
rs9879188	X-21807 levels	GCST90200583	3	165888389	G	A	5602	-0.09	0.02	0.00	0.00	22.40
rs113407847	X-21807 levels	GCST90200583	4	3210115	G	A	5602	-0.17	0.04	0.00	0.00	20.34
rs7696304	X-21807 levels	GCST90200583	4	88038846	G	A	5602	-0.09	0.02	0.00	0.00	20.45
rs35644339	X-21807 levels	GCST90200583	4	177525690	A	C	5602	-0.09	0.02	0.00	0.00	21.35
rs115038878	X-21807 levels	GCST90200583	5	163053479	G	A	5602	0.46	0.10	0.00	0.00	22.38
rs138478119	X-21807 levels	GCST90200583	6	100976349	T	C	5602	0.33	0.07	0.00	0.00	20.62
rs17131842	X-21807 levels	GCST90200583	7	47836969	A	G	5602	0.18	0.04	0.00	0.00	20.21
rs6968643	X-21807 levels	GCST90200583	7	156470738	T	G	5602	0.28	0.06	0.00	0.00	20.21
rs34009719	X-21807 levels	GCST90200583	10	56223817	C	A	5602	-0.10	0.02	0.00	0.00	19.67
rs3750842	X-21807 levels	GCST90200583	10	122013508	C	A	5602	-0.12	0.03	0.00	0.00	21.50
rs116891475	X-21807 levels	GCST90200583	12	124474284	T	C	5602	-0.44	0.10	0.00	0.00	21.46
rs74374125	X-21807 levels	GCST90200583	14	93447069	C	T	5602	-0.50	0.11	0.00	0.00	19.87
rs148297400	X-21807 levels	GCST90200583	15	84140491	A	G	5602	0.43	0.09	0.00	0.00	20.70
rs10153078	X-21807 levels	GCST90200583	16	77400220	G	C	5602	0.10	0.02	0.00	0.00	21.01
rs76563564	X-21807 levels	GCST90200583	18	8029107	A	G	5602	0.28	0.05	0.00	0.00	26.97
rs77581353	X-21807 levels	GCST90200583	19	53192983	A	G	5602	0.74	0.15	0.00	0.00	24.81
rs118149585	X-21807 levels	GCST90200583	20	24508566	G	A	5602	0.19	0.04	0.00	0.00	20.45
rs367677895	X-21807 levels	GCST90200583	20	36877399	G	A	5602	-0.33	0.07	0.00	0.00	20.85
rs2830042	X-21807 levels	GCST90200583	21	26076454	C	T	5602	0.16	0.04	0.00	0.00	21.18

rs5758092	X-21807 levels	GCST90200583	22	40819179	G	A	5602	-0.22	0.05	0.00	0.00	21.60
rs17397993	X-21736 levels	GCST90200584	1	51465452	G	A	8232	0.18	0.04	0.00	0.00	20.21
rs12145550	X-21736 levels	GCST90200584	1	75638072	C	T	8232	-0.11	0.02	0.00	0.00	36.10
rs143280608	X-21736 levels	GCST90200584	1	115415286	C	T	8232	-0.35	0.08	0.00	0.00	20.35
rs1163541	X-21736 levels	GCST90200584	1	119798295	A	G	8232	-0.10	0.02	0.00	0.00	38.36
rs6684114	X-21736 levels	GCST90200584	1	151956239	G	A	8232	0.09	0.02	0.00	0.00	27.40
rs372948228	X-21736 levels	GCST90200584	2	29713850	A	T	8232	-0.38	0.08	0.00	0.00	25.07
rs77987437	X-21736 levels	GCST90200584	3	10667825	G	A	8232	0.22	0.05	0.00	0.00	24.36
rs13095929	X-21736 levels	GCST90200584	3	111769566	A	G	8232	0.08	0.02	0.00	0.00	20.79
rs76316086	X-21736 levels	GCST90200584	3	136938110	A	T	8232	0.33	0.07	0.00	0.00	25.12
rs73151600	X-21736 levels	GCST90200584	3	144468631	A	G	8232	0.30	0.06	0.00	0.00	21.29
rs148983195	X-21736 levels	GCST90200584	5	111776895	A	C	8232	0.27	0.06	0.00	0.00	23.39
rs1025483	X-21736 levels	GCST90200584	5	167502348	C	A	8232	0.07	0.02	0.00	0.00	19.56
rs12662869	X-21736 levels	GCST90200584	6	25784253	A	C	8232	-0.07	0.02	0.00	0.00	20.38
rs2504949	X-21736 levels	GCST90200584	6	160290121	C	G	8232	-0.07	0.02	0.00	0.00	22.40
rs35394837	X-21736 levels	GCST90200584	8	34790334	G	A	8232	0.27	0.05	0.00	0.00	28.12
rs34524022	X-21736 levels	GCST90200584	8	71310916	A	G	8232	0.08	0.02	0.00	0.00	21.99
rs459683	X-21736 levels	GCST90200584	9	4851461	G	A	8232	-0.11	0.02	0.00	0.00	20.50
rs117158361	X-21736 levels	GCST90200584	9	69448755	T	C	8232	0.32	0.07	0.00	0.00	23.64
rs10987640	X-21736 levels	GCST90200584	9	127410707	A	T	8232	-0.08	0.02	0.00	0.00	20.02
rs12245149	X-21736 levels	GCST90200584	10	63561387	A	C	8232	0.07	0.02	0.00	0.00	24.05
rs60503252	X-21736 levels	GCST90200584	11	1904987	C	T	8232	0.25	0.06	0.00	0.00	20.66
rs140752642	X-21736 levels	GCST90200584	11	69509535	A	G	8232	0.56	0.12	0.00	0.00	23.21
rs34702551	X-21736 levels	GCST90200584	12	101118427	G	T	8232	-0.11	0.02	0.00	0.00	22.43
rs60432991	X-21736 levels	GCST90200584	13	28547605	T	C	8232	-0.11	0.03	0.00	0.00	20.29
rs2147479	X-21736 levels	GCST90200584	13	105422547	C	T	8232	0.07	0.02	0.00	0.00	19.74
rs75905424	X-21736 levels	GCST90200584	14	54978710	C	T	8232	0.18	0.04	0.00	0.00	21.71
rs10851542	X-21736 levels	GCST90200584	15	53622218	A	G	8232	0.07	0.02	0.00	0.00	22.27
rs78588389	X-21736 levels	GCST90200584	15	70699689	C	T	8232	0.20	0.04	0.00	0.00	25.36
rs2966062	X-21736 levels	GCST90200584	16	77807774	A	G	8232	0.18	0.04	0.00	0.00	22.18
rs77875559	X-21736 levels	GCST90200584	17	10111022	C	G	8232	-0.28	0.06	0.00	0.00	20.76
rs72826199	X-21736 levels	GCST90200584	17	37235780	T	C	8232	-0.27	0.06	0.00	0.00	20.07
rs145139967	X-21736 levels	GCST90200584	17	78657179	G	A	8232	-0.29	0.06	0.00	0.00	24.05
rs76030204	X-21736 levels	GCST90200584	21	22236978	A	G	8232	-0.17	0.04	0.00	0.00	19.78
rs11576656	X-21829 levels	GCST90200585	1	46953896	A	T	8217	0.19	0.02	0.00	0.01	56.66
rs12145550	X-21829 levels	GCST90200585	1	75638072	C	T	8217	-0.10	0.02	0.00	0.00	28.76
rs2582788	X-21829 levels	GCST90200585	1	119777874	G	T	8217	-0.11	0.02	0.00	0.01	41.48
rs4233731	X-21829 levels	GCST90200585	2	28938144	A	G	8217	-0.15	0.03	0.00	0.00	24.86
rs72797439	X-21829 levels	GCST90200585	2	46409647	C	T	8217	-0.33	0.07	0.00	0.00	20.35
rs79869101	X-21829 levels	GCST90200585	2	112674422	A	C	8217	-0.26	0.06	0.00	0.00	19.59
rs13397324	X-21829 levels	GCST90200585	2	132574501	T	C	8217	0.07	0.02	0.00	0.00	20.08
rs144441178	X-21829 levels	GCST90200585	2	235391563	C	A	8217	-0.26	0.05	0.00	0.00	27.12
rs12991682	X-21829 levels	GCST90200585	2	236848712	T	C	8217	-0.10	0.02	0.00	0.00	19.97
rs73151600	X-21829 levels	GCST90200585	3	144468631	A	G	8217	0.32	0.06	0.00	0.00	25.38
rs9812036	X-21829 levels	GCST90200585	3	196202397	G	A	8217	-0.15	0.03	0.00	0.00	20.64
rs114021007	X-21829 levels	GCST90200585	5	155946150	T	C	8217	-0.24	0.05	0.00	0.00	20.23
rs9503226	X-21829 levels	GCST90200585	6	2604411	T	C	8217	0.13	0.03	0.00	0.00	20.31
rs1165189	X-21829 levels	GCST90200585	6	25849551	C	A	8217	0.15	0.02	0.00	0.01	70.19
rs113213779	X-21829 levels	GCST90200585	6	39316602	T	C	8217	-0.19	0.04	0.00	0.00	19.52
rs145647804	X-21829 levels	GCST90200585	7	17310416	G	C	8217	0.19	0.04	0.00	0.00	20.22
rs139355877	X-21829 levels	GCST90200585	8	18984785	T	A	8217	-0.28	0.06	0.00	0.00	21.63
rs118165660	X-21829 levels	GCST90200585	9	14343427	A	G	8217	-0.30	0.06	0.00	0.00	21.76
rs11141654	X-21829 levels	GCST90200585	9	87030986	A	G	8217	-0.09	0.02	0.00	0.00	20.43
rs7034001	X-21829 levels	GCST90200585	9	107571151	T	C	8217	-0.10	0.02	0.00	0.00	23.51
rs11193939	X-21829 levels	GCST90200585	10	108178177	G	T	8217	0.19	0.04	0.00	0.00	22.69
rs694746	X-21829 levels	GCST90200585	11	67583249	C	G	8217	-0.07	0.02	0.00	0.00	23.49
rs181910869	X-21829 levels	GCST90200585	12	81659545	C	A	8217	0.37	0.08	0.00	0.00	24.71
rs60432991	X-21829 levels	GCST90200585	13	28547605	T	C	8217	-0.13	0.03	0.00	0.00	25.40
rs978713	X-21829 levels	GCST90200585	13	105414585	T	C	8217	0.08	0.02	0.00	0.00	22.96
rs1189827	X-21829 levels	GCST90200585	14	57066746	A	G	8217	0.07	0.02	0.00	0.00	22.37
rs72826199	X-21829 levels	GCST90200585	17	37235780	T	C	8217	-0.30	0.06	0.00	0.00	23.84

rs68168074	X-21829 levels	GCST90200585	19	21937531	T	C	8217	-0.11	0.02	0.00	0.00	20.13
rs12460535	X-21829 levels	GCST90200585	19	48595493	G	A	8217	0.07	0.02	0.00	0.00	21.04
rs117527330	X-21829 levels	GCST90200585	19	53748793	A	G	8217	0.19	0.04	0.00	0.00	19.74
rs62210558	X-21829 levels	GCST90200585	20	3925783	T	C	8217	0.41	0.09	0.00	0.00	22.71
rs3789505	X-21471 levels	GCST90200586	1	6282285	T	C	7982	0.17	0.04	0.00	0.00	20.91
rs114114736	X-21471 levels	GCST90200586	1	20711463	T	C	7982	-0.22	0.05	0.00	0.00	20.05
rs61780033	X-21471 levels	GCST90200586	1	38845483	A	G	7982	-0.25	0.06	0.00	0.00	19.92
rs1260333	X-21471 levels	GCST90200586	2	27525757	G	A	7982	-0.08	0.02	0.00	0.00	28.86
rs146939592	X-21471 levels	GCST90200586	4	39821898	G	A	7982	0.33	0.07	0.00	0.00	24.36
rs10005620	X-21471 levels	GCST90200586	4	52756304	A	C	7982	0.09	0.02	0.00	0.00	19.68
rs6876434	X-21471 levels	GCST90200586	5	55022012	C	T	7982	0.09	0.02	0.00	0.00	26.10
rs113812196	X-21471 levels	GCST90200586	5	96697185	A	G	7982	-0.26	0.06	0.00	0.00	21.29
rs7713886	X-21471 levels	GCST90200586	5	148645595	T	C	7982	-0.09	0.02	0.00	0.00	22.31
rs113425901	X-21471 levels	GCST90200586	6	16851408	T	C	7982	-0.32	0.07	0.00	0.00	19.74
rs117222455	X-21471 levels	GCST90200586	7	19264297	C	T	7982	-0.24	0.05	0.00	0.00	20.36
rs117988718	X-21471 levels	GCST90200586	7	49211653	A	G	7982	0.23	0.05	0.00	0.00	20.06
rs1057868	X-21471 levels	GCST90200586	7	75985688	T	C	7982	0.08	0.02	0.00	0.00	22.89
rs59683852	X-21471 levels	GCST90200586	7	92117086	A	G	7982	-0.61	0.11	0.00	0.00	29.16
rs35249383	X-21471 levels	GCST90200586	9	128598749	A	T	7982	-0.27	0.06	0.00	0.00	22.67
rs72838129	X-21471 levels	GCST90200586	10	99844724	C	T	7982	-0.58	0.03	0.00	0.04	313.29
rs189017081	X-21471 levels	GCST90200586	10	100126891	C	T	7982	0.46	0.06	0.00	0.01	59.46
rs4762697	X-21471 levels	GCST90200586	12	21162039	T	A	7982	0.17	0.02	0.00	0.01	97.60
rs2900478	X-21471 levels	GCST90200586	12	21215863	A	T	7982	0.35	0.02	0.00	0.04	303.85
rs189767754	X-21471 levels	GCST90200586	12	113637132	G	A	7982	0.35	0.08	0.00	0.00	20.06
rs34371091	X-21471 levels	GCST90200586	14	20826443	T	G	7982	0.13	0.03	0.00	0.00	19.62
rs148544135	X-21471 levels	GCST90200586	14	76961782	G	A	7982	0.33	0.08	0.00	0.00	19.63
rs841217	X-21471 levels	GCST90200586	16	4696391	C	T	7982	-0.08	0.02	0.00	0.00	23.69
rs2178720	X-21471 levels	GCST90200586	16	7219846	T	C	7982	-0.08	0.02	0.00	0.00	22.23
rs75369470	X-21471 levels	GCST90200586	16	10104094	T	C	7982	0.23	0.05	0.00	0.00	20.93
rs116576599	X-21471 levels	GCST90200586	16	80836758	T	C	7982	0.15	0.03	0.00	0.00	20.88
rs77100631	X-21471 levels	GCST90200586	17	78006774	G	A	7982	-0.16	0.03	0.00	0.00	22.84
rs212100	X-21471 levels	GCST90200586	19	47873738	C	T	7982	0.33	0.02	0.00	0.03	247.02
rs116774173	X-21733 levels	GCST90200587	1	118997880	T	G	6916	0.29	0.06	0.00	0.00	20.90
rs11688594	X-21733 levels	GCST90200587	2	12632886	T	A	6916	-0.13	0.03	0.00	0.00	23.23
rs10933869	X-21733 levels	GCST90200587	3	106651032	T	C	6916	-0.13	0.02	0.00	0.00	28.53
rs78096805	X-21733 levels	GCST90200587	3	173850336	G	A	6916	0.28	0.06	0.00	0.00	21.71
rs141608621	X-21733 levels	GCST90200587	4	43913072	G	A	6916	-0.33	0.07	0.00	0.00	21.19
rs75187800	X-21733 levels	GCST90200587	4	68670996	A	G	6916	-0.11	0.02	0.00	0.01	37.65
rs6837741	X-21733 levels	GCST90200587	4	185868337	T	C	6916	0.08	0.02	0.00	0.00	21.56
rs13354642	X-21733 levels	GCST90200587	5	17814313	C	T	6916	0.09	0.02	0.00	0.00	24.40
rs4946689	X-21733 levels	GCST90200587	6	105753733	A	G	6916	0.11	0.02	0.00	0.00	22.66
rs4410790	X-21733 levels	GCST90200587	7	17244953	C	T	6916	-0.09	0.02	0.00	0.00	30.54
rs111501930	X-21733 levels	GCST90200587	7	68990144	A	G	6916	-0.29	0.06	0.00	0.00	20.29
rs6982892	X-21733 levels	GCST90200587	8	68503514	G	A	6916	0.12	0.03	0.00	0.00	20.54
rs10107132	X-21733 levels	GCST90200587	8	90338460	G	A	6916	0.08	0.02	0.00	0.00	20.31
rs189664131	X-21733 levels	GCST90200587	9	118252877	G	T	6916	-0.22	0.05	0.00	0.00	22.61
rs9872174	X-21733 levels	GCST90200587	10	126863796	A	G	6916	0.08	0.02	0.00	0.00	24.18
rs1413912	X-21733 levels	GCST90200587	13	22330891	G	A	6916	-0.09	0.02	0.00	0.00	28.71
rs12894741	X-21733 levels	GCST90200587	14	53324775	C	A	6916	-0.31	0.07	0.00	0.00	22.12
rs6494077	X-21733 levels	GCST90200587	15	31948434	G	A	6916	-0.09	0.02	0.00	0.00	23.01
rs2472297	X-21733 levels	GCST90200587	15	74735539	T	C	6916	-0.10	0.02	0.00	0.00	25.99
rs8026683	X-21733 levels	GCST90200587	15	86282024	A	C	6916	0.12	0.03	0.00	0.00	20.45
rs8335	X-21733 levels	GCST90200587	16	29858427	C	G	6916	-0.17	0.04	0.00	0.00	20.76
rs740641	X-21733 levels	GCST90200587	17	9170476	T	C	6916	-0.14	0.03	0.00	0.00	22.84
rs17138637	X-21733 levels	GCST90200587	17	37530862	C	T	6916	-0.15	0.03	0.00	0.00	19.52
rs17224726	X-21733 levels	GCST90200587	18	26495144	T	C	6916	-0.21	0.05	0.00	0.00	19.88
rs56113850	X-21733 levels	GCST90200587	19	40847202	C	T	6916	-0.10	0.02	0.00	0.00	33.70
rs1064257	X-21733 levels	GCST90200587	19	49490278	G	C	6916	0.20	0.04	0.00	0.00	24.02
rs6021046	X-21733 levels	GCST90200587	20	51209643	T	C	6916	-0.09	0.02	0.00	0.00	19.84

rs57037319	X-21733 levels	GCST90200587	21	23562384	T	C	6916	-0.43	0.09	0.00	0.00	21.29
rs8134847	X-21733 levels	GCST90200587	21	33647855	T	C	6916	-0.08	0.02	0.00	0.00	20.50
rs74143949	X-21742 levels	GCST90200588	1	228989423	T	C	5918	0.17	0.04	0.00	0.00	20.32
rs4663341	X-21742 levels	GCST90200588	2	233931387	T	C	5918	0.64	0.14	0.00	0.00	21.86
rs114913180	X-21742 levels	GCST90200588	3	72041234	C	T	5918	0.38	0.08	0.00	0.00	22.13
rs77842584	X-21742 levels	GCST90200588	3	189248451	G	C	5918	0.13	0.03	0.00	0.00	20.67
rs115014337	X-21742 levels	GCST90200588	4	174055127	A	G	5918	0.47	0.10	0.00	0.00	20.49
rs138633580	X-21742 levels	GCST90200588	6	23047229	C	G	5918	0.30	0.07	0.00	0.00	19.66
rs9398050	X-21742 levels	GCST90200588	6	105890405	C	T	5918	0.11	0.02	0.00	0.00	20.62
rs79212976	X-21742 levels	GCST90200588	6	133035274	C	A	5918	0.25	0.06	0.00	0.00	19.70
rs2390595	X-21742 levels	GCST90200588	7	21875846	A	G	5918	-0.08	0.02	0.00	0.00	19.86
rs997892	X-21742 levels	GCST90200588	7	25221237	C	A	5918	0.16	0.03	0.00	0.00	23.37
rs11988096	X-21742 levels	GCST90200588	8	13087103	T	C	5918	-0.08	0.02	0.00	0.00	20.26
rs57898294	X-21742 levels	GCST90200588	8	134583167	C	T	5918	-0.09	0.02	0.00	0.00	21.37
rs2015408	X-21742 levels	GCST90200588	9	114235714	C	T	5918	-0.10	0.02	0.00	0.00	19.87
rs143136946	X-21742 levels	GCST90200588	12	47721416	G	A	5918	0.32	0.07	0.00	0.00	20.24
rs150737155	X-21742 levels	GCST90200588	12	105760029	A	G	5918	0.29	0.06	0.00	0.00	22.58
rs118141882	X-21742 levels	GCST90200588	15	61409322	C	T	5918	0.24	0.05	0.00	0.00	20.08
rs76157525	X-21742 levels	GCST90200588	15	75846006	A	G	5918	0.34	0.07	0.00	0.00	23.10
rs144809040	X-21742 levels	GCST90200588	16	59490429	G	A	5918	-0.31	0.07	0.00	0.00	20.82
rs4924804	X-21742 levels	GCST90200588	17	20088526	T	C	5918	0.10	0.02	0.00	0.00	28.26
rs141079659	X-21742 levels	GCST90200588	19	47394619	G	A	5918	0.26	0.06	0.00	0.00	20.49
rs12756428	X-21821 levels	GCST90200589	1	3967395	A	G	7699	0.22	0.04	0.00	0.00	24.64
rs114231780	X-21821 levels	GCST90200589	1	106225365	G	A	7699	0.24	0.05	0.00	0.00	20.45
rs116274970	X-21821 levels	GCST90200589	1	171658111	C	A	7699	-0.14	0.03	0.00	0.00	19.63
rs6729700	X-21821 levels	GCST90200589	2	80034044	T	C	7699	0.07	0.02	0.00	0.00	20.04
rs3754686	X-21821 levels	GCST90200589	2	135845706	C	T	7699	-0.08	0.02	0.00	0.00	23.37
rs72917807	X-21821 levels	GCST90200589	2	204086130	A	C	7699	0.35	0.08	0.00	0.00	20.96
rs11722698	X-21821 levels	GCST90200589	4	118090287	A	G	7699	-0.10	0.02	0.00	0.00	21.29
rs79074891	X-21821 levels	GCST90200589	5	106263071	G	T	7699	-0.21	0.05	0.00	0.00	20.08
rs77801681	X-21821 levels	GCST90200589	5	172157092	T	A	7699	0.23	0.05	0.00	0.00	22.13
rs9379522	X-21821 levels	GCST90200589	6	23596831	T	C	7699	0.07	0.02	0.00	0.00	19.77
rs34964258	X-21821 levels	GCST90200589	7	47515187	G	A	7699	0.09	0.02	0.00	0.00	20.30
rs76745761	X-21821 levels	GCST90200589	7	137327814	G	A	7699	0.23	0.05	0.00	0.00	20.61
rs7826908	X-21821 levels	GCST90200589	8	38911298	G	A	7699	0.08	0.02	0.00	0.00	22.25
rs570138044	X-21821 levels	GCST90200589	8	128559204	A	G	7699	0.31	0.07	0.00	0.00	20.67
rs77499139	X-21821 levels	GCST90200589	9	16721102	C	T	7699	0.41	0.09	0.00	0.00	22.59
rs11142602	X-21821 levels	GCST90200589	9	70823651	G	T	7699	-0.20	0.04	0.00	0.00	20.77
rs182785164	X-21821 levels	GCST90200589	14	39411161	C	T	7699	-0.43	0.09	0.00	0.00	20.17
rs1133607	X-21821 levels	GCST90200589	16	20483086	T	C	7699	-0.16	0.03	0.00	0.00	31.99
rs35382316	X-21821 levels	GCST90200589	19	46530730	G	C	7699	0.07	0.02	0.00	0.00	20.01
rs9981680	X-21821 levels	GCST90200589	21	32008646	G	T	7699	0.17	0.04	0.00	0.00	19.67
rs28687348	X-21821 levels	GCST90200589	22	49357392	C	G	7699	-0.14	0.03	0.00	0.00	19.53
rs75561083	X-21470 levels	GCST90200590	1	18620603	T	C	7700	0.32	0.06	0.00	0.00	25.91
rs142838516	X-21470 levels	GCST90200590	1	247371290	A	G	7700	-0.36	0.08	0.00	0.00	20.15
rs185483376	X-21470 levels	GCST90200590	2	79477196	G	A	7700	-0.41	0.08	0.00	0.00	25.32
rs11895695	X-21470 levels	GCST90200590	2	235371872	T	C	7700	0.15	0.03	0.00	0.00	19.96
rs2342307	X-21470 levels	GCST90200590	3	196215616	G	A	7700	-0.09	0.02	0.00	0.00	28.06
rs1165181	X-21470 levels	GCST90200590	6	25825162	A	T	7700	-0.12	0.02	0.00	0.01	50.79
rs9458500	X-21470 levels	GCST90200590	6	162294270	T	C	7700	-0.37	0.08	0.00	0.00	21.62
rs148982377	X-21470 levels	GCST90200590	7	99477415	C	T	7700	0.27	0.04	0.00	0.01	40.54
rs118157721	X-21470 levels	GCST90200590	8	64217805	C	A	7700	-0.18	0.04	0.00	0.00	22.87
rs11008012	X-21470 levels	GCST90200590	10	30360443	G	A	7700	-0.08	0.02	0.00	0.00	23.83
rs55725645	X-21470 levels	GCST90200590	10	99872116	C	T	7700	-0.21	0.03	0.00	0.01	40.70
rs77841236	X-21470 levels	GCST90200590	11	44208354	T	C	7700	0.12	0.03	0.00	0.00	19.93
rs1944158	X-21470 levels	GCST90200590	11	100268000	G	A	7700	-0.17	0.04	0.00	0.00	21.57
rs589721	X-21470 levels	GCST90200590	11	132517566	C	T	7700	-0.08	0.02	0.00	0.00	26.07
rs58310495	X-21470 levels	GCST90200590	12	21204777	T	C	7700	0.23	0.02	0.00	0.01	117.03

rs11045962	X-21470 levels	GCST90200590	12	21308602	T	A	7700	-0.13	0.02	0.00	0.00	31.79
rs183165814	X-21470 levels	GCST90200590	14	84826857	G	A	7700	0.17	0.04	0.00	0.00	21.18
rs212100	X-21470 levels	GCST90200590	19	47873738	C	T	7700	0.35	0.02	0.00	0.03	273.29
rs680891	X-21470 levels	GCST90200590	19	54821568	T	C	7700	0.10	0.02	0.00	0.00	23.91
rs148029151	X-21383 levels	GCST90200591	1	11733777	C	T	8226	-0.25	0.06	0.00	0.00	19.61
rs145366123	X-21383 levels	GCST90200591	1	78020806	T	G	8226	0.26	0.06	0.00	0.00	19.98
rs115617321	X-21383 levels	GCST90200591	1	156244942	A	G	8226	0.20	0.04	0.00	0.00	20.17
rs1589049	X-21383 levels	GCST90200591	1	189871223	A	C	8226	0.13	0.03	0.00	0.00	20.84
rs114843620	X-21383 levels	GCST90200591	2	2966245	C	T	8226	-0.48	0.11	0.00	0.00	20.56
rs139236328	X-21383 levels	GCST90200591	2	69233200	T	C	8226	-0.23	0.05	0.00	0.00	19.95
rs9828472	X-21383 levels	GCST90200591	3	66898451	T	C	8226	-0.09	0.02	0.00	0.00	21.15
rs181038675	X-21383 levels	GCST90200591	4	58033102	C	T	8226	1.09	0.24	0.00	0.00	20.35
rs137893440	X-21383 levels	GCST90200591	4	111975483	G	T	8226	-0.37	0.08	0.00	0.00	21.72
rs112026728	X-21383 levels	GCST90200591	6	113401679	T	C	8226	0.16	0.04	0.00	0.00	20.51
rs147339643	X-21383 levels	GCST90200591	7	25842867	A	C	8226	-0.31	0.07	0.00	0.00	19.74
rs137909323	X-21383 levels	GCST90200591	7	96782950	A	G	8226	0.14	0.03	0.00	0.00	30.09
rs78242485	X-21383 levels	GCST90200591	8	15611477	A	G	8226	0.38	0.08	0.00	0.00	25.45
rs73224068	X-21383 levels	GCST90200591	8	20667942	T	C	8226	-0.17	0.04	0.00	0.00	22.03
rs75091059	X-21383 levels	GCST90200591	9	5999836	G	A	8226	0.18	0.04	0.00	0.00	19.65
rs74769880	X-21383 levels	GCST90200591	9	14996618	A	C	8226	-0.11	0.02	0.00	0.00	22.09
rs72747629	X-21383 levels	GCST90200591	9	101811196	G	A	8226	0.11	0.02	0.00	0.00	20.21
rs34107305	X-21383 levels	GCST90200591	11	1625030	A	G	8226	-0.15	0.03	0.00	0.00	25.60
rs141485148	X-21383 levels	GCST90200591	11	131864380	G	A	8226	-0.55	0.13	0.00	0.00	19.56
rs17256058	X-21383 levels	GCST90200591	14	23123282	T	G	8226	0.11	0.02	0.00	0.00	22.59
rs2059240	X-21383 levels	GCST90200591	16	79529388	C	G	8226	0.08	0.02	0.00	0.00	21.82
rs2584653	X-21383 levels	GCST90200591	17	49499869	G	A	8226	0.15	0.03	0.00	0.00	26.58
rs4791020	X-21383 levels	GCST90200591	17	66869603	G	T	8226	-0.07	0.02	0.00	0.00	22.01
rs237465	X-21383 levels	GCST90200591	20	49417619	G	A	8226	-0.07	0.02	0.00	0.00	21.32
rs111856682	X-21383 levels	GCST90200591	22	34408534	T	C	8226	-0.08	0.02	0.00	0.00	24.46
rs2744881	X-21383 levels	GCST90200591	22	43344412	G	A	8226	-0.08	0.02	0.00	0.00	23.04
rs527679656	X-21607 levels	GCST90200592	1	28735264	A	G	7975	0.34	0.08	0.00	0.00	20.16
rs12095130	X-21607 levels	GCST90200592	1	46880254	A	T	7975	0.15	0.02	0.00	0.00	39.94
rs149556176	X-21607 levels	GCST90200592	1	74971148	C	T	7975	0.31	0.06	0.00	0.00	23.11
rs12123977	X-21607 levels	GCST90200592	1	75744069	A	G	7975	-0.29	0.02	0.00	0.04	313.88
rs12030909	X-21607 levels	GCST90200592	1	91931772	C	T	7975	0.13	0.03	0.00	0.00	21.13
rs28415528	X-21607 levels	GCST90200592	1	151907285	A	G	7975	-0.26	0.02	0.00	0.03	245.76
rs139526938	X-21607 levels	GCST90200592	1	219574727	A	G	7975	0.37	0.08	0.00	0.00	23.35
rs75319332	X-21607 levels	GCST90200592	2	181708936	G	A	7975	-0.36	0.07	0.00	0.00	23.93
rs114990710	X-21607 levels	GCST90200592	2	211517119	C	T	7975	-0.37	0.08	0.00	0.00	23.61
rs79758596	X-21607 levels	GCST90200592	4	91871796	G	A	7975	-0.20	0.04	0.00	0.00	21.97
rs56393364	X-21607 levels	GCST90200592	5	125180055	T	C	7975	-0.18	0.04	0.00	0.00	21.45
rs139410868	X-21607 levels	GCST90200592	6	128848756	T	A	7975	0.17	0.04	0.00	0.00	21.23
rs140254908	X-21607 levels	GCST90200592	7	148174565	T	C	7975	0.30	0.07	0.00	0.00	19.72
rs9325857	X-21607 levels	GCST90200592	8	19340298	A	G	7975	0.09	0.02	0.00	0.00	20.13
rs4434621	X-21607 levels	GCST90200592	8	82527569	C	G	7975	-0.07	0.02	0.00	0.00	22.25
rs1105115	X-21607 levels	GCST90200592	9	72458682	C	T	7975	-0.07	0.02	0.00	0.00	21.58
rs117561283	X-21607 levels	GCST90200592	12	68052813	T	G	7975	-0.24	0.05	0.00	0.00	21.01
rs10744217	X-21607 levels	GCST90200592	12	122457523	G	A	7975	-0.08	0.02	0.00	0.00	22.94
rs1271309	X-21607 levels	GCST90200592	12	124336159	G	A	7975	0.10	0.02	0.00	0.00	23.53
rs117288394	X-21607 levels	GCST90200592	13	84421316	A	G	7975	-0.33	0.07	0.00	0.00	20.69
rs2041073	X-21607 levels	GCST90200592	14	73505831	C	T	7975	-0.20	0.02	0.00	0.02	164.21
rs966223	X-21607 levels	GCST90200592	15	29297329	C	T	7975	-0.08	0.02	0.00	0.00	23.69
rs72780386	X-21607 levels	GCST90200592	16	49814916	T	C	7975	-0.09	0.02	0.00	0.00	23.49

rs9897923	X-21607 levels	GCST90200592	17	3160358	G	T	7975	0.11	0.03	0.00	0.00	19.55
rs112809678	X-21607 levels	GCST90200592	18	38801001	G	A	7975	-0.34	0.07	0.00	0.00	22.02
rs552255918	X-21607 levels	GCST90200592	19	43270349	T	G	7975	0.44	0.10	0.00	0.00	20.24
rs75629546	X-21607 levels	GCST90200592	20	5650512	C	T	7975	-0.16	0.04	0.00	0.00	19.76
rs138718754	X-21607 levels	GCST90200592	21	22019446	G	A	7975	0.30	0.07	0.00	0.00	20.07
rs72727918	X-21834 levels	GCST90200593	1	95603532	A	G	7466	0.16	0.04	0.00	0.00	20.89
rs4672497	X-21834 levels	GCST90200593	2	62296430	G	C	7466	-0.10	0.02	0.00	0.00	25.75
rs114818949	X-21834 levels	GCST90200593	2	115587986	C	G	7466	0.29	0.06	0.00	0.00	21.39
rs4685976	X-21834 levels	GCST90200593	3	5700015	C	T	7466	0.08	0.02	0.00	0.00	20.95
rs113142263	X-21834 levels	GCST90200593	4	21352810	T	A	7466	-0.12	0.03	0.00	0.00	20.01
rs112479426	X-21834 levels	GCST90200593	4	123552140	A	C	7466	0.18	0.04	0.00	0.00	23.54
rs80091228	X-21834 levels	GCST90200593	4	181265249	G	A	7466	0.16	0.04	0.00	0.00	20.36
rs143483676	X-21834 levels	GCST90200593	7	153498564	T	A	7466	0.52	0.11	0.00	0.00	22.83
rs140807839	X-21834 levels	GCST90200593	8	34055758	T	C	7466	0.21	0.05	0.00	0.00	20.45
rs12542665	X-21834 levels	GCST90200593	8	69331705	C	T	7466	0.08	0.02	0.00	0.00	20.66
rs62577207	X-21834 levels	GCST90200593	9	135529222	C	T	7466	-0.17	0.04	0.00	0.00	20.81
rs220359	X-21834 levels	GCST90200593	10	24284973	G	A	7466	0.08	0.02	0.00	0.00	22.16
rs144599632	X-21834 levels	GCST90200593	10	94847919	G	C	7466	0.25	0.03	0.00	0.01	56.29
rs9536317	X-21834 levels	GCST90200593	13	52920115	G	T	7466	-0.10	0.02	0.00	0.00	22.64
rs4627308	X-21834 levels	GCST90200593	15	25734376	T	C	7466	-0.08	0.02	0.00	0.00	24.61
rs112364092	X-21834 levels	GCST90200593	16	3090910	A	C	7466	2.54	0.50	0.00	0.00	26.01
rs78602320	X-21834 levels	GCST90200593	16	24201150	T	C	7466	-0.23	0.04	0.00	0.00	27.26
rs7206111	X-21834 levels	GCST90200593	16	90058463	T	G	7466	0.17	0.04	0.00	0.00	21.58
rs4791454	X-21834 levels	GCST90200593	17	11251636	T	G	7466	-0.14	0.03	0.00	0.00	19.73
rs9909526	X-21834 levels	GCST90200593	17	14752375	A	G	7466	-0.08	0.02	0.00	0.00	20.09
rs2524306	X-21834 levels	GCST90200593	17	40879559	A	G	7466	-0.07	0.02	0.00	0.00	20.02
rs80096117	X-21834 levels	GCST90200593	18	11655224	T	G	7466	0.11	0.02	0.00	0.00	19.59
rs78429682	X-21834 levels	GCST90200593	22	20182373	T	C	7466	0.16	0.03	0.00	0.00	22.30
rs114114736	X-21467 levels	GCST90200594	1	20711463	T	C	8195	-0.22	0.05	0.00	0.00	20.13
rs149681999	X-21467 levels	GCST90200594	1	102500873	G	A	8195	-0.43	0.10	0.00	0.00	19.80
rs1728918	X-21467 levels	GCST90200594	2	27412596	G	A	8195	-0.09	0.02	0.00	0.00	29.61
rs13402320	X-21467 levels	GCST90200594	2	47000007	G	T	8195	-0.08	0.02	0.00	0.00	19.92
rs1863217	X-21467 levels	GCST90200594	2	105966391	C	T	8195	0.07	0.02	0.00	0.00	20.92
rs1047891	X-21467 levels	GCST90200594	2	210675783	A	C	8195	0.16	0.02	0.00	0.01	96.47
rs35132287	X-21467 levels	GCST90200594	3	110385810	T	G	8195	0.13	0.03	0.00	0.00	21.62
rs7670896	X-21467 levels	GCST90200594	4	101653001	T	C	8195	0.08	0.02	0.00	0.00	21.26
rs72713018	X-21467 levels	GCST90200594	4	135633995	G	C	8195	0.24	0.05	0.00	0.00	21.82
rs10045891	X-21467 levels	GCST90200594	5	88173632	A	C	8195	-0.09	0.02	0.00	0.00	21.72
rs1395016	X-21467 levels	GCST90200594	5	91779937	T	A	8195	-0.09	0.02	0.00	0.00	28.87
rs2876242	X-21467 levels	GCST90200594	6	134298473	C	G	8195	-0.39	0.08	0.00	0.00	22.57
rs117163309	X-21467 levels	GCST90200594	7	3037955	T	C	8195	-0.25	0.05	0.00	0.00	21.84
rs1057868	X-21467 levels	GCST90200594	7	75985688	T	C	8195	0.09	0.02	0.00	0.00	27.97
rs59683852	X-21467 levels	GCST90200594	7	92117086	A	G	8195	-0.59	0.11	0.00	0.00	28.54
rs1554659	X-21467 levels	GCST90200594	7	96589263	T	G	8195	0.21	0.05	0.00	0.00	20.10
rs192831425	X-21467 levels	GCST90200594	7	121320432	T	C	8195	0.36	0.07	0.00	0.00	25.49
rs72716148	X-21467 levels	GCST90200594	8	126213691	C	A	8195	0.14	0.03	0.00	0.00	20.73
rs7864923	X-21467 levels	GCST90200594	9	117061403	T	C	8195	0.07	0.02	0.00	0.00	20.45
rs74697675	X-21467 levels	GCST90200594	10	8565878	C	T	8195	-0.13	0.03	0.00	0.00	22.03
rs55672373	X-21467 levels	GCST90200594	10	99835096	T	C	8195	-0.49	0.03	0.00	0.03	226.77
rs189017081	X-21467 levels	GCST90200594	10	100126891	C	T	8195	0.36	0.06	0.00	0.00	34.79
rs10897407	X-21467 levels	GCST90200594	11	63369912	G	A	8195	-0.09	0.02	0.00	0.00	33.32
rs7976818	X-21467 levels	GCST90200594	12	21116170	T	C	8195	-0.17	0.02	0.00	0.01	83.27
rs12318075	X-21467 levels	GCST90200594	12	21208653	G	T	8195	0.43	0.02	0.00	0.05	452.68
rs17109068	X-21467 levels	GCST90200594	14	39253745	G	A	8195	0.09	0.02	0.00	0.00	19.69
rs2159904	X-21467 levels	GCST90200594	14	74965476	T	G	8195	-0.07	0.02	0.00	0.00	20.48
rs149492745	X-21467 levels	GCST90200594	15	42807352	T	C	8195	0.22	0.05	0.00	0.00	20.08
rs841217	X-21467 levels	GCST90200594	16	4696391	C	T	8195	-0.07	0.02	0.00	0.00	20.67
rs382339	X-21467 levels	GCST90200594	16	20942248	C	T	8195	-0.17	0.04	0.00	0.00	22.51

rs17656213	X-21467 levels	GCST90200594	18	30986175	C	G	8195	-0.20	0.04	0.00	0.00	20.04
rs28715045	X-21467 levels	GCST90200594	19	8598698	T	C	8195	0.11	0.02	0.00	0.00	19.69
rs139865061	X-21467 levels	GCST90200594	19	44207352	A	G	8195	0.48	0.10	0.00	0.00	21.54
rs117988024	X-21467 levels	GCST90200594	19	48599461	A	G	8195	-0.31	0.06	0.00	0.00	24.66
rs4820765	X-21467 levels	GCST90200594	22	27556647	C	T	8195	0.08	0.02	0.00	0.00	27.84
rs9848266	X-22776 levels	GCST90200595	3	72322571	A	G	6944	0.26	0.06	0.00	0.00	19.78
rs35904850	X-22776 levels	GCST90200595	4	83340921	C	T	6944	-0.10	0.02	0.00	0.00	22.27
rs148494466	X-22776 levels	GCST90200595	4	189383210	C	T	6944	-0.35	0.07	0.00	0.00	22.71
rs75586842	X-22776 levels	GCST90200595	5	98790546	G	T	6944	0.42	0.09	0.00	0.00	24.75
rs2327849	X-22776 levels	GCST90200595	6	15075193	G	T	6944	-0.09	0.02	0.00	0.00	22.03
rs11763280	X-22776 levels	GCST90200595	7	41588335	T	A	6944	-0.09	0.02	0.00	0.00	25.96
rs35406101	X-22776 levels	GCST90200595	8	77616775	T	C	6944	-0.13	0.03	0.00	0.00	20.89
rs72718949	X-22776 levels	GCST90200595	9	70548462	T	C	6944	0.21	0.04	0.00	0.00	27.65
rs148022924	X-22776 levels	GCST90200595	9	86972839	C	T	6944	-0.32	0.07	0.00	0.00	22.07
rs4391905	X-22776 levels	GCST90200595	12	124870018	A	G	6944	-0.08	0.02	0.00	0.00	19.82
rs74368825	X-22776 levels	GCST90200595	12	124952755	T	C	6944	0.26	0.05	0.00	0.00	27.05
rs1286444	X-22776 levels	GCST90200595	14	90630710	G	C	6944	0.08	0.02	0.00	0.00	23.00
rs11635937	X-22776 levels	GCST90200595	15	71492850	C	A	6944	-0.09	0.02	0.00	0.00	19.89
rs145128994	X-22776 levels	GCST90200595	18	459411	C	A	6944	-0.37	0.08	0.00	0.00	21.35
rs74049524	X-23655 levels	GCST90200596	1	6286581	T	G	6764	0.19	0.04	0.00	0.00	20.15
rs7555782	X-23655 levels	GCST90200596	1	9100518	G	A	6764	-0.17	0.04	0.00	0.00	20.84
rs143324202	X-23655 levels	GCST90200596	1	58801222	C	A	6764	-0.36	0.08	0.00	0.00	22.63
rs79823355	X-23655 levels	GCST90200596	1	185583726	G	A	6764	-0.15	0.03	0.00	0.00	20.86
rs79278676	X-23655 levels	GCST90200596	1	221738195	C	T	6764	0.22	0.05	0.00	0.00	20.89
rs11691793	X-23655 levels	GCST90200596	2	159437395	A	T	6764	-0.19	0.04	0.00	0.00	19.98
rs4416419	X-23655 levels	GCST90200596	3	76956365	C	G	6764	0.09	0.02	0.00	0.00	24.35
rs149960281	X-23655 levels	GCST90200596	4	115350819	T	C	6764	-0.37	0.08	0.00	0.00	19.72
rs10028378	X-23655 levels	GCST90200596	4	163861080	G	T	6764	0.10	0.02	0.00	0.00	19.69
rs62337911	X-23655 levels	GCST90200596	4	182887202	G	A	6764	-0.20	0.04	0.00	0.00	22.15
rs9502656	X-23655 levels	GCST90200596	6	7883153	A	G	6764	-0.30	0.07	0.00	0.00	20.24
rs17056397	X-23655 levels	GCST90200596	6	128724059	T	C	6764	-0.18	0.04	0.00	0.00	23.67
rs2749675	X-23655 levels	GCST90200596	6	157374474	G	A	6764	0.12	0.03	0.00	0.00	21.25
rs150436560	X-23655 levels	GCST90200596	8	19267593	C	G	6764	-0.26	0.06	0.00	0.00	20.53
rs11605606	X-23655 levels	GCST90200596	11	88452266	G	A	6764	0.14	0.03	0.00	0.00	21.97
rs17220663	X-23655 levels	GCST90200596	12	13706650	A	G	6764	-0.17	0.04	0.00	0.00	21.79
rs115315671	X-23655 levels	GCST90200596	12	48783022	T	C	6764	0.22	0.05	0.00	0.00	20.49
rs146610520	X-23655 levels	GCST90200596	13	40502546	T	C	6764	-0.48	0.10	0.00	0.00	22.52
rs28889073	X-23655 levels	GCST90200596	14	78041119	A	G	6764	-0.12	0.03	0.00	0.00	20.24
rs2472297	X-23655 levels	GCST90200596	15	74735539	T	C	6764	0.10	0.02	0.00	0.00	28.06
rs6503078	X-23655 levels	GCST90200596	17	8093322	T	G	6764	0.09	0.02	0.00	0.00	20.14
rs9892419	X-23655 levels	GCST90200596	17	48977087	A	G	6764	-0.16	0.03	0.00	0.00	22.70
rs2431798	X-23655 levels	GCST90200596	19	55619339	T	C	6764	0.09	0.02	0.00	0.00	19.95
rs143540836	X-23655 levels	GCST90200596	20	22447384	A	T	6764	0.40	0.09	0.00	0.00	20.08
rs113767846	X-23655 levels	GCST90200596	20	49976232	C	G	6764	-0.15	0.03	0.00	0.00	20.84
rs112020406	X-23655 levels	GCST90200596	22	29928043	T	C	6764	-0.32	0.07	0.00	0.00	20.08
rs79919890	X-23655 levels	GCST90200596	22	46682488	T	C	6764	-0.19	0.04	0.00	0.00	20.08
rs4077431	X-22834 levels	GCST90200597	1	65843709	C	A	6531	0.09	0.02	0.00	0.00	24.68
rs1866599	X-22834 levels	GCST90200597	2	231861590	T	C	6531	-0.09	0.02	0.00	0.00	21.76
rs116423847	X-22834 levels	GCST90200597	4	48854035	T	C	6531	-0.23	0.05	0.00	0.00	19.51
rs116186523	X-22834 levels	GCST90200597	4	61797776	C	G	6531	-0.22	0.05	0.00	0.00	19.98
rs75736651	X-22834 levels	GCST90200597	4	91768806	T	A	6531	-0.23	0.05	0.00	0.00	20.51
rs112396412	X-22834 levels	GCST90200597	5	43112525	A	G	6531	0.26	0.06	0.00	0.00	19.92
rs74857545	X-22834 levels	GCST90200597	6	15365483	T	C	6531	-0.26	0.05	0.00	0.00	28.57
rs1488514	X-22834 levels	GCST90200597	7	95998459	A	G	6531	-0.08	0.02	0.00	0.00	20.12
rs74395074	X-22834 levels	GCST90200597	8	51361218	C	G	6531	-0.37	0.08	0.00	0.00	22.80
rs72685582	X-22834 levels	GCST90200597	8	142179352	T	C	6531	-0.16	0.03	0.00	0.00	22.84
rs80285509	X-22834 levels	GCST90200597	9	37343410	G	A	6531	-0.17	0.04	0.00	0.00	20.11

rs572429838	X-22834 levels	GCST90200597	9	38922405	T	C	6531	-0.38	0.08	0.00	0.00	21.82
rs2989408	X-22834 levels	GCST90200597	10	29887259	A	C	6531	0.09	0.02	0.00	0.00	22.80
rs230665	X-22834 levels	GCST90200597	11	78170052	A	G	6531	-0.20	0.04	0.00	0.00	21.69
rs79775844	X-22834 levels	GCST90200597	11	120342585	T	C	6531	-0.26	0.06	0.00	0.00	20.51
rs73063122	X-22834 levels	GCST90200597	12	21208279	C	A	6531	0.11	0.02	0.00	0.00	24.44
rs11175458	X-22834 levels	GCST90200597	12	40174631	G	A	6531	-0.10	0.02	0.00	0.00	21.18
rs67908707	X-22834 levels	GCST90200597	14	28196068	A	G	6531	-0.10	0.02	0.00	0.00	21.57
rs118005582	X-22834 levels	GCST90200597	14	53855493	G	C	6531	0.15	0.03	0.00	0.00	19.77
rs1962718	X-22834 levels	GCST90200597	15	79351687	A	G	6531	0.08	0.02	0.00	0.00	20.37
rs72755203	X-22834 levels	GCST90200597	15	100140439	C	T	6531	0.18	0.04	0.00	0.00	20.91
rs8132068	X-22834 levels	GCST90200597	21	46157635	C	T	6531	-0.13	0.03	0.00	0.00	20.54
rs7513652	X-22771 levels	GCST90200598	1	199219699	G	T	8087	0.14	0.03	0.00	0.00	23.72
rs139844921	X-22771 levels	GCST90200598	2	150928689	T	C	8087	0.30	0.07	0.00	0.00	20.09
rs2059408	X-22771 levels	GCST90200598	2	217814876	C	T	8087	0.09	0.02	0.00	0.00	20.12
rs12630349	X-22771 levels	GCST90200598	3	172966291	T	C	8087	0.12	0.02	0.00	0.00	22.86
rs1584640	X-22771 levels	GCST90200598	4	65396784	A	G	8087	0.09	0.02	0.00	0.00	20.17
rs112705280	X-22771 levels	GCST90200598	7	120139112	T	C	8087	-0.24	0.05	0.00	0.00	20.19
rs6990273	X-22771 levels	GCST90200598	8	124016469	T	A	8087	-0.07	0.02	0.00	0.00	20.85
rs143318693	X-22771 levels	GCST90200598	9	3897455	C	T	8087	-0.20	0.05	0.00	0.00	20.26
rs7919544	X-22771 levels	GCST90200598	10	113130141	T	G	8087	0.08	0.02	0.00	0.00	19.75
rs1829372	X-22771 levels	GCST90200598	11	94078497	C	A	8087	-0.08	0.02	0.00	0.00	22.27
rs12423180	X-22771 levels	GCST90200598	12	23736379	A	G	8087	0.34	0.07	0.00	0.00	20.05
rs116927897	X-22771 levels	GCST90200598	12	24558069	T	A	8087	0.21	0.05	0.00	0.00	19.75
rs2244608	X-22771 levels	GCST90200598	12	120979185	G	A	8087	0.08	0.02	0.00	0.00	20.12
rs17549047	X-22771 levels	GCST90200598	13	89611709	C	T	8087	0.11	0.02	0.00	0.00	22.26
rs182961642	X-22771 levels	GCST90200598	16	35377093	T	C	8087	1.70	0.37	0.00	0.00	20.72
rs6499186	X-22771 levels	GCST90200598	16	68626662	T	C	8087	-0.09	0.02	0.00	0.00	22.67
rs76873365	X-22771 levels	GCST90200598	17	33661538	A	C	8087	0.14	0.03	0.00	0.00	20.74
rs13380895	X-22771 levels	GCST90200598	18	52095713	C	T	8087	-0.07	0.02	0.00	0.00	21.37
rs28382780	X-22771 levels	GCST90200598	19	10398355	C	T	8087	0.13	0.03	0.00	0.00	21.08
rs79122474	X-23639 levels	GCST90200599	1	82099435	G	A	8272	0.25	0.05	0.00	0.00	21.04
rs10801699	X-23639 levels	GCST90200599	1	88970498	C	T	8272	-0.10	0.02	0.00	0.00	40.06
rs75575507	X-23639 levels	GCST90200599	1	217560831	T	C	8272	0.24	0.05	0.00	0.00	20.45
rs4384845	X-23639 levels	GCST90200599	2	136680382	C	T	8272	0.09	0.02	0.00	0.00	20.06
rs79256114	X-23639 levels	GCST90200599	2	182103958	C	A	8272	0.15	0.03	0.00	0.00	21.00
rs13422535	X-23639 levels	GCST90200599	2	183714705	C	T	8272	-0.07	0.02	0.00	0.00	20.47
rs4675869	X-23639 levels	GCST90200599	2	240888279	G	A	8272	0.12	0.02	0.00	0.01	46.84
rs112830289	X-23639 levels	GCST90200599	3	47413929	A	G	8272	0.74	0.17	0.00	0.00	19.83
rs144631401	X-23639 levels	GCST90200599	4	116254463	T	G	8272	-0.15	0.03	0.00	0.00	25.82
rs74590024	X-23639 levels	GCST90200599	6	41732406	T	C	8272	-0.28	0.06	0.00	0.00	22.62
rs12197122	X-23639 levels	GCST90200599	6	150489627	A	G	8272	-0.25	0.06	0.00	0.00	20.10
rs4410790	X-23639 levels	GCST90200599	7	17244953	C	T	8272	0.08	0.02	0.00	0.00	24.74
rs10258416	X-23639 levels	GCST90200599	7	88939235	A	G	8272	-0.09	0.02	0.00	0.00	20.04
rs11188396	X-23639 levels	GCST90200599	10	95607753	A	G	8272	0.09	0.02	0.00	0.00	27.92
rs117369599	X-23639 levels	GCST90200599	13	98620976	T	C	8272	0.20	0.04	0.00	0.00	24.84
rs2333536	X-23639 levels	GCST90200599	14	29094700	T	C	8272	-0.13	0.03	0.00	0.00	21.34
rs141876575	X-23639 levels	GCST90200599	14	40225744	G	A	8272	0.37	0.08	0.00	0.00	19.95
rs11627508	X-23639 levels	GCST90200599	14	67424145	T	C	8272	0.16	0.04	0.00	0.00	20.50
rs75095637	X-23639 levels	GCST90200599	15	24913444	C	A	8272	0.16	0.03	0.00	0.00	27.85
rs2472297	X-23639 levels	GCST90200599	15	74735539	T	C	8272	0.11	0.02	0.00	0.00	36.49
rs117588074	X-23639 levels	GCST90200599	16	64913748	T	A	8272	-0.19	0.04	0.00	0.00	22.01
rs182117964	X-23639 levels	GCST90200599	17	5744539	A	G	8272	-0.32	0.07	0.00	0.00	20.45
rs79904760	X-23639 levels	GCST90200599	20	5994042	T	A	8272	-0.16	0.04	0.00	0.00	20.02
rs67528570	X-23648 levels	GCST90200600	1	23703366	A	G	7357	0.07	0.02	0.00	0.00	20.14
rs818515	X-23648 levels	GCST90200600	1	84753686	T	A	7357	0.08	0.02	0.00	0.00	24.88
rs1506534	X-23648 levels	GCST90200600	2	28077447	G	A	7357	-0.14	0.03	0.00	0.00	23.54
rs41323844	X-23648 levels	GCST90200600	3	11025154	C	A	7357	0.21	0.05	0.00	0.00	19.57
rs114856615	X-23648 levels	GCST90200600	3	30210938	C	A	7357	-0.34	0.07	0.00	0.00	23.22
rs138665349	X-23648 levels	GCST90200600	3	133725242	C	T	7357	0.10	0.02	0.00	0.00	20.05

rs7710326	X-23648 levels	GCST90200600	5	147323319	C	G	7357	0.10	0.02	0.00	0.00	19.66
rs303063	X-23648 levels	GCST90200600	6	10430745	T	C	7357	-0.09	0.02	0.00	0.00	20.73
rs28663618	X-23648 levels	GCST90200600	7	589408	C	G	7357	-0.08	0.02	0.00	0.00	21.76
rs28947520	X-23648 levels	GCST90200600	7	90424519	T	C	7357	0.41	0.09	0.00	0.00	21.93
rs7001157	X-23648 levels	GCST90200600	8	60313981	C	T	7357	0.07	0.02	0.00	0.00	20.24
rs2519093	X-23648 levels	GCST90200600	9	133266456	C	T	7357	0.10	0.02	0.00	0.00	26.49
rs1148005	X-23648 levels	GCST90200600	12	75584733	G	A	7357	0.09	0.02	0.00	0.00	22.16
rs11810219	X-23648 levels	GCST90200600	19	6495578	A	G	7357	0.27	0.06	0.00	0.00	20.37
6												
rs306492	X-23648 levels	GCST90200600	19	55967466	C	G	7357	0.08	0.02	0.00	0.00	21.39
rs6110672	X-23648 levels	GCST90200600	20	15556602	G	A	7357	0.13	0.03	0.00	0.00	19.79
rs11775368	X-23648 levels	GCST90200600	20	36447432	C	T	7357	0.29	0.06	0.00	0.00	21.72
9												
rs79319629	X-23648 levels	GCST90200600	20	62335068	G	T	7357	0.22	0.05	0.00	0.00	21.47
rs1735967	X-23648 levels	GCST90200600	21	21745431	T	C	7357	0.08	0.02	0.00	0.00	25.00
rs5762053	X-23648 levels	GCST90200600	22	27279500	A	G	7357	0.11	0.03	0.00	0.00	20.46
rs72681110	X-23654 levels	GCST90200601	1	63615004	A	G	8241	-0.17	0.04	0.00	0.00	19.70
rs34653063	X-23654 levels	GCST90200601	1	246958275	G	T	8241	-0.10	0.02	0.00	0.00	20.04
rs780093	X-23654 levels	GCST90200601	2	27519736	C	T	8241	-0.07	0.02	0.00	0.00	19.63
rs11529951	X-23654 levels	GCST90200601	2	45913435	T	C	8241	0.22	0.05	0.00	0.00	19.52
1												
rs4675654	X-23654 levels	GCST90200601	2	207250454	A	G	8241	0.08	0.02	0.00	0.00	25.15
rs10197773	X-23654 levels	GCST90200601	2	226960119	A	G	8241	-0.07	0.02	0.00	0.00	20.29
rs17033748	X-23654 levels	GCST90200601	3	35746397	A	G	8241	-0.31	0.07	0.00	0.00	19.88
rs11642658	X-23654 levels	GCST90200601	3	147782555	C	T	8241	0.30	0.07	0.00	0.00	20.46
0												
rs7611574	X-23654 levels	GCST90200601	3	171121464	C	T	8241	0.07	0.02	0.00	0.00	19.97
rs1919122	X-23654 levels	GCST90200601	4	104189088	C	T	8241	-0.08	0.02	0.00	0.00	24.74
rs172168	X-23654 levels	GCST90200601	4	129018620	C	T	8241	-0.08	0.02	0.00	0.00	21.83
rs710989	X-23654 levels	GCST90200601	5	3523017	T	C	8241	-0.08	0.01	0.00	0.00	25.82
rs17413725	X-23654 levels	GCST90200601	5	107551638	G	C	8241	0.19	0.04	0.00	0.00	24.28
rs73796238	X-23654 levels	GCST90200601	5	149729423	A	G	8241	0.13	0.03	0.00	0.00	20.22
rs11800098	X-23654 levels	GCST90200601	6	128732350	G	C	8241	0.24	0.05	0.00	0.00	25.97
0												
rs671439	X-23654 levels	GCST90200601	6	160065899	T	C	8241	0.17	0.02	0.00	0.01	52.83
rs11220172	X-23654 levels	GCST90200601	6	160130454	T	C	8241	0.22	0.03	0.00	0.01	56.57
8												
rs9365384	X-23654 levels	GCST90200601	6	162193232	A	T	8241	-0.14	0.03	0.00	0.00	22.85
rs2469355	X-23654 levels	GCST90200601	8	3595346	A	C	8241	-0.10	0.02	0.00	0.00	19.64
rs15071518	X-23654 levels	GCST90200601	8	56864732	T	A	8241	0.18	0.04	0.00	0.00	19.53
4												
rs75855919	X-23654 levels	GCST90200601	8	142337006	C	G	8241	-0.22	0.04	0.00	0.00	24.91
rs7089095	X-23654 levels	GCST90200601	10	28983186	A	G	8241	-0.07	0.02	0.00	0.00	21.84
rs1171617	X-23654 levels	GCST90200601	10	59707424	T	G	8241	0.08	0.02	0.00	0.00	20.48
rs4910848	X-23654 levels	GCST90200601	11	5802463	T	A	8241	-0.10	0.02	0.00	0.00	19.80
rs14205987	X-23654 levels	GCST90200601	11	27090577	A	G	8241	0.78	0.07	0.00	0.02	140.46
2												
rs2304913	X-23654 levels	GCST90200601	11	27125577	C	T	8241	-0.53	0.04	0.00	0.02	192.62
rs18251393	X-23654 levels	GCST90200601	11	27630909	T	A	8241	-0.55	0.10	0.00	0.00	31.00
8												
rs174538	X-23654 levels	GCST90200601	11	61792609	A	G	8241	-0.09	0.02	0.00	0.00	28.97
rs76460643	X-23654 levels	GCST90200601	12	975352	A	T	8241	-0.24	0.05	0.00	0.00	21.66
rs78398729	X-23654 levels	GCST90200601	12	51625622	T	C	8241	-0.19	0.04	0.00	0.00	21.50
rs13932860	X-23654 levels	GCST90200601	12	61655943	T	A	8241	0.27	0.06	0.00	0.00	20.61
5												
rs7988851	X-23654 levels	GCST90200601	13	50793447	T	C	8241	-0.08	0.02	0.00	0.00	26.69
rs55729189	X-23654 levels	GCST90200601	15	73867909	A	G	8241	0.19	0.04	0.00	0.00	21.67
rs4780573	X-23654 levels	GCST90200601	16	9706640	A	T	8241	0.08	0.02	0.00	0.00	26.15
rs72789436	X-23654 levels	GCST90200601	16	75548395	T	C	8241	-0.21	0.04	0.00	0.00	22.59
rs72823334	X-23654 levels	GCST90200601	17	39160364	T	C	8241	0.13	0.03	0.00	0.00	20.05
rs76967520	X-23654 levels	GCST90200601	18	73502305	C	T	8241	-0.18	0.04	0.00	0.00	20.60
rs35353526	X-23654 levels	GCST90200601	19	5537666	A	G	8241	-0.08	0.02	0.00	0.00	21.13
rs400312	X-23654 levels	GCST90200601	19	34614328	C	T	8241	0.07	0.02	0.00	0.00	19.57
rs4334413	X-23654 levels	GCST90200601	19	53184565	T	C	8241	-0.08	0.02	0.00	0.00	20.66
rs12118979	X-22520 levels	GCST90200602	1	234321639	C	T	5389	-0.14	0.03	0.00	0.00	19.91
rs14022867	X-22520 levels	GCST90200602	2	46867636	T	C	5389	0.60	0.14	0.00	0.00	19.83
0												
rs3796114	X-22520 levels	GCST90200602	2	106806672	T	C	5389	-0.13	0.03	0.00	0.00	19.60
rs19126832	X-22520 levels	GCST90200602	2	114683558	T	C	5389	-0.32	0.07	0.00	0.00	19.65
5												
rs35098707	X-22520 levels	GCST90200602	3	87339326	T	C	5389	0.12	0.02	0.00	0.00	24.55
rs556808	X-22520 levels	GCST90200602	4	74206010	G	A	5389	0.19	0.04	0.00	0.00	22.73
rs71601956	X-22520 levels	GCST90200602	5	165707102	T	C	5389	-0.35	0.08	0.00	0.00	21.20
rs861208	X-22520 levels	GCST90200602	6	14164877	G	T	5389	0.16	0.03	0.00	0.00	20.18

rs112342965	X-22520 levels	GCST90200602	6	14427153	A	G	5389	-0.23	0.05	0.00	0.00	26.10
rs6457944	X-22520 levels	GCST90200602	6	36711571	C	G	5389	0.16	0.03	0.00	0.00	20.67
rs62507570	X-22520 levels	GCST90200602	8	71088005	A	G	5389	-0.15	0.03	0.00	0.00	19.79
rs17628242	X-22520 levels	GCST90200602	8	112189345	A	G	5389	-0.11	0.02	0.00	0.00	25.52
rs10491725	X-22520 levels	GCST90200602	9	111676665	C	T	5389	0.09	0.02	0.00	0.00	21.99
rs12414210	X-22520 levels	GCST90200602	10	19398738	G	A	5389	-0.11	0.03	0.00	0.00	19.52
rs72838129	X-22520 levels	GCST90200602	10	99844724	C	T	5389	-0.21	0.04	0.00	0.00	26.45
rs117664009	X-22520 levels	GCST90200602	11	35930969	C	T	5389	-0.28	0.06	0.00	0.00	20.11
rs11061839	X-22520 levels	GCST90200602	12	1546283	G	A	5389	-0.09	0.02	0.00	0.00	22.18
rs4149056	X-22520 levels	GCST90200602	12	21178615	C	T	5389	0.20	0.02	0.00	0.01	66.91
rs9593519	X-22520 levels	GCST90200602	13	81034361	G	A	5389	0.09	0.02	0.00	0.00	19.83
rs8007126	X-22520 levels	GCST90200602	14	53748942	T	A	5389	0.11	0.02	0.00	0.00	19.89
rs212100	X-22520 levels	GCST90200602	19	47873738	C	T	5389	0.17	0.03	0.00	0.01	38.86
rs7538652	X-23641 levels	GCST90200603	1	151947564	T	G	6673	0.17	0.02	0.00	0.01	96.46
rs151195357	X-23641 levels	GCST90200603	2	60328369	T	A	6673	0.85	0.19	0.00	0.00	20.27
rs10206766	X-23641 levels	GCST90200603	2	149337488	T	G	6673	-0.08	0.02	0.00	0.00	19.79
rs7584317	X-23641 levels	GCST90200603	2	210178378	G	A	6673	0.17	0.02	0.00	0.02	110.01
rs77979071	X-23641 levels	GCST90200603	2	239375864	T	C	6673	0.27	0.06	0.00	0.00	22.39
rs13324986	X-23641 levels	GCST90200603	3	95232006	A	G	6673	-0.08	0.02	0.00	0.00	23.31
rs76437024	X-23641 levels	GCST90200603	4	152986225	C	T	6673	-0.23	0.05	0.00	0.00	22.71
rs56058110	X-23641 levels	GCST90200603	5	101417910	C	T	6673	0.24	0.05	0.00	0.00	20.70
rs10457508	X-23641 levels	GCST90200603	6	128355611	T	A	6673	-0.18	0.03	0.00	0.00	25.98
rs662138	X-23641 levels	GCST90200603	6	160143444	G	C	6673	-0.14	0.02	0.00	0.01	38.08
rs1420328	X-23641 levels	GCST90200603	7	34063941	A	C	6673	-0.13	0.03	0.00	0.00	20.42
rs6963090	X-23641 levels	GCST90200603	7	38913487	G	C	6673	-0.14	0.03	0.00	0.00	26.37
rs76772944	X-23641 levels	GCST90200603	7	49632454	C	T	6673	-0.19	0.04	0.00	0.00	20.26
rs55747707	X-23641 levels	GCST90200603	7	73623036	A	G	6673	-0.13	0.02	0.00	0.01	37.27
rs114627099	X-23641 levels	GCST90200603	7	93067150	C	T	6673	0.18	0.04	0.00	0.00	22.01
rs13300688	X-23641 levels	GCST90200603	9	2045608	G	A	6673	-0.15	0.03	0.00	0.00	20.18
rs78346268	X-23641 levels	GCST90200603	10	101126287	A	G	6673	-0.63	0.12	0.00	0.00	25.17
rs11597782	X-23641 levels	GCST90200603	10	123033536	C	T	6673	-0.13	0.02	0.00	0.01	56.33
rs11032447	X-23641 levels	GCST90200603	11	33914110	G	A	6673	0.10	0.02	0.00	0.00	32.26
rs79146362	X-23641 levels	GCST90200603	11	109680448	C	T	6673	0.21	0.05	0.00	0.00	21.72
rs117424523	X-23641 levels	GCST90200603	12	29970218	T	C	6673	-0.33	0.07	0.00	0.00	21.96
rs9542247	X-23641 levels	GCST90200603	13	70249977	C	T	6673	-0.08	0.02	0.00	0.00	20.63
rs73612188	X-23641 levels	GCST90200603	13	91414881	A	T	6673	0.16	0.03	0.00	0.00	22.29
rs72748119	X-23641 levels	GCST90200603	15	90545364	A	G	6673	-0.12	0.03	0.00	0.00	21.03
rs12444720	X-23641 levels	GCST90200603	16	84971427	C	G	6673	0.09	0.02	0.00	0.00	21.27
rs62067965	X-23641 levels	GCST90200603	17	8829609	G	C	6673	-0.20	0.04	0.00	0.00	23.67
rs80111592	X-23641 levels	GCST90200603	18	73234230	C	T	6673	0.28	0.06	0.00	0.00	21.71
rs189748247	X-23641 levels	GCST90200603	19	42715244	T	C	6673	-0.31	0.07	0.00	0.00	21.50
rs72485824	X-23641 levels	GCST90200603	20	47763547	G	C	6673	0.34	0.07	0.00	0.00	24.24
rs2294915	X-23641 levels	GCST90200603	22	43945024	T	C	6673	-0.11	0.02	0.00	0.00	30.20
rs7524102	X-23276 levels	GCST90200604	1	22371954	G	A	5407	-0.11	0.02	0.00	0.00	20.49
rs72664323	X-23276 levels	GCST90200604	1	56506169	A	G	5407	-0.34	0.08	0.00	0.00	19.97
rs191209593	X-23276 levels	GCST90200604	2	12666	A	G	5407	0.82	0.19	0.00	0.00	19.58
rs139533089	X-23276 levels	GCST90200604	3	195653439	T	G	5407	0.13	0.03	0.00	0.00	19.68
rs76415523	X-23276 levels	GCST90200604	4	33205556	C	A	5407	-0.20	0.04	0.00	0.00	20.85
rs116510332	X-23276 levels	GCST90200604	4	58469541	C	T	5407	-0.31	0.07	0.00	0.00	19.86
rs72684411	X-23276 levels	GCST90200604	4	97519011	T	G	5407	0.51	0.09	0.00	0.01	30.13
rs4702712	X-23276 levels	GCST90200604	5	10631319	C	T	5407	0.12	0.02	0.00	0.00	23.89
rs189676462	X-23276 levels	GCST90200604	5	80364064	T	A	5407	-0.37	0.08	0.00	0.00	21.29
rs35201618	X-23276 levels	GCST90200604	5	116217110	T	C	5407	0.13	0.03	0.00	0.00	19.51
rs12190545	X-23276 levels	GCST90200604	6	1369036	T	C	5407	0.19	0.04	0.00	0.00	21.44
rs41821	X-23276 levels	GCST90200604	7	106611453	T	C	5407	0.10	0.02	0.00	0.00	19.51
rs2948363	X-23276 levels	GCST90200604	8	12903586	G	T	5407	0.15	0.03	0.00	0.00	23.45
rs143048085	X-23276 levels	GCST90200604	9	7016203	T	C	5407	0.30	0.06	0.00	0.00	21.89
rs2189475	X-23276 levels	GCST90200604	12	112806455	G	T	5407	0.17	0.04	0.00	0.00	22.57
rs4767350	X-23276 levels	GCST90200604	12	115672537	C	T	5407	0.11	0.02	0.00	0.01	29.40
rs9578704	X-23276 levels	GCST90200604	13	24340029	A	G	5407	0.09	0.02	0.00	0.00	22.27
rs113512415	X-23276 levels	GCST90200604	14	52181699	A	T	5407	-0.13	0.03	0.00	0.00	24.07
rs299941	X-23276 levels	GCST90200604	16	86661574	T	A	5407	-0.22	0.05	0.00	0.00	20.49

rs10305287	X-23276 levels	GCST90200604	17	40447415	C	A	5407	0.35	0.08	0.00	0.00	19.68
rs1263902	X-23276 levels	GCST90200604	17	51784340	G	A	5407	0.38	0.08	0.00	0.00	24.82
rs11684804 4	X-23276 levels	GCST90200604	19	3119200	T	C	5407	0.36	0.08	0.00	0.00	21.33
rs14268379 0	X-23276 levels	GCST90200604	19	38533967	G	A	5407	0.26	0.06	0.00	0.00	21.48
rs2284958	X-23276 levels	GCST90200604	21	42668521	C	T	5407	-0.10	0.02	0.00	0.00	19.70
rs569884	X-21845 levels	GCST90200605	1	66790042	G	A	4874	0.20	0.04	0.00	0.00	22.25
rs2348840	X-21845 levels	GCST90200605	1	166035577	A	G	4874	0.11	0.02	0.00	0.00	21.01
rs79706936	X-21845 levels	GCST90200605	2	34989786	G	A	4874	-0.37	0.08	0.00	0.00	21.78
rs13917205 0	X-21845 levels	GCST90200605	2	112709320	A	G	4874	-0.30	0.07	0.00	0.00	20.22
rs72941923	X-21845 levels	GCST90200605	2	158878195	A	C	4874	0.11	0.02	0.00	0.00	20.03
rs13423590	X-21845 levels	GCST90200605	2	174040312	A	C	4874	-0.11	0.02	0.00	0.01	27.57
rs62253402	X-21845 levels	GCST90200605	3	22536685	G	A	4874	-0.14	0.03	0.00	0.00	19.69
rs78921699	X-21845 levels	GCST90200605	4	125572904	G	T	4874	-0.28	0.06	0.00	0.00	23.45
rs14086923 3	X-21845 levels	GCST90200605	5	32335661	C	G	4874	0.27	0.06	0.00	0.00	21.83
rs9689553	X-21845 levels	GCST90200605	6	6311037	C	T	4874	0.11	0.03	0.00	0.00	19.61
rs10950500	X-21845 levels	GCST90200605	7	13945293	A	T	4874	0.09	0.02	0.00	0.00	19.93
rs11156635 2	X-21845 levels	GCST90200605	8	21751722	A	G	4874	-0.25	0.06	0.00	0.00	19.96
rs7047143	X-21845 levels	GCST90200605	9	29664384	C	T	4874	0.12	0.03	0.00	0.00	21.12
rs14514771 0	X-21845 levels	GCST90200605	10	17936373	T	C	4874	-0.52	0.11	0.00	0.00	21.28
rs942568	X-21845 levels	GCST90200605	10	69897865	T	G	4874	-0.15	0.03	0.00	0.00	22.10
rs7098678	X-21845 levels	GCST90200605	10	85517990	C	T	4874	0.27	0.06	0.00	0.00	23.21
rs12362624	X-21845 levels	GCST90200605	11	62126558	G	A	4874	0.10	0.02	0.00	0.00	21.22
rs11813903 4	X-21845 levels	GCST90200605	15	64009461	A	G	4874	0.25	0.05	0.00	0.00	22.36
rs14840730 8	X-21845 levels	GCST90200605	17	42413182	T	C	4874	0.21	0.05	0.00	0.00	19.86
rs18098365 0	X-21845 levels	GCST90200605	17	43486018	A	G	4874	0.70	0.15	0.00	0.00	21.86
rs34781048	X-21845 levels	GCST90200605	17	80963365	A	G	4874	0.10	0.02	0.00	0.01	24.81
rs928262	X-21845 levels	GCST90200605	21	25139285	C	A	4874	-0.38	0.08	0.00	0.00	21.71
rs7531734	X-22509 levels	GCST90200606	1	55374846	G	T	5423	0.13	0.03	0.00	0.00	20.32
rs11513434 2	X-22509 levels	GCST90200606	2	46182022	G	A	5423	-0.26	0.06	0.00	0.00	20.27
rs2540963	X-22509 levels	GCST90200606	2	65035475	A	T	5423	0.12	0.03	0.00	0.00	20.03
rs4664073	X-22509 levels	GCST90200606	2	152022801	T	C	5423	-0.10	0.02	0.00	0.00	20.96
rs13944658 4	X-22509 levels	GCST90200606	2	228525766	C	T	5423	1.00	0.23	0.00	0.00	19.69
rs11474725 6	X-22509 levels	GCST90200606	3	69991565	A	T	5423	-0.39	0.08	0.00	0.00	21.67
rs14889005 5	X-22509 levels	GCST90200606	5	98347530	A	G	5423	0.22	0.05	0.00	0.00	20.72
rs11259605 0	X-22509 levels	GCST90200606	5	106527610	C	A	5423	-0.35	0.07	0.00	0.00	22.85
rs4976814	X-22509 levels	GCST90200606	5	181258948	T	C	5423	0.21	0.05	0.00	0.00	21.16
rs78392436	X-22509 levels	GCST90200606	6	53673616	G	T	5423	-0.20	0.04	0.00	0.00	20.59
rs11178181 4	X-22509 levels	GCST90200606	7	21534675	A	G	5423	0.22	0.04	0.00	0.00	22.96
rs14590397 9	X-22509 levels	GCST90200606	7	137137773	C	T	5423	0.09	0.02	0.00	0.00	19.80
rs34622102	X-22509 levels	GCST90200606	8	3789962	G	A	5423	0.11	0.02	0.00	0.00	23.34
rs73600415	X-22509 levels	GCST90200606	10	15006398	T	C	5423	0.17	0.04	0.00	0.00	21.71
rs9665297	X-22509 levels	GCST90200606	10	114416785	C	T	5423	0.17	0.03	0.00	0.00	25.41
rs9938576	X-22509 levels	GCST90200606	16	82672044	G	C	5423	0.10	0.02	0.00	0.00	19.66
rs78906776	X-22509 levels	GCST90200606	18	3772310	T	C	5423	0.10	0.02	0.00	0.00	20.55
rs11162507 8	X-22509 levels	GCST90200606	18	68061152	G	A	5423	0.22	0.05	0.00	0.00	22.96
rs7251340	X-22509 levels	GCST90200606	19	3732628	C	G	5423	-0.09	0.02	0.00	0.00	19.52
rs77787502	X-22509 levels	GCST90200606	20	33595220	A	T	5423	-0.19	0.04	0.00	0.00	20.44
rs35796750	X-22509 levels	GCST90200606	21	46002498	T	C	5423	0.09	0.02	0.00	0.00	20.95
rs12025760	X-23644 levels	GCST90200607	1	248913954	A	C	8250	0.59	0.13	0.00	0.00	20.07
rs14069516 4	X-23644 levels	GCST90200607	2	9411681	G	C	8250	0.25	0.06	0.00	0.00	19.78
rs4678633	X-23644 levels	GCST90200607	3	34027451	T	G	8250	0.07	0.02	0.00	0.00	20.54
rs73058498	X-23644 levels	GCST90200607	3	45723640	G	T	8250	0.22	0.03	0.00	0.01	69.35
rs7664177	X-23644 levels	GCST90200607	4	56752410	T	C	8250	-0.12	0.03	0.00	0.00	23.40
rs6533933	X-23644 levels	GCST90200607	4	115603463	T	A	8250	-0.07	0.02	0.00	0.00	19.93
rs3113593	X-23644 levels	GCST90200607	4	142738515	T	C	8250	-0.08	0.02	0.00	0.00	23.55
rs77361908	X-23644 levels	GCST90200607	4	154615711	A	G	8250	-0.22	0.05	0.00	0.00	19.64

rs116884794	X-23644 levels	GCST90200607	7	967333	A	C	8250	-0.23	0.05	0.00	0.00	25.51
rs17133522	X-23644 levels	GCST90200607	7	3533336	A	G	8250	-0.15	0.03	0.00	0.00	20.65
rs10751655	X-23644 levels	GCST90200607	11	352963	C	T	8250	0.10	0.02	0.00	0.00	23.73
rs142412014	X-23644 levels	GCST90200607	12	78065415	G	A	8250	0.25	0.05	0.00	0.00	22.96
rs9566940	X-23644 levels	GCST90200607	13	42213801	T	C	8250	0.08	0.02	0.00	0.00	25.11
rs10130361	X-23644 levels	GCST90200607	14	48920916	G	C	8250	0.09	0.02	0.00	0.00	33.93
rs56046344	X-23644 levels	GCST90200607	15	33358743	T	C	8250	0.14	0.03	0.00	0.00	19.59
rs118093162	X-23644 levels	GCST90200607	20	48703039	T	C	8250	-0.41	0.09	0.00	0.00	22.16
rs9980934	X-23644 levels	GCST90200607	21	30610669	A	G	8250	-0.07	0.02	0.00	0.00	20.02
rs79110523	X-22162 levels	GCST90200608	1	208299945	A	G	8249	0.19	0.04	0.00	0.00	19.83
rs6704951	X-22162 levels	GCST90200608	2	75403707	T	G	8249	0.09	0.02	0.00	0.00	20.35
rs68078974	X-22162 levels	GCST90200608	3	34573812	C	T	8249	0.07	0.02	0.00	0.00	19.81
rs77831368	X-22162 levels	GCST90200608	3	108848026	G	A	8249	0.21	0.05	0.00	0.00	20.32
rs73231852	X-22162 levels	GCST90200608	4	12745608	G	C	8249	0.11	0.02	0.00	0.00	26.02
rs4270764	X-22162 levels	GCST90200608	6	63073727	T	A	8249	0.07	0.01	0.00	0.00	21.06
rs74576476	X-22162 levels	GCST90200608	6	114602654	G	A	8249	-0.11	0.02	0.00	0.00	22.17
rs3779701	X-22162 levels	GCST90200608	8	1930283	T	C	8249	-0.29	0.05	0.00	0.00	30.64
rs7815812	X-22162 levels	GCST90200608	8	60325769	T	A	8249	-0.07	0.01	0.00	0.00	22.29
rs149514180	X-22162 levels	GCST90200608	10	7590825	T	C	8249	-0.21	0.04	0.00	0.00	22.34
rs1328754	X-22162 levels	GCST90200608	10	34136109	A	G	8249	0.07	0.01	0.00	0.00	24.86
rs78099843	X-22162 levels	GCST90200608	10	103278251	G	A	8249	-0.35	0.07	0.00	0.00	21.53
rs11598453	X-22162 levels	GCST90200608	10	113623893	A	G	8249	-0.17	0.04	0.00	0.00	21.04
rs7101454	X-22162 levels	GCST90200608	11	84894785	C	T	8249	0.07	0.01	0.00	0.00	21.39
rs74403990	X-22162 levels	GCST90200608	11	88737351	G	T	8249	0.21	0.05	0.00	0.00	20.48
rs4768773	X-22162 levels	GCST90200608	12	47104750	A	G	8249	-0.11	0.02	0.00	0.00	26.17
rs118078406	X-22162 levels	GCST90200608	12	115268782	A	G	8249	-0.17	0.04	0.00	0.00	21.00
rs181818766	X-22162 levels	GCST90200608	15	55428948	A	G	8249	0.28	0.05	0.00	0.00	28.38
rs77924615	X-22162 levels	GCST90200608	16	20381010	A	G	8249	-0.09	0.02	0.00	0.00	22.03
rs4784331	X-22162 levels	GCST90200608	16	53927855	T	A	8249	0.07	0.01	0.00	0.00	24.61
rs12919925	X-22162 levels	GCST90200608	16	86756650	T	C	8249	-0.11	0.02	0.00	0.00	22.18
rs118089694	X-22162 levels	GCST90200608	18	51323613	A	G	8249	-0.12	0.03	0.00	0.00	19.94
rs7282862	X-22162 levels	GCST90200608	21	17787102	A	G	8249	0.15	0.03	0.00	0.00	22.35
rs117601978	X-22162 levels	GCST90200608	22	46158982	A	G	8249	0.25	0.05	0.00	0.00	28.74
rs150193397	X-22162 levels	GCST90200608	22	46161431	C	A	8249	0.28	0.06	0.00	0.00	25.14
rs117135869	X-22162 levels	GCST90200608	22	46268515	T	C	8249	0.90	0.06	0.00	0.03	237.34
rs73886794	X-22162 levels	GCST90200608	22	46291371	A	G	8249	-1.07	0.04	0.00	0.08	762.18
rs74532808	X-22162 levels	GCST90200608	22	46302765	G	T	8249	0.39	0.04	0.00	0.01	100.93
rs112026082	X-22162 levels	GCST90200608	22	46351310	T	C	8249	0.25	0.04	0.00	0.00	34.02
rs185197467	X-22162 levels	GCST90200608	22	46418506	A	T	8249	0.57	0.10	0.00	0.00	35.17
rs150585957	X-23587 levels	GCST90200609	1	15815147	T	C	7662	0.38	0.08	0.00	0.00	20.06
rs4655719	X-23587 levels	GCST90200609	1	67500110	G	A	7662	0.08	0.02	0.00	0.00	19.96
rs114632007	X-23587 levels	GCST90200609	3	8495933	G	A	7662	0.14	0.03	0.00	0.00	20.14
rs34396049	X-23587 levels	GCST90200609	4	137064822	G	T	7662	-0.09	0.02	0.00	0.00	21.74
rs72837597	X-23587 levels	GCST90200609	5	150243127	C	G	7662	0.18	0.04	0.00	0.00	22.87
rs144394946	X-23587 levels	GCST90200609	5	169751989	A	G	7662	0.34	0.07	0.00	0.00	22.16
rs188649493	X-23587 levels	GCST90200609	5	171820136	T	C	7662	0.37	0.08	0.00	0.00	20.11
rs13218948	X-23587 levels	GCST90200609	6	6908740	T	G	7662	0.09	0.02	0.00	0.00	20.16
rs6910142	X-23587 levels	GCST90200609	6	150251194	C	T	7662	0.16	0.03	0.00	0.00	21.79
rs77829489	X-23587 levels	GCST90200609	7	745719	T	C	7662	0.22	0.05	0.00	0.00	21.17
rs35504966	X-23587 levels	GCST90200609	7	16600829	A	G	7662	0.41	0.09	0.00	0.00	19.94
rs74357778	X-23587 levels	GCST90200609	7	16782255	T	C	7662	-0.20	0.04	0.00	0.00	22.41
rs78233450	X-23587 levels	GCST90200609	8	27182550	G	A	7662	0.49	0.11	0.00	0.00	21.45
rs28797500	X-23587 levels	GCST90200609	8	38026792	C	T	7662	0.09	0.02	0.00	0.00	20.50
rs186198655	X-23587 levels	GCST90200609	9	30490326	C	T	7662	0.36	0.08	0.00	0.00	19.60
rs185559827	X-23587 levels	GCST90200609	9	82754588	A	G	7662	-0.25	0.06	0.00	0.00	19.90
rs3808946	X-23587 levels	GCST90200609	10	101130337	G	T	7662	0.08	0.02	0.00	0.00	19.52

rs7069675	X-23587 levels	GCST90200609	10	114266847	G	T	7662	-0.14	0.03	0.00	0.00	19.90
rs4478922	X-23587 levels	GCST90200609	10	124092853	T	C	7662	-0.33	0.07	0.00	0.00	21.38
rs7104451	X-23587 levels	GCST90200609	11	46234605	A	T	7662	-0.11	0.02	0.00	0.00	19.62
rs150644298	X-23587 levels	GCST90200609	15	48594357	T	C	7662	-0.40	0.07	0.00	0.00	28.89
rs72742900	X-23587 levels	GCST90200609	15	66049606	T	C	7662	0.32	0.07	0.00	0.00	20.49
rs117752184	X-23587 levels	GCST90200609	17	74016462	T	C	7662	0.37	0.08	0.00	0.00	20.82
rs146412467	X-23587 levels	GCST90200609	18	25075049	C	A	7662	-0.35	0.08	0.00	0.00	19.54
rs112719730	X-23587 levels	GCST90200609	21	42088487	T	C	7662	0.17	0.04	0.00	0.00	19.68
rs55865134	X-23593 levels	GCST90200610	1	162727941	T	G	7988	0.15	0.03	0.00	0.00	19.79
rs80108502	X-23593 levels	GCST90200610	3	45809343	T	C	7988	0.18	0.04	0.00	0.00	20.00
rs149777798	X-23593 levels	GCST90200610	3	97922002	T	A	7988	-0.23	0.05	0.00	0.00	20.12
rs57446313	X-23593 levels	GCST90200610	3	149293044	C	A	7988	0.13	0.03	0.00	0.00	21.40
rs79075526	X-23593 levels	GCST90200610	3	187323921	A	G	7988	-0.21	0.04	0.00	0.00	21.47
rs10472005	X-23593 levels	GCST90200610	5	57435051	T	C	7988	0.07	0.02	0.00	0.00	19.57
rs200837	X-23593 levels	GCST90200610	5	132364266	A	G	7988	-0.08	0.02	0.00	0.00	23.01
rs73547914	X-23593 levels	GCST90200610	6	132385749	T	C	7988	0.17	0.04	0.00	0.00	22.47
rs12671621	X-23593 levels	GCST90200610	7	141427823	G	A	7988	-0.10	0.02	0.00	0.00	20.60
rs3105001	X-23593 levels	GCST90200610	8	95537687	G	A	7988	-0.09	0.02	0.00	0.00	20.04
rs7026816	X-23593 levels	GCST90200610	9	4512778	T	A	7988	0.08	0.02	0.00	0.00	21.94
rs10764172	X-23593 levels	GCST90200610	10	19863543	T	C	7988	-0.09	0.02	0.00	0.00	22.14
rs150561983	X-23593 levels	GCST90200610	10	130158823	T	C	7988	-0.35	0.08	0.00	0.00	20.33
rs138384916	X-23593 levels	GCST90200610	12	32677801	A	G	7988	0.32	0.07	0.00	0.00	20.29
rs55693503	X-23593 levels	GCST90200610	12	76889447	A	C	7988	0.09	0.02	0.00	0.00	20.40
rs3782466	X-23593 levels	GCST90200610	12	114393653	T	C	7988	0.23	0.05	0.00	0.00	21.15
rs4772303	X-23593 levels	GCST90200610	13	100537450	T	C	7988	0.08	0.02	0.00	0.00	29.19
rs9520501	X-23593 levels	GCST90200610	13	107594419	T	G	7988	0.09	0.02	0.00	0.00	22.16
rs75772533	X-23593 levels	GCST90200610	14	92649108	T	C	7988	0.31	0.07	0.00	0.00	21.47
rs61750957	X-23593 levels	GCST90200610	19	46309194	T	C	7988	-0.14	0.03	0.00	0.00	20.97
rs139561229	X-23593 levels	GCST90200610	20	6794231	T	C	7988	0.26	0.06	0.00	0.00	22.25
rs560865932	X-23593 levels	GCST90200610	22	22282960	C	A	7988	-0.20	0.04	0.00	0.00	20.22
rs1391812	X-23636 levels	GCST90200611	1	63083559	T	C	8251	-0.08	0.02	0.00	0.00	24.13
rs12121847	X-23636 levels	GCST90200611	1	70589696	G	A	8251	0.07	0.02	0.00	0.00	20.73
rs137936682	X-23636 levels	GCST90200611	1	94948297	A	G	8251	0.12	0.03	0.00	0.00	19.92
rs2025509	X-23636 levels	GCST90200611	1	190984341	A	G	8251	0.09	0.02	0.00	0.00	22.67
rs578732	X-23636 levels	GCST90200611	2	44979184	C	T	8251	0.07	0.02	0.00	0.00	20.00
rs147891923	X-23636 levels	GCST90200611	6	154239774	T	G	8251	-0.38	0.08	0.00	0.00	21.38
rs318628	X-23636 levels	GCST90200611	7	34211747	T	C	8251	0.13	0.03	0.00	0.00	21.16
rs12146367	X-23636 levels	GCST90200611	10	109304283	T	C	8251	0.14	0.03	0.00	0.00	29.48
rs1824540	X-23636 levels	GCST90200611	12	74428082	T	C	8251	0.12	0.03	0.00	0.00	20.61
rs10515152	X-23636 levels	GCST90200611	17	57928631	A	T	8251	-0.09	0.02	0.00	0.00	19.90
rs56285447	X-23636 levels	GCST90200611	18	22498816	C	T	8251	0.16	0.03	0.00	0.00	21.40
rs16975051	X-23636 levels	GCST90200611	18	41607715	C	T	8251	0.10	0.02	0.00	0.00	20.01
rs351970	X-23636 levels	GCST90200611	19	792199	C	T	8251	0.07	0.02	0.00	0.00	19.73
rs74757134	X-23636 levels	GCST90200611	19	5257356	A	G	8251	0.15	0.03	0.00	0.00	19.61
rs11669601	X-23636 levels	GCST90200611	19	17779545	G	A	8251	-0.15	0.03	0.00	0.00	20.38
rs593142	X-23636 levels	GCST90200611	19	48760251	A	G	8251	-0.09	0.02	0.00	0.00	20.05
rs78260152	X-23636 levels	GCST90200611	20	24146125	T	C	8251	0.15	0.03	0.00	0.00	22.74
rs609812	X-23678 levels	GCST90200612	1	10850973	C	T	5745	0.15	0.03	0.00	0.00	19.81
rs75285112	X-23678 levels	GCST90200612	1	47944905	T	C	5745	0.32	0.07	0.00	0.00	21.28
rs72720588	X-23678 levels	GCST90200612	1	85113057	T	C	5745	-0.42	0.07	0.00	0.01	33.01
rs75577088	X-23678 levels	GCST90200612	1	204348213	A	G	5745	-0.29	0.06	0.00	0.00	20.67
rs4338341	X-23678 levels	GCST90200612	1	245131246	A	G	5745	-0.29	0.06	0.00	0.00	23.45
rs13102710	X-23678 levels	GCST90200612	4	7405223	T	G	5745	0.10	0.02	0.00	0.00	22.75
rs17509933	X-23678 levels	GCST90200612	4	19637631	G	A	5745	0.11	0.02	0.00	0.00	20.94
rs2642864	X-23678 levels	GCST90200612	4	69459710	C	T	5745	0.14	0.03	0.00	0.00	21.24
rs187272247	X-23678 levels	GCST90200612	6	70323482	A	C	5745	-0.37	0.07	0.00	0.00	24.93
rs116970885	X-23678 levels	GCST90200612	7	1471683	T	G	5745	-0.33	0.07	0.00	0.00	21.51
rs79060316	X-23678 levels	GCST90200612	8	80915081	T	C	5745	0.36	0.07	0.00	0.00	26.06
rs117300748	X-23678 levels	GCST90200612	9	133429120	C	T	5745	0.09	0.02	0.00	0.00	19.91
rs7923082	X-23678 levels	GCST90200612	10	15641290	T	C	5745	0.11	0.02	0.00	0.00	22.04

rs111892724	X-23678 levels	GCST90200612	12	127440558	T	G	5745	0.34	0.07	0.00	0.00	21.06
rs61238733	X-23678 levels	GCST90200612	13	54576063	C	T	5745	0.14	0.03	0.00	0.00	19.70
rs192963379	X-23678 levels	GCST90200612	14	76162345	A	G	5745	-0.44	0.09	0.00	0.00	23.66
rs8022260	X-23678 levels	GCST90200612	14	94019731	G	A	5745	-0.14	0.03	0.00	0.00	21.86
rs78579961	X-23678 levels	GCST90200612	17	81458115	T	C	5745	0.11	0.02	0.00	0.00	21.05
rs117531849	X-23678 levels	GCST90200612	18	77828176	C	A	5745	0.41	0.08	0.00	0.00	27.30
rs6142813	X-23678 levels	GCST90200612	20	61640168	A	G	5745	-0.09	0.02	0.00	0.00	20.20
rs12136754	X-23680 levels	GCST90200613	1	75764547	A	C	8215	-0.11	0.02	0.00	0.01	46.99
rs28415528	X-23680 levels	GCST90200613	1	151907285	A	G	8215	0.30	0.02	0.00	0.04	347.06
rs145211342	X-23680 levels	GCST90200613	1	188333234	C	T	8215	0.22	0.05	0.00	0.00	24.07
rs12035552	X-23680 levels	GCST90200613	1	245457816	T	C	8215	-0.08	0.02	0.00	0.00	23.29
rs116529501	X-23680 levels	GCST90200613	2	15836863	C	G	8215	0.24	0.05	0.00	0.00	21.40
rs56310059	X-23680 levels	GCST90200613	2	23517273	A	G	8215	-0.18	0.04	0.00	0.00	20.19
rs16823863	X-23680 levels	GCST90200613	3	115563080	G	A	8215	-1.18	0.26	0.00	0.00	20.87
rs114483705	X-23680 levels	GCST90200613	5	58546094	A	C	8215	0.43	0.09	0.00	0.00	24.87
rs74542724	X-23680 levels	GCST90200613	6	84356881	G	A	8215	-0.58	0.13	0.00	0.00	19.72
rs2214573	X-23680 levels	GCST90200613	7	21526805	A	G	8215	0.14	0.03	0.00	0.00	21.55
rs42523	X-23680 levels	GCST90200613	7	94411687	C	T	8215	0.08	0.02	0.00	0.00	20.05
rs117420904	X-23680 levels	GCST90200613	8	28430110	C	T	8215	-0.29	0.07	0.00	0.00	19.93
rs16923883	X-23680 levels	GCST90200613	8	58786147	C	T	8215	0.13	0.03	0.00	0.00	21.19
rs1171614	X-23680 levels	GCST90200613	10	59709780	C	T	8215	0.10	0.02	0.00	0.00	27.92
rs12781928	X-23680 levels	GCST90200613	10	82205666	C	A	8215	0.07	0.02	0.00	0.00	20.61
rs73229622	X-23680 levels	GCST90200613	13	76311460	C	T	8215	0.20	0.04	0.00	0.00	22.80
rs7991299	X-23680 levels	GCST90200613	13	86878539	G	A	8215	-0.11	0.02	0.00	0.00	21.78
rs12431661	X-23680 levels	GCST90200613	14	53714955	G	C	8215	-0.09	0.02	0.00	0.00	20.41
rs4796392	X-23680 levels	GCST90200613	17	7271578	C	T	8215	0.07	0.02	0.00	0.00	22.04
rs76858727	X-23680 levels	GCST90200613	18	14268196	A	G	8215	-0.11	0.03	0.00	0.00	19.56
rs34255016	X-23680 levels	GCST90200613	18	57648477	A	G	8215	-0.28	0.06	0.00	0.00	20.19
rs141288079	X-23680 levels	GCST90200613	22	16647794	C	T	8215	0.24	0.05	0.00	0.00	24.39
rs214179	X-23780 levels	GCST90200614	1	48137366	G	C	7878	0.08	0.02	0.00	0.00	20.25
rs115755178	X-23780 levels	GCST90200614	1	58156451	C	T	7878	-0.23	0.05	0.00	0.00	21.85
rs142036634	X-23780 levels	GCST90200614	2	34792025	A	G	7878	0.22	0.05	0.00	0.00	19.87
rs3821163	X-23780 levels	GCST90200614	2	36399001	G	A	7878	0.09	0.02	0.00	0.00	21.84
rs149800477	X-23780 levels	GCST90200614	2	73365962	A	G	7878	-0.27	0.06	0.00	0.00	22.99
rs13030971	X-23780 levels	GCST90200614	2	79010566	G	C	7878	0.14	0.03	0.00	0.00	23.56
rs4300835	X-23780 levels	GCST90200614	2	122012694	G	T	7878	-0.08	0.02	0.00	0.00	21.75
rs56312626	X-23780 levels	GCST90200614	3	11758114	C	A	7878	0.07	0.02	0.00	0.00	19.82
rs17279437	X-23780 levels	GCST90200614	3	45772602	A	G	7878	0.33	0.03	0.00	0.02	162.88
rs2001732	X-23780 levels	GCST90200614	3	52846724	T	C	7878	0.12	0.02	0.00	0.00	27.05
rs2613044	X-23780 levels	GCST90200614	4	180648498	C	G	7878	0.08	0.02	0.00	0.00	23.76
rs141400230	X-23780 levels	GCST90200614	5	31298651	T	G	7878	-0.33	0.07	0.00	0.00	20.12
rs2220767	X-23780 levels	GCST90200614	5	86913417	A	G	7878	-0.29	0.06	0.00	0.00	21.55
rs117915593	X-23780 levels	GCST90200614	6	82184640	G	T	7878	-0.31	0.06	0.00	0.00	27.20
rs73110052	X-23780 levels	GCST90200614	7	36816629	G	A	7878	0.10	0.02	0.00	0.00	19.72
rs62504810	X-23780 levels	GCST90200614	8	39269022	A	G	7878	0.25	0.05	0.00	0.00	23.11
rs3102876	X-23780 levels	GCST90200614	8	94555612	A	G	7878	-0.17	0.03	0.00	0.00	25.71
rs7816532	X-23780 levels	GCST90200614	8	135028136	T	C	7878	0.08	0.02	0.00	0.00	23.17
rs77917462	X-23780 levels	GCST90200614	9	81769028	C	T	7878	0.20	0.04	0.00	0.00	25.01
rs72941124	X-23780 levels	GCST90200614	11	80543495	A	G	7878	0.11	0.02	0.00	0.00	20.16
rs564895	X-23780 levels	GCST90200614	11	132333328	A	G	7878	0.15	0.03	0.00	0.00	19.91
rs182468774	X-23780 levels	GCST90200614	13	108586004	G	A	7878	-0.27	0.06	0.00	0.00	20.22
rs4391970	X-23780 levels	GCST90200614	14	52169011	G	A	7878	0.09	0.02	0.00	0.00	24.94
rs55712187	X-23780 levels	GCST90200614	15	101401328	C	T	7878	-0.07	0.02	0.00	0.00	20.09
rs17142279	X-23780 levels	GCST90200614	16	7106950	A	G	7878	-0.29	0.06	0.00	0.00	20.48
rs9927398	X-23780 levels	GCST90200614	16	62251508	G	A	7878	0.07	0.02	0.00	0.00	20.17
rs35111389	X-23780 levels	GCST90200614	18	1787729	T	A	7878	-0.35	0.07	0.00	0.00	23.85
rs112168249	X-23780 levels	GCST90200614	18	9859494	C	G	7878	-0.23	0.05	0.00	0.00	19.80
rs76868266	X-23780 levels	GCST90200614	19	43596055	C	G	7878	0.16	0.04	0.00	0.00	19.75

rs114856936	X-23974 levels	GCST90200615	1	93956002	G	A	7752	-0.30	0.07	0.00	0.00	21.28
rs7425097	X-23974 levels	GCST90200615	2	30904357	C	T	7752	0.08	0.02	0.00	0.00	19.90
rs77855909	X-23974 levels	GCST90200615	2	216253166	G	T	7752	0.22	0.05	0.00	0.00	21.74
rs887829	X-23974 levels	GCST90200615	2	233759924	T	C	7752	0.10	0.02	0.00	0.00	32.72
rs114856615	X-23974 levels	GCST90200615	3	30210938	C	A	7752	0.32	0.07	0.00	0.00	19.93
rs9845464	X-23974 levels	GCST90200615	3	117758393	A	G	7752	-0.19	0.04	0.00	0.00	21.49
rs143032511	X-23974 levels	GCST90200615	3	144126709	G	C	7752	0.30	0.07	0.00	0.00	20.35
rs9992693	X-23974 levels	GCST90200615	4	118845538	T	C	7752	-0.08	0.02	0.00	0.00	19.61
rs62389801	X-23974 levels	GCST90200615	5	175038252	T	C	7752	-0.20	0.05	0.00	0.00	19.60
rs7759575	X-23974 levels	GCST90200615	6	50114105	G	A	7752	0.12	0.02	0.00	0.00	23.97
rs55723360	X-23974 levels	GCST90200615	6	155835974	G	A	7752	0.26	0.06	0.00	0.00	19.86
rs62638681	X-23974 levels	GCST90200615	7	124764929	G	A	7752	-0.19	0.04	0.00	0.00	20.10
rs187742999	X-23974 levels	GCST90200615	8	114535325	A	C	7752	-0.27	0.06	0.00	0.00	21.23
rs56208285	X-23974 levels	GCST90200615	9	3733123	A	G	7752	0.26	0.05	0.00	0.00	23.68
rs11256258	X-23974 levels	GCST90200615	10	5991452	G	A	7752	-0.14	0.03	0.00	0.00	25.55
rs185808303	X-23974 levels	GCST90200615	10	25141401	A	T	7752	0.31	0.07	0.00	0.00	21.84
rs11845688	X-23974 levels	GCST90200615	14	34348472	C	T	7752	0.20	0.04	0.00	0.00	19.93
rs58211683	X-23974 levels	GCST90200615	16	85181804	C	G	7752	0.10	0.02	0.00	0.00	19.81
rs1075485	X-23974 levels	GCST90200615	17	1715954	A	G	7752	0.12	0.02	0.00	0.01	48.87
rs146885212	X-23974 levels	GCST90200615	18	67432190	G	T	7752	-0.25	0.05	0.00	0.00	20.75
rs117012466	X-23974 levels	GCST90200615	19	48001441	T	C	7752	-0.30	0.07	0.00	0.00	19.71
rs116068903	X-23659 levels	GCST90200616	1	67033038	T	C	8176	-0.30	0.06	0.00	0.00	30.35
rs909530	X-23659 levels	GCST90200616	1	171114034	T	C	8176	-0.09	0.02	0.00	0.00	30.63
rs74675471	X-23659 levels	GCST90200616	1	201597747	A	G	8176	-0.16	0.03	0.00	0.00	19.89
rs889846	X-23659 levels	GCST90200616	2	45341488	G	A	8176	0.07	0.02	0.00	0.00	20.38
rs111635576	X-23659 levels	GCST90200616	2	170530349	T	G	8176	0.30	0.07	0.00	0.00	20.56
rs34886476	X-23659 levels	GCST90200616	2	215474643	T	C	8176	-0.20	0.04	0.00	0.00	21.61
rs12496932	X-23659 levels	GCST90200616	3	16823240	C	T	8176	-0.12	0.03	0.00	0.00	20.68
rs9310990	X-23659 levels	GCST90200616	3	32321644	T	C	8176	-0.09	0.02	0.00	0.00	19.75
rs12633195	X-23659 levels	GCST90200616	3	58582778	T	A	8176	-0.07	0.01	0.00	0.00	19.89
rs7642809	X-23659 levels	GCST90200616	3	71987195	G	C	8176	-0.07	0.01	0.00	0.00	21.85
rs249534	X-23659 levels	GCST90200616	5	35098569	A	G	8176	0.36	0.08	0.00	0.00	21.62
rs2928034	X-23659 levels	GCST90200616	6	160219682	G	T	8176	-0.08	0.02	0.00	0.00	19.52
rs35903750	X-23659 levels	GCST90200616	7	27511014	C	T	8176	-0.08	0.02	0.00	0.00	22.56
rs17814449	X-23659 levels	GCST90200616	7	131243429	T	C	8176	-0.09	0.02	0.00	0.00	27.81
rs13650	X-23659 levels	GCST90200616	7	150800957	G	A	8176	0.09	0.02	0.00	0.00	32.40
rs60234513	X-23659 levels	GCST90200616	7	150907318	C	T	8176	-0.24	0.02	0.00	0.03	219.66
rs139392998	X-23659 levels	GCST90200616	9	99874587	A	G	8176	0.33	0.07	0.00	0.00	20.94
rs11596884	X-23659 levels	GCST90200616	10	3802082	G	A	8176	-0.07	0.02	0.00	0.00	21.37
rs148317466	X-23659 levels	GCST90200616	10	11386717	A	G	8176	-0.22	0.05	0.00	0.00	20.87
rs76405976	X-23659 levels	GCST90200616	10	124277177	T	C	8176	-0.88	0.19	0.00	0.00	21.73
rs117676716	X-23659 levels	GCST90200616	12	78602600	T	C	8176	-0.22	0.05	0.00	0.00	19.94
rs113729535	X-23659 levels	GCST90200616	13	22683620	A	G	8176	-0.19	0.04	0.00	0.00	21.54
rs112426891	X-23659 levels	GCST90200616	13	46305926	A	C	8176	0.28	0.06	0.00	0.00	20.70
rs61987045	X-23659 levels	GCST90200616	14	90660243	T	A	8176	0.08	0.02	0.00	0.00	20.49
rs75312845	X-23659 levels	GCST90200616	16	49199620	A	G	8176	0.14	0.03	0.00	0.00	20.21
rs111481046	X-23659 levels	GCST90200616	16	79518768	C	T	8176	-0.18	0.04	0.00	0.00	21.85
rs191374	X-23659 levels	GCST90200616	17	4489888	G	A	8176	-0.08	0.02	0.00	0.00	21.06
rs56207875	X-23659 levels	GCST90200616	18	24899746	T	G	8176	0.28	0.06	0.00	0.00	21.59
rs628064	X-23659 levels	GCST90200616	18	32228003	T	A	8176	-0.07	0.01	0.00	0.00	21.85
rs16973810	X-23659 levels	GCST90200616	18	40865786	A	G	8176	-0.11	0.02	0.00	0.00	24.15
rs73169536	X-23659 levels	GCST90200616	22	26959686	T	C	8176	0.36	0.08	0.00	0.00	19.89
rs77484544	X-23665 levels	GCST90200617	2	22726024	G	A	8214	-0.28	0.06	0.00	0.00	25.91
rs113056248	X-23665 levels	GCST90200617	3	59970824	C	G	8214	0.36	0.08	0.00	0.00	20.25
rs144608253	X-23665 levels	GCST90200617	3	106148161	C	T	8214	-0.22	0.05	0.00	0.00	23.62
rs187422819	X-23665 levels	GCST90200617	3	166715099	A	G	8214	0.37	0.08	0.00	0.00	22.50

rs16899449	X-23665 levels	GCST90200617	5	82290055	C	T	8214	0.36	0.07	0.00	0.00	23.89
rs62374079	X-23665 levels	GCST90200617	5	118918803	T	C	8214	-0.32	0.07	0.00	0.00	20.31
rs2536083	X-23665 levels	GCST90200617	7	151694735	T	G	8214	0.16	0.04	0.00	0.00	20.69
rs11795037	X-23665 levels	GCST90200617	9	11285108	C	T	8214	-0.09	0.02	0.00	0.00	20.24
rs10983535	X-23665 levels	GCST90200617	9	117119963	T	C	8214	0.07	0.02	0.00	0.00	21.12
rs12571057	X-23665 levels	GCST90200617	10	18112685	T	A	8214	0.12	0.03	0.00	0.00	19.60
rs11796778	X-23665 levels	GCST90200617	10	49008528	A	C	8214	0.27	0.06	0.00	0.00	20.94
rs2915031	X-23665 levels	GCST90200617	10	75490034	A	T	8214	-0.11	0.02	0.00	0.00	21.91
rs13905297	X-23665 levels	GCST90200617	11	1245928	A	G	8214	0.23	0.05	0.00	0.00	19.97
rs15030591	X-23665 levels	GCST90200617	12	103560316	G	A	8214	0.57	0.12	0.00	0.00	21.20
rs11215413	X-23665 levels	GCST90200617	12	121707075	T	C	8214	-0.19	0.04	0.00	0.00	19.93
rs19072377	X-23665 levels	GCST90200617	16	79224354	A	G	8214	0.69	0.15	0.00	0.00	21.31
rs18384300	X-23665 levels	GCST90200617	18	73325250	C	T	8214	-0.19	0.04	0.00	0.00	20.08
rs62206222	X-23665 levels	GCST90200617	20	57953539	T	C	8214	0.10	0.02	0.00	0.00	19.99
rs10470148	X-23665 levels	GCST90200617	21	28093701	A	T	8214	-0.16	0.04	0.00	0.00	20.59
rs11089528	X-23665 levels	GCST90200617	22	31809981	G	C	8214	-0.12	0.02	0.00	0.00	22.36
rs3112826	X-23782 levels	GCST90200618	1	77450962	A	G	8263	-0.08	0.02	0.00	0.00	20.44
rs72843776	X-23782 levels	GCST90200618	2	123964512	C	G	8263	-0.24	0.05	0.00	0.00	25.17
rs887829	X-23782 levels	GCST90200618	2	233759924	T	C	8263	0.08	0.02	0.00	0.00	27.57
rs1580550	X-23782 levels	GCST90200618	4	91973653	C	T	8263	0.17	0.03	0.00	0.00	27.17
rs78052874	X-23782 levels	GCST90200618	4	152378000	A	C	8263	-0.22	0.05	0.00	0.00	22.57
rs2121125	X-23782 levels	GCST90200618	5	13837964	T	C	8263	-0.07	0.02	0.00	0.00	20.00
rs10043238	X-23782 levels	GCST90200618	5	87858544	C	G	8263	0.07	0.02	0.00	0.00	19.70
rs12209735	X-23782 levels	GCST90200618	6	9150611	T	G	8263	-0.14	0.03	0.00	0.00	24.39
rs14366376	X-23782 levels	GCST90200618	7	81528515	T	C	8263	-0.36	0.08	0.00	0.00	20.05
rs76759186	X-23782 levels	GCST90200618	8	90626354	G	A	8263	-0.23	0.05	0.00	0.00	19.90
rs4529574	X-23782 levels	GCST90200618	9	90863959	G	A	8263	0.10	0.02	0.00	0.00	20.68
rs7040332	X-23782 levels	GCST90200618	9	111683067	T	C	8263	0.07	0.02	0.00	0.00	22.65
rs11767688	X-23782 levels	GCST90200618	10	3308072	C	T	8263	0.22	0.04	0.00	0.00	25.16
rs765693	X-23782 levels	GCST90200618	12	108496030	T	C	8263	0.17	0.04	0.00	0.00	19.58
rs9551925	X-23782 levels	GCST90200618	13	30482631	G	T	8263	0.08	0.02	0.00	0.00	22.07
rs1474176	X-23782 levels	GCST90200618	16	85975208	G	A	8263	0.07	0.02	0.00	0.00	20.27
rs1075485	X-23782 levels	GCST90200618	17	1715954	A	G	8263	0.08	0.02	0.00	0.00	24.95
rs11735372	X-23782 levels	GCST90200618	17	64534788	A	C	8263	0.22	0.05	0.00	0.00	21.44
rs4607006	X-23782 levels	GCST90200618	20	7679441	G	A	8263	-0.07	0.01	0.00	0.00	21.17
rs80053496	X-23782 levels	GCST90200618	21	39201944	A	G	8263	-0.24	0.05	0.00	0.00	21.82
rs6658908	X-24295 levels	GCST90200619	1	14729600	T	C	7987	0.10	0.02	0.00	0.00	21.20
rs7525473	X-24295 levels	GCST90200619	1	60011612	G	A	7987	-0.08	0.02	0.00	0.00	22.15
rs13830144	X-24295 levels	GCST90200619	2	20645281	A	G	7987	0.29	0.06	0.00	0.00	20.51
rs18530646	X-24295 levels	GCST90200619	2	21339902	C	T	7987	0.34	0.08	0.00	0.00	20.20
rs1260326	X-24295 levels	GCST90200619	2	27508073	C	T	7987	-0.07	0.02	0.00	0.00	22.32
rs14229831	X-24295 levels	GCST90200619	2	36130151	A	C	7987	-0.26	0.06	0.00	0.00	19.66
rs11254109	X-24295 levels	GCST90200619	4	2792222	C	T	7987	0.16	0.04	0.00	0.00	19.58
rs72771860	X-24295 levels	GCST90200619	5	88678865	T	G	7987	-0.15	0.03	0.00	0.00	24.21
rs935037	X-24295 levels	GCST90200619	7	154968659	G	A	7987	0.07	0.02	0.00	0.00	19.78
rs11144036	X-24295 levels	GCST90200619	9	74650458	A	G	7987	0.21	0.04	0.00	0.00	23.41
rs11005466	X-24295 levels	GCST90200619	10	56729413	C	T	7987	-0.31	0.06	0.00	0.00	23.31
rs2735355	X-24295 levels	GCST90200619	10	88054655	A	C	7987	0.07	0.02	0.00	0.00	21.34
rs7089734	X-24295 levels	GCST90200619	10	133034546	A	G	7987	0.09	0.02	0.00	0.00	27.02
rs19265967	X-24295 levels	GCST90200619	11	92672678	A	G	7987	0.40	0.09	0.00	0.00	21.00
rs17101423	X-24295 levels	GCST90200619	14	33515216	G	A	7987	0.14	0.03	0.00	0.00	28.91
rs16970457	X-24295 levels	GCST90200619	17	34921101	C	T	7987	0.12	0.03	0.00	0.00	20.99
rs514766	X-24295 levels	GCST90200619	18	67837076	A	G	7987	-0.07	0.02	0.00	0.00	19.80
rs14990643	X-24295 levels	GCST90200619	20	55605564	T	C	7987	0.22	0.05	0.00	0.00	20.83
rs11356460	X-24295 levels	GCST90200619	21	24435423	G	C	7987	0.23	0.05	0.00	0.00	20.95
rs77030894	X-24295 levels	GCST90200619	21	41699531	A	G	7987	0.31	0.07	0.00	0.00	19.59
rs79367507	X-24243 levels	GCST90200620	1	233603409	T	G	7540	0.17	0.04	0.00	0.00	20.91
rs12496390	X-24243 levels	GCST90200620	3	115681211	T	C	7540	-0.11	0.02	0.00	0.00	22.85

rs111496438	X-24243 levels	GCST90200620	3	135998378	G	A	7540	-0.25	0.05	0.00	0.00	21.78
rs115360023	X-24243 levels	GCST90200620	3	196828829	T	C	7540	0.10	0.02	0.00	0.00	20.71
rs61606193	X-24243 levels	GCST90200620	4	11500135	A	C	7540	0.15	0.03	0.00	0.00	23.88
rs28523827	X-24243 levels	GCST90200620	4	36519273	C	T	7540	-0.09	0.02	0.00	0.00	19.56
rs17233185	X-24243 levels	GCST90200620	5	65576870	G	A	7540	0.24	0.05	0.00	0.00	22.87
rs13226735	X-24243 levels	GCST90200620	7	21406855	T	C	7540	0.12	0.02	0.00	0.00	21.53
rs146762234	X-24243 levels	GCST90200620	7	50945130	T	C	7540	0.31	0.06	0.00	0.00	24.91
rs1863015	X-24243 levels	GCST90200620	7	132357439	G	A	7540	0.08	0.02	0.00	0.00	21.46
rs59667275	X-24243 levels	GCST90200620	7	135169313	T	C	7540	0.15	0.03	0.00	0.00	22.93
rs2082580	X-24243 levels	GCST90200620	9	18878844	A	G	7540	0.08	0.02	0.00	0.00	20.48
rs10869937	X-24243 levels	GCST90200620	9	77536133	C	T	7540	-0.13	0.03	0.00	0.00	20.58
rs117245508	X-24243 levels	GCST90200620	10	65416504	G	A	7540	0.35	0.08	0.00	0.00	20.19
rs34818942	X-24243 levels	GCST90200620	12	121789928	T	C	7540	-0.14	0.03	0.00	0.00	19.59
rs149531955	X-24243 levels	GCST90200620	14	59460437	C	T	7540	0.42	0.05	0.00	0.01	61.21
rs61985497	X-24243 levels	GCST90200620	14	59481137	A	G	7540	0.26	0.03	0.00	0.01	82.86
rs56365547	X-24243 levels	GCST90200620	14	92292907	C	T	7540	0.29	0.06	0.00	0.00	22.83
rs8054464	X-24243 levels	GCST90200620	16	7354314	G	A	7540	0.09	0.02	0.00	0.00	19.60
rs147740141	X-24243 levels	GCST90200620	20	63613387	A	G	7540	-0.38	0.08	0.00	0.00	22.90
rs10218823	X-23739 levels	GCST90200621	1	6029418	T	G	8249	-0.22	0.05	0.00	0.00	19.53
rs2806396	X-23739 levels	GCST90200621	1	58021160	G	A	8249	-0.08	0.02	0.00	0.00	25.91
rs76729342	X-23739 levels	GCST90200621	1	164475305	A	C	8249	-0.14	0.03	0.00	0.00	19.97
rs9308485	X-23739 levels	GCST90200621	1	232101949	A	G	8249	-0.09	0.02	0.00	0.00	19.95
rs4665972	X-23739 levels	GCST90200621	2	27375230	C	T	8249	0.09	0.02	0.00	0.00	33.57
rs34739313	X-23739 levels	GCST90200621	2	132568631	A	G	8249	0.08	0.02	0.00	0.00	20.15
rs6796414	X-23739 levels	GCST90200621	3	3700393	G	A	8249	0.12	0.03	0.00	0.00	20.10
rs34540037	X-23739 levels	GCST90200621	3	116893197	A	G	8249	-0.08	0.02	0.00	0.00	23.05
rs954277	X-23739 levels	GCST90200621	3	141734688	G	T	8249	0.40	0.09	0.00	0.00	20.57
rs150686451	X-23739 levels	GCST90200621	4	26329265	C	T	8249	0.26	0.05	0.00	0.00	23.80
rs115424826	X-23739 levels	GCST90200621	4	73770083	T	G	8249	0.30	0.07	0.00	0.00	20.74
rs2499736	X-23739 levels	GCST90200621	6	33942008	C	T	8249	-0.13	0.03	0.00	0.00	19.79
rs12209480	X-23739 levels	GCST90200621	6	108958008	A	G	8249	0.13	0.03	0.00	0.00	20.68
rs74573247	X-23739 levels	GCST90200621	7	7480545	G	T	8249	0.30	0.07	0.00	0.00	20.47
rs74927060	X-23739 levels	GCST90200621	8	59111896	C	T	8249	0.26	0.05	0.00	0.00	23.11
rs7037946	X-23739 levels	GCST90200621	9	6684329	C	G	8249	-0.08	0.02	0.00	0.00	22.69
rs2479050	X-23739 levels	GCST90200621	10	17308619	T	A	8249	-0.07	0.02	0.00	0.00	20.71
rs7081307	X-23739 levels	GCST90200621	10	50301316	T	C	8249	-0.08	0.02	0.00	0.00	19.56
rs12292586	X-23739 levels	GCST90200621	11	62388840	T	C	8249	-0.14	0.02	0.00	0.00	36.90
rs112482010	X-23739 levels	GCST90200621	12	113897203	T	C	8249	-0.18	0.04	0.00	0.00	21.76
rs78125713	X-23739 levels	GCST90200621	14	69657852	A	G	8249	-0.23	0.05	0.00	0.00	22.91
rs2296487	X-23739 levels	GCST90200621	14	103529868	C	T	8249	-0.08	0.02	0.00	0.00	23.13
rs2282377	X-23739 levels	GCST90200621	14	104105483	G	C	8249	0.39	0.02	0.00	0.04	306.16
rs2601882	X-23739 levels	GCST90200621	15	69902992	T	G	8249	0.08	0.02	0.00	0.00	21.05
rs11864751	X-23739 levels	GCST90200621	16	56944236	T	C	8249	-0.08	0.02	0.00	0.00	19.96
rs9907876	X-23739 levels	GCST90200621	17	10915287	C	T	8249	-0.07	0.02	0.00	0.00	19.73
rs112986768	X-23739 levels	GCST90200621	19	29506244	G	A	8249	0.16	0.04	0.00	0.00	20.91
rs4049869	X-23739 levels	GCST90200621	22	24618473	C	A	8249	-0.08	0.02	0.00	0.00	23.38
rs117541557	X-23739 levels	GCST90200621	22	45559000	A	G	8249	0.20	0.04	0.00	0.00	20.23
rs2660358	X-23997 levels	GCST90200622	1	25112958	G	A	7804	0.17	0.04	0.00	0.00	20.55
rs2803165	X-23997 levels	GCST90200622	1	77445445	T	C	7804	0.08	0.02	0.00	0.00	20.30
rs12032311	X-23997 levels	GCST90200622	1	170311707	G	A	7804	-0.10	0.02	0.00	0.00	19.83
rs12131072	X-23997 levels	GCST90200622	1	200088375	T	C	7804	-0.08	0.02	0.00	0.00	20.16
rs28846674	X-23997 levels	GCST90200622	2	16913054	T	C	7804	-0.10	0.02	0.00	0.00	23.44
rs3796193	X-23997 levels	GCST90200622	3	59942001	G	A	7804	-0.16	0.03	0.00	0.00	21.45
rs77267418	X-23997 levels	GCST90200622	3	169203758	T	C	7804	0.15	0.03	0.00	0.00	20.96
rs150142088	X-23997 levels	GCST90200622	4	30133433	C	T	7804	-0.17	0.04	0.00	0.00	20.62
rs146951682	X-23997 levels	GCST90200622	4	134970604	A	C	7804	-0.55	0.12	0.00	0.00	21.09
rs80224399	X-23997 levels	GCST90200622	4	157356706	C	A	7804	-0.21	0.05	0.00	0.00	20.11
rs7770726	X-23997 levels	GCST90200622	6	161736447	T	C	7804	-0.27	0.05	0.00	0.00	25.29
rs17149947	X-23997 levels	GCST90200622	8	8320768	G	A	7804	-0.20	0.04	0.00	0.00	19.74
rs75573493	X-23997 levels	GCST90200622	8	25994640	T	A	7804	0.18	0.04	0.00	0.00	25.19
rs75357928	X-23997 levels	GCST90200622	8	51876397	C	A	7804	0.19	0.04	0.00	0.00	19.99

rs17455169	X-23997 levels	GCST90200622	8	118299978	A	G	7804	-0.14	0.02	0.00	0.00	32.15
rs10104327	X-23997 levels	GCST90200622	8	137699084	C	T	7804	0.07	0.02	0.00	0.00	22.20
rs72821220	X-23997 levels	GCST90200622	10	81065568	C	A	7804	-0.09	0.02	0.00	0.00	20.12
rs61886736	X-23997 levels	GCST90200622	11	57581520	T	C	7804	0.12	0.03	0.00	0.00	20.95
rs439307	X-23997 levels	GCST90200622	15	85035270	G	A	7804	0.08	0.02	0.00	0.00	19.93
rs72873982	X-23997 levels	GCST90200622	17	71221429	T	C	7804	-0.11	0.02	0.00	0.00	19.67
rs72933568	X-23997 levels	GCST90200622	18	63036980	T	G	7804	0.17	0.04	0.00	0.00	20.30
rs2824627	X-23997 levels	GCST90200622	21	18069064	T	G	7804	-0.17	0.04	0.00	0.00	23.52
rs737972	X-23997 levels	GCST90200622	22	17304309	G	A	7804	0.09	0.02	0.00	0.00	25.75
rs10929472	X-24241 levels	GCST90200623	2	7234508	A	G	8053	0.08	0.02	0.00	0.00	20.49
rs75747525	X-24241 levels	GCST90200623	2	184592170	A	G	8053	0.09	0.02	0.00	0.00	19.70
rs424029	X-24241 levels	GCST90200623	3	84960888	A	G	8053	-0.18	0.04	0.00	0.00	22.09
rs10004304	X-24241 levels	GCST90200623	4	5342278	T	C	8053	0.10	0.02	0.00	0.00	22.13
rs1050152	X-24241 levels	GCST90200623	5	132340627	T	C	8053	-0.11	0.02	0.00	0.01	46.93
rs77010315	X-24241 levels	GCST90200623	5	151343594	A	C	8053	-0.39	0.07	0.00	0.00	30.36
rs11556662	X-24241 levels	GCST90200623	6	13772098	C	T	8053	-0.29	0.06	0.00	0.00	20.80
7												
rs11255253	X-24241 levels	GCST90200623	6	58383537	T	C	8053	-0.41	0.09	0.00	0.00	22.47
8												
rs12208357	X-24241 levels	GCST90200623	6	160122116	T	C	8053	-0.19	0.03	0.00	0.00	39.38
rs34059508	X-24241 levels	GCST90200623	6	160154805	A	G	8053	-0.33	0.05	0.00	0.01	45.53
rs14890872	X-24241 levels	GCST90200623	7	95934284	G	A	8053	-0.25	0.06	0.00	0.00	20.35
1												
rs1171614	X-24241 levels	GCST90200623	10	59709780	C	T	8053	0.16	0.02	0.00	0.01	74.74
rs18742824	X-24241 levels	GCST90200623	11	101154499	A	G	8053	-0.35	0.07	0.00	0.00	22.17
7												
rs12427077	X-24241 levels	GCST90200623	12	13506527	G	A	8053	-0.10	0.02	0.00	0.00	21.37
rs79824243	X-24241 levels	GCST90200623	13	85582503	T	A	8053	-0.13	0.03	0.00	0.00	19.67
rs18148175	X-24241 levels	GCST90200623	15	55598921	T	C	8053	-0.36	0.08	0.00	0.00	20.06
5												
rs12903952	X-24241 levels	GCST90200623	15	93163252	T	C	8053	0.10	0.02	0.00	0.00	22.74
rs12448913	X-24241 levels	GCST90200623	16	5138788	G	C	8053	0.39	0.09	0.00	0.00	20.80
rs15128507	X-24241 levels	GCST90200623	17	42418403	A	G	8053	0.13	0.03	0.00	0.00	20.07
7												
rs60177389	X-24241 levels	GCST90200623	18	29410169	C	A	8053	0.15	0.03	0.00	0.00	20.93
rs7234351	X-24241 levels	GCST90200623	18	68019389	A	C	8053	0.07	0.02	0.00	0.00	20.51
rs14299189	X-24241 levels	GCST90200623	19	28209233	C	G	8053	-0.33	0.07	0.00	0.00	19.73
6												
rs743022	X-24241 levels	GCST90200623	20	23420492	C	G	8053	0.07	0.02	0.00	0.00	19.64
rs139160	X-24241 levels	GCST90200623	22	44201624	C	T	8053	0.08	0.02	0.00	0.00	19.78
rs74649444	X-24328 levels	GCST90200624	1	35377738	T	C	7807	-0.11	0.02	0.00	0.00	19.93
rs1344	X-24328 levels	GCST90200624	1	147647471	A	G	7807	0.08	0.01	0.00	0.00	30.68
rs72761022	X-24328 levels	GCST90200624	1	247850014	C	G	7807	0.17	0.04	0.00	0.00	19.71
rs3856497	X-24328 levels	GCST90200624	2	33515921	A	T	7807	0.11	0.02	0.00	0.00	30.28
rs6543411	X-24328 levels	GCST90200624	2	106415823	C	T	7807	-0.08	0.02	0.00	0.00	21.28
rs14619992	X-24328 levels	GCST90200624	2	218989595	T	G	7807	-0.34	0.05	0.00	0.01	46.52
3												
rs2623901	X-24328 levels	GCST90200624	3	12022000	G	T	7807	0.11	0.02	0.00	0.01	43.53
rs7649090	X-24328 levels	GCST90200624	3	55192371	T	C	7807	0.07	0.01	0.00	0.00	23.96
rs11724613	X-24328 levels	GCST90200624	4	15434544	T	C	7807	0.19	0.04	0.00	0.00	23.02
rs79852625	X-24328 levels	GCST90200624	4	93864835	G	A	7807	-0.30	0.06	0.00	0.00	24.00
rs7293380	X-24328 levels	GCST90200624	5	50259824	C	T	7807	0.12	0.01	0.00	0.01	63.76
rs11949166	X-24328 levels	GCST90200624	5	132691989	T	A	7807	-0.08	0.02	0.00	0.00	24.73
rs10458052	X-24328 levels	GCST90200624	6	1694864	T	A	7807	-0.09	0.02	0.00	0.00	29.45
rs4895884	X-24328 levels	GCST90200624	6	130427039	G	A	7807	-0.09	0.02	0.00	0.00	24.07
rs9397485	X-24328 levels	GCST90200624	6	152113693	G	A	7807	0.07	0.02	0.00	0.00	22.53
rs6970936	X-24328 levels	GCST90200624	7	40846064	A	G	7807	0.07	0.02	0.00	0.00	20.26
rs62466318	X-24328 levels	GCST90200624	7	73627755	T	C	7807	-0.15	0.02	0.00	0.01	66.03
rs7809761	X-24328 levels	GCST90200624	7	159224226	C	T	7807	0.15	0.03	0.00	0.00	22.18
rs18468269	X-24328 levels	GCST90200624	8	96461019	C	A	7807	-0.32	0.07	0.00	0.00	20.00
1												
rs56349412	X-24328 levels	GCST90200624	9	655309	C	T	7807	0.08	0.02	0.00	0.00	21.52
rs7020139	X-24328 levels	GCST90200624	9	26771129	A	G	7807	0.06	0.01	0.00	0.00	19.69
rs2951093	X-24328 levels	GCST90200624	10	52530679	G	A	7807	0.08	0.02	0.00	0.00	20.20
rs14027500	X-24328 levels	GCST90200624	10	121713268	A	G	7807	-0.29	0.06	0.00	0.00	22.76
6												
rs14204545	X-24328 levels	GCST90200624	11	86685146	T	C	7807	0.23	0.05	0.00	0.00	22.51
0												
rs55860968	X-24328 levels	GCST90200624	12	4048212	G	A	7807	0.07	0.02	0.00	0.00	21.26
rs18978662	X-24328 levels	GCST90200624	13	22840716	T	C	7807	0.25	0.05	0.00	0.00	23.63
9												
rs11853486	X-24328 levels	GCST90200624	15	38946961	T	C	7807	0.16	0.04	0.00	0.00	20.21
rs59859821	X-24328 levels	GCST90200624	16	13860360	T	C	7807	-0.25	0.05	0.00	0.00	21.53
rs41202	X-24328 levels	GCST90200624	16	49267219	A	G	7807	0.14	0.03	0.00	0.00	19.68

rs72782925	X-24328 levels	GCST90200624	16	64387027	C	T	7807	-0.11	0.02	0.00	0.00	20.27
rs72845578	X-24328 levels	GCST90200624	17	8092005	T	A	7807	-0.29	0.06	0.00	0.00	22.49
rs76089176	X-24328 levels	GCST90200624	17	18092414	G	C	7807	-0.12	0.03	0.00	0.00	20.78
rs145808970	X-24328 levels	GCST90200624	18	11665576	A	G	7807	-0.40	0.09	0.00	0.00	21.85
rs6047215	X-24328 levels	GCST90200624	20	21041437	G	A	7807	-0.06	0.01	0.00	0.00	19.69
rs9983855	X-24328 levels	GCST90200624	21	36175812	G	A	7807	-0.06	0.01	0.00	0.00	20.08
rs9614869	X-24328 levels	GCST90200624	22	44371308	C	T	7807	0.08	0.02	0.00	0.00	21.43
rs994252	X-24456 levels	GCST90200625	4	176195312	G	C	6523	-0.08	0.02	0.00	0.00	20.05
rs906070	X-24456 levels	GCST90200625	5	10109211	T	C	6523	0.13	0.03	0.00	0.00	24.08
rs7709155	X-24456 levels	GCST90200625	5	81222290	T	C	6523	-0.11	0.02	0.00	0.00	23.08
rs57337762	X-24456 levels	GCST90200625	5	133328478	A	G	6523	-0.16	0.03	0.00	0.00	23.25
rs73012780	X-24456 levels	GCST90200625	6	150558101	T	G	6523	-0.12	0.03	0.00	0.00	22.10
rs17195725	X-24456 levels	GCST90200625	7	144440044	T	C	6523	0.10	0.02	0.00	0.00	25.22
rs10245855	X-24456 levels	GCST90200625	7	146359393	A	G	6523	0.25	0.05	0.00	0.00	29.40
rs4307365	X-24456 levels	GCST90200625	8	7023802	G	T	6523	-0.45	0.10	0.00	0.00	21.64
rs10109981	X-24456 levels	GCST90200625	8	21281405	A	G	6523	0.09	0.02	0.00	0.00	21.86
rs148962172	X-24456 levels	GCST90200625	9	38768734	A	G	6523	0.43	0.09	0.00	0.00	20.75
rs72727227	X-24456 levels	GCST90200625	9	72200933	T	A	6523	0.13	0.03	0.00	0.00	21.44
rs4740404	X-24456 levels	GCST90200625	9	131065974	T	C	6523	0.09	0.02	0.00	0.00	22.52
rs113943588	X-24456 levels	GCST90200625	11	19680349	A	G	6523	0.27	0.06	0.00	0.00	21.90
rs9518965	X-24456 levels	GCST90200625	13	103277089	T	C	6523	-0.09	0.02	0.00	0.00	19.75
rs7160701	X-24456 levels	GCST90200625	14	50702401	T	C	6523	0.42	0.09	0.00	0.00	20.45
rs111377867	X-24456 levels	GCST90200625	14	90442324	T	C	6523	-0.41	0.09	0.00	0.00	21.12
rs7496311	X-24456 levels	GCST90200625	15	24046456	C	G	6523	-0.09	0.02	0.00	0.00	19.83
rs956065	X-24456 levels	GCST90200625	16	73552867	A	G	6523	-0.16	0.03	0.00	0.00	21.99
rs72822748	X-24456 levels	GCST90200625	17	11064894	G	A	6523	-0.26	0.06	0.00	0.00	20.54
rs758633	X-24456 levels	GCST90200625	17	50918417	G	A	6523	-0.09	0.02	0.00	0.00	20.39
rs12952821	X-24456 levels	GCST90200625	17	79211988	A	G	6523	-0.30	0.07	0.00	0.00	21.03
rs16960555	X-24456 levels	GCST90200625	19	57826845	T	C	6523	0.09	0.02	0.00	0.00	21.02
rs6104732	X-24456 levels	GCST90200625	20	1197291	C	T	6523	-0.12	0.02	0.00	0.00	24.27
rs6075313	X-24456 levels	GCST90200625	20	18299616	G	A	6523	-0.08	0.02	0.00	0.00	19.55
rs56386303	X-24456 levels	GCST90200625	21	42030040	T	C	6523	0.18	0.04	0.00	0.00	21.64
rs1887284	X-24418 levels	GCST90200626	1	1551679	A	G	5952	0.35	0.07	0.00	0.00	22.22
rs140977378	X-24418 levels	GCST90200626	1	116770609	A	G	5952	0.31	0.06	0.00	0.00	23.22
rs56082542	X-24418 levels	GCST90200626	1	225426629	T	C	5952	-0.22	0.05	0.00	0.00	21.11
rs114265657	X-24418 levels	GCST90200626	2	81460739	C	G	5952	-0.27	0.06	0.00	0.00	21.26
rs183887677	X-24418 levels	GCST90200626	2	117766556	T	C	5952	0.17	0.04	0.00	0.00	20.44
rs112643750	X-24418 levels	GCST90200626	3	1223234	T	G	5952	0.37	0.08	0.00	0.00	21.23
rs9830884	X-24418 levels	GCST90200626	3	73563281	A	C	5952	-0.09	0.02	0.00	0.00	20.70
rs1902023	X-24418 levels	GCST90200626	4	68670366	C	A	5952	-0.20	0.02	0.00	0.02	134.58
rs13143630	X-24418 levels	GCST90200626	4	69473380	C	T	5952	-0.17	0.02	0.00	0.01	75.07
rs72875432	X-24418 levels	GCST90200626	4	87814351	T	G	5952	-0.16	0.04	0.00	0.00	21.29
rs34251109	X-24418 levels	GCST90200626	4	135754778	A	C	5952	0.28	0.06	0.00	0.00	22.05
rs4701252	X-24418 levels	GCST90200626	5	21779045	C	T	5952	0.12	0.03	0.00	0.00	23.09
rs115833612	X-24418 levels	GCST90200626	6	11644755	T	C	5952	0.18	0.04	0.00	0.00	22.34
rs40143	X-24418 levels	GCST90200626	7	112092501	A	G	5952	-0.08	0.02	0.00	0.00	19.91
rs7830314	X-24418 levels	GCST90200626	8	61465310	T	C	5952	0.16	0.03	0.00	0.00	27.62
rs6391	X-24418 levels	GCST90200626	8	142875549	G	A	5952	-0.18	0.02	0.00	0.02	109.17
rs3810951	X-24418 levels	GCST90200626	10	49627921	A	C	5952	-0.26	0.06	0.00	0.00	22.15
rs17713514	X-24418 levels	GCST90200626	11	63035630	T	C	5952	0.68	0.03	0.00	0.06	408.00
rs540582	X-24418 levels	GCST90200626	11	63312298	C	T	5952	-0.11	0.02	0.00	0.01	41.72
rs2853000	X-24418 levels	GCST90200626	11	110424503	G	T	5952	-0.10	0.02	0.00	0.00	27.89
rs112743229	X-24418 levels	GCST90200626	13	85352692	T	C	5952	0.17	0.04	0.00	0.00	19.68
rs141851876	X-24418 levels	GCST90200626	13	110738756	A	G	5952	-0.36	0.08	0.00	0.00	20.10
rs117433344	X-24418 levels	GCST90200626	15	50849392	A	G	5952	0.23	0.05	0.00	0.00	19.78
rs188698899	X-24418 levels	GCST90200626	16	10094345	C	A	5952	0.33	0.07	0.00	0.00	20.61
rs34423246	X-24418 levels	GCST90200626	18	65229664	C	T	5952	0.08	0.02	0.00	0.00	21.05
rs73450270	X-24418 levels	GCST90200626	22	45890945	G	A	5952	-0.14	0.03	0.00	0.00	20.77
rs71636908	X-24344 levels	GCST90200627	1	218094069	G	C	5457	0.24	0.04	0.00	0.01	28.77
rs146945917	X-24344 levels	GCST90200627	2	35567959	G	A	5457	-0.34	0.07	0.00	0.00	20.40

rs9869248	X-24344 levels	GCST90200627	3	64419315	A	T	5457	0.09	0.02	0.00	0.00	21.30
rs138686843	X-24344 levels	GCST90200627	3	66544023	C	G	5457	0.31	0.06	0.00	0.00	23.19
rs61651183	X-24344 levels	GCST90200627	3	71146699	A	G	5457	0.09	0.02	0.00	0.00	21.16
rs138437614	X-24344 levels	GCST90200627	3	99668161	G	A	5457	-0.39	0.08	0.00	0.00	22.04
rs1570069	X-24344 levels	GCST90200627	6	11017592	G	A	5457	-0.09	0.02	0.00	0.00	24.62
rs6601542	X-24344 levels	GCST90200627	8	10975355	G	A	5457	-0.09	0.02	0.00	0.00	20.28
rs56042914	X-24344 levels	GCST90200627	10	94869381	C	T	5457	0.11	0.02	0.00	0.00	21.64
rs183486150	X-24344 levels	GCST90200627	11	49617851	T	C	5457	-0.36	0.08	0.00	0.00	19.70
rs17134396	X-24344 levels	GCST90200627	11	75844008	T	C	5457	-0.26	0.06	0.00	0.00	20.53
rs145337820	X-24344 levels	GCST90200627	13	27488794	G	A	5457	-0.43	0.09	0.00	0.00	20.74
rs856215	X-24344 levels	GCST90200627	14	58773572	C	G	5457	0.10	0.02	0.00	0.00	21.70
rs1110179	X-24344 levels	GCST90200627	14	82614176	A	G	5457	0.14	0.03	0.00	0.00	23.14
rs117926430	X-24344 levels	GCST90200627	19	20480526	C	G	5457	-0.58	0.13	0.00	0.00	20.76
rs6061705	X-24344 levels	GCST90200627	20	61660797	C	T	5457	-0.10	0.02	0.00	0.00	19.54
rs17003996	X-24344 levels	GCST90200627	21	21764797	T	C	5457	-0.12	0.03	0.00	0.00	21.17
rs17394077	X-24556 levels	GCST90200628	1	164932909	C	T	8004	0.09	0.02	0.00	0.00	20.01
rs12045476	X-24556 levels	GCST90200628	1	188652797	T	C	8004	-0.12	0.03	0.00	0.00	20.65
rs56407361	X-24556 levels	GCST90200628	1	230901445	T	C	8004	0.15	0.03	0.00	0.00	21.29
rs75763335	X-24556 levels	GCST90200628	2	15331895	C	T	8004	-0.13	0.03	0.00	0.00	21.53
rs189445514	X-24556 levels	GCST90200628	2	120962042	A	G	8004	-0.76	0.17	0.00	0.00	20.12
rs75505934	X-24556 levels	GCST90200628	3	86458332	C	T	8004	-0.13	0.03	0.00	0.00	20.10
rs111281953	X-24556 levels	GCST90200628	4	14298921	A	G	8004	-0.11	0.02	0.00	0.00	20.45
rs10069534	X-24556 levels	GCST90200628	5	29886040	G	A	8004	0.18	0.04	0.00	0.00	20.78
rs1165195	X-24556 levels	GCST90200628	6	25814852	G	T	8004	-0.22	0.02	0.00	0.03	209.39
rs11963426	X-24556 levels	GCST90200628	6	90880281	A	G	8004	-0.08	0.02	0.00	0.00	19.59
rs150041281	X-24556 levels	GCST90200628	6	129407275	G	C	8004	0.27	0.06	0.00	0.00	19.86
rs57100697	X-24556 levels	GCST90200628	6	146965033	C	A	8004	0.15	0.03	0.00	0.00	20.43
rs76521444	X-24556 levels	GCST90200628	7	54389194	A	C	8004	0.63	0.12	0.00	0.00	25.81
rs111402129	X-24556 levels	GCST90200628	7	158962457	G	T	8004	0.22	0.05	0.00	0.00	21.62
rs144304570	X-24556 levels	GCST90200628	8	8926419	A	G	8004	0.42	0.09	0.00	0.00	20.96
rs4737990	X-24556 levels	GCST90200628	8	69543960	T	C	8004	-0.07	0.02	0.00	0.00	20.48
rs150953793	X-24556 levels	GCST90200628	8	92985151	A	C	8004	-0.26	0.06	0.00	0.00	20.93
rs1249281	X-24556 levels	GCST90200628	10	28427248	G	T	8004	0.10	0.02	0.00	0.00	19.69
rs2071426	X-24556 levels	GCST90200628	10	95068566	C	T	8004	-0.16	0.02	0.00	0.01	86.53
rs77108023	X-24556 levels	GCST90200628	10	111127148	T	G	8004	0.24	0.05	0.00	0.00	21.92
rs7125487	X-24556 levels	GCST90200628	11	13260511	G	C	8004	-0.08	0.02	0.00	0.00	19.54
rs192941780	X-24556 levels	GCST90200628	11	20651709	G	A	8004	0.46	0.10	0.00	0.00	21.83
rs113646243	X-24556 levels	GCST90200628	11	131275622	T	A	8004	0.16	0.04	0.00	0.00	21.38
rs118030454	X-24556 levels	GCST90200628	13	30918749	G	C	8004	0.11	0.02	0.00	0.00	20.22
rs9559984	X-24556 levels	GCST90200628	13	111105094	G	A	8004	0.08	0.02	0.00	0.00	23.73
rs6492857	X-24556 levels	GCST90200628	15	39083456	C	T	8004	0.07	0.02	0.00	0.00	21.62
rs12446720	X-24556 levels	GCST90200628	16	80757779	T	C	8004	-0.12	0.03	0.00	0.00	19.62
rs3785911	X-24556 levels	GCST90200628	17	50690070	C	A	8004	-0.08	0.02	0.00	0.00	23.40
rs138916827	X-24556 levels	GCST90200628	18	44135616	T	C	8004	-0.24	0.05	0.00	0.00	23.48
rs7266895	X-24556 levels	GCST90200628	20	50365978	A	G	8004	-0.15	0.03	0.00	0.00	34.99
rs1801133	X-24337 levels	GCST90200629	1	11796321	A	G	8088	-0.19	0.02	0.00	0.02	138.18
rs80103303	X-24337 levels	GCST90200629	1	40926453	A	T	8088	-0.27	0.06	0.00	0.00	20.33
rs572245	X-24337 levels	GCST90200629	1	85502889	T	G	8088	-0.08	0.02	0.00	0.00	20.75
rs10436922	X-24337 levels	GCST90200629	1	90852143	A	G	8088	0.11	0.02	0.00	0.00	25.17
rs479437	X-24337 levels	GCST90200629	1	109833516	G	A	8088	0.08	0.02	0.00	0.00	21.03
rs483180	X-24337 levels	GCST90200629	1	119724882	G	C	8088	0.09	0.02	0.00	0.00	30.06
rs10180789	X-24337 levels	GCST90200629	2	52227367	G	T	8088	-0.07	0.02	0.00	0.00	19.76
rs114063617	X-24337 levels	GCST90200629	2	142873232	C	A	8088	-0.17	0.04	0.00	0.00	21.08
rs28366034	X-24337 levels	GCST90200629	2	215312057	T	C	8088	-0.34	0.02	0.00	0.03	222.93
rs79064296	X-24337 levels	GCST90200629	3	126266226	T	G	8088	0.21	0.04	0.00	0.00	25.63
rs142666853	X-24337 levels	GCST90200629	3	169322806	C	T	8088	-0.27	0.06	0.00	0.00	20.43
rs1147240	X-24337 levels	GCST90200629	3	196948045	C	A	8088	-0.08	0.02	0.00	0.00	22.26

rs11733474	X-24337 levels	GCST90200629	4	56328163	T	G	8088	0.08	0.02	0.00	0.00	21.81
rs1808953	X-24337 levels	GCST90200629	4	98786579	G	C	8088	0.09	0.02	0.00	0.00	20.02
rs34597	X-24337 levels	GCST90200629	5	61024330	G	A	8088	-0.11	0.02	0.00	0.00	21.04
rs72817124	X-24337 levels	GCST90200629	5	115575403	T	G	8088	0.29	0.07	0.00	0.00	19.99
rs12682084	X-24337 levels	GCST90200629	8	4758976	A	T	8088	0.11	0.03	0.00	0.00	19.71
rs14368894	X-24337 levels	GCST90200629	8	40716521	G	A	8088	-0.25	0.05	0.00	0.00	24.01
rs72637065	X-24337 levels	GCST90200629	10	60747232	C	T	8088	-0.12	0.02	0.00	0.00	22.64
rs78609573	X-24337 levels	GCST90200629	10	80052337	T	C	8088	0.17	0.04	0.00	0.00	19.80
rs15081043	X-24337 levels	GCST90200629	10	89990958	C	G	8088	-0.15	0.03	0.00	0.00	19.67
rs884587	X-24337 levels	GCST90200629	10	110614544	T	C	8088	0.09	0.02	0.00	0.00	25.37
rs7937510	X-24337 levels	GCST90200629	11	125973934	C	T	8088	0.08	0.02	0.00	0.00	23.26
rs66688903	X-24337 levels	GCST90200629	12	77588320	T	C	8088	0.13	0.03	0.00	0.00	19.65
rs13990525	X-24337 levels	GCST90200629	13	33418196	A	G	8088	0.43	0.10	0.00	0.00	20.28
rs72966532	X-24337 levels	GCST90200629	18	73287789	G	A	8088	-0.08	0.02	0.00	0.00	22.15
rs7257744	X-24337 levels	GCST90200629	19	57096622	A	T	8088	0.07	0.02	0.00	0.00	20.08
rs2256417	X-24337 levels	GCST90200629	21	14923033	T	C	8088	0.08	0.02	0.00	0.00	26.20
rs35539444	X-24337 levels	GCST90200629	21	29648349	C	T	8088	0.17	0.04	0.00	0.00	19.91
rs7534636	X-24546 levels	GCST90200630	1	70836209	T	C	6391	-0.08	0.02	0.00	0.00	22.03
rs72793549	X-24546 levels	GCST90200630	2	23542500	A	G	6391	-0.58	0.12	0.00	0.00	21.97
rs2722621	X-24546 levels	GCST90200630	3	164684521	C	T	6391	-0.08	0.02	0.00	0.00	23.37
rs11583109	X-24546 levels	GCST90200630	4	85247764	A	G	6391	-0.19	0.04	0.00	0.00	21.33
rs14477619	X-24546 levels	GCST90200630	4	160744758	A	G	6391	-0.41	0.09	0.00	0.00	19.85
rs4868507	X-24546 levels	GCST90200630	5	175280558	T	C	6391	-0.36	0.07	0.00	0.00	23.41
rs77050282	X-24546 levels	GCST90200630	6	122835717	T	C	6391	0.62	0.14	0.00	0.00	20.33
rs11763581	X-24546 levels	GCST90200630	7	29593162	A	G	6391	-0.20	0.04	0.00	0.00	22.90
rs7778385	X-24546 levels	GCST90200630	7	103417894	G	A	6391	-0.10	0.02	0.00	0.00	21.81
rs2517255	X-24546 levels	GCST90200630	8	17492488	A	G	6391	-0.07	0.02	0.00	0.00	19.61
rs14785168	X-24546 levels	GCST90200630	8	55497158	A	G	6391	-0.23	0.05	0.00	0.00	21.13
rs10738952	X-24546 levels	GCST90200630	9	35979862	A	G	6391	-0.07	0.02	0.00	0.00	20.14
rs79634968	X-24546 levels	GCST90200630	9	107979911	C	G	6391	-0.13	0.03	0.00	0.00	21.16
rs11572168	X-24546 levels	GCST90200630	10	95042415	T	A	6391	0.20	0.02	0.00	0.01	63.79
rs3740065	X-24546 levels	GCST90200630	10	99845936	G	A	6391	-0.14	0.03	0.00	0.00	27.02
rs459854	X-24546 levels	GCST90200630	11	72648215	T	A	6391	-0.10	0.02	0.00	0.00	21.43
rs4762697	X-24546 levels	GCST90200630	12	21162039	T	A	6391	0.13	0.02	0.00	0.01	47.94
rs4149056	X-24546 levels	GCST90200630	12	21178615	C	T	6391	0.38	0.02	0.00	0.05	324.68
rs15030926	X-24546 levels	GCST90200630	13	72862098	C	T	6391	-0.38	0.08	0.00	0.00	25.48
rs17511079	X-24546 levels	GCST90200630	14	26864011	C	T	6391	-0.11	0.02	0.00	0.00	20.93
rs75395969	X-24546 levels	GCST90200630	14	79384733	T	C	6391	-0.55	0.12	0.00	0.00	22.62
rs2607114	X-24546 levels	GCST90200630	15	51660528	G	C	6391	0.28	0.06	0.00	0.00	20.78
rs1895534	X-24546 levels	GCST90200630	16	83344311	A	C	6391	0.08	0.02	0.00	0.00	20.10
rs62072547	X-24546 levels	GCST90200630	17	18364177	G	A	6391	-0.12	0.02	0.00	0.00	26.18
rs11658198	X-24546 levels	GCST90200630	19	45459918	G	C	6391	0.16	0.03	0.00	0.00	22.61
rs212100	X-24546 levels	GCST90200630	19	47873738	C	T	6391	0.16	0.02	0.00	0.01	49.75
rs2235811	X-24546 levels	GCST90200630	20	10663510	G	A	6391	0.08	0.02	0.00	0.00	20.35
rs6004875	X-24546 levels	GCST90200630	22	25987308	A	G	6391	0.08	0.02	0.00	0.00	20.33
rs12402345	X-24306 levels	GCST90200631	1	5093258	C	T	8074	-0.08	0.02	0.00	0.00	20.00
rs18164309	X-24306 levels	GCST90200631	1	93720847	C	G	8074	-0.20	0.04	0.00	0.00	20.04
rs10490044	X-24306 levels	GCST90200631	2	40405105	C	A	8074	-0.24	0.05	0.00	0.00	24.90
rs478921	X-24306 levels	GCST90200631	2	44979313	G	A	8074	0.07	0.02	0.00	0.00	21.35
rs14469686	X-24306 levels	GCST90200631	3	74992128	A	G	8074	0.39	0.08	0.00	0.00	21.26
rs11578840	X-24306 levels	GCST90200631	3	159552735	T	G	8074	0.22	0.04	0.00	0.00	24.57
rs73135080	X-24306 levels	GCST90200631	4	17093344	G	A	8074	-0.11	0.02	0.00	0.00	21.58
rs13125304	X-24306 levels	GCST90200631	4	189147585	A	G	8074	0.12	0.02	0.00	0.00	24.55
rs12516323	X-24306 levels	GCST90200631	5	133331977	A	G	8074	0.20	0.04	0.00	0.00	20.98
rs18942202	X-24306 levels	GCST90200631	5	166523951	A	G	8074	0.31	0.06	0.00	0.00	23.95
rs2080042	X-24306 levels	GCST90200631	7	15129726	C	T	8074	0.07	0.02	0.00	0.00	21.15
rs35130768	X-24306 levels	GCST90200631	7	38393277	G	T	8074	-0.11	0.02	0.00	0.00	20.11
rs10225322	X-24306 levels	GCST90200631	7	52593399	C	T	8074	-0.09	0.02	0.00	0.00	20.59
rs1438196	X-24306 levels	GCST90200631	8	4421820	G	A	8074	0.08	0.02	0.00	0.00	20.92
rs62504206	X-24306 levels	GCST90200631	8	16863033	A	G	8074	-0.11	0.02	0.00	0.00	25.63
rs16877581	X-24306 levels	GCST90200631	8	30959994	G	A	8074	0.36	0.08	0.00	0.00	20.18
rs12545923	X-24306 levels	GCST90200631	8	142018952	T	C	8074	-0.14	0.03	0.00	0.00	20.89

rs55749430	X-24306 levels	GCST90200631	10	71013639	G	A	8074	0.20	0.04	0.00	0.00	25.91
rs11194653	X-24306 levels	GCST90200631	10	109420635	C	T	8074	0.12	0.03	0.00	0.00	20.39
rs18537354 2	X-24306 levels	GCST90200631	11	99735749	T	C	8074	0.81	0.18	0.00	0.00	19.90
rs14562792 4	X-24306 levels	GCST90200631	13	23883833	T	C	8074	0.36	0.08	0.00	0.00	20.66
rs9324266	X-24306 levels	GCST90200631	13	112181624	C	T	8074	0.08	0.02	0.00	0.00	19.91
rs4899203	X-24306 levels	GCST90200631	14	67342254	G	A	8074	-0.41	0.08	0.00	0.00	24.42
rs2278166	X-24306 levels	GCST90200631	15	50205157	T	G	8074	0.08	0.02	0.00	0.00	21.29
rs11206456 4	X-24306 levels	GCST90200631	17	81210271	G	C	8074	-0.11	0.03	0.00	0.00	19.71
rs14775054 0	X-24307 levels	GCST90200632	1	21510050	A	G	8119	-0.19	0.04	0.00	0.00	19.58
rs11428116 7	X-24307 levels	GCST90200632	2	186329278	A	G	8119	-0.35	0.08	0.00	0.00	20.84
rs14385112 4	X-24307 levels	GCST90200632	2	197611428	G	A	8119	-0.10	0.02	0.00	0.00	28.84
rs9876033	X-24307 levels	GCST90200632	3	16707104	C	T	8119	-0.11	0.02	0.00	0.00	27.41
rs61526114	X-24307 levels	GCST90200632	3	110008697	G	T	8119	0.11	0.02	0.00	0.00	23.37
rs6765374	X-24307 levels	GCST90200632	3	175286616	C	T	8119	0.07	0.02	0.00	0.00	19.65
rs14662040 4	X-24307 levels	GCST90200632	7	155821006	A	G	8119	0.27	0.06	0.00	0.00	23.75
rs34265667	X-24307 levels	GCST90200632	8	41684575	A	G	8119	-0.20	0.05	0.00	0.00	19.74
rs17659692	X-24307 levels	GCST90200632	9	3567171	A	G	8119	-0.12	0.03	0.00	0.00	21.95
rs10829366	X-24307 levels	GCST90200632	10	128265098	T	C	8119	-0.08	0.02	0.00	0.00	20.92
rs517835	X-24307 levels	GCST90200632	11	126011207	C	T	8119	0.08	0.02	0.00	0.00	20.18
rs3016770	X-24307 levels	GCST90200632	11	128824145	G	T	8119	-0.09	0.02	0.00	0.00	22.79
rs760216	X-24307 levels	GCST90200632	14	78208090	C	G	8119	0.07	0.02	0.00	0.00	19.74
rs11772179 5	X-24307 levels	GCST90200632	15	63123412	G	C	8119	-0.23	0.05	0.00	0.00	19.82
rs62125966	X-24307 levels	GCST90200632	19	3418829	T	G	8119	0.24	0.05	0.00	0.00	21.59
rs11749343 4	X-24307 levels	GCST90200632	20	52829522	A	G	8119	-0.18	0.04	0.00	0.00	20.61
rs11185384	X-24334 levels	GCST90200633	1	104147449	T	C	6975	-0.08	0.02	0.00	0.00	21.91
rs3753874	X-24334 levels	GCST90200633	1	220527843	G	A	6975	-0.08	0.02	0.00	0.00	24.04
rs6744202	X-24334 levels	GCST90200633	2	16040031	G	A	6975	0.15	0.03	0.00	0.00	26.32
rs13028204	X-24334 levels	GCST90200633	2	28630270	G	C	6975	0.16	0.03	0.00	0.00	23.42
rs14605565 7	X-24334 levels	GCST90200633	2	94940641	A	C	6975	-0.57	0.12	0.00	0.00	21.46
rs12464231	X-24334 levels	GCST90200633	2	168135300	A	T	6975	0.31	0.07	0.00	0.00	20.26
rs4677181	X-24334 levels	GCST90200633	3	72527737	G	A	6975	0.10	0.02	0.00	0.00	21.42
rs76426516	X-24334 levels	GCST90200633	4	146430988	T	C	6975	-0.17	0.04	0.00	0.00	20.48
rs4976500	X-24334 levels	GCST90200633	5	136427550	C	T	6975	0.09	0.02	0.00	0.00	20.24
rs56169840	X-24334 levels	GCST90200633	5	160910884	T	G	6975	-0.18	0.04	0.00	0.00	19.56
rs11708081 1	X-24334 levels	GCST90200633	6	164325181	A	C	6975	0.33	0.07	0.00	0.00	21.22
rs76473115	X-24334 levels	GCST90200633	7	31392862	T	C	6975	-0.17	0.04	0.00	0.00	22.91
rs59753868	X-24334 levels	GCST90200633	11	2185596	G	C	6975	-0.13	0.03	0.00	0.00	25.06
rs12579954	X-24334 levels	GCST90200633	12	111812354	A	G	6975	-0.15	0.03	0.00	0.00	29.10
rs28820717	X-24334 levels	GCST90200633	14	31979441	T	C	6975	0.07	0.02	0.00	0.00	21.13
rs3784862	X-24334 levels	GCST90200633	16	16017034	A	G	6975	0.09	0.02	0.00	0.00	27.96
rs2263122	X-24334 levels	GCST90200633	17	82739897	G	T	6975	-0.15	0.02	0.00	0.01	97.08
rs12327341	X-24334 levels	GCST90200633	18	50018419	C	T	6975	0.09	0.02	0.00	0.00	19.55
rs77700976	X-24334 levels	GCST90200633	22	22397461	A	G	6975	-0.34	0.07	0.00	0.00	21.24
rs233074	X-24518 levels	GCST90200634	1	85343382	C	T	6131	0.39	0.02	0.00	0.08	538.63
rs6709127	X-24518 levels	GCST90200634	2	18498423	A	C	6131	0.11	0.02	0.00	0.00	25.10
rs1709328	X-24518 levels	GCST90200634	2	23505441	G	T	6131	0.09	0.02	0.00	0.00	24.45
rs62151604	X-24518 levels	GCST90200634	2	73430318	T	C	6131	-0.12	0.02	0.00	0.00	26.60
rs57682774 5	X-24518 levels	GCST90200634	3	42131609	C	T	6131	-0.14	0.03	0.00	0.00	19.81
rs11499219 4	X-24518 levels	GCST90200634	3	70692383	T	C	6131	0.24	0.05	0.00	0.00	19.89
rs14820047 3	X-24518 levels	GCST90200634	4	175010286	G	A	6131	-0.31	0.07	0.00	0.00	21.55
rs11475073 7	X-24518 levels	GCST90200634	5	13966409	T	C	6131	0.21	0.05	0.00	0.00	19.92
rs13170299	X-24518 levels	GCST90200634	5	35001754	A	G	6131	0.20	0.04	0.00	0.01	32.43
rs37369	X-24518 levels	GCST90200634	5	35037010	T	C	6131	-0.60	0.03	0.00	0.05	331.12
rs10058823	X-24518 levels	GCST90200634	5	59233346	T	C	6131	0.11	0.02	0.00	0.00	20.70
rs57629738	X-24518 levels	GCST90200634	5	125690844	C	A	6131	0.13	0.03	0.00	0.00	23.38
rs911592	X-24518 levels	GCST90200634	6	17033028	C	T	6131	0.11	0.02	0.00	0.00	21.67
rs683369	X-24518 levels	GCST90200634	6	160130172	C	G	6131	-0.14	0.02	0.00	0.01	42.69
rs6972638	X-24518 levels	GCST90200634	7	36649636	G	A	6131	0.10	0.02	0.00	0.00	19.79
rs78664929	X-24518 levels	GCST90200634	9	136534574	A	C	6131	0.21	0.05	0.00	0.00	21.63

rs28768812	X-24518 levels	GCST90200634	11	23186914	A	T	6131	-0.08	0.02	0.00	0.00	20.14
rs34400381	X-24518 levels	GCST90200634	11	65376421	A	G	6131	-0.28	0.05	0.00	0.01	32.03
rs1238609	X-24518 levels	GCST90200634	12	90297081	G	T	6131	0.16	0.03	0.00	0.00	27.21
rs1920412	X-24518 levels	GCST90200634	12	104054840	C	T	6131	-0.13	0.02	0.00	0.00	26.72
rs17515447	X-24518 levels	GCST90200634	14	32647897	C	G	6131	0.15	0.03	0.00	0.00	23.41
rs73300542	X-24518 levels	GCST90200634	17	13019143	A	T	6131	0.10	0.02	0.00	0.00	20.50
rs11084033	X-24518 levels	GCST90200634	19	50850699	A	C	6131	-0.09	0.02	0.00	0.00	19.86
rs3123537	X-24494 levels	GCST90200635	1	212638605	A	C	6767	0.08	0.02	0.00	0.00	19.54
rs11367506	X-24494 levels	GCST90200635	2	31426768	A	G	6767	0.33	0.07	0.00	0.00	20.93
rs72794638	X-24494 levels	GCST90200635	2	31561978	C	T	6767	0.52	0.06	0.00	0.01	78.01
rs13852989	X-24494 levels	GCST90200635	2	32253285	A	G	6767	0.43	0.04	0.00	0.01	94.61
rs4349490	X-24494 levels	GCST90200635	3	188586934	C	T	6767	0.40	0.09	0.00	0.00	20.67
rs15035158	X-24494 levels	GCST90200635	5	12566522	T	G	6767	0.28	0.06	0.00	0.00	20.19
rs76197235	X-24494 levels	GCST90200635	5	62016119	A	G	6767	-0.19	0.04	0.00	0.00	21.90
rs9386979	X-24494 levels	GCST90200635	6	111002769	G	C	6767	0.10	0.02	0.00	0.00	21.39
rs2001945	X-24494 levels	GCST90200635	8	125465736	C	G	6767	0.09	0.02	0.00	0.00	27.56
rs7855423	X-24494 levels	GCST90200635	9	19098969	A	G	6767	0.09	0.02	0.00	0.00	26.38
rs7475281	X-24494 levels	GCST90200635	10	5210939	C	A	6767	-0.15	0.02	0.00	0.01	38.68
rs14158834	X-24494 levels	GCST90200635	10	18383955	A	C	6767	-0.25	0.06	0.00	0.00	19.69
rs18304480	X-24494 levels	GCST90200635	11	63107876	T	C	6767	0.36	0.03	0.00	0.02	112.65
rs11717485	X-24494 levels	GCST90200635	13	35127888	A	G	6767	-0.46	0.09	0.00	0.00	23.69
rs11689159	X-24494 levels	GCST90200635	14	76126582	C	T	6767	-0.20	0.04	0.00	0.00	20.59
rs2719919	X-24494 levels	GCST90200635	15	25244229	T	C	6767	0.08	0.02	0.00	0.00	19.60
rs78769578	X-24494 levels	GCST90200635	16	50256814	T	C	6767	0.12	0.03	0.00	0.00	19.95
rs13987619	X-24494 levels	GCST90200635	17	3209072	A	G	6767	0.13	0.03	0.00	0.00	22.59
rs2042059	X-24494 levels	GCST90200635	18	74240610	T	C	6767	-0.12	0.03	0.00	0.00	21.74
rs13968426	X-24494 levels	GCST90200635	22	39453735	A	G	6767	0.29	0.06	0.00	0.00	20.88
rs74056029	X-24544 levels	GCST90200636	1	18622140	A	G	7939	0.17	0.04	0.00	0.00	19.90
rs79640698	X-24544 levels	GCST90200636	1	28937369	T	C	7939	0.23	0.04	0.00	0.00	27.12
rs15120951	X-24544 levels	GCST90200636	1	66628216	T	A	7939	-0.27	0.06	0.00	0.00	22.47
rs575854	X-24544 levels	GCST90200636	1	89284437	A	G	7939	-0.12	0.03	0.00	0.00	22.14
rs14469626	X-24544 levels	GCST90200636	2	140408221	A	G	7939	-0.25	0.05	0.00	0.00	20.75
rs1623163	X-24544 levels	GCST90200636	3	5237728	G	T	7939	0.08	0.02	0.00	0.00	20.45
rs168234	X-24544 levels	GCST90200636	3	5311500	A	G	7939	-0.10	0.02	0.00	0.00	19.96
rs11521798	X-24544 levels	GCST90200636	3	135113074	A	G	7939	0.22	0.05	0.00	0.00	21.07
rs2342307	X-24544 levels	GCST90200636	3	196215616	G	A	7939	-0.08	0.01	0.00	0.00	30.02
rs71606471	X-24544 levels	GCST90200636	5	3053182	A	C	7939	-0.11	0.02	0.00	0.00	20.20
rs74710095	X-24544 levels	GCST90200636	5	35577060	G	T	7939	0.09	0.02	0.00	0.00	31.37
rs12659258	X-24544 levels	GCST90200636	5	35970113	A	G	7939	0.65	0.02	0.00	0.13	#####
rs13198474	X-24544 levels	GCST90200636	6	25874195	A	G	7939	0.15	0.03	0.00	0.00	30.57
rs9385269	X-24544 levels	GCST90200636	6	98100103	T	C	7939	-0.07	0.01	0.00	0.00	23.96
rs14035132	X-24544 levels	GCST90200636	7	105865462	T	C	7939	0.12	0.02	0.00	0.00	21.59
rs2306847	X-24544 levels	GCST90200636	7	138113847	T	A	7939	0.09	0.02	0.00	0.00	23.15
rs14617101	X-24544 levels	GCST90200636	8	4761708	A	T	7939	-0.21	0.05	0.00	0.00	19.75
rs76728353	X-24544 levels	GCST90200636	8	63988463	A	G	7939	-0.20	0.04	0.00	0.00	27.12
rs11802005	X-24544 levels	GCST90200636	9	31379139	A	G	7939	-0.37	0.08	0.00	0.00	20.18
rs12255678	X-24544 levels	GCST90200636	10	112969723	G	T	7939	0.07	0.02	0.00	0.00	19.64
rs36094708	X-24544 levels	GCST90200636	11	95431511	G	A	7939	0.13	0.03	0.00	0.00	22.18
rs10860122	X-24544 levels	GCST90200636	12	97022286	A	G	7939	-0.07	0.02	0.00	0.00	20.40
rs9509847	X-24544 levels	GCST90200636	13	21744175	A	C	7939	-0.09	0.02	0.00	0.00	31.69
rs9601215	X-24544 levels	GCST90200636	13	35700343	C	G	7939	0.11	0.02	0.00	0.00	21.09
rs5000930	X-24544 levels	GCST90200636	13	90121111	C	T	7939	-0.50	0.11	0.00	0.00	19.57
rs9634593	X-24544 levels	GCST90200636	13	110527754	C	A	7939	0.07	0.01	0.00	0.00	23.92
rs2526591	X-24544 levels	GCST90200636	15	25581927	A	C	7939	-0.10	0.02	0.00	0.00	20.75
rs7403622	X-24544 levels	GCST90200636	15	33898285	T	C	7939	0.16	0.03	0.00	0.00	23.10
rs2279579	X-24544 levels	GCST90200636	15	40008242	G	T	7939	-0.07	0.01	0.00	0.00	21.06
rs7164377	X-24544 levels	GCST90200636	15	50303619	C	T	7939	-0.09	0.02	0.00	0.00	20.33
rs11646865	X-24544 levels	GCST90200636	16	13339450	G	A	7939	-0.07	0.01	0.00	0.00	19.99

rs117833456	X-24544 levels	GCST90200636	18	243820	C	T	7939	-0.19	0.04	0.00	0.00	21.44
rs7257243	X-24544 levels	GCST90200636	19	4750041	C	T	7939	-0.18	0.04	0.00	0.00	21.52
rs147051925	X-24544 levels	GCST90200636	20	55682030	A	G	7939	-0.30	0.07	0.00	0.00	20.10
rs116975568	X-24544 levels	GCST90200636	20	60609580	A	C	7939	-0.24	0.05	0.00	0.00	22.24
rs415850	X-24544 levels	GCST90200636	21	16856255	T	C	7939	0.11	0.02	0.00	0.00	20.06
rs4822680	X-24544 levels	GCST90200636	22	25999003	C	G	7939	0.06	0.01	0.00	0.00	19.75
rs441327	X-24531 levels	GCST90200637	2	47755433	A	G	6455	0.09	0.02	0.00	0.00	25.26
rs143372559	X-24531 levels	GCST90200637	2	234285057	T	C	6455	0.24	0.05	0.00	0.00	19.84
rs149559620	X-24531 levels	GCST90200637	3	74002431	A	G	6455	0.37	0.08	0.00	0.00	19.65
rs12645126	X-24531 levels	GCST90200637	4	3478991	T	C	6455	-0.12	0.03	0.00	0.00	19.70
rs58366569	X-24531 levels	GCST90200637	4	69150626	T	C	6455	0.08	0.02	0.00	0.00	21.91
rs17406477	X-24531 levels	GCST90200637	4	77535348	A	G	6455	0.13	0.03	0.00	0.00	21.91
rs10461476	X-24531 levels	GCST90200637	5	62745634	A	G	6455	-0.09	0.02	0.00	0.00	20.21
rs2328895	X-24531 levels	GCST90200637	6	25801855	T	C	6455	-0.20	0.02	0.00	0.02	143.24
rs193247150	X-24531 levels	GCST90200637	7	74611734	A	G	6455	0.32	0.06	0.00	0.00	24.64
rs6973796	X-24531 levels	GCST90200637	7	90444620	G	A	6455	-0.09	0.02	0.00	0.00	23.58
rs62502460	X-24531 levels	GCST90200637	8	15489143	A	G	6455	0.10	0.02	0.00	0.00	20.17
rs78675813	X-24531 levels	GCST90200637	9	124668278	C	G	6455	-0.43	0.09	0.00	0.00	22.34
rs4749829	X-24531 levels	GCST90200637	10	8996171	G	A	6455	-0.13	0.03	0.00	0.00	20.10
rs12805424	X-24531 levels	GCST90200637	11	59308423	A	G	6455	0.34	0.07	0.00	0.00	20.90
rs2103397	X-24531 levels	GCST90200637	12	6726319	G	A	6455	-0.09	0.02	0.00	0.00	22.95
rs56210146	X-24531 levels	GCST90200637	12	93618112	T	A	6455	0.49	0.11	0.00	0.00	20.53
rs148052419	X-24531 levels	GCST90200637	14	51986956	A	T	6455	-0.44	0.10	0.00	0.00	20.68
rs3803373	X-24531 levels	GCST90200637	15	50500677	A	G	6455	0.25	0.05	0.00	0.00	21.31
rs71647892	X-24531 levels	GCST90200637	16	66963853	C	T	6455	0.38	0.08	0.00	0.00	22.88
rs9899502	X-24531 levels	GCST90200637	17	38577826	A	G	6455	-0.09	0.02	0.00	0.00	20.36
rs35151110	X-24531 levels	GCST90200637	17	77749982	T	C	6455	-0.14	0.03	0.00	0.00	21.03
rs2031929	X-24531 levels	GCST90200637	20	7046326	A	G	6455	0.15	0.03	0.00	0.00	20.85
rs117576452	X-24531 levels	GCST90200637	20	33861445	T	C	6455	0.18	0.04	0.00	0.00	19.55
rs6667838	X-24811 levels	GCST90200638	1	39176378	G	C	6349	-0.30	0.07	0.00	0.00	20.26
rs115082793	X-24811 levels	GCST90200638	1	244750445	A	G	6349	-0.24	0.05	0.00	0.00	20.45
rs72800139	X-24811 levels	GCST90200638	2	30716715	T	C	6349	0.18	0.04	0.00	0.00	26.56
rs17563966	X-24811 levels	GCST90200638	2	59048953	T	G	6349	-0.10	0.02	0.00	0.00	24.60
rs73143635	X-24811 levels	GCST90200638	3	116707251	T	G	6349	0.20	0.04	0.00	0.00	21.46
rs7356413	X-24811 levels	GCST90200638	4	18596305	G	A	6349	0.10	0.02	0.00	0.00	19.72
rs140773324	X-24811 levels	GCST90200638	4	60947018	G	C	6349	-0.32	0.07	0.00	0.00	23.48
rs4692948	X-24811 levels	GCST90200638	4	168771475	A	C	6349	-0.09	0.02	0.00	0.00	23.17
rs142691123	X-24811 levels	GCST90200638	5	142707151	A	G	6349	-0.58	0.12	0.00	0.00	23.74
rs77437032	X-24811 levels	GCST90200638	6	43759609	G	T	6349	0.21	0.04	0.00	0.00	21.05
rs2745658	X-24811 levels	GCST90200638	6	82838514	T	C	6349	0.09	0.02	0.00	0.00	21.56
rs1951544	X-24811 levels	GCST90200638	6	94493793	C	T	6349	0.10	0.02	0.00	0.00	19.63
rs4410790	X-24811 levels	GCST90200638	7	17244953	C	T	6349	0.08	0.02	0.00	0.00	19.95
rs6960944	X-24811 levels	GCST90200638	7	25869326	C	T	6349	-0.15	0.03	0.00	0.00	21.61
rs116958008	X-24811 levels	GCST90200638	7	35964002	C	A	6349	-0.19	0.04	0.00	0.00	19.66
rs77991285	X-24811 levels	GCST90200638	9	75086786	T	C	6349	-0.14	0.03	0.00	0.00	24.53
rs142252263	X-24811 levels	GCST90200638	10	17177398	G	C	6349	-0.11	0.02	0.00	0.00	20.33
rs2893957	X-24811 levels	GCST90200638	10	64522275	C	T	6349	-0.21	0.05	0.00	0.00	19.63
rs116099895	X-24811 levels	GCST90200638	12	20019177	T	C	6349	-0.25	0.05	0.00	0.00	21.84
rs7311394	X-24811 levels	GCST90200638	12	42967327	A	G	6349	-0.10	0.02	0.00	0.00	19.93
rs4760658	X-24811 levels	GCST90200638	12	47902703	G	A	6349	0.08	0.02	0.00	0.00	19.85
rs746968	X-24811 levels	GCST90200638	12	117709474	A	C	6349	0.08	0.02	0.00	0.00	20.07
rs4769519	X-24811 levels	GCST90200638	13	26730091	A	G	6349	0.08	0.02	0.00	0.00	20.02
rs2068199	X-24811 levels	GCST90200638	15	31297565	A	G	6349	0.12	0.03	0.00	0.00	21.47
rs12593093	X-24811 levels	GCST90200638	15	46037277	G	A	6349	0.12	0.03	0.00	0.00	19.69
rs2472297	X-24811 levels	GCST90200638	15	74735539	T	C	6349	0.10	0.02	0.00	0.00	24.05
rs145925964	X-24811 levels	GCST90200638	18	2394696	C	A	6349	-0.46	0.10	0.00	0.00	19.80
rs3213415	X-24811 levels	GCST90200638	19	17825546	T	C	6349	-0.51	0.11	0.00	0.00	22.27
rs76801637	X-24811 levels	GCST90200638	19	58277418	A	G	6349	-0.37	0.08	0.00	0.00	21.22

rs144528076	X-24811 levels	GCST90200638	22	48524746	A	G	6349	-0.40	0.09	0.00	0.00	22.04
rs10187912	X-24757 levels	GCST90200639	2	3845211	G	A	6251	-0.08	0.02	0.00	0.00	22.09
rs57119251	X-24757 levels	GCST90200639	2	33226509	C	G	6251	0.25	0.05	0.00	0.00	21.09
rs17033130	X-24757 levels	GCST90200639	2	45182733	A	G	6251	0.15	0.03	0.00	0.00	20.55
rs3087243	X-24757 levels	GCST90200639	2	203874196	A	G	6251	-0.08	0.02	0.00	0.00	19.55
rs1047891	X-24757 levels	GCST90200639	2	210675783	A	C	6251	0.13	0.02	0.00	0.01	42.78
rs17470240	X-24757 levels	GCST90200639	3	143206674	C	G	6251	0.14	0.03	0.00	0.00	23.47
rs73161550	X-24757 levels	GCST90200639	3	164668903	C	T	6251	-0.12	0.03	0.00	0.00	19.76
rs41297405	X-24757 levels	GCST90200639	4	69488555	C	T	6251	0.27	0.05	0.00	0.00	25.60
rs117626851	X-24757 levels	GCST90200639	6	70029736	G	A	6251	-0.21	0.04	0.00	0.00	25.53
rs150226305	X-24757 levels	GCST90200639	6	135900874	C	G	6251	-0.31	0.07	0.00	0.00	20.22
rs2727814	X-24757 levels	GCST90200639	7	36615517	G	A	6251	0.09	0.02	0.00	0.00	20.96
rs1010603	X-24757 levels	GCST90200639	8	21166711	T	C	6251	0.09	0.02	0.00	0.00	21.48
rs75465128	X-24757 levels	GCST90200639	8	79396780	T	A	6251	0.16	0.04	0.00	0.00	21.21
rs16922750	X-24757 levels	GCST90200639	11	32055919	A	T	6251	0.35	0.07	0.00	0.00	25.30
rs10896190	X-24757 levels	GCST90200639	11	67638652	C	T	6251	-0.08	0.02	0.00	0.00	19.66
rs7134586	X-24757 levels	GCST90200639	12	94769357	T	A	6251	0.09	0.02	0.00	0.00	19.70
rs72782472	X-24757 levels	GCST90200639	16	65594992	A	G	6251	-0.17	0.04	0.00	0.00	22.85
rs55761815	X-24757 levels	GCST90200639	18	10267096	C	T	6251	0.19	0.04	0.00	0.00	20.08
rs141184063	X-24757 levels	GCST90200639	19	9021098	G	C	6251	0.32	0.07	0.00	0.00	20.89
rs10407762	X-24757 levels	GCST90200639	19	52784848	T	C	6251	-0.11	0.02	0.00	0.00	20.69
rs3787393	X-24757 levels	GCST90200639	20	56455978	T	C	6251	0.08	0.02	0.00	0.00	19.90
rs1018790	X-24757 levels	GCST90200639	22	32758988	C	T	6251	-0.09	0.02	0.00	0.00	20.05
rs72676123	X-24978 levels	GCST90200640	1	63334833	C	T	5151	-0.29	0.06	0.00	0.00	20.18
rs57356983	X-24978 levels	GCST90200640	2	3106403	A	G	5151	-0.10	0.02	0.00	0.00	23.96
rs7558794	X-24978 levels	GCST90200640	2	176265265	G	T	5151	0.16	0.03	0.00	0.00	22.78
rs148430379	X-24978 levels	GCST90200640	2	216600738	T	C	5151	-0.50	0.10	0.00	0.00	25.23
rs3772298	X-24978 levels	GCST90200640	3	1324709	C	T	5151	-0.11	0.02	0.00	0.00	20.88
rs28634222	X-24978 levels	GCST90200640	4	79831030	C	T	5151	-0.13	0.03	0.00	0.00	19.90
rs16870131	X-24978 levels	GCST90200640	5	2610546	G	A	5151	0.15	0.03	0.00	0.00	19.53
rs80168550	X-24978 levels	GCST90200640	7	7800328	C	A	5151	-0.17	0.04	0.00	0.00	19.74
rs151049116	X-24978 levels	GCST90200640	7	77464877	A	G	5151	-0.39	0.08	0.00	0.00	23.76
rs138436469	X-24978 levels	GCST90200640	8	46157886	C	G	5151	-0.40	0.09	0.00	0.00	20.17
rs10904140	X-24978 levels	GCST90200640	10	3945954	G	T	5151	-0.11	0.02	0.00	0.00	25.11
rs113606324	X-24978 levels	GCST90200640	10	21196591	T	C	5151	-0.27	0.06	0.00	0.00	20.51
rs12356252	X-24978 levels	GCST90200640	10	96708785	G	C	5151	-0.21	0.05	0.00	0.00	19.80
rs603424	X-24978 levels	GCST90200640	10	100315722	A	G	5151	-0.18	0.03	0.00	0.01	47.88
rs117436007	X-24978 levels	GCST90200640	12	114960365	C	G	5151	0.22	0.05	0.00	0.00	21.60
rs117527466	X-24978 levels	GCST90200640	13	108517914	A	G	5151	-0.31	0.06	0.00	0.01	26.44
rs79879001	X-24978 levels	GCST90200640	14	96417489	C	T	5151	0.20	0.04	0.00	0.00	22.36
rs12603982	X-24978 levels	GCST90200640	17	43949205	T	C	5151	-0.09	0.02	0.00	0.00	21.27
rs28533488	X-24978 levels	GCST90200640	18	76598785	T	G	5151	0.09	0.02	0.00	0.00	22.11
rs61769394	X-24970 levels	GCST90200641	1	54940531	G	A	8263	0.15	0.03	0.00	0.00	20.80
rs2025509	X-24970 levels	GCST90200641	1	190984341	A	G	8263	0.09	0.02	0.00	0.00	21.71
rs320485	X-24970 levels	GCST90200641	1	213473223	C	T	8263	0.10	0.02	0.00	0.00	19.72
rs76737878	X-24970 levels	GCST90200641	2	16650218	A	T	8263	-0.24	0.05	0.00	0.00	22.65
rs146747578	X-24970 levels	GCST90200641	2	135987192	C	G	8263	0.34	0.08	0.00	0.00	20.28
rs1914950	X-24970 levels	GCST90200641	2	221636294	G	T	8263	-0.08	0.02	0.00	0.00	22.11
rs116463941	X-24970 levels	GCST90200641	3	146427863	T	C	8263	0.37	0.08	0.00	0.00	20.26
rs113455806	X-24970 levels	GCST90200641	3	179507639	A	C	8263	-0.22	0.05	0.00	0.00	19.66
rs17019576	X-24970 levels	GCST90200641	4	92560484	T	C	8263	0.08	0.02	0.00	0.00	20.47
rs1534582	X-24970 levels	GCST90200641	4	164712813	G	C	8263	-0.08	0.02	0.00	0.00	22.65
rs140947488	X-24970 levels	GCST90200641	6	167182928	T	C	8263	0.36	0.08	0.00	0.00	19.67
rs34474020	X-24970 levels	GCST90200641	7	35314804	C	T	8263	0.11	0.02	0.00	0.00	26.36
rs12676316	X-24970 levels	GCST90200641	8	133784280	T	C	8263	0.10	0.02	0.00	0.00	21.33
rs10984641	X-24970 levels	GCST90200641	9	119687794	C	G	8263	0.12	0.03	0.00	0.00	20.34
rs148482664	X-24970 levels	GCST90200641	10	75102876	T	C	8263	0.11	0.02	0.00	0.00	21.82
rs11194632	X-24970 levels	GCST90200641	10	109407979	T	C	8263	0.11	0.02	0.00	0.00	21.14
rs7941638	X-24970 levels	GCST90200641	11	122719088	T	C	8263	0.07	0.02	0.00	0.00	19.72

rs77796846	X-24970 levels	GCST90200641	12	113070861	T	C	8263	0.29	0.06	0.00	0.00	20.90
rs147206549	X-24970 levels	GCST90200641	13	102056095	T	G	8263	-0.27	0.06	0.00	0.00	21.65
rs35080242	X-24970 levels	GCST90200641	14	26092114	C	T	8263	0.15	0.03	0.00	0.00	20.24
rs112962242	X-24970 levels	GCST90200641	14	100419153	T	C	8263	0.37	0.08	0.00	0.00	20.61
rs2294542	X-24970 levels	GCST90200641	16	1445896	A	G	8263	0.08	0.02	0.00	0.00	23.60
rs1893154	X-24970 levels	GCST90200641	18	905124	G	A	8263	0.08	0.02	0.00	0.00	20.89
rs112048489	X-24970 levels	GCST90200641	18	55370157	T	C	8263	-0.20	0.04	0.00	0.00	21.27
rs1974579	X-24970 levels	GCST90200641	19	2518986	C	T	8263	-0.11	0.02	0.00	0.00	22.35
rs148632492	X-24970 levels	GCST90200641	20	62078366	C	G	8263	0.16	0.04	0.00	0.00	19.60
rs143190420	X-24795 levels	GCST90200642	1	207455728	A	G	4986	-0.42	0.09	0.00	0.00	19.56
rs114181993	X-24795 levels	GCST90200642	2	76462377	G	T	4986	-0.37	0.08	0.00	0.00	23.06
rs62173067	X-24795 levels	GCST90200642	2	143538680	A	G	4986	-0.13	0.03	0.00	0.00	21.58
rs1047891	X-24795 levels	GCST90200642	2	210675783	A	C	4986	0.17	0.02	0.00	0.01	60.17
rs6776877	X-24795 levels	GCST90200642	3	58574316	T	G	4986	-0.10	0.02	0.00	0.00	20.48
rs4241560	X-24795 levels	GCST90200642	3	182213089	A	T	4986	-0.14	0.03	0.00	0.01	27.57
rs144340508	X-24795 levels	GCST90200642	4	22194396	G	T	4986	0.44	0.10	0.00	0.00	19.85
rs141378480	X-24795 levels	GCST90200642	4	168727649	A	T	4986	0.35	0.08	0.00	0.00	20.24
rs6449554	X-24795 levels	GCST90200642	5	61783197	C	T	4986	-0.10	0.02	0.00	0.00	20.38
rs6595708	X-24795 levels	GCST90200642	5	126459533	G	A	4986	0.19	0.04	0.00	0.00	20.89
rs1392169	X-24795 levels	GCST90200642	5	136271400	G	C	4986	-0.13	0.03	0.00	0.00	19.75
rs148089266	X-24795 levels	GCST90200642	6	9082881	T	C	4986	0.65	0.14	0.00	0.00	21.93
rs62394645	X-24795 levels	GCST90200642	6	40647534	G	A	4986	0.16	0.04	0.00	0.00	21.85
rs140906007	X-24795 levels	GCST90200642	6	60701371	T	G	4986	2.55	0.57	0.00	0.00	19.65
rs118110268	X-24795 levels	GCST90200642	6	163915837	G	A	4986	-0.38	0.08	0.00	0.00	21.33
rs12669733	X-24795 levels	GCST90200642	7	8348395	T	C	4986	-0.12	0.03	0.00	0.00	22.28
rs73207142	X-24795 levels	GCST90200642	8	9860749	T	C	4986	-0.15	0.03	0.00	0.00	22.32
rs1112968	X-24795 levels	GCST90200642	9	14606969	T	A	4986	-0.09	0.02	0.00	0.00	20.43
rs12348990	X-24795 levels	GCST90200642	9	128208506	A	G	4986	0.26	0.05	0.00	0.01	26.50
rs72985727	X-24795 levels	GCST90200642	11	99359093	A	G	4986	0.31	0.07	0.00	0.00	21.42
rs2466887	X-24795 levels	GCST90200642	12	22836448	T	C	4986	0.11	0.03	0.00	0.00	19.55
rs10859119	X-24795 levels	GCST90200642	12	91298380	C	T	4986	0.10	0.02	0.00	0.00	20.52
rs12578405	X-24795 levels	GCST90200642	12	106517654	T	C	4986	0.23	0.05	0.00	0.00	20.19
rs73225464	X-24795 levels	GCST90200642	12	124569989	C	G	4986	-0.42	0.09	0.00	0.00	20.27
rs112109197	X-24795 levels	GCST90200642	14	34718909	G	C	4986	1.17	0.26	0.00	0.00	20.78
rs56199711	X-24795 levels	GCST90200642	17	36896477	C	G	4986	0.50	0.11	0.00	0.00	21.65
rs7246717	X-24795 levels	GCST90200642	19	778053	T	G	4986	-0.20	0.05	0.00	0.00	19.64
rs76905342	X-24795 levels	GCST90200642	19	43424191	T	C	4986	0.24	0.05	0.00	0.00	19.62
rs2870097	X-24795 levels	GCST90200642	19	56674378	A	T	4986	0.11	0.02	0.00	0.01	27.14
rs116887270	X-24795 levels	GCST90200642	20	52555213	T	C	4986	0.47	0.10	0.00	0.00	22.01
rs79112096	X-24951 levels	GCST90200643	1	147842806	G	T	8208	0.14	0.03	0.00	0.00	22.29
rs13422172	X-24951 levels	GCST90200643	2	10290590	T	C	8208	0.08	0.02	0.00	0.00	23.88
rs75181344	X-24951 levels	GCST90200643	2	225206673	A	G	8208	0.20	0.04	0.00	0.00	21.19
rs73205324	X-24951 levels	GCST90200643	3	127909231	C	A	8208	0.08	0.02	0.00	0.00	20.11
rs144999454	X-24951 levels	GCST90200643	4	52778160	G	A	8208	0.28	0.06	0.00	0.00	21.42
rs6852154	X-24951 levels	GCST90200643	4	121736832	G	C	8208	-0.10	0.02	0.00	0.00	20.00
rs71644870	X-24951 levels	GCST90200643	4	176294443	T	G	8208	-0.26	0.06	0.00	0.00	22.80
rs150868614	X-24951 levels	GCST90200643	5	171969102	C	T	8208	0.22	0.04	0.00	0.00	23.33
rs9388162	X-24951 levels	GCST90200643	6	122972798	A	G	8208	-0.17	0.04	0.00	0.00	19.84
rs62503675	X-24951 levels	GCST90200643	8	15745186	T	C	8208	0.07	0.02	0.00	0.00	20.71
rs75091059	X-24951 levels	GCST90200643	9	5999836	G	A	8208	0.18	0.04	0.00	0.00	22.05
rs11045856	X-24951 levels	GCST90200643	12	21197755	G	T	8208	-0.09	0.02	0.00	0.00	28.41
rs117263414	X-24951 levels	GCST90200643	12	48803314	T	C	8208	-0.26	0.06	0.00	0.00	19.92
rs11841026	X-24951 levels	GCST90200643	13	20439037	A	G	8208	0.17	0.04	0.00	0.00	20.52
rs117858662	X-24951 levels	GCST90200643	13	77681134	A	T	8208	0.18	0.04	0.00	0.00	19.91
rs35954043	X-24951 levels	GCST90200643	14	102999711	A	G	8208	-0.31	0.06	0.00	0.00	25.55
rs8028600	X-24951 levels	GCST90200643	15	34320516	A	G	8208	-0.09	0.02	0.00	0.00	22.02
rs74614863	X-24951 levels	GCST90200643	15	73998572	A	G	8208	0.25	0.06	0.00	0.00	20.26

rs72773326	X-24951 levels	GCST90200643	16	12526556	T	G	8208	-0.28	0.06	0.00	0.00	19.78
rs145612249	X-24951 levels	GCST90200643	17	74910422	T	G	8208	-0.12	0.03	0.00	0.00	20.30
rs17534385	X-24951 levels	GCST90200643	18	38022689	G	A	8208	0.09	0.02	0.00	0.00	23.56
rs553371471	X-24951 levels	GCST90200643	20	15614649	T	G	8208	0.42	0.09	0.00	0.00	20.51
rs114183437	X-24728 levels	GCST90200644	1	236163899	T	C	8160	-0.14	0.03	0.00	0.00	19.76
rs13397483	X-24728 levels	GCST90200644	2	35907847	C	G	8160	-0.18	0.04	0.00	0.00	22.04
rs62186967	X-24728 levels	GCST90200644	2	175915779	T	C	8160	0.11	0.02	0.00	0.00	24.22
rs7634178	X-24728 levels	GCST90200644	3	129970723	T	C	8160	-0.10	0.02	0.00	0.00	21.26
rs146159243	X-24728 levels	GCST90200644	3	133907210	C	A	8160	0.20	0.04	0.00	0.00	23.58
rs2637692	X-24728 levels	GCST90200644	4	38594983	T	C	8160	0.11	0.03	0.00	0.00	19.55
rs1229984	X-24728 levels	GCST90200644	4	99318162	C	T	8160	0.19	0.04	0.00	0.00	20.04
rs62335813	X-24728 levels	GCST90200644	5	1884063	T	C	8160	-0.08	0.02	0.00	0.00	20.59
rs16890078	X-24728 levels	GCST90200644	5	59661496	C	T	8160	0.13	0.03	0.00	0.00	21.38
rs13176595	X-24728 levels	GCST90200644	5	60558280	A	G	8160	-0.12	0.03	0.00	0.00	20.63
rs143934431	X-24728 levels	GCST90200644	5	109813379	C	T	8160	0.25	0.06	0.00	0.00	19.76
rs76151578	X-24728 levels	GCST90200644	6	15241301	C	T	8160	0.28	0.06	0.00	0.00	22.01
rs76498900	X-24728 levels	GCST90200644	6	48400081	T	C	8160	-0.30	0.07	0.00	0.00	19.77
rs61396909	X-24728 levels	GCST90200644	6	106738732	T	C	8160	0.31	0.07	0.00	0.00	21.35
rs408929	X-24728 levels	GCST90200644	8	23776885	G	A	8160	-0.07	0.02	0.00	0.00	20.50
rs626913	X-24728 levels	GCST90200644	8	60635935	C	A	8160	0.07	0.01	0.00	0.00	20.81
rs117290977	X-24728 levels	GCST90200644	9	108020680	G	A	8160	0.30	0.07	0.00	0.00	20.23
rs10739617	X-24728 levels	GCST90200644	9	122651955	G	A	8160	-0.09	0.02	0.00	0.00	20.86
rs190466443	X-24728 levels	GCST90200644	10	50047702	T	C	8160	0.26	0.06	0.00	0.00	21.48
rs41308661	X-24728 levels	GCST90200644	10	84195376	C	G	8160	-0.19	0.04	0.00	0.00	23.47
rs72829992	X-24728 levels	GCST90200644	10	108987360	C	T	8160	-0.12	0.02	0.00	0.00	24.62
rs118117841	X-24728 levels	GCST90200644	11	58825143	C	T	8160	0.27	0.06	0.00	0.00	22.15
rs73028637	X-24728 levels	GCST90200644	11	132318844	T	C	8160	-0.16	0.04	0.00	0.00	19.78
rs11176444	X-24728 levels	GCST90200644	12	66840871	A	G	8160	0.35	0.07	0.00	0.00	22.23
rs117018419	X-24728 levels	GCST90200644	12	74280435	T	C	8160	-0.15	0.03	0.00	0.00	26.98
rs117831445	X-24728 levels	GCST90200644	13	19349280	C	T	8160	0.13	0.03	0.00	0.00	20.36
rs4570722	X-24728 levels	GCST90200644	13	73255098	T	C	8160	-0.07	0.01	0.00	0.00	20.80
rs2150350	X-24728 levels	GCST90200644	14	20525161	A	C	8160	0.07	0.02	0.00	0.00	21.68
rs117700934	X-24728 levels	GCST90200644	16	57183023	C	T	8160	0.16	0.04	0.00	0.00	20.05
rs6500440	X-24728 levels	GCST90200644	16	89744415	C	T	8160	-0.07	0.02	0.00	0.00	24.07
rs117091791	X-24728 levels	GCST90200644	17	55518923	A	G	8160	0.23	0.05	0.00	0.00	20.14
rs151058508	X-24728 levels	GCST90200644	17	76671648	C	T	8160	-0.19	0.04	0.00	0.00	19.96
rs34837947	X-24728 levels	GCST90200644	19	38216246	A	G	8160	0.24	0.05	0.00	0.00	22.33
rs372026540	X-24565 levels	GCST90200645	1	76634964	T	G	4364	2.21	0.49	0.00	0.00	20.08
rs111328225	X-24565 levels	GCST90200645	1	97566245	G	A	4364	0.27	0.06	0.00	0.00	21.42
rs2592892	X-24565 levels	GCST90200645	1	159675796	G	C	4364	0.12	0.03	0.00	0.00	20.78
rs75825279	X-24565 levels	GCST90200645	1	189568768	G	A	4364	0.21	0.05	0.00	0.00	19.98
rs78525294	X-24565 levels	GCST90200645	1	234637672	G	A	4364	0.45	0.10	0.00	0.00	19.54
rs146521644	X-24565 levels	GCST90200645	2	165749816	T	C	4364	0.46	0.10	0.00	0.00	20.79
rs34384291	X-24565 levels	GCST90200645	3	25980351	T	A	4364	-0.24	0.05	0.00	0.01	26.15
rs16858542	X-24565 levels	GCST90200645	3	146573573	G	A	4364	-0.32	0.07	0.00	0.00	19.98
rs9817608	X-24565 levels	GCST90200645	3	189815403	G	A	4364	0.10	0.02	0.00	0.01	22.89
rs144849991	X-24565 levels	GCST90200645	4	115835575	A	C	4364	0.61	0.12	0.00	0.01	27.79
rs1498016	X-24565 levels	GCST90200645	4	124741814	C	A	4364	-0.10	0.02	0.00	0.01	22.75
rs115601482	X-24565 levels	GCST90200645	5	50477771	C	T	4364	0.27	0.06	0.00	0.01	22.37
rs147414313	X-24565 levels	GCST90200645	5	118596098	G	A	4364	0.40	0.09	0.00	0.00	19.61
rs72801205	X-24565 levels	GCST90200645	5	143036251	C	A	4364	0.23	0.05	0.00	0.00	20.09
rs72837706	X-24565 levels	GCST90200645	6	19907032	C	G	4364	0.19	0.04	0.00	0.01	23.28
rs142526981	X-24565 levels	GCST90200645	6	37029304	A	G	4364	0.63	0.14	0.00	0.00	20.46
rs67181842	X-24565 levels	GCST90200645	6	129211692	T	C	4364	-0.29	0.06	0.00	0.00	21.65

rs73134291	X-24565 levels	GCST90200645	7	67086424	A	G	4364	0.12	0.03	0.00	0.00	20.66
rs113510235	X-24565 levels	GCST90200645	7	113057579	C	T	4364	0.34	0.08	0.00	0.00	20.54
rs146477571	X-24565 levels	GCST90200645	7	134348213	T	C	4364	0.63	0.13	0.00	0.01	21.95
rs117446740	X-24565 levels	GCST90200645	7	143037648	C	G	4364	0.41	0.09	0.00	0.01	22.46
rs75603701	X-24565 levels	GCST90200645	8	32680697	A	C	4364	0.15	0.03	0.00	0.01	23.01
rs76114629	X-24565 levels	GCST90200645	9	32332731	C	G	4364	2.26	0.44	0.00	0.01	26.25
rs145841753	X-24565 levels	GCST90200645	11	2304478	T	C	4364	0.52	0.11	0.00	0.00	21.90
rs11023511	X-24565 levels	GCST90200645	11	15295925	T	C	4364	0.12	0.03	0.00	0.01	22.04
rs56165099	X-24565 levels	GCST90200645	12	21204797	T	C	4364	0.14	0.03	0.00	0.01	30.83
rs145355011	X-24565 levels	GCST90200645	12	107335424	T	C	4364	0.42	0.09	0.00	0.00	20.47
rs1852879	X-24565 levels	GCST90200645	12	128029284	A	C	4364	0.11	0.02	0.00	0.00	20.70
rs77818220	X-24565 levels	GCST90200645	13	19015706	A	G	4364	0.22	0.05	0.00	0.01	21.92
rs58689179	X-24565 levels	GCST90200645	13	94946682	C	T	4364	0.21	0.05	0.00	0.00	21.89
rs75129862	X-24565 levels	GCST90200645	15	45162656	A	G	4364	0.42	0.09	0.00	0.00	19.80
rs117916379	X-24565 levels	GCST90200645	16	26384597	T	G	4364	0.50	0.10	0.00	0.01	26.03
rs151249613	X-24565 levels	GCST90200645	17	9973543	T	C	4364	0.94	0.19	0.00	0.01	24.56
rs17629188	X-24565 levels	GCST90200645	17	35130009	A	G	4364	0.15	0.03	0.00	0.01	24.55
rs62083819	X-24565 levels	GCST90200645	18	2336869	T	C	4364	0.19	0.04	0.00	0.00	20.03
rs190533843	X-24565 levels	GCST90200645	21	44755668	G	A	4364	0.55	0.12	0.00	0.00	21.29
rs80298372	X-24801 levels	GCST90200646	2	12863577	T	A	8059	0.08	0.02	0.00	0.00	20.44
rs780093	X-24801 levels	GCST90200646	2	27519736	C	T	8059	-0.09	0.02	0.00	0.00	31.30
rs111508080	X-24801 levels	GCST90200646	2	45906489	A	G	8059	0.24	0.05	0.00	0.00	20.61
rs62182023	X-24801 levels	GCST90200646	2	180061027	T	C	8059	-0.09	0.02	0.00	0.00	20.62
rs141504352	X-24801 levels	GCST90200646	2	228000346	T	C	8059	0.13	0.03	0.00	0.00	21.40
rs140123529	X-24801 levels	GCST90200646	3	515531	G	A	8059	-0.14	0.03	0.00	0.00	19.98
rs79861717	X-24801 levels	GCST90200646	4	26615562	G	A	8059	-0.15	0.03	0.00	0.00	24.58
rs172168	X-24801 levels	GCST90200646	4	129018620	C	T	8059	-0.08	0.02	0.00	0.00	21.69
rs17543599	X-24801 levels	GCST90200646	4	169013000	T	G	8059	0.09	0.02	0.00	0.00	19.65
rs7381210	X-24801 levels	GCST90200646	5	3538741	C	T	8059	0.07	0.02	0.00	0.00	22.36
rs7736346	X-24801 levels	GCST90200646	5	31775118	T	C	8059	0.09	0.02	0.00	0.00	20.93
rs7705826	X-24801 levels	GCST90200646	5	132396764	G	T	8059	0.13	0.02	0.00	0.00	39.34
rs77010315	X-24801 levels	GCST90200646	5	151343594	A	C	8059	-0.49	0.07	0.00	0.01	49.56
rs7761203	X-24801 levels	GCST90200646	6	119262910	A	G	8059	-0.10	0.02	0.00	0.00	21.69
rs112201728	X-24801 levels	GCST90200646	6	160130454	T	C	8059	0.17	0.03	0.00	0.00	31.11
rs1564348	X-24801 levels	GCST90200646	6	160157828	C	T	8059	0.12	0.02	0.00	0.00	35.05
rs12532047	X-24801 levels	GCST90200646	7	80682746	T	A	8059	0.07	0.02	0.00	0.00	20.14
rs2469355	X-24801 levels	GCST90200646	8	3595346	A	C	8059	-0.11	0.02	0.00	0.00	22.81
rs34286353	X-24801 levels	GCST90200646	8	9193977	T	C	8059	-0.25	0.05	0.00	0.00	20.40
rs117478664	X-24801 levels	GCST90200646	8	87716352	C	T	8059	0.26	0.06	0.00	0.00	20.19
rs10466245	X-24801 levels	GCST90200646	10	45536299	A	G	8059	-0.11	0.02	0.00	0.00	36.85
rs1171617	X-24801 levels	GCST90200646	10	59707424	T	G	8059	0.11	0.02	0.00	0.00	38.46
rs2935715	X-24801 levels	GCST90200646	10	121663252	C	A	8059	-0.15	0.03	0.00	0.00	25.06
rs112453126	X-24801 levels	GCST90200646	11	27031062	A	C	8059	-0.30	0.06	0.00	0.00	23.70
rs142059872	X-24801 levels	GCST90200646	11	27090577	A	G	8059	0.52	0.07	0.00	0.01	59.43
rs77762079	X-24801 levels	GCST90200646	11	27113760	A	C	8059	-0.49	0.04	0.00	0.02	152.54
rs182513938	X-24801 levels	GCST90200646	11	27630909	T	A	8059	-0.50	0.10	0.00	0.00	23.43
rs61934126	X-24801 levels	GCST90200646	12	108631436	G	A	8059	0.44	0.09	0.00	0.00	22.14
rs184374415	X-24801 levels	GCST90200646	12	116240548	C	T	8059	-0.40	0.08	0.00	0.00	23.09
rs12917436	X-24801 levels	GCST90200646	15	31090199	G	C	8059	0.07	0.02	0.00	0.00	20.37
rs72789436	X-24801 levels	GCST90200646	16	75548395	T	C	8059	-0.23	0.05	0.00	0.00	24.89
rs77487500	X-24801 levels	GCST90200646	17	34717860	C	T	8059	-0.21	0.05	0.00	0.00	21.24
rs7248534	X-24801 levels	GCST90200646	19	34588253	T	A	8059	-0.07	0.02	0.00	0.00	20.99
rs41308631	X-24801 levels	GCST90200646	20	18813819	A	T	8059	-0.34	0.07	0.00	0.00	21.01
rs112440664	X-24801 levels	GCST90200646	20	32290250	A	G	8059	-0.30	0.06	0.00	0.00	21.50
rs73206034	X-24801 levels	GCST90200646	21	37744516	A	G	8059	-0.19	0.04	0.00	0.00	24.13
rs11577659	X-24736 levels	GCST90200647	1	84876616	A	G	4846	-0.49	0.11	0.00	0.00	21.23

rs147085338	X-24736 levels	GCST90200647	2	31802570	C	T	4846	0.36	0.08	0.00	0.00	19.61
rs116612229	X-24736 levels	GCST90200647	4	8270650	A	G	4846	-0.48	0.10	0.00	0.01	24.60
rs143782399	X-24736 levels	GCST90200647	4	54656125	C	T	4846	0.29	0.06	0.00	0.00	20.66
rs80093396	X-24736 levels	GCST90200647	4	162163735	A	G	4846	0.12	0.02	0.00	0.00	22.75
rs115200584	X-24736 levels	GCST90200647	6	52702498	T	C	4846	-0.24	0.05	0.00	0.00	21.48
rs62437404	X-24736 levels	GCST90200647	6	74405744	G	A	4846	-0.12	0.03	0.00	0.00	19.74
rs12207201	X-24736 levels	GCST90200647	6	123540670	T	C	4846	-0.16	0.04	0.00	0.00	19.75
rs55672605	X-24736 levels	GCST90200647	7	67362814	G	C	4846	0.15	0.03	0.00	0.00	20.79
rs35573679	X-24736 levels	GCST90200647	7	83660243	A	C	4846	0.16	0.03	0.00	0.00	22.14
rs6465284	X-24736 levels	GCST90200647	7	90732782	G	A	4846	-0.09	0.02	0.00	0.00	22.16
rs113598452	X-24736 levels	GCST90200647	7	101529145	G	A	4846	-0.27	0.05	0.00	0.00	24.15
rs141650302	X-24736 levels	GCST90200647	9	100761512	A	G	4846	0.44	0.10	0.00	0.00	20.15
rs6584194	X-24736 levels	GCST90200647	10	98400642	C	T	4846	0.15	0.02	0.00	0.01	52.92
rs12776137	X-24736 levels	GCST90200647	10	121495542	T	C	4846	0.27	0.06	0.00	0.00	20.59
rs79642799	X-24736 levels	GCST90200647	11	61585180	T	G	4846	0.20	0.04	0.00	0.00	23.07
rs34221959	X-24736 levels	GCST90200647	11	95503012	T	C	4846	-0.19	0.04	0.00	0.00	24.05
rs139048323	X-24736 levels	GCST90200647	11	130597234	T	A	4846	0.57	0.12	0.00	0.00	20.95
rs1796362	X-24736 levels	GCST90200647	12	42479382	G	A	4846	0.11	0.02	0.00	0.00	21.42
rs77268842	X-24736 levels	GCST90200647	12	65731287	T	C	4846	0.28	0.06	0.00	0.00	20.66
rs35617968	X-24736 levels	GCST90200647	14	100321886	A	C	4846	-0.13	0.03	0.00	0.00	21.80
rs9747983	X-24736 levels	GCST90200647	17	39470363	C	T	4846	-0.13	0.03	0.00	0.01	24.88
rs12936359	X-24736 levels	GCST90200647	17	67414345	A	C	4846	0.16	0.04	0.00	0.00	20.49
rs113210713	X-24736 levels	GCST90200647	18	67141682	C	T	4846	-0.36	0.08	0.00	0.00	21.00
rs200399858	X-24736 levels	GCST90200647	19	32851497	T	C	4846	-0.18	0.02	0.00	0.02	79.91
rs8101881	X-24736 levels	GCST90200647	19	32873722	T	C	4846	0.33	0.02	0.00	0.05	271.09
rs7250803	X-24736 levels	GCST90200647	19	46252557	C	T	4846	-0.15	0.03	0.00	0.00	22.84
rs72645247	X-24736 levels	GCST90200647	20	47625950	G	A	4846	0.40	0.08	0.00	0.01	25.60
rs9977179	X-24736 levels	GCST90200647	21	37973035	G	A	4846	-0.11	0.02	0.00	0.00	20.44
rs2838679	X-24736 levels	GCST90200647	21	44771532	C	T	4846	-0.16	0.03	0.00	0.00	21.54
rs73164052	X-24736 levels	GCST90200647	22	32244718	G	A	4846	-0.18	0.04	0.00	0.00	21.12
rs2117587	X-24585 levels	GCST90200648	1	231232660	G	A	8241	-0.08	0.02	0.00	0.00	20.12
rs12612463	X-24585 levels	GCST90200648	2	45142789	T	C	8241	0.07	0.02	0.00	0.00	19.56
rs144752088	X-24585 levels	GCST90200648	4	29510402	C	T	8241	0.24	0.05	0.00	0.00	20.02
rs72622734	X-24585 levels	GCST90200648	4	31496776	C	T	8241	-0.11	0.02	0.00	0.00	22.53
rs114932409	X-24585 levels	GCST90200648	4	77418548	C	T	8241	-0.38	0.08	0.00	0.00	22.91
rs75746290	X-24585 levels	GCST90200648	4	124003152	T	C	8241	-0.26	0.05	0.00	0.00	25.11
rs6854260	X-24585 levels	GCST90200648	4	170071553	T	G	8241	0.14	0.03	0.00	0.00	27.34
rs140501272	X-24585 levels	GCST90200648	7	16373581	A	G	8241	-0.64	0.14	0.00	0.00	20.89
rs187137858	X-24585 levels	GCST90200648	9	30440932	A	G	8241	0.42	0.08	0.00	0.00	25.16
rs2997922	X-24585 levels	GCST90200648	9	128818465	T	C	8241	0.11	0.02	0.00	0.01	44.48
rs10826666	X-24585 levels	GCST90200648	10	29587700	T	C	8241	0.12	0.03	0.00	0.00	20.31
rs142518076	X-24585 levels	GCST90200648	11	4406878	A	G	8241	-0.29	0.06	0.00	0.00	21.25
rs2212970	X-24585 levels	GCST90200648	11	84857635	T	C	8241	-0.07	0.02	0.00	0.00	20.20
rs56259370	X-24585 levels	GCST90200648	16	51741048	G	C	8241	-0.13	0.03	0.00	0.00	20.07
rs78933000	X-24585 levels	GCST90200648	17	43533651	A	G	8241	0.25	0.06	0.00	0.00	19.99
rs2848780	X-24585 levels	GCST90200648	18	41569403	G	A	8241	-0.08	0.02	0.00	0.00	21.38
rs118028026	X-24585 levels	GCST90200648	18	50849706	T	C	8241	0.40	0.08	0.00	0.00	22.50
rs117097376	X-24585 levels	GCST90200648	19	620807	A	G	8241	0.09	0.02	0.00	0.00	19.96
rs646536	X-24585 levels	GCST90200648	19	50311351	C	T	8241	-0.10	0.02	0.00	0.00	19.81
rs12473758	X-24588 levels	GCST90200649	2	36262728	T	A	8239	0.12	0.03	0.00	0.00	20.03
rs17043340	X-24588 levels	GCST90200649	2	114675081	G	A	8239	0.17	0.04	0.00	0.00	23.03
rs72551330	X-24588 levels	GCST90200649	2	233672032	C	T	8239	-0.39	0.06	0.00	0.00	40.12
rs17793284	X-24588 levels	GCST90200649	3	105195193	T	A	8239	0.11	0.02	0.00	0.00	20.74
rs72645715	X-24588 levels	GCST90200649	3	117820961	A	G	8239	-0.21	0.05	0.00	0.00	20.89
rs77903146	X-24588 levels	GCST90200649	3	172700473	C	T	8239	0.21	0.05	0.00	0.00	21.71
rs4686501	X-24588 levels	GCST90200649	3	189158048	G	A	8239	-0.12	0.03	0.00	0.00	21.05
rs112469533	X-24588 levels	GCST90200649	4	87276618	T	G	8239	-0.10	0.02	0.00	0.00	21.89

rs71621873	X-24588 levels	GCST90200649	5	38566275	C	T	8239	0.13	0.03	0.00	0.00	23.58
rs72936966	X-24588 levels	GCST90200649	6	53099107	T	C	8239	-0.24	0.05	0.00	0.00	20.16
rs4946824	X-24588 levels	GCST90200649	6	107211084	C	T	8239	-0.08	0.02	0.00	0.00	24.03
rs6903155	X-24588 levels	GCST90200649	6	119281979	T	C	8239	-0.10	0.02	0.00	0.00	20.83
rs1476536	X-24588 levels	GCST90200649	7	21774864	G	A	8239	0.07	0.02	0.00	0.00	19.81
rs1376353	X-24588 levels	GCST90200649	7	33665271	C	T	8239	-0.07	0.02	0.00	0.00	20.37
rs77448387	X-24588 levels	GCST90200649	7	140539831	A	G	8239	-0.11	0.02	0.00	0.00	22.91
rs4716557	X-24588 levels	GCST90200649	7	155896087	G	T	8239	-0.08	0.02	0.00	0.00	24.42
rs4646243	X-24588 levels	GCST90200649	8	18390099	C	T	8239	-0.10	0.02	0.00	0.00	21.08
rs2575037	X-24588 levels	GCST90200649	8	31349900	C	A	8239	-0.08	0.02	0.00	0.00	21.84
rs13955181	X-24588 levels	GCST90200649	8	124220249	T	C	8239	-0.28	0.06	0.00	0.00	21.30
2												
rs12350147	X-24588 levels	GCST90200649	9	2217178	C	A	8239	0.11	0.02	0.00	0.00	21.42
rs1780180	X-24588 levels	GCST90200649	10	26708996	A	G	8239	-0.11	0.01	0.00	0.01	58.50
rs56050010	X-24588 levels	GCST90200649	10	99833993	G	A	8239	-0.34	0.03	0.00	0.01	124.60
rs12815466	X-24588 levels	GCST90200649	12	20849163	A	T	8239	0.23	0.02	0.00	0.01	120.51
rs11519268	X-24588 levels	GCST90200649	12	21070714	A	G	8239	0.10	0.02	0.00	0.00	32.50
rs7135102	X-24588 levels	GCST90200649	12	62690532	G	A	8239	-0.42	0.09	0.00	0.00	22.39
rs9530423	X-24588 levels	GCST90200649	13	75357847	T	G	8239	0.07	0.02	0.00	0.00	19.52
rs14451225	X-24588 levels	GCST90200649	14	72944822	T	C	8239	-0.42	0.06	0.00	0.01	56.74
9												
rs58231493	X-24588 levels	GCST90200649	14	73565418	T	C	8239	0.24	0.01	0.00	0.03	269.83
rs79589907	X-24588 levels	GCST90200649	14	73630784	C	G	8239	-0.14	0.03	0.00	0.00	19.76
rs80070731	X-24588 levels	GCST90200649	14	96638293	A	T	8239	0.30	0.07	0.00	0.00	19.59
rs7175488	X-24588 levels	GCST90200649	15	33397428	G	A	8239	0.08	0.02	0.00	0.00	21.38
rs11568591	X-24588 levels	GCST90200649	17	50683692	A	G	8239	-0.26	0.03	0.00	0.01	79.06
rs3760920	X-24588 levels	GCST90200649	19	39936651	A	G	8239	-0.14	0.03	0.00	0.00	26.27
rs59703635	X-24588 levels	GCST90200649	19	55498963	T	C	8239	-0.08	0.02	0.00	0.00	19.67
rs10912697	X-25109 levels	GCST90200650	1	171269020	A	G	7477	-0.20	0.02	0.00	0.02	148.78
rs546547	X-25109 levels	GCST90200650	1	241013571	A	G	7477	-0.09	0.02	0.00	0.00	21.02
rs2160387	X-25109 levels	GCST90200650	2	64993776	C	T	7477	-0.08	0.02	0.00	0.00	22.97
rs11681343	X-25109 levels	GCST90200650	2	128899623	T	C	7477	0.11	0.02	0.00	0.00	20.22
rs14805530	X-25109 levels	GCST90200650	2	130274977	A	G	7477	0.19	0.04	0.00	0.00	20.34
8												
rs2119658	X-25109 levels	GCST90200650	2	234765369	G	A	7477	0.08	0.02	0.00	0.00	20.45
rs14067996	X-25109 levels	GCST90200650	3	46747140	C	A	7477	0.29	0.06	0.00	0.00	22.66
4												
rs28385669	X-25109 levels	GCST90200650	3	53845191	G	C	7477	-0.26	0.06	0.00	0.00	19.67
rs6829840	X-25109 levels	GCST90200650	4	19536159	G	A	7477	0.13	0.03	0.00	0.00	21.95
rs4694087	X-25109 levels	GCST90200650	4	71053450	C	G	7477	0.08	0.02	0.00	0.00	19.75
rs11205497	X-25109 levels	GCST90200650	5	6773497	G	A	7477	-0.22	0.05	0.00	0.00	22.19
2												
rs2731879	X-25109 levels	GCST90200650	5	36602722	G	T	7477	-0.11	0.02	0.00	0.00	20.57
rs13204664	X-25109 levels	GCST90200650	6	66154457	G	A	7477	-0.11	0.02	0.00	0.00	20.63
rs11354684	X-25109 levels	GCST90200650	6	145106122	A	G	7477	0.23	0.05	0.00	0.00	20.37
2												
rs6942575	X-25109 levels	GCST90200650	7	135762897	G	A	7477	-0.19	0.04	0.00	0.00	20.56
rs11782416	X-25109 levels	GCST90200650	8	33918375	G	T	7477	0.11	0.02	0.00	0.00	22.29
rs14453337	X-25109 levels	GCST90200650	8	91074801	A	C	7477	0.29	0.06	0.00	0.00	20.85
5												
rs12682880	X-25109 levels	GCST90200650	9	79160366	G	A	7477	0.08	0.02	0.00	0.00	20.54
rs77140465	X-25109 levels	GCST90200650	9	86741988	C	T	7477	-0.15	0.03	0.00	0.00	23.01
rs4837497	X-25109 levels	GCST90200650	9	117691563	T	C	7477	-0.08	0.02	0.00	0.00	20.82
rs648899	X-25109 levels	GCST90200650	10	82188243	A	C	7477	-0.20	0.04	0.00	0.00	25.66
rs4885148	X-25109 levels	GCST90200650	13	74066846	G	A	7477	-0.10	0.02	0.00	0.00	20.44
rs14159677	X-25109 levels	GCST90200650	14	53721374	T	C	7477	0.25	0.06	0.00	0.00	20.01
4												
rs10151745	X-25109 levels	GCST90200650	14	94092541	C	T	7477	-0.07	0.02	0.00	0.00	19.81
rs59948404	X-25109 levels	GCST90200650	15	91997862	G	A	7477	0.10	0.02	0.00	0.00	19.91
rs1424245	X-25109 levels	GCST90200650	16	58729926	A	T	7477	0.10	0.02	0.00	0.01	39.06
rs8087087	X-25109 levels	GCST90200650	18	79255814	A	G	7477	-0.11	0.02	0.00	0.00	24.90
rs10420267	X-25109 levels	GCST90200650	19	47993093	A	G	7477	0.08	0.02	0.00	0.00	20.92
rs6029767	X-25109 levels	GCST90200650	20	41660080	A	G	7477	0.09	0.02	0.00	0.00	21.67
rs1535028	X-25109 levels	GCST90200650	20	60239370	C	T	7477	0.08	0.02	0.00	0.00	20.89
rs28513832	X-24947 levels	GCST90200651	1	203443753	T	C	8002	-0.18	0.04	0.00	0.00	22.55
rs75015765	X-24947 levels	GCST90200651	1	216891540	A	T	8002	-0.31	0.06	0.00	0.00	22.17
rs11147124	X-24947 levels	GCST90200651	2	32609126	T	C	8002	-0.20	0.04	0.00	0.00	23.23
9												
rs34079678	X-24947 levels	GCST90200651	2	70499720	T	C	8002	0.11	0.02	0.00	0.00	20.99
rs4234343	X-24947 levels	GCST90200651	3	29392925	A	G	8002	0.07	0.02	0.00	0.00	20.80
rs74543347	X-24947 levels	GCST90200651	3	64465799	T	C	8002	0.28	0.06	0.00	0.00	19.67
rs73193566	X-24947 levels	GCST90200651	3	192365186	A	C	8002	-0.38	0.08	0.00	0.00	19.71
rs2342307	X-24947 levels	GCST90200651	3	196215616	G	A	8002	-0.11	0.02	0.00	0.01	43.61
rs1996598	X-24947 levels	GCST90200651	4	68276152	T	C	8002	0.10	0.02	0.00	0.00	33.25

rs9884390	X-24947 levels	GCST90200651	4	68507689	C	T	8002	-0.59	0.02	0.00	0.12	#####
rs72651926	X-24947 levels	GCST90200651	4	68736982	A	G	8002	-0.25	0.02	0.00	0.02	150.10
rs78528502	X-24947 levels	GCST90200651	4	96171292	T	C	8002	-0.19	0.04	0.00	0.00	29.25
rs147584689	X-24947 levels	GCST90200651	5	72857247	A	G	8002	-0.30	0.07	0.00	0.00	19.51
rs6867115	X-24947 levels	GCST90200651	5	114379140	C	T	8002	0.28	0.06	0.00	0.00	20.13
rs112391889	X-24947 levels	GCST90200651	5	170658323	A	G	8002	0.25	0.05	0.00	0.00	20.98
rs6456703	X-24947 levels	GCST90200651	6	25825891	T	C	8002	0.13	0.02	0.00	0.01	49.99
rs148982377	X-24947 levels	GCST90200651	7	99477415	C	T	8002	-0.47	0.04	0.00	0.02	122.19
rs78452056	X-24947 levels	GCST90200651	8	72339794	T	G	8002	-0.27	0.06	0.00	0.00	20.58
rs74910762	X-24947 levels	GCST90200651	8	80197190	A	C	8002	-0.15	0.03	0.00	0.00	20.03
rs56028148	X-24947 levels	GCST90200651	10	95050911	T	C	8002	0.20	0.02	0.00	0.01	71.40
rs7941822	X-24947 levels	GCST90200651	11	132544691	G	A	8002	0.07	0.02	0.00	0.00	23.41
rs11494550	X-24947 levels	GCST90200651	12	20852018	C	T	8002	0.10	0.02	0.00	0.00	22.44
rs2270483	X-24947 levels	GCST90200651	12	62694235	G	C	8002	-0.11	0.02	0.00	0.00	19.59
rs9507130	X-24947 levels	GCST90200651	13	23645821	A	G	8002	0.07	0.02	0.00	0.00	20.79
rs139653061	X-24947 levels	GCST90200651	14	82215174	G	A	8002	-0.21	0.05	0.00	0.00	21.01
rs28446229	X-24947 levels	GCST90200651	16	26289172	A	T	8002	0.09	0.02	0.00	0.00	25.47
rs7228052	X-24947 levels	GCST90200651	18	48019853	G	A	8002	0.12	0.03	0.00	0.00	19.85
rs62129968	X-24947 levels	GCST90200651	19	47880285	A	C	8002	-0.19	0.02	0.00	0.01	82.57
rs370442513	X-24949 levels	GCST90200652	1	5216718	C	T	7174	0.84	0.18	0.00	0.00	22.60
rs1126742	X-24949 levels	GCST90200652	1	46932824	G	A	7174	0.34	0.02	0.00	0.03	208.32
rs17103464	X-24949 levels	GCST90200652	1	47561947	A	G	7174	0.22	0.04	0.00	0.00	25.06
rs1163549	X-24949 levels	GCST90200652	1	119792730	T	C	7174	-0.09	0.02	0.00	0.00	26.69
rs142437637	X-24949 levels	GCST90200652	1	204776115	C	T	7174	-0.63	0.12	0.00	0.00	26.43
rs62175532	X-24949 levels	GCST90200652	2	217534555	A	G	7174	0.10	0.02	0.00	0.00	19.96
rs2087265	X-24949 levels	GCST90200652	3	87196355	T	C	7174	-0.08	0.02	0.00	0.00	21.89
rs2971207	X-24949 levels	GCST90200652	3	112462611	C	T	7174	0.09	0.02	0.00	0.00	21.77
rs9942210	X-24949 levels	GCST90200652	4	110435376	T	C	7174	-0.11	0.02	0.00	0.00	22.30
rs1177442	X-24949 levels	GCST90200652	6	25808841	G	A	7174	0.18	0.02	0.00	0.02	121.15
rs58551900	X-24949 levels	GCST90200652	6	154355311	A	G	7174	-0.23	0.05	0.00	0.00	20.90
rs1144629	X-24949 levels	GCST90200652	7	16722400	T	C	7174	0.08	0.02	0.00	0.00	21.10
rs9407747	X-24949 levels	GCST90200652	9	16308276	G	T	7174	0.08	0.02	0.00	0.00	23.10
rs143443772	X-24949 levels	GCST90200652	10	45598965	A	C	7174	0.46	0.10	0.00	0.00	21.20
rs11224286	X-24949 levels	GCST90200652	11	100567508	G	A	7174	-0.10	0.02	0.00	0.00	22.38
rs10891638	X-24949 levels	GCST90200652	11	114259304	A	G	7174	-0.12	0.02	0.00	0.00	26.48
rs7969341	X-24949 levels	GCST90200652	12	21232670	G	A	7174	0.23	0.02	0.00	0.02	115.10
rs151244831	X-24949 levels	GCST90200652	12	129700503	G	A	7174	0.36	0.07	0.00	0.00	23.74
rs73166318	X-24949 levels	GCST90200652	13	24165991	A	G	7174	0.46	0.09	0.00	0.00	23.92
rs9514554	X-24949 levels	GCST90200652	13	106595906	G	C	7174	0.25	0.06	0.00	0.00	19.94
rs77106385	X-24949 levels	GCST90200652	16	75776586	C	A	7174	-0.10	0.02	0.00	0.00	20.02
rs4796493	X-24949 levels	GCST90200652	17	6437947	C	T	7174	0.21	0.04	0.00	0.00	22.13
rs116988701	X-24949 levels	GCST90200652	18	72321139	C	G	7174	-0.31	0.07	0.00	0.00	21.61
rs242044	X-24812 levels	GCST90200653	1	4727059	G	A	7878	-0.08	0.02	0.00	0.00	22.92
rs77952446	X-24812 levels	GCST90200653	1	24622355	A	G	7878	0.19	0.04	0.00	0.00	22.23
rs142790978	X-24812 levels	GCST90200653	1	41353256	T	C	7878	0.20	0.04	0.00	0.00	21.74
rs2042461	X-24812 levels	GCST90200653	2	41150597	C	T	7878	0.08	0.02	0.00	0.00	21.25
rs77840378	X-24812 levels	GCST90200653	2	156691587	A	T	7878	-0.24	0.05	0.00	0.00	20.39
rs1047891	X-24812 levels	GCST90200653	2	210675783	A	C	7878	-0.09	0.02	0.00	0.00	29.41
rs13026148	X-24812 levels	GCST90200653	2	214649844	A	G	7878	-0.07	0.02	0.00	0.00	19.55
rs164346	X-24812 levels	GCST90200653	3	140587858	T	G	7878	-0.11	0.02	0.00	0.00	20.99
rs7697566	X-24812 levels	GCST90200653	4	54611247	G	A	7878	0.08	0.02	0.00	0.00	20.71
rs79165611	X-24812 levels	GCST90200653	4	89658023	A	G	7878	-0.28	0.06	0.00	0.00	19.55
rs148319788	X-24812 levels	GCST90200653	4	147770842	G	A	7878	-0.38	0.09	0.00	0.00	19.89
rs148294363	X-24812 levels	GCST90200653	5	161500164	C	G	7878	-0.24	0.05	0.00	0.00	20.00
rs147775028	X-24812 levels	GCST90200653	5	180305308	G	A	7878	-0.38	0.08	0.00	0.00	21.85
rs371849356	X-24812 levels	GCST90200653	6	57355350	G	A	7878	-0.30	0.07	0.00	0.00	20.20
rs200381697	X-24812 levels	GCST90200653	6	104295344	A	T	7878	-0.19	0.04	0.00	0.00	20.63
rs62480512	X-24812 levels	GCST90200653	8	2064140	T	C	7878	-0.07	0.02	0.00	0.00	19.67
rs10087847	X-24812 levels	GCST90200653	8	63566666	G	A	7878	0.26	0.06	0.00	0.00	21.14

rs13281211	X-24812 levels	GCST90200653	8	137034443	A	T	7878	-0.28	0.06	0.00	0.00	19.88
rs1171617	X-24812 levels	GCST90200653	10	59707424	T	G	7878	0.12	0.02	0.00	0.01	40.13
rs1249585	X-24812 levels	GCST90200653	11	68996989	C	T	7878	-0.08	0.02	0.00	0.00	20.08
rs72953980	X-24812 levels	GCST90200653	11	85531911	A	C	7878	-0.25	0.06	0.00	0.00	20.53
rs16914924	X-24812 levels	GCST90200653	12	18992696	A	G	7878	0.34	0.07	0.00	0.00	20.56
rs12367598	X-24812 levels	GCST90200653	12	29885483	T	C	7878	-0.22	0.05	0.00	0.00	19.58
rs280357	X-24812 levels	GCST90200653	12	41018334	T	C	7878	-0.23	0.05	0.00	0.00	20.50
rs2114276	X-24812 levels	GCST90200653	12	106599731	A	C	7878	0.11	0.02	0.00	0.00	22.08
rs118072350	X-24812 levels	GCST90200653	13	94270638	G	A	7878	0.38	0.08	0.00	0.00	21.62
rs2333536	X-24812 levels	GCST90200653	14	29094700	T	C	7878	-0.13	0.03	0.00	0.00	19.55
rs57387976	X-24812 levels	GCST90200653	14	40617628	T	C	7878	-0.21	0.04	0.00	0.00	21.52
rs8045855	X-24812 levels	GCST90200653	16	56966784	A	T	7878	0.10	0.02	0.00	0.00	22.59
rs72843534	X-24812 levels	GCST90200653	17	60322371	G	T	7878	0.26	0.06	0.00	0.00	20.23
rs144971952	X-24812 levels	GCST90200653	18	12474394	C	T	7878	0.56	0.11	0.00	0.00	23.81
rs71356446	X-24812 levels	GCST90200653	18	44212772	G	A	7878	-0.20	0.04	0.00	0.00	20.67
rs138893433	X-24812 levels	GCST90200653	20	46476675	C	A	7878	0.47	0.09	0.00	0.00	25.50
rs56345620	X-24812 levels	GCST90200653	22	20023296	C	T	7878	-0.09	0.02	0.00	0.00	23.96
rs75082737	X-24812 levels	GCST90200653	22	39688669	T	C	7878	0.24	0.05	0.00	0.00	20.67
rs150931418	X-24812 levels	GCST90200653	22	42952472	G	C	7878	0.37	0.08	0.00	0.00	23.55
rs116840658	X-25217 levels	GCST90200654	1	84419774	C	T	4098	-0.37	0.08	0.00	0.00	19.58
rs687059	X-25217 levels	GCST90200654	1	89280334	G	A	4098	0.18	0.03	0.00	0.01	25.21
rs2770319	X-25217 levels	GCST90200654	2	47099996	G	A	4098	-0.18	0.04	0.00	0.01	23.64
rs9838187	X-25217 levels	GCST90200654	3	7648495	G	A	4098	-0.25	0.06	0.00	0.01	20.84
rs7651439	X-25217 levels	GCST90200654	3	192851071	A	G	4098	-0.10	0.02	0.00	0.01	22.14
rs572114	X-25217 levels	GCST90200654	4	170125350	T	C	4098	-0.10	0.02	0.00	0.00	19.85
rs56137600	X-25217 levels	GCST90200654	4	181010240	T	C	4098	-0.10	0.02	0.00	0.01	21.10
rs17827456	X-25217 levels	GCST90200654	5	65451204	C	T	4098	0.10	0.02	0.00	0.00	19.74
rs79976360	X-25217 levels	GCST90200654	5	168208319	G	A	4098	0.33	0.07	0.00	0.01	24.41
rs117960075	X-25217 levels	GCST90200654	7	13299241	G	T	4098	0.21	0.05	0.00	0.00	19.86
rs10821702	X-25217 levels	GCST90200654	10	60204651	T	C	4098	-0.10	0.02	0.00	0.01	21.16
rs73371153	X-25217 levels	GCST90200654	18	3076587	C	T	4098	0.29	0.06	0.00	0.01	21.50
rs6103589	X-25217 levels	GCST90200654	20	44060989	C	T	4098	0.23	0.05	0.00	0.01	22.69
rs139066	X-25217 levels	GCST90200654	22	40504837	T	C	4098	-0.36	0.07	0.00	0.01	24.03
rs191910664	X-25828 levels	GCST90200655	2	79554218	A	T	8156	-0.23	0.05	0.00	0.00	20.37
rs72831087	X-25828 levels	GCST90200655	2	108313323	A	G	8156	-0.27	0.06	0.00	0.00	20.26
rs115059604	X-25828 levels	GCST90200655	3	32772651	T	C	8156	-0.25	0.06	0.00	0.00	20.03
rs115434717	X-25828 levels	GCST90200655	3	94478896	G	A	8156	-0.31	0.06	0.00	0.00	22.52
rs3792308	X-25828 levels	GCST90200655	3	184169431	A	G	8156	0.08	0.02	0.00	0.00	23.00
rs74452003	X-25828 levels	GCST90200655	4	174690569	A	G	8156	-0.10	0.02	0.00	0.00	22.20
rs78499830	X-25828 levels	GCST90200655	4	176238523	C	G	8156	-0.42	0.10	0.00	0.00	19.51
rs73224314	X-25828 levels	GCST90200655	7	122083472	G	A	8156	-0.34	0.08	0.00	0.00	19.94
rs6961463	X-25828 levels	GCST90200655	7	155467442	T	G	8156	0.09	0.02	0.00	0.00	20.12
rs11814525	X-25828 levels	GCST90200655	10	104426226	A	G	8156	-0.09	0.02	0.00	0.00	20.11
rs111725591	X-25828 levels	GCST90200655	12	40663110	T	G	8156	0.25	0.05	0.00	0.00	22.03
rs1927658	X-25828 levels	GCST90200655	13	109459403	C	G	8156	0.07	0.02	0.00	0.00	19.67
rs80342019	X-25828 levels	GCST90200655	15	59353054	C	A	8156	-0.32	0.07	0.00	0.00	21.15
rs7167722	X-25828 levels	GCST90200655	15	63240979	T	C	8156	-0.19	0.04	0.00	0.00	20.39
rs9950861	X-25828 levels	GCST90200655	18	8930415	G	A	8156	-0.09	0.02	0.00	0.00	20.25
rs12720357	X-25828 levels	GCST90200655	19	10355556	T	C	8156	0.27	0.06	0.00	0.00	19.74
rs140222780	X-25828 levels	GCST90200655	21	19439663	A	G	8156	-0.16	0.04	0.00	0.00	19.69
rs115864388	X-25371 levels	GCST90200656	2	20136450	A	G	8205	0.31	0.06	0.00	0.00	23.34
rs62151564	X-25371 levels	GCST90200656	2	73388321	G	A	8205	-0.11	0.02	0.00	0.00	27.39
rs72551330	X-25371 levels	GCST90200656	2	233672032	C	T	8205	0.32	0.06	0.00	0.00	26.37
rs7638793	X-25371 levels	GCST90200656	3	58532365	C	T	8205	-0.15	0.03	0.00	0.00	29.26
rs7654754	X-25371 levels	GCST90200656	4	76488642	A	G	8205	0.09	0.02	0.00	0.00	32.60
rs2602863	X-25371 levels	GCST90200656	4	99113186	G	A	8205	0.08	0.02	0.00	0.00	21.52
rs7664517	X-25371 levels	GCST90200656	4	111608873	C	G	8205	0.08	0.02	0.00	0.00	23.76
rs13150316	X-25371 levels	GCST90200656	4	114454459	T	C	8205	0.07	0.02	0.00	0.00	20.26
rs907320	X-25371 levels	GCST90200656	4	139765491	C	T	8205	-0.08	0.02	0.00	0.00	19.74
rs116495132	X-25371 levels	GCST90200656	4	170646563	G	A	8205	0.20	0.04	0.00	0.00	21.54
rs1165196	X-25371 levels	GCST90200656	6	25812922	A	G	8205	-0.25	0.02	0.00	0.03	264.66

rs145243236	X-25371 levels	GCST90200656	7	34020741	G	C	8205	-0.37	0.08	0.00	0.00	19.82
rs6981750	X-25371 levels	GCST90200656	8	8394429	T	C	8205	-0.07	0.02	0.00	0.00	19.70
rs75839496	X-25371 levels	GCST90200656	8	83973799	T	C	8205	-0.27	0.06	0.00	0.00	21.71
rs1926202	X-25371 levels	GCST90200656	10	89028200	C	T	8205	-0.07	0.02	0.00	0.00	22.41
rs1536826	X-25371 levels	GCST90200656	10	133543735	C	A	8205	0.15	0.02	0.00	0.01	57.13
rs115376765	X-25371 levels	GCST90200656	10	133579913	T	C	8205	0.44	0.05	0.00	0.01	86.33
rs8008516	X-25371 levels	GCST90200656	14	73812866	G	T	8205	0.12	0.02	0.00	0.00	26.82
rs71401346	X-25371 levels	GCST90200656	15	97724701	T	C	8205	0.38	0.08	0.00	0.00	20.15
rs145429833	X-25371 levels	GCST90200656	17	62709397	A	C	8205	-0.30	0.07	0.00	0.00	19.73
rs8094407	X-25371 levels	GCST90200656	18	27366625	G	A	8205	0.10	0.02	0.00	0.00	21.22
rs11660407	X-25371 levels	GCST90200656	18	38224367	C	A	8205	-0.19	0.04	0.00	0.00	20.18
rs117092170	X-25371 levels	GCST90200656	18	69202052	G	A	8205	0.43	0.10	0.00	0.00	20.61
rs6510838	X-25371 levels	GCST90200656	19	5090364	C	T	8205	0.20	0.04	0.00	0.00	22.56
rs11667953	X-25371 levels	GCST90200656	19	53711836	A	T	8205	0.07	0.02	0.00	0.00	21.45
rs148968625	X-25371 levels	GCST90200656	20	11560457	A	G	8205	0.31	0.06	0.00	0.00	24.86
rs79061400	X-25371 levels	GCST90200656	20	57165089	T	C	8205	0.24	0.05	0.00	0.00	21.19
rs149012281	X-25371 levels	GCST90200656	21	25258312	C	A	8205	0.28	0.06	0.00	0.00	21.87
rs4822187	X-25371 levels	GCST90200656	22	42704573	A	G	8205	-0.08	0.02	0.00	0.00	23.19
rs1459802	X-25419 levels	GCST90200657	1	71777559	G	A	7994	0.14	0.03	0.00	0.00	20.93
rs141201950	X-25419 levels	GCST90200657	1	74088317	G	A	7994	0.34	0.07	0.00	0.00	21.34
rs115045185	X-25419 levels	GCST90200657	1	177997145	T	C	7994	0.26	0.06	0.00	0.00	21.24
rs72774284	X-25419 levels	GCST90200657	2	5511915	A	T	7994	0.18	0.04	0.00	0.00	23.63
rs11124510	X-25419 levels	GCST90200657	2	36353587	G	A	7994	-0.11	0.02	0.00	0.00	21.30
rs4290670	X-25419 levels	GCST90200657	2	110785910	T	C	7994	-0.08	0.02	0.00	0.00	22.23
rs66501487	X-25419 levels	GCST90200657	3	62394642	G	C	7994	-0.08	0.02	0.00	0.00	21.08
rs145974115	X-25419 levels	GCST90200657	3	158533944	C	G	7994	-0.31	0.07	0.00	0.00	20.47
rs35196530	X-25419 levels	GCST90200657	4	118977247	G	A	7994	-0.26	0.06	0.00	0.00	19.73
rs111764866	X-25419 levels	GCST90200657	4	166157763	T	C	7994	0.23	0.05	0.00	0.00	23.19
rs146575596	X-25419 levels	GCST90200657	4	167064654	T	C	7994	-0.32	0.06	0.00	0.00	25.77
rs138739109	X-25419 levels	GCST90200657	4	189575014	T	C	7994	-0.25	0.06	0.00	0.00	19.78
rs6877875	X-25419 levels	GCST90200657	5	81709523	C	T	7994	-0.08	0.02	0.00	0.00	20.07
rs188631536	X-25419 levels	GCST90200657	5	119606306	T	C	7994	0.26	0.06	0.00	0.00	19.94
rs145681839	X-25419 levels	GCST90200657	5	178077999	A	G	7994	-0.20	0.04	0.00	0.00	21.28
rs139647950	X-25419 levels	GCST90200657	7	107800240	C	A	7994	0.46	0.10	0.00	0.00	20.09
rs75923115	X-25419 levels	GCST90200657	7	154242210	T	C	7994	-0.41	0.09	0.00	0.00	19.77
rs17756731	X-25419 levels	GCST90200657	8	1899941	A	G	7994	0.18	0.04	0.00	0.00	22.38
rs7829124	X-25419 levels	GCST90200657	8	31651978	C	T	7994	0.10	0.02	0.00	0.00	26.18
rs560932	X-25419 levels	GCST90200657	9	125644471	T	C	7994	0.18	0.04	0.00	0.00	21.28
rs11019578	X-25419 levels	GCST90200657	11	91616271	G	A	7994	0.07	0.02	0.00	0.00	20.44
rs11062102	X-25419 levels	GCST90200657	12	239619	C	T	7994	0.14	0.02	0.00	0.01	76.54
rs74405314	X-25419 levels	GCST90200657	12	40879435	C	T	7994	-0.23	0.05	0.00	0.00	21.10
rs9546333	X-25419 levels	GCST90200657	13	83234452	G	A	7994	0.07	0.02	0.00	0.00	19.62
rs79710822	X-25419 levels	GCST90200657	15	100952591	A	C	7994	0.17	0.04	0.00	0.00	19.75
rs79327793	X-25419 levels	GCST90200657	18	7223195	G	C	7994	-0.36	0.08	0.00	0.00	20.17
rs2828481	X-25419 levels	GCST90200657	21	23735223	G	A	7994	0.07	0.02	0.00	0.00	21.92
rs181406	X-25419 levels	GCST90200657	22	17750759	C	G	7994	0.07	0.02	0.00	0.00	19.64
rs55680595	X-25265 levels	GCST90200658	1	51986809	T	G	7916	-0.17	0.04	0.00	0.00	21.43
rs61802563	X-25265 levels	GCST90200658	1	168575756	T	G	7916	0.12	0.03	0.00	0.00	19.90
rs6715448	X-25265 levels	GCST90200658	2	81867442	C	T	7916	0.08	0.02	0.00	0.00	20.78
rs185287600	X-25265 levels	GCST90200658	2	129086975	G	A	7916	0.31	0.07	0.00	0.00	20.94
rs16854466	X-25265 levels	GCST90200658	2	215587531	A	G	7916	-0.30	0.06	0.00	0.00	24.82
rs1516319	X-25265 levels	GCST90200658	3	30367	T	C	7916	0.34	0.07	0.00	0.00	20.87
rs7640215	X-25265 levels	GCST90200658	3	8609135	C	T	7916	-0.08	0.02	0.00	0.00	21.26
rs4030335	X-25265 levels	GCST90200658	3	198072067	G	A	7916	-0.07	0.02	0.00	0.00	21.04
rs192584858	X-25265 levels	GCST90200658	5	129804160	C	T	7916	0.42	0.08	0.00	0.00	25.78
rs73030229	X-25265 levels	GCST90200658	6	165736283	A	G	7916	0.30	0.07	0.00	0.00	20.52
rs73217772	X-25265 levels	GCST90200658	7	123162257	C	T	7916	-0.09	0.02	0.00	0.00	23.93

rs66826887	X-25265 levels	GCST90200658	8	22726306	C	T	7916	0.08	0.02	0.00	0.00	19.83
rs10091622	X-25265 levels	GCST90200658	8	101588131	A	G	7916	-0.21	0.05	0.00	0.00	20.64
rs117391602	X-25265 levels	GCST90200658	8	142182514	A	G	7916	-0.31	0.06	0.00	0.00	28.59
rs648746	X-25265 levels	GCST90200658	10	62819222	T	G	7916	0.08	0.02	0.00	0.00	25.88
rs2764376	X-25265 levels	GCST90200658	10	94369341	G	A	7916	0.08	0.02	0.00	0.00	20.75
rs117585200	X-25265 levels	GCST90200658	10	118272725	G	A	7916	0.24	0.05	0.00	0.00	19.90
rs4919744	X-25265 levels	GCST90200658	12	52912178	A	G	7916	-0.12	0.03	0.00	0.00	20.39
rs12829549	X-25265 levels	GCST90200658	12	66479066	G	A	7916	0.15	0.03	0.00	0.00	19.99
rs150097069	X-25265 levels	GCST90200658	12	86305604	G	A	7916	-0.21	0.05	0.00	0.00	20.04
rs849346	X-25265 levels	GCST90200658	12	125520473	G	A	7916	-0.08	0.02	0.00	0.00	21.91
rs4238411	X-25265 levels	GCST90200658	15	67787086	T	A	7916	0.08	0.02	0.00	0.00	21.75
rs117049489	X-25265 levels	GCST90200658	15	96325875	T	C	7916	-0.18	0.04	0.00	0.00	23.27
rs138044297	X-25265 levels	GCST90200658	17	30685470	A	G	7916	-0.31	0.06	0.00	0.00	23.77
rs149251765	X-25265 levels	GCST90200658	19	9472876	T	C	7916	1.45	0.31	0.00	0.00	21.32
rs117089276	X-25265 levels	GCST90200658	19	30112380	T	C	7916	-0.32	0.07	0.00	0.00	21.53
rs929071	X-25265 levels	GCST90200658	20	42350790	T	C	7916	-0.08	0.02	0.00	0.00	19.99
rs9616484	X-25265 levels	GCST90200658	22	49184143	T	C	7916	0.07	0.02	0.00	0.00	20.20
rs6677468	X-25172 levels	GCST90200659	1	179586230	T	C	8117	-0.08	0.02	0.00	0.00	19.90
rs34116096	X-25172 levels	GCST90200659	2	125808959	A	G	8117	-0.09	0.02	0.00	0.00	19.78
rs77788512	X-25172 levels	GCST90200659	2	141701025	A	G	8117	-0.21	0.05	0.00	0.00	21.14
rs6770665	X-25172 levels	GCST90200659	3	2083541	G	A	8117	-0.08	0.02	0.00	0.00	20.06
rs144412358	X-25172 levels	GCST90200659	3	43934536	A	C	8117	-0.24	0.06	0.00	0.00	19.59
rs67035712	X-25172 levels	GCST90200659	3	58242207	C	T	8117	-0.09	0.02	0.00	0.00	20.50
rs13112105	X-25172 levels	GCST90200659	4	83875329	C	T	8117	0.08	0.02	0.00	0.00	23.66
rs80021750	X-25172 levels	GCST90200659	4	108644394	T	C	8117	-0.56	0.12	0.00	0.00	21.03
rs1816392	X-25172 levels	GCST90200659	5	57851849	A	G	8117	-0.17	0.04	0.00	0.00	20.44
rs191716213	X-25172 levels	GCST90200659	5	72317770	T	C	8117	-0.40	0.09	0.00	0.00	21.53
rs10514134	X-25172 levels	GCST90200659	5	78023623	A	T	8117	-0.11	0.02	0.00	0.00	20.96
rs114997141	X-25172 levels	GCST90200659	5	90334282	A	G	8117	-0.26	0.06	0.00	0.00	20.01
rs76137905	X-25172 levels	GCST90200659	6	9946882	A	G	8117	-0.10	0.02	0.00	0.00	20.73
rs6911059	X-25172 levels	GCST90200659	6	68445041	A	G	8117	0.10	0.02	0.00	0.00	26.45
rs11758857	X-25172 levels	GCST90200659	6	117546172	C	T	8117	-0.18	0.04	0.00	0.00	20.76
rs55832343	X-25172 levels	GCST90200659	8	102700003	T	C	8117	-0.10	0.02	0.00	0.00	19.96
rs11998397	X-25172 levels	GCST90200659	8	140325622	G	C	8117	-0.13	0.03	0.00	0.00	20.55
rs56335583	X-25172 levels	GCST90200659	14	61334328	T	C	8117	0.15	0.03	0.00	0.00	21.47
rs11848661	X-25172 levels	GCST90200659	14	81731737	A	G	8117	0.08	0.02	0.00	0.00	20.55
rs16960526	X-25172 levels	GCST90200659	15	35156222	G	A	8117	-0.18	0.04	0.00	0.00	20.84
rs17589523	X-25172 levels	GCST90200659	15	85962059	A	C	8117	0.08	0.02	0.00	0.00	20.99
rs175368	X-25172 levels	GCST90200659	16	74157541	A	G	8117	0.08	0.02	0.00	0.00	20.43
rs117790891	X-25172 levels	GCST90200659	17	78472013	A	G	8117	-0.27	0.06	0.00	0.00	23.61
rs178013	X-25172 levels	GCST90200659	18	22527559	C	G	8117	-0.07	0.02	0.00	0.00	20.34
rs9967586	X-25172 levels	GCST90200659	18	64598960	T	C	8117	-0.14	0.03	0.00	0.00	20.45
rs4075883	X-25172 levels	GCST90200659	20	23881419	T	C	8117	-0.08	0.02	0.00	0.00	21.97
rs147531999	X-25957 levels	GCST90200660	1	60675734	C	T	7335	-0.46	0.10	0.00	0.00	23.30
rs116766811	X-25957 levels	GCST90200660	1	67847781	G	A	7335	0.35	0.07	0.00	0.00	22.16
rs11807162	X-25957 levels	GCST90200660	1	243291378	A	G	7335	0.12	0.03	0.00	0.00	19.77
rs6711653	X-25957 levels	GCST90200660	2	10942065	A	G	7335	-0.10	0.02	0.00	0.00	19.97
rs72779326	X-25957 levels	GCST90200660	2	33874579	T	A	7335	0.14	0.03	0.00	0.00	23.72
rs115593737	X-25957 levels	GCST90200660	2	125353861	C	T	7335	0.24	0.05	0.00	0.00	19.98
rs56032998	X-25957 levels	GCST90200660	2	213588046	A	C	7335	0.27	0.06	0.00	0.00	20.76
rs148119793	X-25957 levels	GCST90200660	5	19022932	T	C	7335	0.24	0.05	0.00	0.00	20.19
rs7734548	X-25957 levels	GCST90200660	5	71891574	G	T	7335	0.17	0.04	0.00	0.00	19.68
rs10040302	X-25957 levels	GCST90200660	5	84977017	A	C	7335	-0.21	0.05	0.00	0.00	20.13
rs412655	X-25957 levels	GCST90200660	5	125951235	G	T	7335	0.08	0.02	0.00	0.00	21.25
rs138090831	X-25957 levels	GCST90200660	5	178001374	T	G	7335	0.28	0.06	0.00	0.00	20.51
rs720475	X-25957 levels	GCST90200660	7	144377836	A	G	7335	0.10	0.02	0.00	0.00	26.19
rs13223379	X-25957 levels	GCST90200660	7	156993018	A	G	7335	-0.08	0.02	0.00	0.00	19.80
rs10118407	X-25957 levels	GCST90200660	9	71546627	T	A	7335	-0.15	0.03	0.00	0.00	26.46

rs12554289	X-25957 levels	GCST90200660	9	130538133	G	A	7335	-0.19	0.04	0.00	0.00	24.37
rs4316481	X-25957 levels	GCST90200660	11	36691033	T	C	7335	0.08	0.02	0.00	0.00	20.65
rs10850282	X-25957 levels	GCST90200660	12	114146480	C	G	7335	-0.09	0.02	0.00	0.00	21.79
rs34690813	X-25957 levels	GCST90200660	13	89791880	G	A	7335	0.21	0.05	0.00	0.00	20.10
rs62093218	X-25957 levels	GCST90200660	18	10318236	T	G	7335	-0.19	0.04	0.00	0.00	22.94
rs62277907	X-25422 levels	GCST90200661	2	198095786	A	G	8210	0.13	0.03	0.00	0.00	21.59
rs1047891	X-25422 levels	GCST90200661	2	210675783	A	C	8210	0.09	0.02	0.00	0.00	29.83
rs58171576	X-25422 levels	GCST90200661	3	31422350	A	G	8210	-0.10	0.02	0.00	0.00	24.53
rs650505	X-25422 levels	GCST90200661	3	136275201	C	G	8210	0.07	0.02	0.00	0.00	20.82
rs1147238	X-25422 levels	GCST90200661	3	196947647	G	A	8210	-0.11	0.02	0.00	0.00	26.03
rs18538972	X-25422 levels	GCST90200661	4	58763434	A	G	8210	-0.19	0.04	0.00	0.00	21.53
rs11453097	X-25422 levels	GCST90200661	4	156665375	T	C	8210	0.29	0.06	0.00	0.00	21.22
rs7703346	X-25422 levels	GCST90200661	5	91613757	T	A	8210	0.07	0.01	0.00	0.00	19.74
rs9466476	X-25422 levels	GCST90200661	6	22807587	A	C	8210	-0.07	0.01	0.00	0.00	20.17
rs7807708	X-25422 levels	GCST90200661	7	51479126	A	G	8210	0.08	0.02	0.00	0.00	20.82
rs1510303	X-25422 levels	GCST90200661	7	97744357	A	G	8210	-0.10	0.01	0.00	0.01	49.69
rs10240723	X-25422 levels	GCST90200661	7	97981884	T	C	8210	-0.24	0.01	0.00	0.03	269.83
rs1620646	X-25422 levels	GCST90200661	7	97996146	A	C	8210	0.19	0.02	0.00	0.01	76.46
rs12671483	X-25422 levels	GCST90200661	7	124509824	T	C	8210	0.08	0.02	0.00	0.00	20.36
rs2169387	X-25422 levels	GCST90200661	8	9323885	G	A	8210	-0.13	0.02	0.00	0.00	30.14
rs11750761	X-25422 levels	GCST90200661	10	56892115	A	G	8210	-0.25	0.05	0.00	0.00	24.21
rs56830536	X-25422 levels	GCST90200661	11	82728929	T	A	8210	-0.21	0.05	0.00	0.00	20.34
rs14545570	X-25422 levels	GCST90200661	11	107825178	C	T	8210	0.21	0.05	0.00	0.00	21.59
rs11708121	X-25422 levels	GCST90200661	12	101945581	A	G	8210	-0.18	0.04	0.00	0.00	20.20
rs78185142	X-25422 levels	GCST90200661	12	124399063	A	G	8210	0.22	0.05	0.00	0.00	22.71
rs76525545	X-25422 levels	GCST90200661	13	80323479	G	A	8210	-0.12	0.03	0.00	0.00	20.02
rs28929474	X-25422 levels	GCST90200661	14	94378610	T	C	8210	0.26	0.05	0.00	0.00	22.49
rs2282377	X-25422 levels	GCST90200661	14	104105483	G	C	8210	-0.20	0.02	0.00	0.01	86.61
rs54476687	X-25422 levels	GCST90200661	16	15117526	T	C	8210	0.27	0.06	0.00	0.00	20.02
rs9931486	X-25422 levels	GCST90200661	16	60323253	T	G	8210	0.08	0.02	0.00	0.00	23.47
rs1140862	X-25422 levels	GCST90200661	19	15661567	A	T	8210	0.07	0.01	0.00	0.00	19.62
rs6659704	X-25790 levels	GCST90200662	1	159803847	G	A	8221	-0.09	0.02	0.00	0.00	23.26
rs62146920	X-25790 levels	GCST90200662	2	94840949	A	C	8221	0.10	0.02	0.00	0.00	21.55
rs6430545	X-25790 levels	GCST90200662	2	134845031	A	T	8221	0.07	0.01	0.00	0.00	25.03
rs13061929	X-25790 levels	GCST90200662	3	163837512	G	A	8221	0.29	0.06	0.00	0.00	20.49
rs11542399	X-25790 levels	GCST90200662	3	194642971	T	C	8221	0.18	0.04	0.00	0.00	20.04
rs11429118	X-25790 levels	GCST90200662	4	16958501	A	G	8221	0.19	0.04	0.00	0.00	20.07
rs18527652	X-25790 levels	GCST90200662	5	1695492	G	A	8221	0.17	0.04	0.00	0.00	22.43
rs76737575	X-25790 levels	GCST90200662	5	171448697	C	G	8221	-0.38	0.08	0.00	0.00	21.11
rs55389923	X-25790 levels	GCST90200662	9	6623266	C	T	8221	0.26	0.05	0.00	0.00	23.55
rs4440686	X-25790 levels	GCST90200662	9	70204585	T	C	8221	0.12	0.03	0.00	0.00	21.90
rs14403667	X-25790 levels	GCST90200662	9	113674389	G	C	8221	0.10	0.02	0.00	0.00	20.84
rs943851	X-25790 levels	GCST90200662	9	131577294	A	G	8221	0.08	0.02	0.00	0.00	21.12
rs2505611	X-25790 levels	GCST90200662	10	36453086	G	C	8221	0.07	0.02	0.00	0.00	19.83
rs11541194	X-25790 levels	GCST90200662	12	47958629	C	T	8221	0.08	0.02	0.00	0.00	21.37
rs56033847	X-25790 levels	GCST90200662	16	26150831	T	C	8221	0.08	0.02	0.00	0.00	19.63
rs14474228	X-25790 levels	GCST90200662	18	13494639	G	A	8221	-0.11	0.02	0.00	0.00	20.65
rs11735842	X-25790 levels	GCST90200662	18	80042722	T	G	8221	0.11	0.02	0.00	0.00	21.62
rs11756274	X-25790 levels	GCST90200662	19	2136150	T	C	8221	-0.23	0.05	0.00	0.00	20.67
rs1569415	X-25790 levels	GCST90200662	22	45331807	A	C	8221	0.14	0.02	0.00	0.01	71.47
rs12097495	X-25420 levels	GCST90200663	1	86749925	T	C	8271	0.09	0.02	0.00	0.00	20.60
rs13419021	X-25420 levels	GCST90200663	2	41940183	C	G	8271	-0.08	0.02	0.00	0.00	25.09
rs19083262	X-25420 levels	GCST90200663	2	103406254	G	T	8271	-0.28	0.06	0.00	0.00	19.82
rs715	X-25420 levels	GCST90200663	2	210678331	C	T	8271	-0.12	0.02	0.00	0.01	58.10
rs9991098	X-25420 levels	GCST90200663	4	78409056	T	C	8271	-0.18	0.04	0.00	0.00	20.00
rs76977997	X-25420 levels	GCST90200663	4	130776210	C	T	8271	0.14	0.03	0.00	0.00	21.04
rs7817321	X-25420 levels	GCST90200663	8	121049509	T	C	8271	0.15	0.03	0.00	0.00	19.61
rs4749264	X-25420 levels	GCST90200663	10	27837151	T	C	8271	0.07	0.02	0.00	0.00	21.61

rs2080402	X-25420 levels	GCST90200663	12	236009	C	T	8271	0.13	0.01	0.00	0.01	76.65
rs191086188	X-25420 levels	GCST90200663	12	30880571	C	G	8271	-0.36	0.07	0.00	0.00	23.03
rs12303764	X-25420 levels	GCST90200663	12	131914520	G	T	8271	0.07	0.02	0.00	0.00	19.76
rs148572830	X-25420 levels	GCST90200663	14	40257893	G	T	8271	-0.30	0.06	0.00	0.00	21.51
rs28399913	X-25420 levels	GCST90200663	15	29304386	G	T	8271	-0.13	0.03	0.00	0.00	20.87
rs7162921	X-25420 levels	GCST90200663	15	58779866	G	A	8271	-0.71	0.16	0.00	0.00	20.71
rs16978169	X-25420 levels	GCST90200663	18	44782004	T	C	8271	0.13	0.03	0.00	0.00	21.89
rs6055879	X-25420 levels	GCST90200663	20	8518815	G	A	8271	0.09	0.02	0.00	0.00	22.37
rs467466	X-25420 levels	GCST90200663	22	18100481	T	C	8271	0.14	0.03	0.00	0.00	23.42
rs144324256	X-25810 levels	GCST90200664	1	16439993	A	G	8167	-0.31	0.07	0.00	0.00	19.92
rs12618114	X-25810 levels	GCST90200664	2	20508959	T	C	8167	-0.07	0.02	0.00	0.00	20.55
rs55745539	X-25810 levels	GCST90200664	2	212149183	T	A	8167	-0.10	0.02	0.00	0.00	22.99
rs79765128	X-25810 levels	GCST90200664	2	229701383	C	T	8167	0.21	0.05	0.00	0.00	20.04
rs17279437	X-25810 levels	GCST90200664	3	45772602	A	G	8167	0.12	0.03	0.00	0.00	21.73
rs116206839	X-25810 levels	GCST90200664	4	109011989	G	A	8167	0.41	0.09	0.00	0.00	20.69
rs4863906	X-25810 levels	GCST90200664	4	133802438	A	G	8167	0.36	0.08	0.00	0.00	21.32
rs62333059	X-25810 levels	GCST90200664	4	179600521	A	T	8167	-0.10	0.02	0.00	0.00	33.54
rs57067664	X-25810 levels	GCST90200664	5	108473024	A	C	8167	0.60	0.13	0.00	0.00	20.80
rs7719151	X-25810 levels	GCST90200664	5	158097326	T	G	8167	-0.08	0.02	0.00	0.00	22.54
rs74777968	X-25810 levels	GCST90200664	6	963089	A	C	8167	0.42	0.08	0.00	0.00	26.41
rs77755594	X-25810 levels	GCST90200664	6	42311010	C	T	8167	0.25	0.05	0.00	0.00	22.99
rs12212977	X-25810 levels	GCST90200664	6	100412226	C	T	8167	0.19	0.04	0.00	0.00	20.55
rs7760232	X-25810 levels	GCST90200664	6	122713360	A	G	8167	0.13	0.03	0.00	0.00	22.32
rs6975313	X-25810 levels	GCST90200664	7	3803273	T	C	8167	-0.09	0.02	0.00	0.00	24.19
rs140491318	X-25810 levels	GCST90200664	7	13338277	A	G	8167	0.29	0.06	0.00	0.00	24.60
rs76496287	X-25810 levels	GCST90200664	7	26107622	G	A	8167	-0.18	0.04	0.00	0.00	22.01
rs79062394	X-25810 levels	GCST90200664	7	120318325	G	A	8167	0.28	0.06	0.00	0.00	22.15
rs13281211	X-25810 levels	GCST90200664	8	137034443	A	T	8167	-0.27	0.06	0.00	0.00	19.81
rs190498112	X-25810 levels	GCST90200664	10	1676707	A	G	8167	0.37	0.08	0.00	0.00	21.73
rs10786415	X-25810 levels	GCST90200664	10	98391509	G	A	8167	-0.10	0.02	0.00	0.01	43.49
rs79330667	X-25810 levels	GCST90200664	11	22352405	C	T	8167	-0.17	0.04	0.00	0.00	20.30
rs79608395	X-25810 levels	GCST90200664	11	61365919	A	G	8167	0.30	0.06	0.00	0.00	24.93
rs142171054	X-25810 levels	GCST90200664	11	69430283	T	C	8167	0.32	0.05	0.00	0.00	36.71
rs7968378	X-25810 levels	GCST90200664	12	28058128	A	C	8167	0.17	0.04	0.00	0.00	20.95
rs12816806	X-25810 levels	GCST90200664	12	113810386	C	T	8167	0.07	0.02	0.00	0.00	21.01
rs17475612	X-25810 levels	GCST90200664	13	100638978	T	C	8167	0.27	0.06	0.00	0.00	21.47
rs12587674	X-25810 levels	GCST90200664	14	76102850	G	A	8167	0.08	0.02	0.00	0.00	20.30
rs4779810	X-25810 levels	GCST90200664	15	31052093	C	T	8167	0.08	0.02	0.00	0.00	19.91
rs12915578	X-25810 levels	GCST90200664	15	46726130	C	A	8167	-0.07	0.02	0.00	0.00	19.96
rs28608471	X-25810 levels	GCST90200664	15	96964019	T	C	8167	0.08	0.02	0.00	0.00	24.31
rs7222458	X-25810 levels	GCST90200664	17	42087377	T	C	8167	-0.19	0.04	0.00	0.00	21.51
rs117250991	X-25810 levels	GCST90200664	17	77756770	G	C	8167	0.34	0.06	0.00	0.00	30.88
rs112547871	X-25810 levels	GCST90200664	19	19692425	A	G	8167	0.11	0.03	0.00	0.00	19.55
rs116985195	X-25810 levels	GCST90200664	19	53545019	T	C	8167	-0.23	0.05	0.00	0.00	20.49
rs139837552	X-25810 levels	GCST90200664	20	1318029	A	G	8167	0.40	0.08	0.00	0.00	22.09
rs61813805	X-25433 levels	GCST90200665	1	178185274	A	G	6516	0.12	0.03	0.00	0.00	21.24
rs77246625	X-25433 levels	GCST90200665	1	183674876	A	G	6516	0.25	0.05	0.00	0.00	21.23
rs62105158	X-25433 levels	GCST90200665	2	6533667	A	T	6516	-0.12	0.03	0.00	0.00	21.03
rs4849353	X-25433 levels	GCST90200665	2	114856660	T	G	6516	0.08	0.02	0.00	0.00	20.63
rs72877513	X-25433 levels	GCST90200665	2	172075771	G	C	6516	-0.39	0.08	0.00	0.00	24.07
rs138433213	X-25433 levels	GCST90200665	3	112975136	G	T	6516	-0.34	0.08	0.00	0.00	20.02
rs11716897	X-25433 levels	GCST90200665	3	142886714	A	G	6516	-0.08	0.02	0.00	0.00	19.60
rs28673709	X-25433 levels	GCST90200665	3	184191355	A	G	6516	0.10	0.02	0.00	0.00	22.81
rs4690182	X-25433 levels	GCST90200665	4	506842	G	A	6516	-0.20	0.04	0.00	0.00	22.78
rs59683852	X-25433 levels	GCST90200665	7	92117086	A	G	6516	-0.76	0.14	0.00	0.00	27.77
rs6557861	X-25433 levels	GCST90200665	8	25823376	C	A	6516	-0.36	0.08	0.00	0.00	19.72
rs2634531	X-25433 levels	GCST90200665	8	58604499	C	T	6516	-0.08	0.02	0.00	0.00	20.21
rs10093762	X-25433 levels	GCST90200665	8	100514765	G	A	6516	0.08	0.02	0.00	0.00	21.11
rs140526246	X-25433 levels	GCST90200665	9	34157373	T	C	6516	0.33	0.07	0.00	0.00	20.31
rs116711985	X-25433 levels	GCST90200665	10	29316054	T	C	6516	-0.32	0.07	0.00	0.00	19.60

rs2804411	X-25433 levels	GCST90200665	10	99763081	T	C	6516	-0.11	0.02	0.00	0.01	42.60
rs12318075	X-25433 levels	GCST90200665	12	21208653	G	T	6516	0.35	0.02	0.00	0.04	247.67
rs10841781	X-25433 levels	GCST90200665	12	21266461	G	A	6516	-0.15	0.02	0.00	0.01	42.96
rs7312017	X-25433 levels	GCST90200665	12	48560442	C	G	6516	0.08	0.02	0.00	0.00	21.32
rs10878725	X-25433 levels	GCST90200665	12	68020930	T	C	6516	-0.08	0.02	0.00	0.00	22.64
rs55963240	X-25433 levels	GCST90200665	12	105809069	C	A	6516	0.14	0.03	0.00	0.00	20.21
rs73152884	X-25433 levels	GCST90200665	12	128257513	G	T	6516	0.41	0.08	0.00	0.00	25.94
rs1008710	X-25433 levels	GCST90200665	15	41850194	G	C	6516	-0.11	0.02	0.00	0.00	24.18
rs62044386	X-25433 levels	GCST90200665	16	16814061	T	G	6516	0.11	0.02	0.00	0.00	20.64
rs111610950	X-25433 levels	GCST90200665	16	78476373	A	G	6516	-0.18	0.04	0.00	0.00	20.75
rs10221305	X-25433 levels	GCST90200665	18	77523863	G	A	6516	-0.08	0.02	0.00	0.00	21.53
rs6104651	X-25433 levels	GCST90200665	20	10723703	A	G	6516	0.08	0.02	0.00	0.00	21.96
rs74083018	X-25343 levels	GCST90200666	1	65295195	C	T	8195	-0.14	0.03	0.00	0.00	24.09
rs12118879	X-25343 levels	GCST90200666	1	225836764	T	G	8195	-0.22	0.05	0.00	0.00	22.69
rs2618669	X-25343 levels	GCST90200666	1	237509928	C	T	8195	0.07	0.02	0.00	0.00	19.99
rs17527979	X-25343 levels	GCST90200666	2	26205263	T	C	8195	-0.09	0.02	0.00	0.00	21.52
rs2392870	X-25343 levels	GCST90200666	2	221353815	G	T	8195	0.08	0.02	0.00	0.00	21.75
rs142087588	X-25343 levels	GCST90200666	3	1627333	A	T	8195	-0.30	0.07	0.00	0.00	20.73
rs11928382	X-25343 levels	GCST90200666	3	36470453	A	G	8195	-0.09	0.02	0.00	0.00	22.79
rs80311980	X-25343 levels	GCST90200666	3	174407070	A	C	8195	-0.20	0.04	0.00	0.00	20.45
rs13108563	X-25343 levels	GCST90200666	4	177389612	G	T	8195	-0.13	0.03	0.00	0.00	19.82
rs80155238	X-25343 levels	GCST90200666	5	94645982	A	G	8195	-0.21	0.04	0.00	0.00	22.35
rs116516793	X-25343 levels	GCST90200666	5	170432617	T	G	8195	-0.35	0.08	0.00	0.00	21.87
rs182997349	X-25343 levels	GCST90200666	6	10932762	A	T	8195	0.47	0.10	0.00	0.00	20.33
rs76679780	X-25343 levels	GCST90200666	7	156064370	A	G	8195	-0.20	0.04	0.00	0.00	22.24
rs13281409	X-25343 levels	GCST90200666	8	4746816	G	C	8195	-0.07	0.02	0.00	0.00	19.91
rs148021268	X-25343 levels	GCST90200666	8	63512786	A	G	8195	0.21	0.05	0.00	0.00	19.89
rs57786924	X-25343 levels	GCST90200666	10	51822392	A	G	8195	-0.11	0.03	0.00	0.00	19.67
rs12784542	X-25343 levels	GCST90200666	10	101009953	G	A	8195	0.07	0.02	0.00	0.00	19.79
rs75627470	X-25343 levels	GCST90200666	12	124665943	T	G	8195	-0.15	0.03	0.00	0.00	20.38
rs4765458	X-25343 levels	GCST90200666	12	126780340	T	C	8195	0.08	0.02	0.00	0.00	19.56
rs7201418	X-25343 levels	GCST90200666	16	3945230	A	C	8195	-0.08	0.02	0.00	0.00	24.06
rs1551529	X-25343 levels	GCST90200666	16	70770863	T	A	8195	-0.11	0.02	0.00	0.00	19.58
rs11912165	X-25343 levels	GCST90200666	22	28108768	T	C	8195	-0.19	0.04	0.00	0.00	20.44
rs150878380	X-25271 levels	GCST90200667	1	2779597	G	A	7906	-0.36	0.07	0.00	0.00	26.27
rs12139120	X-25271 levels	GCST90200667	1	102993358	A	C	7906	0.10	0.02	0.00	0.00	21.47
rs34861065	X-25271 levels	GCST90200667	2	159208762	A	C	7906	-0.08	0.02	0.00	0.00	20.60
rs4678145	X-25271 levels	GCST90200667	3	124731234	C	G	7906	-0.11	0.02	0.00	0.00	23.77
rs56259933	X-25271 levels	GCST90200667	3	135120338	T	G	7906	0.15	0.03	0.00	0.00	21.66
rs77124842	X-25271 levels	GCST90200667	3	195098630	G	A	7906	-0.11	0.02	0.00	0.00	24.72
rs13108690	X-25271 levels	GCST90200667	4	187481412	T	A	7906	-0.07	0.02	0.00	0.00	19.82
rs11133665	X-25271 levels	GCST90200667	5	1188170	A	G	7906	0.09	0.02	0.00	0.00	29.01
rs72868459	X-25271 levels	GCST90200667	6	49231535	T	C	7906	0.12	0.02	0.00	0.00	25.40
rs13227964	X-25271 levels	GCST90200667	7	146065094	G	A	7906	0.16	0.04	0.00	0.00	20.02
rs118072768	X-25271 levels	GCST90200667	10	10673637	C	T	7906	-0.40	0.09	0.00	0.00	20.48
rs7114771	X-25271 levels	GCST90200667	11	93506741	G	T	7906	-0.08	0.02	0.00	0.00	21.28
rs79991073	X-25271 levels	GCST90200667	12	14029349	T	C	7906	-0.33	0.06	0.00	0.00	26.26
rs188461099	X-25271 levels	GCST90200667	12	65959897	A	T	7906	-0.27	0.06	0.00	0.00	20.09
rs7955919	X-25271 levels	GCST90200667	12	109349682	T	C	7906	-0.20	0.04	0.00	0.00	21.62
rs78232122	X-25271 levels	GCST90200667	16	78515650	C	T	7906	-0.15	0.03	0.00	0.00	21.23
rs7218361	X-25271 levels	GCST90200667	17	39569151	G	A	7906	-0.17	0.04	0.00	0.00	21.22
rs17732049	X-25271 levels	GCST90200667	18	45656629	A	G	7906	-0.07	0.02	0.00	0.00	19.65
rs2092317	X-25520 levels	GCST90200668	1	22181456	T	C	7997	0.08	0.02	0.00	0.00	20.68
rs78332420	X-25520 levels	GCST90200668	2	45608581	C	G	7997	0.12	0.03	0.00	0.00	19.79
rs6799734	X-25520 levels	GCST90200668	3	25444320	C	G	7997	0.07	0.02	0.00	0.00	19.89
rs184039365	X-25520 levels	GCST90200668	5	78670318	T	C	7997	-0.32	0.07	0.00	0.00	21.13
rs3815955	X-25520 levels	GCST90200668	5	157217524	T	A	7997	0.09	0.02	0.00	0.00	22.56
rs17139296	X-25520 levels	GCST90200668	6	5057395	G	C	7997	0.22	0.05	0.00	0.00	20.98
rs9349288	X-25520 levels	GCST90200668	6	44473044	T	C	7997	-0.08	0.02	0.00	0.00	25.75
rs4720692	X-25520 levels	GCST90200668	7	6883918	C	T	7997	-0.15	0.03	0.00	0.00	20.88
rs12705355	X-25520 levels	GCST90200668	7	106169546	T	A	7997	-0.09	0.02	0.00	0.00	20.52
rs117210930	X-25520 levels	GCST90200668	7	121522673	G	C	7997	0.20	0.05	0.00	0.00	19.55
rs62479965	X-25520 levels	GCST90200668	8	2129801	G	T	7997	-0.19	0.04	0.00	0.00	22.28
rs55983804	X-25520 levels	GCST90200668	8	13052037	A	G	7997	-0.21	0.05	0.00	0.00	20.74

rs60571705	X-25520 levels	GCST90200668	8	77337582	T	C	7997	0.23	0.05	0.00	0.00	22.60
rs7073839	X-25520 levels	GCST90200668	10	80606856	A	G	7997	-0.08	0.02	0.00	0.00	22.63
rs74933887	X-25520 levels	GCST90200668	11	36290437	G	C	7997	-0.14	0.03	0.00	0.00	20.49
rs7961570	X-25520 levels	GCST90200668	12	98859935	A	G	7997	0.08	0.02	0.00	0.00	20.03
rs79452140	X-25520 levels	GCST90200668	13	105635771	T	C	7997	-0.35	0.08	0.00	0.00	20.32
rs16951072	X-25520 levels	GCST90200668	17	52166982	C	T	7997	0.19	0.04	0.00	0.00	19.63
rs12402363	X-25519 levels	GCST90200669	1	11861186	G	A	8080	0.08	0.02	0.00	0.00	20.05
rs138283407	X-25519 levels	GCST90200669	1	190263329	T	C	8080	0.36	0.07	0.00	0.00	24.34
rs55812438	X-25519 levels	GCST90200669	2	48173182	T	C	8080	0.21	0.04	0.00	0.00	22.86
rs13081053	X-25519 levels	GCST90200669	3	55242345	G	C	8080	-0.07	0.02	0.00	0.00	20.21
rs6783261	X-25519 levels	GCST90200669	3	98164395	A	G	8080	0.10	0.02	0.00	0.00	19.70
rs141569652	X-25519 levels	GCST90200669	5	39913166	A	G	8080	-0.34	0.07	0.00	0.00	22.47
rs78273613	X-25519 levels	GCST90200669	6	25865847	G	A	8080	0.12	0.03	0.00	0.00	21.84
rs111065463	X-25519 levels	GCST90200669	7	4484773	C	T	8080	-0.17	0.04	0.00	0.00	20.86
rs6471752	X-25519 levels	GCST90200669	8	48396607	T	C	8080	0.10	0.02	0.00	0.00	22.28
rs914280	X-25519 levels	GCST90200669	10	29881414	A	G	8080	0.40	0.08	0.00	0.00	28.49
rs12286649	X-25519 levels	GCST90200669	11	80429701	C	T	8080	-0.19	0.04	0.00	0.00	19.75
rs117681202	X-25519 levels	GCST90200669	12	54539656	C	T	8080	0.26	0.05	0.00	0.00	27.12
rs149546001	X-25519 levels	GCST90200669	12	110226197	T	C	8080	-0.38	0.08	0.00	0.00	21.24
rs10483451	X-25519 levels	GCST90200669	14	33525401	T	C	8080	-0.14	0.03	0.00	0.00	19.99
rs7359082	X-25519 levels	GCST90200669	14	56374325	A	G	8080	0.10	0.02	0.00	0.00	20.73
rs4903894	X-25519 levels	GCST90200669	14	79961437	G	A	8080	0.08	0.02	0.00	0.00	21.11
rs117136421	X-25519 levels	GCST90200669	14	104060011	A	G	8080	-0.32	0.07	0.00	0.00	20.13
rs17778967	X-25519 levels	GCST90200669	15	43258624	A	G	8080	-0.20	0.04	0.00	0.00	20.56
rs1124390	X-25519 levels	GCST90200669	16	52373913	G	C	8080	-0.07	0.02	0.00	0.00	20.64
rs4797479	X-25519 levels	GCST90200669	18	10741902	T	C	8080	-0.09	0.02	0.00	0.00	24.16
rs73156700	X-25519 levels	GCST90200669	21	25529318	A	T	8080	-0.15	0.03	0.00	0.00	20.42
rs111898962	X-26111 levels	GCST90200670	1	174113876	G	C	8002	0.30	0.07	0.00	0.00	20.10
rs6759892	X-26111 levels	GCST90200670	2	233693023	G	T	8002	-0.08	0.02	0.00	0.00	25.28
rs76295322	X-26111 levels	GCST90200670	3	72618821	T	C	8002	-0.20	0.04	0.00	0.00	22.34
rs73887032	X-26111 levels	GCST90200670	3	181532919	C	T	8002	-0.12	0.03	0.00	0.00	19.94
rs7375178	X-26111 levels	GCST90200670	4	69103961	A	C	8002	-0.12	0.02	0.00	0.01	59.24
rs77857737	X-26111 levels	GCST90200670	6	74666333	T	A	8002	0.24	0.05	0.00	0.00	20.35
rs4320332	X-26111 levels	GCST90200670	6	88551167	T	C	8002	0.08	0.02	0.00	0.00	20.28
rs193040993	X-26111 levels	GCST90200670	7	110060899	A	C	8002	-0.32	0.07	0.00	0.00	21.19
rs7797147	X-26111 levels	GCST90200670	7	137759283	G	A	8002	0.08	0.02	0.00	0.00	20.35
rs75429487	X-26111 levels	GCST90200670	7	147645215	G	A	8002	0.14	0.03	0.00	0.00	24.34
rs756601	X-26111 levels	GCST90200670	8	17170660	T	C	8002	-0.07	0.02	0.00	0.00	21.40
rs139592725	X-26111 levels	GCST90200670	8	78752288	T	C	8002	-0.40	0.09	0.00	0.00	19.60
rs55700273	X-26111 levels	GCST90200670	10	70277511	G	C	8002	-0.14	0.03	0.00	0.00	20.33
rs77269275	X-26111 levels	GCST90200670	11	89224522	C	A	8002	-0.17	0.04	0.00	0.00	23.62
rs2512253	X-26111 levels	GCST90200670	11	124169361	C	T	8002	0.08	0.02	0.00	0.00	21.33
rs11045806	X-26111 levels	GCST90200670	12	21161802	A	G	8002	-0.12	0.02	0.00	0.00	37.12
rs4149056	X-26111 levels	GCST90200670	12	21178615	C	T	8002	0.31	0.02	0.00	0.03	221.62
rs113369146	X-26111 levels	GCST90200670	12	55327473	T	C	8002	-0.32	0.07	0.00	0.00	21.80
rs192160556	X-26111 levels	GCST90200670	15	69244750	T	A	8002	-0.28	0.06	0.00	0.00	21.96
rs2587878	X-26111 levels	GCST90200670	16	56281447	C	T	8002	0.08	0.02	0.00	0.00	22.42
rs348818	X-26111 levels	GCST90200670	20	60446962	G	A	8002	0.10	0.02	0.00	0.00	22.43
rs4660393	X-26109 levels	GCST90200671	1	39079301	T	C	6992	0.13	0.03	0.00	0.00	26.99
rs593183	X-26109 levels	GCST90200671	1	239835578	G	A	6992	-0.07	0.02	0.00	0.00	19.55
rs780096	X-26109 levels	GCST90200671	2	27518205	G	C	6992	-0.07	0.02	0.00	0.00	20.28
rs4299376	X-26109 levels	GCST90200671	2	43845437	T	G	6992	0.10	0.02	0.00	0.00	32.36
rs6434914	X-26109 levels	GCST90200671	2	153803351	G	A	6992	0.07	0.02	0.00	0.00	20.15
rs115677858	X-26109 levels	GCST90200671	3	163690335	T	A	6992	0.25	0.06	0.00	0.00	19.54
rs75070362	X-26109 levels	GCST90200671	6	107669176	G	A	6992	-0.23	0.05	0.00	0.00	21.15
rs17430110	X-26109 levels	GCST90200671	7	15932474	C	A	6992	-0.13	0.03	0.00	0.00	22.28
rs79195309	X-26109 levels	GCST90200671	7	18094169	T	C	6992	-0.15	0.03	0.00	0.00	19.59
rs17690746	X-26109 levels	GCST90200671	7	90697635	A	G	6992	0.09	0.02	0.00	0.00	26.04
rs10278040	X-26109 levels	GCST90200671	7	99543750	A	G	6992	-0.35	0.04	0.00	0.01	80.24
rs776746	X-26109 levels	GCST90200671	7	99672916	C	T	6992	1.09	0.04	0.00	0.11	829.64
rs62471929	X-26109 levels	GCST90200671	7	99676693	G	A	6992	0.38	0.04	0.00	0.02	116.64
rs17616479	X-26109 levels	GCST90200671	7	148442307	A	G	6992	-0.18	0.04	0.00	0.00	22.57

rs117617214	X-26109 levels	GCST90200671	8	104020245	T	G	6992	-0.19	0.04	0.00	0.00	21.55
rs117938454	X-26109 levels	GCST90200671	9	90674961	C	T	6992	0.29	0.06	0.00	0.00	21.11
rs116855710	X-26109 levels	GCST90200671	10	94797455	T	G	6992	0.17	0.03	0.00	0.00	26.62
rs77407800	X-26109 levels	GCST90200671	11	62044663	T	C	6992	0.11	0.03	0.00	0.00	19.97
rs116584003	X-26109 levels	GCST90200671	11	63146428	A	C	6992	0.14	0.03	0.00	0.00	20.84
rs472650	X-26109 levels	GCST90200671	11	126055550	C	T	6992	0.09	0.02	0.00	0.00	24.82
rs187396778	X-26109 levels	GCST90200671	12	560575	T	C	6992	-0.49	0.10	0.00	0.00	21.47
rs4762697	X-26109 levels	GCST90200671	12	21162039	T	A	6992	0.11	0.02	0.00	0.01	36.41
rs4149056	X-26109 levels	GCST90200671	12	21178615	C	T	6992	0.30	0.02	0.00	0.03	190.91
rs62004047	X-26109 levels	GCST90200671	15	60191465	T	C	6992	-0.10	0.02	0.00	0.00	20.09
rs66951235	X-26109 levels	GCST90200671	16	87810677	G	A	6992	0.10	0.02	0.00	0.00	19.54
rs117801397	X-26109 levels	GCST90200671	17	13647294	G	A	6992	-0.24	0.05	0.00	0.00	19.91
rs34684360	X-26109 levels	GCST90200671	19	13429774	T	C	6992	0.08	0.02	0.00	0.00	19.65
rs296391	X-26109 levels	GCST90200671	19	47865277	T	C	6992	0.17	0.02	0.00	0.01	59.76
rs80159087	X-26054 levels	GCST90200672	1	167168660	C	T	8046	-0.18	0.04	0.00	0.00	22.89
rs144582687	X-26054 levels	GCST90200672	2	40302250	A	C	8046	-0.18	0.04	0.00	0.00	19.94
rs78732603	X-26054 levels	GCST90200672	2	142039884	T	C	8046	-0.12	0.03	0.00	0.00	21.55
rs11885631	X-26054 levels	GCST90200672	2	164594843	G	A	8046	0.11	0.02	0.00	0.00	24.28
rs180951745	X-26054 levels	GCST90200672	4	103658670	A	G	8046	0.27	0.06	0.00	0.00	19.69
rs337276	X-26054 levels	GCST90200672	4	129109789	A	C	8046	-0.41	0.01	0.00	0.09	764.42
rs13104702	X-26054 levels	GCST90200672	4	129211107	A	G	8046	-0.13	0.03	0.00	0.00	24.26
rs150570072	X-26054 levels	GCST90200672	4	129352835	G	T	8046	0.21	0.04	0.00	0.00	21.16
rs11730206	X-26054 levels	GCST90200672	4	159417157	G	T	8046	-0.07	0.02	0.00	0.00	20.49
rs9475432	X-26054 levels	GCST90200672	6	55850706	A	C	8046	-0.07	0.02	0.00	0.00	20.60
rs77197613	X-26054 levels	GCST90200672	6	126314229	T	C	8046	0.18	0.04	0.00	0.00	21.25
rs2076007	X-26054 levels	GCST90200672	6	167294271	T	C	8046	0.30	0.02	0.00	0.02	154.84
rs4732036	X-26054 levels	GCST90200672	7	134541036	T	C	8046	0.08	0.02	0.00	0.00	21.93
rs185022783	X-26054 levels	GCST90200672	8	96089901	A	G	8046	-0.39	0.09	0.00	0.00	20.05
rs118055448	X-26054 levels	GCST90200672	9	17891875	G	A	8046	-0.16	0.03	0.00	0.00	21.67
rs138868055	X-26054 levels	GCST90200672	9	70396425	G	C	8046	-0.30	0.07	0.00	0.00	20.92
rs550057	X-26054 levels	GCST90200672	9	133271182	C	T	8046	-0.16	0.02	0.00	0.01	86.97
rs59368188	X-26054 levels	GCST90200672	10	18537228	A	T	8046	0.62	0.13	0.00	0.00	22.40
rs1913752	X-26054 levels	GCST90200672	10	80641533	C	T	8046	0.08	0.02	0.00	0.00	20.09
rs567940645	X-26054 levels	GCST90200672	11	20570027	G	A	8046	0.71	0.16	0.00	0.00	20.97
rs329672	X-26054 levels	GCST90200672	11	133929237	T	C	8046	-0.08	0.02	0.00	0.00	23.12
rs146316489	X-26054 levels	GCST90200672	12	54714179	A	G	8046	-0.25	0.06	0.00	0.00	21.21
rs2102009	X-26054 levels	GCST90200672	12	65165502	T	C	8046	-0.12	0.03	0.00	0.00	21.19
rs825020	X-26054 levels	GCST90200672	12	101578209	T	C	8046	-0.07	0.02	0.00	0.00	21.20
rs9553949	X-26054 levels	GCST90200672	13	27001150	T	G	8046	-0.08	0.02	0.00	0.00	22.59
rs8004384	X-26054 levels	GCST90200672	14	32094434	G	A	8046	0.18	0.04	0.00	0.00	23.34
rs117202092	X-26054 levels	GCST90200672	15	79699626	C	T	8046	0.24	0.05	0.00	0.00	21.94
rs8078850	X-26054 levels	GCST90200672	17	42406645	A	G	8046	-0.09	0.02	0.00	0.00	20.03
rs9951988	X-26054 levels	GCST90200672	18	1023551	T	C	8046	0.09	0.02	0.00	0.00	21.81
rs12458806	X-26054 levels	GCST90200672	18	45658938	C	T	8046	-0.07	0.02	0.00	0.00	21.09
rs492602	X-26054 levels	GCST90200672	19	48703160	G	A	8046	-0.11	0.01	0.00	0.01	51.50
rs148442117	Carnitine C4 levels	GCST90200673	1	208023802	C	A	8111	-0.49	0.10	0.00	0.00	22.83
rs61838469	Carnitine C4 levels	GCST90200673	1	223017296	C	T	8111	0.07	0.02	0.00	0.00	21.62
rs11127048	Carnitine C4 levels	GCST90200673	2	27529596	A	G	8111	-0.07	0.02	0.00	0.00	21.88
rs78304556	Carnitine C4 levels	GCST90200673	2	117592022	A	G	8111	-0.55	0.11	0.00	0.00	23.47
rs6720393	Carnitine C4 levels	GCST90200673	2	182906063	G	A	8111	0.09	0.02	0.00	0.00	20.31
rs77954206	Carnitine C4 levels	GCST90200673	2	198087426	A	G	8111	-0.13	0.03	0.00	0.00	19.65
rs11686561	Carnitine C4 levels	GCST90200673	2	229466797	G	A	8111	0.07	0.02	0.00	0.00	19.75

rs139124223	Carnitine C4 levels	GCST90200673	3	63322571	C	T	8111	-0.42	0.09	0.00	0.00	21.18
rs77823243	Carnitine C4 levels	GCST90200673	3	170292521	G	A	8111	0.20	0.05	0.00	0.00	19.90
rs73112266	Carnitine C4 levels	GCST90200673	4	20830155	T	C	8111	-0.48	0.10	0.00	0.00	21.03
rs76508054	Carnitine C4 levels	GCST90200673	5	121623921	C	T	8111	0.33	0.07	0.00	0.00	19.57
rs274555	Carnitine C4 levels	GCST90200673	5	132387259	T	C	8111	0.10	0.02	0.00	0.00	40.50
rs28491272	Carnitine C4 levels	GCST90200673	5	143445053	C	T	8111	-0.08	0.02	0.00	0.00	24.23
rs62377732	Carnitine C4 levels	GCST90200673	5	160118518	T	C	8111	-0.08	0.02	0.00	0.00	23.02
rs80254170	Carnitine C4 levels	GCST90200673	6	160093251	G	A	8111	-0.16	0.03	0.00	0.00	32.25
rs662138	Carnitine C4 levels	GCST90200673	6	160143444	G	C	8111	-0.20	0.02	0.00	0.01	98.90
rs6977301	Carnitine C4 levels	GCST90200673	7	42457648	G	A	8111	0.13	0.03	0.00	0.00	20.11
rs80189144	Carnitine C4 levels	GCST90200673	7	73525609	C	T	8111	-0.11	0.02	0.00	0.00	22.73
rs73141858	Carnitine C4 levels	GCST90200673	7	80923058	A	G	8111	0.28	0.06	0.00	0.00	22.22
rs13261288	Carnitine C4 levels	GCST90200673	8	65279213	G	A	8111	-0.08	0.02	0.00	0.00	26.12
rs7863978	Carnitine C4 levels	GCST90200673	9	8317236	T	C	8111	-0.15	0.03	0.00	0.00	22.42
rs76218244	Carnitine C4 levels	GCST90200673	9	75154096	C	A	8111	0.24	0.05	0.00	0.00	23.48
rs13299371	Carnitine C4 levels	GCST90200673	9	120569993	T	A	8111	0.09	0.02	0.00	0.00	21.46
rs12248294	Carnitine C4 levels	GCST90200673	10	4826687	G	C	8111	-0.13	0.03	0.00	0.00	21.64
rs11239569	Carnitine C4 levels	GCST90200673	10	45590902	A	C	8111	-0.08	0.02	0.00	0.00	22.16
rs1171617	Carnitine C4 levels	GCST90200673	10	59707424	T	G	8111	0.22	0.02	0.00	0.02	137.00
rs11192260	Carnitine C4 levels	GCST90200673	10	104983160	T	C	8111	0.09	0.02	0.00	0.00	23.87
rs203326	Carnitine C4 levels	GCST90200673	12	119765917	C	T	8111	0.13	0.02	0.00	0.01	54.25
rs2516078	Carnitine C4 levels	GCST90200673	12	120433950	C	T	8111	-0.20	0.02	0.00	0.02	158.60
rs7975067	Carnitine C4 levels	GCST90200673	12	120661651	A	G	8111	0.64	0.01	0.00	0.19	#####
rs12809185	Carnitine C4 levels	GCST90200673	12	121081295	C	A	8111	0.18	0.03	0.00	0.01	44.35
rs71454677	Carnitine C4 levels	GCST90200673	12	121114221	T	C	8111	0.39	0.06	0.00	0.01	44.86
rs74805465	Carnitine C4 levels	GCST90200673	15	76302254	C	A	8111	0.14	0.03	0.00	0.00	24.82
rs148899781	Carnitine C4 levels	GCST90200673	16	78588443	T	G	8111	0.31	0.07	0.00	0.00	20.62
rs79769366	Carnitine C4 levels	GCST90200673	17	8580269	C	T	8111	0.17	0.04	0.00	0.00	22.95
rs4796274	Carnitine C4 levels	GCST90200673	17	36753570	G	A	8111	-0.07	0.02	0.00	0.00	20.14
rs144647217	Carnitine C4 levels	GCST90200673	17	45192996	A	G	8111	-0.11	0.02	0.00	0.00	20.47
rs4814829	Carnitine C4 levels	GCST90200673	20	19120260	T	C	8111	0.13	0.03	0.00	0.00	19.99
rs77561473	Carnitine C4 levels	GCST90200673	21	36627484	A	C	8111	0.14	0.03	0.00	0.00	19.65
rs149206673	Carnitine C4 levels	GCST90200673	22	37354778	G	A	8111	0.22	0.05	0.00	0.00	20.38
rs77721309	Androsterone sulfate levels	GCST90200674	1	172563814	T	C	8182	0.34	0.08	0.00	0.00	19.59
rs80344133	Androsterone sulfate levels	GCST90200674	1	193956914	A	C	8182	-0.08	0.02	0.00	0.00	20.08
rs114483936	Androsterone sulfate levels	GCST90200674	1	201950657	A	G	8182	0.26	0.06	0.00	0.00	20.57
rs140628452	Androsterone sulfate levels	GCST90200674	2	19295363	T	C	8182	-0.28	0.06	0.00	0.00	22.57

rs1260326	Androsterone sulfate levels	GCST90200674	2	27508073	C	T	8182	-0.08	0.02	0.00	0.00	25.43
rs72790679	Androsterone sulfate levels	GCST90200674	2	31431289	A	G	8182	-0.29	0.06	0.00	0.00	26.79
rs72787511	Androsterone sulfate levels	GCST90200674	2	32591022	C	G	8182	-0.28	0.04	0.00	0.01	45.98
rs75208241	Androsterone sulfate levels	GCST90200674	2	48808556	T	C	8182	-0.25	0.06	0.00	0.00	21.15
rs10185931	Androsterone sulfate levels	GCST90200674	2	74734726	G	A	8182	0.13	0.03	0.00	0.00	19.98
rs4314048	Androsterone sulfate levels	GCST90200674	2	234589770	A	T	8182	-0.07	0.02	0.00	0.00	20.75
rs34445681	Androsterone sulfate levels	GCST90200674	3	477304	C	A	8182	-0.22	0.04	0.00	0.00	24.09
rs139237479	Androsterone sulfate levels	GCST90200674	3	14512629	A	G	8182	-0.57	0.12	0.00	0.00	20.77
rs56225736	Androsterone sulfate levels	GCST90200674	3	196242315	A	G	8182	0.14	0.02	0.00	0.01	41.69
rs10212881	Androsterone sulfate levels	GCST90200674	4	67595784	A	C	8182	0.16	0.04	0.00	0.00	19.56
rs10020631	Androsterone sulfate levels	GCST90200674	4	68488145	A	G	8182	-0.18	0.02	0.00	0.01	106.12
rs1165148	Androsterone sulfate levels	GCST90200674	6	25844482	T	G	8182	0.09	0.02	0.00	0.00	25.10
rs77670276	Androsterone sulfate levels	GCST90200674	6	67139768	G	A	8182	-0.09	0.02	0.00	0.00	19.54
rs73766949	Androsterone sulfate levels	GCST90200674	6	112178427	T	A	8182	-0.34	0.07	0.00	0.00	21.83
rs115775486	Androsterone sulfate levels	GCST90200674	6	134296694	C	T	8182	-0.31	0.07	0.00	0.00	19.95
rs148982377	Androsterone sulfate levels	GCST90200674	7	99477415	C	T	8182	-1.50	0.04	0.00	0.16	#####
rs10275052	Androsterone sulfate levels	GCST90200674	7	99984176	A	G	8182	0.08	0.02	0.00	0.00	25.16
rs117209214	Androsterone sulfate levels	GCST90200674	7	100396354	A	G	8182	-0.75	0.09	0.00	0.01	77.90
rs12549641	Androsterone sulfate levels	GCST90200674	8	20481231	G	A	8182	-0.07	0.02	0.00	0.00	20.18
rs17834682	Androsterone sulfate levels	GCST90200674	8	57955691	T	C	8182	0.20	0.04	0.00	0.00	24.88
rs10974471	Androsterone sulfate levels	GCST90200674	9	4329033	T	G	8182	0.09	0.02	0.00	0.00	19.94
rs4246147	Androsterone sulfate levels	GCST90200674	9	16391236	G	A	8182	-0.07	0.02	0.00	0.00	21.75
rs12768534	Androsterone sulfate levels	GCST90200674	10	63581137	A	G	8182	-0.07	0.01	0.00	0.00	21.21
rs7116362	Androsterone sulfate levels	GCST90200674	11	129540227	T	C	8182	-0.17	0.04	0.00	0.00	20.26
rs76205362	Androsterone sulfate levels	GCST90200674	12	15167671	C	T	8182	-0.22	0.05	0.00	0.00	20.21
rs11519272	Androsterone sulfate levels	GCST90200674	12	21209458	A	C	8182	0.10	0.02	0.00	0.00	23.97
rs74421372	Androsterone sulfate levels	GCST90200674	12	109711405	T	A	8182	0.23	0.05	0.00	0.00	23.18
rs61939335	Androsterone sulfate levels	GCST90200674	12	130072756	A	C	8182	0.17	0.04	0.00	0.00	22.99
rs8008584	Androsterone sulfate levels	GCST90200674	14	35430747	C	T	8182	0.07	0.02	0.00	0.00	19.78
rs138820751	Androsterone sulfate levels	GCST90200674	14	65696188	T	C	8182	-0.17	0.04	0.00	0.00	20.84
rs73242239	Androsterone sulfate levels	GCST90200674	17	7598587	C	G	8182	0.08	0.02	0.00	0.00	23.50
rs62128827	Androsterone sulfate levels	GCST90200674	19	47862311	T	C	8182	-0.13	0.02	0.00	0.01	41.92
rs76136208	Androsterone sulfate levels	GCST90200674	22	21030988	T	C	8182	-0.33	0.07	0.00	0.00	21.69
rs4952523	N-acetyltyrosine levels	GCST90200675	2	41876837	T	C	7841	0.12	0.03	0.00	0.00	19.88
rs142564956	N-acetyltyrosine levels	GCST90200675	2	73118297	G	A	7841	0.20	0.04	0.00	0.00	25.23

rs11689392	N- acetyltyrosine levels	GCST90200675	2	73394898	C	T	7841	0.71	0.02	0.00	0.19	#####
rs78606233	N- acetyltyrosine levels	GCST90200675	2	73838471	A	T	7841	-0.18	0.03	0.00	0.00	31.73
rs115864106	N- acetyltyrosine levels	GCST90200675	2	149069373	G	A	7841	-0.27	0.06	0.00	0.00	20.63
rs116376456	N- acetyltyrosine levels	GCST90200675	2	226461917	T	A	7841	0.27	0.06	0.00	0.00	19.61
rs459059	N- acetyltyrosine levels	GCST90200675	3	8145244	C	G	7841	0.25	0.04	0.00	0.00	31.36
rs116192325	N- acetyltyrosine levels	GCST90200675	4	30295499	T	G	7841	-0.24	0.05	0.00	0.00	21.49
rs114917848	N- acetyltyrosine levels	GCST90200675	4	76703594	G	A	7841	-0.24	0.05	0.00	0.00	19.62
rs12209125	N- acetyltyrosine levels	GCST90200675	6	25769561	C	A	7841	-0.08	0.02	0.00	0.00	22.97
rs74506145	N- acetyltyrosine levels	GCST90200675	6	37058703	C	T	7841	-0.14	0.03	0.00	0.00	19.72
rs11758760	N- acetyltyrosine levels	GCST90200675	6	68064808	A	G	7841	0.07	0.02	0.00	0.00	21.37
rs9486433	N- acetyltyrosine levels	GCST90200675	6	106648546	T	C	7841	-0.12	0.03	0.00	0.00	22.52
rs2297939	N- acetyltyrosine levels	GCST90200675	6	111227959	A	G	7841	-0.08	0.02	0.00	0.00	23.39
rs71539561	N- acetyltyrosine levels	GCST90200675	7	28249317	A	T	7841	-0.16	0.03	0.00	0.00	23.37
rs17698603	N- acetyltyrosine levels	GCST90200675	8	96082595	G	A	7841	-0.18	0.04	0.00	0.00	20.41
rs117847435	N- acetyltyrosine levels	GCST90200675	8	128965005	A	C	7841	0.27	0.06	0.00	0.00	21.55
rs11003293	N- acetyltyrosine levels	GCST90200675	10	52964628	A	G	7841	-0.11	0.03	0.00	0.00	19.76
rs111647732	N- acetyltyrosine levels	GCST90200675	10	132404671	T	C	7841	-0.18	0.03	0.00	0.00	28.21
rs7108760	N- acetyltyrosine levels	GCST90200675	11	67647176	G	A	7841	0.30	0.02	0.00	0.03	207.30
rs141175000	N- acetyltyrosine levels	GCST90200675	12	613206	G	A	7841	0.27	0.06	0.00	0.00	21.29
rs11177058	N- acetyltyrosine levels	GCST90200675	12	68113333	C	T	7841	-0.29	0.06	0.00	0.00	21.53
rs71458589	N- acetyltyrosine levels	GCST90200675	12	95361936	T	C	7841	-0.27	0.06	0.00	0.00	20.90
rs3892328	N- acetyltyrosine levels	GCST90200675	12	128680088	A	G	7841	0.28	0.06	0.00	0.00	23.05
rs9540479	N- acetyltyrosine levels	GCST90200675	13	65577461	A	G	7841	0.10	0.02	0.00	0.00	20.87
rs679450	N- acetyltyrosine levels	GCST90200675	13	110281039	C	G	7841	-0.07	0.02	0.00	0.00	20.23

rs2066710	N-acetyltyrosine levels	GCST90200675	15	25678340	C	T	7841	0.07	0.02	0.00	0.00	20.08
rs151069962	N-acetyltyrosine levels	GCST90200675	16	31459565	A	T	7841	-0.15	0.03	0.00	0.00	20.70
rs117495988	N-acetyltyrosine levels	GCST90200675	16	84408320	C	T	7841	-0.48	0.11	0.00	0.00	19.64
rs118137341	N-acetyltyrosine levels	GCST90200675	20	40386443	C	T	7841	0.25	0.05	0.00	0.00	22.62
rs79783036	N-acetyltyrosine levels	GCST90200675	22	17684194	G	A	7841	0.16	0.03	0.00	0.00	21.28
rs9624073	N-acetyltyrosine levels	GCST90200675	22	23281906	C	T	7841	-0.13	0.03	0.00	0.00	21.74
rs76204000	N-acetyl-L-glutamine levels	GCST90200676	1	25722677	G	C	8181	0.17	0.04	0.00	0.00	22.17
rs686587	N-acetyl-L-glutamine levels	GCST90200676	1	70060334	C	A	8181	0.10	0.02	0.00	0.00	27.27
rs142919319	N-acetyl-L-glutamine levels	GCST90200676	1	103129364	T	C	8181	-0.26	0.06	0.00	0.00	19.99
rs565051490	N-acetyl-L-glutamine levels	GCST90200676	1	216750769	T	A	8181	0.17	0.04	0.00	0.00	19.56
rs139685306	N-acetyl-L-glutamine levels	GCST90200676	2	36227354	C	T	8181	0.33	0.07	0.00	0.00	23.03
rs11898850	N-acetyl-L-glutamine levels	GCST90200676	2	72972490	A	C	8181	-0.13	0.02	0.00	0.01	69.83
rs6737049	N-acetyl-L-glutamine levels	GCST90200676	2	73279583	A	G	8181	-0.23	0.02	0.00	0.01	117.17
rs7573275	N-acetyl-L-glutamine levels	GCST90200676	2	73325414	A	G	8181	0.67	0.02	0.00	0.19	#####
rs115138061	N-acetyl-L-glutamine levels	GCST90200676	2	74481629	T	C	8181	0.31	0.05	0.00	0.00	32.47
rs62181384	N-acetyl-L-glutamine levels	GCST90200676	2	215913464	A	G	8181	0.08	0.02	0.00	0.00	19.87
rs72988237	N-acetyl-L-glutamine levels	GCST90200676	2	238882430	T	G	8181	0.10	0.02	0.00	0.00	20.81
rs56109834	N-acetyl-L-glutamine levels	GCST90200676	4	78047224	A	G	8181	0.22	0.05	0.00	0.00	22.13
rs1500836	N-acetyl-L-glutamine levels	GCST90200676	4	141978202	T	C	8181	0.08	0.02	0.00	0.00	21.96
rs1165172	N-acetyl-L-glutamine levels	GCST90200676	6	25881340	T	A	8181	0.08	0.02	0.00	0.00	22.57
rs116844495	N-acetyl-L-glutamine levels	GCST90200676	6	94102400	A	T	8181	-0.23	0.05	0.00	0.00	23.46
rs75371879	N-acetyl-L-glutamine levels	GCST90200676	7	128174336	A	T	8181	0.37	0.08	0.00	0.00	20.56
rs1495741	N-acetyl-L-glutamine levels	GCST90200676	8	18415371	A	G	8181	-0.18	0.02	0.00	0.01	96.50
rs2958827	N-acetyl-L-glutamine levels	GCST90200676	8	133629597	C	G	8181	-0.08	0.02	0.00	0.00	20.60

rs146971725	N-acetyl-L-glutamine levels	GCST90200676	9	134640997	T	C	8181	0.45	0.10	0.00	0.00	21.16
rs74560030	N-acetyl-L-glutamine levels	GCST90200676	11	132949878	A	G	8181	-0.39	0.09	0.00	0.00	19.59
rs117226891	N-acetyl-L-glutamine levels	GCST90200676	12	47662782	T	C	8181	0.23	0.05	0.00	0.00	23.18
rs1007161	N-acetyl-L-glutamine levels	GCST90200676	19	32862135	A	G	8181	-0.07	0.02	0.00	0.00	21.81
rs6034135	N-acetyl-L-glutamine levels	GCST90200676	20	15258823	T	A	8181	-0.11	0.02	0.00	0.00	21.09
rs2509536	N-acetyl-L-glutamine levels	GCST90200676	22	26407688	T	C	8181	-0.07	0.02	0.00	0.00	20.25
rs35311109	N-acetylphenylalanine levels	GCST90200677	1	51012664	A	T	8228	-0.08	0.02	0.00	0.00	25.18
rs2149614	N-acetylphenylalanine levels	GCST90200677	1	54293257	T	C	8228	0.07	0.02	0.00	0.00	20.63
rs2360636	N-acetylphenylalanine levels	GCST90200677	1	110063942	T	C	8228	0.07	0.01	0.00	0.00	21.87
rs10436897	N-acetylphenylalanine levels	GCST90200677	1	188965704	A	C	8228	0.24	0.05	0.00	0.00	19.54
rs142564956	N-acetylphenylalanine levels	GCST90200677	2	73118297	G	A	8228	0.19	0.04	0.00	0.00	24.23
rs6705489	N-acetylphenylalanine levels	GCST90200677	2	73421683	T	G	8228	0.63	0.02	0.00	0.15	#####
rs78606233	N-acetylphenylalanine levels	GCST90200677	2	73838471	A	T	8228	-0.16	0.03	0.00	0.00	28.29
rs72870683	N-acetylphenylalanine levels	GCST90200677	2	160965068	C	T	8228	-0.26	0.05	0.00	0.00	25.41
rs9852875	N-acetylphenylalanine levels	GCST90200677	3	8119853	T	C	8228	0.19	0.04	0.00	0.00	21.31
rs28534915	N-acetylphenylalanine levels	GCST90200677	3	25146515	G	T	8228	0.10	0.02	0.00	0.00	19.70
rs116075297	N-acetylphenylalanine levels	GCST90200677	3	175408182	C	G	8228	-0.28	0.06	0.00	0.00	19.79
rs138252727	N-acetylphenylalanine levels	GCST90200677	4	30652402	A	G	8228	-0.24	0.06	0.00	0.00	19.51
rs79031621	N-acetylphenylalanine levels	GCST90200677	4	36175866	G	A	8228	0.14	0.03	0.00	0.00	20.28
rs61757081	N-acetylphenylalanine levels	GCST90200677	5	11079809	A	T	8228	0.31	0.07	0.00	0.00	22.44
rs6868892	N-acetylphenylalanine levels	GCST90200677	5	22193671	T	C	8228	-0.07	0.01	0.00	0.00	20.17
rs76260331	N-acetylphenylalanine levels	GCST90200677	5	113761062	T	G	8228	0.15	0.03	0.00	0.00	19.97
rs139658164	N-acetylphenylalanine levels	GCST90200677	5	166165195	G	A	8228	0.46	0.10	0.00	0.00	23.51
rs2328895	N-acetylphenylalanine levels	GCST90200677	6	25801855	T	C	8228	0.15	0.01	0.00	0.01	98.43

rs12180811	N-acetylphenylalanine levels	GCST90200677	6	129640023	T	C	8228	0.15	0.03	0.00	0.00	19.78
rs62576887	N-acetylphenylalanine levels	GCST90200677	9	101207360	T	C	8228	0.19	0.04	0.00	0.00	20.03
rs117013634	N-acetylphenylalanine levels	GCST90200677	9	119827126	C	T	8228	-0.19	0.04	0.00	0.00	19.79
rs3763785	N-acetylphenylalanine levels	GCST90200677	10	15042569	C	T	8228	0.10	0.02	0.00	0.00	20.45
rs7108760	N-acetylphenylalanine levels	GCST90200677	11	67647176	G	A	8228	0.26	0.02	0.00	0.02	179.08
rs111528892	N-acetylphenylalanine levels	GCST90200677	13	26654150	A	G	8228	-0.34	0.08	0.00	0.00	20.47
rs2010501	N-acetylphenylalanine levels	GCST90200677	16	56911627	G	A	8228	-0.07	0.02	0.00	0.00	19.67
rs12444803	N-acetylphenylalanine levels	GCST90200677	16	84482101	T	C	8228	-0.07	0.02	0.00	0.00	21.78
rs9957535	N-acetylphenylalanine levels	GCST90200677	18	63096065	A	G	8228	-0.13	0.03	0.00	0.00	21.10
rs11898850	N-acetylasparagine levels	GCST90200678	2	72972490	A	C	7935	-0.13	0.02	0.00	0.01	63.49
rs13417094	N-acetylasparagine levels	GCST90200678	2	73277974	T	C	7935	-0.28	0.02	0.00	0.02	155.16
rs7573275	N-acetylasparagine levels	GCST90200678	2	73325414	A	G	7935	0.78	0.01	0.00	0.26	#####
rs568417388	N-acetylasparagine levels	GCST90200678	2	131631437	A	C	7935	0.46	0.10	0.00	0.00	20.84
rs139529266	N-acetylasparagine levels	GCST90200678	3	9279579	C	T	7935	0.21	0.05	0.00	0.00	19.66
rs32831	N-acetylasparagine levels	GCST90200678	5	15966188	G	C	7935	0.10	0.02	0.00	0.00	21.21
rs6890387	N-acetylasparagine levels	GCST90200678	5	103289316	T	C	7935	0.21	0.04	0.00	0.00	21.64
rs918513	N-acetylasparagine levels	GCST90200678	5	166759801	A	G	7935	0.09	0.02	0.00	0.00	20.62
rs1165176	N-acetylasparagine levels	GCST90200678	6	25830070	G	A	7935	0.07	0.02	0.00	0.00	20.88
rs62448684	N-acetylasparagine levels	GCST90200678	7	14695522	C	T	7935	0.07	0.02	0.00	0.00	19.60
rs112682023	N-acetylasparagine levels	GCST90200678	7	121024546	T	A	7935	-0.26	0.06	0.00	0.00	20.50
rs10094342	N-acetylasparagine levels	GCST90200678	8	18346763	C	T	7935	0.11	0.02	0.00	0.00	23.47
rs7818223	N-acetylasparagine levels	GCST90200678	8	92351960	T	C	7935	-0.07	0.02	0.00	0.00	19.85
rs13254699	N-acetylasparagine levels	GCST90200678	8	105639725	G	C	7935	0.10	0.02	0.00	0.00	20.24
rs7459514	N-acetylasparagine levels	GCST90200678	8	117801801	G	C	7935	0.07	0.02	0.00	0.00	20.12

rs11816378	N-acetylasparagine levels	GCST90200678	10	18240717	A	G	7935	-0.13	0.03	0.00	0.00	20.15
rs114939400	N-acetylasparagine levels	GCST90200678	10	54782196	C	T	7935	0.15	0.03	0.00	0.00	21.97
rs150141165	N-acetylasparagine levels	GCST90200678	11	55061934	T	C	7935	0.12	0.02	0.00	0.00	26.49
rs60684087	N-acetylasparagine levels	GCST90200678	11	67762561	C	T	7935	0.42	0.09	0.00	0.00	20.29
rs144924051	N-acetylasparagine levels	GCST90200678	13	62490218	A	G	7935	0.37	0.08	0.00	0.00	20.85
rs8012505	N-acetylasparagine levels	GCST90200678	14	104104717	G	C	7935	0.26	0.02	0.00	0.02	132.05
rs78491689	N-acetylasparagine levels	GCST90200678	17	10855959	G	A	7935	-0.09	0.02	0.00	0.00	20.01
rs35002391	N-acetylasparagine levels	GCST90200678	19	8090106	T	C	7935	0.08	0.02	0.00	0.00	22.59
rs9983176	N-acetylasparagine levels	GCST90200678	21	46054497	T	C	7935	-0.10	0.02	0.00	0.00	20.80
rs11090109	N-acetylasparagine levels	GCST90200678	22	42542151	A	G	7935	-0.10	0.02	0.00	0.00	22.30
rs76807148	N-acetylarginine levels	GCST90200679	1	101507990	A	G	8271	0.20	0.05	0.00	0.00	19.67
rs11898850	N-acetylarginine levels	GCST90200679	2	72972490	A	C	8271	-0.11	0.02	0.00	0.01	52.57
rs13417094	N-acetylarginine levels	GCST90200679	2	73277974	T	C	8271	-0.26	0.02	0.00	0.02	135.03
rs7573275	N-acetylarginine levels	GCST90200679	2	73325414	A	G	8271	0.73	0.02	0.00	0.22	#####
rs1446242	N-acetylarginine levels	GCST90200679	2	150148800	A	G	8271	-0.09	0.02	0.00	0.00	19.98
rs6549476	N-acetylarginine levels	GCST90200679	3	66879725	A	G	8271	0.09	0.02	0.00	0.00	19.81
rs6890387	N-acetylarginine levels	GCST90200679	5	103289316	T	C	8271	0.21	0.04	0.00	0.00	21.93
rs142393017	N-acetylarginine levels	GCST90200679	5	110427107	T	G	8271	0.33	0.07	0.00	0.00	21.14
rs73542824	N-acetylarginine levels	GCST90200679	6	131552842	A	G	8271	0.21	0.04	0.00	0.00	22.68
rs80254170	N-acetylarginine levels	GCST90200679	6	160093251	G	A	8271	-0.13	0.03	0.00	0.00	21.94
rs662138	N-acetylarginine levels	GCST90200679	6	160143444	G	C	8271	-0.11	0.02	0.00	0.00	29.43
rs1935621	N-acetylarginine levels	GCST90200679	9	118415564	A	G	8271	0.07	0.02	0.00	0.00	20.34
rs1171617	N-acetylarginine levels	GCST90200679	10	59707424	T	G	8271	0.15	0.02	0.00	0.01	67.85
rs143609405	N-acetylarginine levels	GCST90200679	10	69536750	T	C	8271	0.32	0.07	0.00	0.00	20.11

rs927907	N- acetylarginine levels	GCST90200679	10	89629981	A	G	8271	0.08	0.02	0.00	0.00	21.64
rs13814427 7	N- acetylarginine levels	GCST90200679	11	49742795	A	G	8271	0.14	0.03	0.00	0.00	27.68
rs3132810	N- acetylarginine levels	GCST90200679	11	134279180	G	A	8271	0.08	0.02	0.00	0.00	21.75
rs14439884 2	N- acetylarginine levels	GCST90200679	12	14723356	A	G	8271	-0.24	0.05	0.00	0.00	19.92
rs1169288	N- acetylarginine levels	GCST90200679	12	120978847	C	A	8271	0.08	0.02	0.00	0.00	23.03
rs55943244	N- acetylarginine levels	GCST90200679	13	92605933	G	A	8271	0.16	0.04	0.00	0.00	20.77
rs11165833 9	N- acetylarginine levels	GCST90200679	14	20983893	G	T	8271	0.30	0.06	0.00	0.00	26.03
rs11568438	N- acetylarginine levels	GCST90200679	14	22813127	A	G	8271	0.30	0.05	0.00	0.00	30.15
rs2453583	N- acetylarginine levels	GCST90200679	17	19538723	T	A	8271	0.11	0.02	0.00	0.01	46.17
rs60177810	N- acetylarginine levels	GCST90200679	18	14164768	T	C	8271	0.12	0.03	0.00	0.00	20.47
rs59849044	N- acetylarginine levels	GCST90200679	20	51912899	G	C	8271	-0.28	0.06	0.00	0.00	19.80
rs1686468	5-acetylamino- 6- formylamino- 3-methyluracil	GCST90200680	2	10846500	G	A	7599	0.08	0.02	0.00	0.00	19.76
rs833134	5-acetylamino- 6- formylamino- 3-methyluracil	GCST90200680	2	182279613	T	G	7599	-0.27	0.06	0.00	0.00	21.52
rs15123792 3	5-acetylamino- 6- formylamino- 3-methyluracil	GCST90200680	5	35108272	A	G	7599	-0.37	0.08	0.00	0.00	20.12
rs62383994	5-acetylamino- 6- formylamino- 3-methyluracil	GCST90200680	5	171447134	C	T	7599	-0.08	0.02	0.00	0.00	20.86
rs11768350	5-acetylamino- 6- formylamino- 3-methyluracil	GCST90200680	7	17522027	C	T	7599	-0.12	0.02	0.00	0.00	28.52
rs4719526	5-acetylamino- 6- formylamino- 3-methyluracil	GCST90200680	7	18022626	T	C	7599	0.12	0.03	0.00	0.00	23.40
rs7836592	5-acetylamino- 6- formylamino- 3-methyluracil	GCST90200680	8	18157388	T	C	7599	-0.11	0.02	0.00	0.01	46.88
rs971770	5-acetylamino- 6- formylamino- 3-methyluracil	GCST90200680	8	18360305	C	T	7599	-0.26	0.03	0.00	0.01	71.04
rs1115784	5-acetylamino- 6- formylamino- 3-methyluracil	GCST90200680	8	18397900	G	A	7599	0.63	0.02	0.00	0.16	#####
rs12545528	5-acetylamino- 6- formylamino- 3-methyluracil	GCST90200680	8	18414438	T	G	7599	-0.16	0.02	0.00	0.01	97.87

rs190388559	5-acetylamino-6-formylamino-3-methyluracil	GCST90200680	10	99961203	C	G	7599	-0.14	0.03	0.00	0.00	19.58
rs79980642	5-acetylamino-6-formylamino-3-methyluracil	GCST90200680	11	99218654	G	A	7599	0.18	0.04	0.00	0.00	21.20
rs7951990	5-acetylamino-6-formylamino-3-methyluracil	GCST90200680	11	133059341	A	G	7599	0.13	0.03	0.00	0.00	20.87
rs9579372	5-acetylamino-6-formylamino-3-methyluracil	GCST90200680	13	29423473	T	G	7599	-0.07	0.02	0.00	0.00	19.80
rs4886649	5-acetylamino-6-formylamino-3-methyluracil	GCST90200680	15	75036254	C	T	7599	0.08	0.02	0.00	0.00	21.11
rs753070	5-acetylamino-6-formylamino-3-methyluracil	GCST90200680	16	8748030	A	G	7599	-0.42	0.09	0.00	0.00	23.87
rs12596723	5-acetylamino-6-formylamino-3-methyluracil	GCST90200680	16	76241549	G	A	7599	0.10	0.02	0.00	0.00	19.67
rs75758768	5-acetylamino-6-formylamino-3-methyluracil	GCST90200680	17	9176830	A	C	7599	0.41	0.09	0.00	0.00	21.20
rs72835912	5-acetylamino-6-formylamino-3-methyluracil	GCST90200680	17	16627105	C	T	7599	-0.32	0.07	0.00	0.00	21.87
rs118074685	5-acetylamino-6-formylamino-3-methyluracil	GCST90200680	17	35080621	C	T	7599	0.20	0.04	0.00	0.00	28.67
rs7252661	5-acetylamino-6-formylamino-3-methyluracil	GCST90200680	19	14702678	T	C	7599	-0.19	0.04	0.00	0.00	19.70
rs2298149	5-acetylamino-6-formylamino-3-methyluracil	GCST90200680	20	227248	A	G	7599	-0.08	0.02	0.00	0.00	24.76
rs141796796	Orotidine levels	GCST90200681	2	99289347	T	C	8017	0.36	0.08	0.00	0.00	21.22
rs79176805	Orotidine	GCST90200681	2	119167704	T	C	8017	0.30	0.06	0.00	0.00	23.73
rs12487905	Orotidine	GCST90200681	3	124802188	C	T	8017	-0.10	0.02	0.00	0.00	31.73
rs6783951	Orotidine	GCST90200681	3	179059268	G	A	8017	-0.07	0.01	0.00	0.00	21.34
rs145559850	Orotidine levels	GCST90200681	4	8735541	A	T	8017	2.75	0.53	0.00	0.00	27.02
rs6810412	Orotidine	GCST90200681	4	60718340	T	G	8017	-0.12	0.02	0.00	0.00	24.37
rs17000661	Orotidine	GCST90200681	4	75562237	C	G	8017	-0.18	0.04	0.00	0.00	22.43
rs183570792	Orotidine levels	GCST90200681	4	104080434	T	C	8017	0.44	0.10	0.00	0.00	20.07
rs77374967	Orotidine	GCST90200681	4	135107913	T	A	8017	-0.09	0.02	0.00	0.00	22.83
rs1373962	Orotidine	GCST90200681	5	84232044	C	T	8017	0.07	0.01	0.00	0.00	20.94
rs9470066	Orotidine	GCST90200681	6	11777471	C	T	8017	-0.09	0.02	0.00	0.00	19.63
rs655459	Orotidine	GCST90200681	6	151781147	G	T	8017	0.07	0.01	0.00	0.00	21.11
rs188221259	Orotidine levels	GCST90200681	6	158180786	G	A	8017	-0.17	0.04	0.00	0.00	20.33
rs73683290	Orotidine	GCST90200681	7	26345478	T	C	8017	0.22	0.05	0.00	0.00	20.86
rs12154408	Orotidine	GCST90200681	7	63932378	T	C	8017	0.14	0.03	0.00	0.00	21.23
rs28463404	Orotidine	GCST90200681	8	16504464	A	G	8017	-0.17	0.03	0.00	0.00	26.15
rs7387997	Orotidine	GCST90200681	8	53641400	T	G	8017	0.26	0.06	0.00	0.00	19.77
rs7833654	Orotidine	GCST90200681	8	60341733	T	C	8017	0.11	0.02	0.00	0.00	19.98
rs4766578	Orotidine	GCST90200681	12	111466567	A	T	8017	-0.08	0.01	0.00	0.00	30.32
rs16962229	Orotidine	GCST90200681	15	32967185	T	A	8017	0.09	0.02	0.00	0.00	20.84
rs77924615	Orotidine	GCST90200681	16	20381010	A	G	8017	-0.11	0.02	0.00	0.00	36.58
rs34869093	Orotidine	GCST90200681	16	51723331	G	A	8017	-0.07	0.02	0.00	0.00	22.19

rs2082038	Orotidine	GCST90200681	16	84573033	T	C	8017	-0.08	0.02	0.00	0.00	22.95
rs11541956	Orotidine	GCST90200681	17	75131253	A	G	8017	-1.69	0.04	0.00	0.17	#####
rs62620707	Orotidine	GCST90200681	17	75146669	A	G	8017	0.19	0.04	0.00	0.00	21.25
rs75355656	Orotidine	GCST90200681	17	77854325	C	T	8017	1.17	0.26	0.00	0.00	19.62
rs181421	Orotidine	GCST90200681	18	35414790	C	T	8017	-0.08	0.02	0.00	0.00	23.98
rs3909678	Orotidine	GCST90200681	18	76323736	A	G	8017	-0.18	0.04	0.00	0.00	19.66
rs6509656	Orotidine	GCST90200681	19	52628568	T	C	8017	-0.08	0.02	0.00	0.00	20.04
rs148262083	3-methylcytidine levels	GCST90200682	1	30891649	A	G	8117	-0.23	0.05	0.00	0.00	20.16
rs35157790	3-methylcytidine levels	GCST90200682	1	241930162	C	T	8117	-0.08	0.02	0.00	0.00	19.57
rs139270435	3-methylcytidine levels	GCST90200682	2	3431954	C	A	8117	-0.22	0.05	0.00	0.00	20.32
rs113203688	3-methylcytidine levels	GCST90200682	2	27049809	A	C	8117	-0.41	0.09	0.00	0.00	20.85
rs186919445	3-methylcytidine levels	GCST90200682	2	241453433	C	T	8117	0.90	0.19	0.00	0.00	22.45
rs1869692	3-methylcytidine levels	GCST90200682	4	15212280	G	A	8117	-0.08	0.02	0.00	0.00	26.90
rs4698390	3-methylcytidine levels	GCST90200682	4	15492131	T	C	8117	0.82	0.02	0.00	0.18	#####
rs4283655	3-methylcytidine levels	GCST90200682	4	15737865	G	A	8117	0.28	0.03	0.00	0.01	79.51
rs71601500	3-methylcytidine levels	GCST90200682	4	15823119	T	C	8117	-0.16	0.03	0.00	0.00	27.14
rs72616193	3-methylcytidine levels	GCST90200682	4	15847685	A	G	8117	0.24	0.05	0.00	0.00	25.92
rs13360136	3-methylcytidine levels	GCST90200682	5	9876198	T	C	8117	0.11	0.03	0.00	0.00	19.92
rs186401423	3-methylcytidine levels	GCST90200682	7	103779822	A	G	8117	0.17	0.04	0.00	0.00	22.89
rs73381355	3-methylcytidine levels	GCST90200682	8	144126114	T	G	8117	0.15	0.03	0.00	0.00	31.58
rs117230316	3-methylcytidine levels	GCST90200682	13	90645507	T	A	8117	-0.24	0.05	0.00	0.00	22.19
rs11159052	3-methylcytidine levels	GCST90200682	14	73988686	T	C	8117	0.07	0.01	0.00	0.00	20.07
rs80174023	3-methylcytidine levels	GCST90200682	14	77906074	T	C	8117	0.20	0.04	0.00	0.00	21.32
rs74249182	3-methylcytidine levels	GCST90200682	16	5233230	T	C	8117	-0.19	0.04	0.00	0.00	23.17
rs12925123	3-methylcytidine levels	GCST90200682	16	27088174	T	C	8117	-0.09	0.02	0.00	0.00	20.61
rs7359846	3-methylcytidine levels	GCST90200682	19	22432705	T	A	8117	0.09	0.02	0.00	0.00	20.26
rs4802201	3-methylcytidine levels	GCST90200682	19	43853890	T	C	8117	-0.07	0.01	0.00	0.00	20.82
rs116228357	N-acetylcitrulline levels	GCST90200683	1	11865675	T	C	7324	-0.20	0.04	0.00	0.00	19.77
rs74446340	N-acetylcitrulline levels	GCST90200683	1	96462586	G	T	7324	0.46	0.10	0.00	0.00	20.62

rs11898850	N- acetylcytrulline levels	GCST90200683	2	72972490	A	C	7324	-0.10	0.02	0.00	0.01	38.99
rs13417094	N- acetylcytrulline levels	GCST90200683	2	73277974	T	C	7324	-0.25	0.02	0.00	0.01	111.18
rs7573275	N- acetylcytrulline levels	GCST90200683	2	73325414	A	G	7324	0.72	0.02	0.00	0.22	#####
rs76679188	N- acetylcytrulline levels	GCST90200683	5	56283851	C	G	7324	0.15	0.03	0.00	0.00	19.65
rs6893119	N- acetylcytrulline levels	GCST90200683	5	166750199	G	A	7324	0.09	0.02	0.00	0.00	20.79
rs6921138	N- acetylcytrulline levels	GCST90200683	6	6909567	C	G	7324	0.10	0.02	0.00	0.00	23.23
rs1165201	N- acetylcytrulline levels	GCST90200683	6	25874595	C	A	7324	0.09	0.02	0.00	0.00	24.67
rs52959622 9	N- acetylcytrulline levels	GCST90200683	6	158216131	T	C	7324	-0.33	0.08	0.00	0.00	19.52
rs13955141 2	N- acetylcytrulline levels	GCST90200683	7	9654822	C	G	7324	0.37	0.08	0.00	0.00	21.81
rs61873572	N- acetylcytrulline levels	GCST90200683	10	117142193	C	T	7324	0.08	0.02	0.00	0.00	22.29
rs12419675	N- acetylcytrulline levels	GCST90200683	11	23533707	A	T	7324	-0.34	0.07	0.00	0.00	21.10
rs956092	N- acetylcytrulline levels	GCST90200683	11	44387612	G	A	7324	0.12	0.03	0.00	0.00	22.24
rs28892916	N- acetylcytrulline levels	GCST90200683	11	55039572	T	C	7324	0.12	0.03	0.00	0.00	23.20
rs11684927 2	N- acetylcytrulline levels	GCST90200683	12	119421006	T	A	7324	0.65	0.13	0.00	0.00	24.85
rs79400061	N- acetylcytrulline levels	GCST90200683	14	62612402	C	T	7324	0.18	0.04	0.00	0.00	19.73
rs11629115	N- acetylcytrulline levels	GCST90200683	14	99648810	C	T	7324	-0.08	0.02	0.00	0.00	20.60
rs11141023 5	N- acetylcytrulline levels	GCST90200683	14	105441757	G	A	7324	-0.19	0.04	0.00	0.00	19.74
rs11693689 7	N- acetylcytrulline levels	GCST90200683	16	14488882	G	A	7324	0.38	0.08	0.00	0.00	22.45
rs11711908 0	N- acetylcytrulline levels	GCST90200683	16	25306964	C	T	7324	0.31	0.07	0.00	0.00	19.73
rs14462347 2	N- acetylcytrulline levels	GCST90200683	18	46195648	T	C	7324	0.34	0.07	0.00	0.00	21.94
rs11138908 0	N- acetylcytrulline levels	GCST90200683	19	4451700	T	C	7324	0.43	0.10	0.00	0.00	20.20
rs6803573	N-acetyl- aspartyl- glutamate (naag) levels	GCST90200684	3	65673177	T	C	7705	-0.09	0.02	0.00	0.00	23.00
rs62270466	N-acetyl- aspartyl- glutamate (naag) levels	GCST90200684	3	127746779	T	C	7705	0.30	0.07	0.00	0.00	20.27

rs10472788	N-acetyl- aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	5	31869376	G	A	7705	-0.25	0.06	0.00	0.00	19.66
rs144273978	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	7	152593154	T	C	7705	-0.12	0.03	0.00	0.00	19.97
rs112924400	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	8	70093854	C	T	7705	-0.18	0.04	0.00	0.00	19.62
rs12002890	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	9	13636622	C	G	7705	0.11	0.02	0.00	0.00	24.70
rs2821137	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	9	110825540	A	G	7705	0.08	0.02	0.00	0.00	19.94
rs139339220	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	10	64582168	A	G	7705	0.15	0.03	0.00	0.00	20.09
rs77368905	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	10	68140082	A	G	7705	0.20	0.04	0.00	0.00	22.50
rs56132601	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	11	46995602	A	C	7705	-0.15	0.03	0.00	0.00	26.47
rs12275064	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	11	49131045	T	G	7705	-0.32	0.02	0.00	0.02	194.14
rs3872563	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	11	49150169	C	T	7705	0.58	0.01	0.00	0.16	#####
rs77846572	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	11	56672979	G	A	7705	0.35	0.08	0.00	0.00	20.39
rs11228841	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	11	56919555	G	A	7705	-0.17	0.02	0.00	0.01	50.35
rs55668957	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	11	57438278	T	C	7705	0.10	0.02	0.00	0.00	21.00
rs148529433	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	13	74523544	C	T	7705	0.33	0.07	0.00	0.00	22.77
rs78997778	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	14	103541259	A	G	7705	-0.15	0.03	0.00	0.00	21.02
rs117206063	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	15	45619184	T	G	7705	0.29	0.06	0.00	0.00	24.27
rs612124	aspartyl- glutamate (naag) levels N-acetyl-	GCST90200684	18	78312987	C	G	7705	-0.07	0.02	0.00	0.00	20.18
rs73621912	aspartyl- glutamate (naag) levels	GCST90200684	20	37594286	A	G	7705	-0.14	0.03	0.00	0.00	20.24

rs6661669	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	1	62720298	C	T	8253	0.07	0.02	0.00	0.00	23.24
rs10747457	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	1	91571367	G	A	8253	-0.09	0.02	0.00	0.00	22.05
rs35179427	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	1	95205332	A	G	8253	-0.15	0.03	0.00	0.00	31.20
rs555594976	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	2	92079232	T	C	8253	-3.38	0.69	0.00	0.00	23.83
rs10197572	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	2	167565198	C	T	8253	-0.31	0.07	0.00	0.00	20.10
rs2041081	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	2	198378648	T	C	8253	0.07	0.02	0.00	0.00	20.00
rs35545453	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	3	68982812	C	T	8253	-0.36	0.08	0.00	0.00	21.18
rs9870057	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	3	133243574	G	A	8253	-0.32	0.07	0.00	0.00	22.29
rs4927890	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	3	196117160	G	T	8253	-0.10	0.02	0.00	0.00	20.66
rs138664701	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	4	95161164	C	T	8253	-0.43	0.09	0.00	0.00	20.68
rs79629507	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	4	126372185	T	C	8253	-0.16	0.04	0.00	0.00	19.58
rs1862568	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	5	62671138	G	C	8253	-0.08	0.02	0.00	0.00	24.77
rs77525775	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	5	109723624	T	C	8253	0.23	0.05	0.00	0.00	19.79
rs184489125	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	5	120844111	G	A	8253	-0.35	0.08	0.00	0.00	20.38
rs73285484	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	5	121414731	G	C	8253	-0.15	0.03	0.00	0.00	20.02
rs17081005	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	6	151275617	T	C	8253	-0.21	0.05	0.00	0.00	19.51
rs38854	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	7	116717157	T	C	8253	-0.07	0.02	0.00	0.00	20.04
rs192510422	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	8	49709404	G	A	8253	0.57	0.12	0.00	0.00	21.55

rs10969279	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	9	29594179	T	C	8253	0.08	0.02	0.00	0.00	25.21
rs7043767	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	9	33430448	T	C	8253	0.07	0.02	0.00	0.00	20.13
rs914938	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	10	114540851	G	C	8253	0.14	0.03	0.00	0.00	23.40
rs2238001	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	11	61757035	C	T	8253	0.14	0.02	0.00	0.00	39.79
rs174528	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	11	61776027	C	T	8253	-0.62	0.01	0.00	0.18	#####
rs2668899	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	11	61954167	G	A	8253	-0.12	0.02	0.00	0.01	50.57
rs58411334	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	11	75756305	T	G	8253	-0.11	0.03	0.00	0.00	19.51
rs964184	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	11	116778201	C	G	8253	-0.11	0.02	0.00	0.00	22.82
rs558406	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	12	187079	C	A	8253	0.14	0.03	0.00	0.00	24.03
rs17116404	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	14	22321683	C	A	8253	0.10	0.02	0.00	0.00	20.16
rs7149812	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	14	95592252	C	A	8253	-0.07	0.02	0.00	0.00	20.32
rs56257608	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	15	101107163	T	C	8253	-0.07	0.02	0.00	0.00	21.89
rs12928099	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	16	15056648	A	C	8253	0.12	0.02	0.00	0.01	55.20
rs74025961	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	16	71342018	T	C	8253	0.17	0.04	0.00	0.00	21.53
rs2194294	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	16	76207515	G	A	8253	0.07	0.02	0.00	0.00	20.62
rs897458	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	17	17608287	C	T	8253	-0.08	0.02	0.00	0.00	28.33
rs58542926	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	19	19268740	T	C	8253	-0.18	0.03	0.00	0.00	36.38
rs6104733	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	20	1197325	C	T	8253	0.09	0.02	0.00	0.00	19.52

rs62207051	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	20	32814773	G	A	8253	0.15	0.03	0.00	0.00	19.67
rs11690388	1-stearoyl-2-arachidonoyl-gpc (18:0/20:4) levels	GCST90200685	21	36703327	T	C	8253	-0.26	0.06	0.00	0.00	20.40
rs17130957	Bilirubin (E,E) levels	GCST90200686	1	90053610	G	A	8263	-0.25	0.05	0.00	0.00	21.69
rs7567943	Bilirubin (E,E) levels	GCST90200686	2	10284826	G	A	8263	-0.09	0.02	0.00	0.00	20.01
rs13815179	Bilirubin (E,E) levels	GCST90200686	2	190717541	T	C	8263	-0.33	0.07	0.00	0.00	19.88
rs6759896	Bilirubin (E,E) levels	GCST90200686	2	233302326	A	G	8263	-0.09	0.02	0.00	0.00	33.65
rs887829	Bilirubin (E,E) levels	GCST90200686	2	233759924	T	C	8263	0.60	0.01	0.00	0.16	#####
rs72902031	Bilirubin (E,E) levels	GCST90200686	3	76983681	G	T	8263	0.27	0.06	0.00	0.00	23.28
rs76970392	Bilirubin (E,E) levels	GCST90200686	3	104498870	C	T	8263	0.36	0.08	0.00	0.00	21.21
rs11451139	Bilirubin (E,E) levels	GCST90200686	4	44096995	T	C	8263	-0.17	0.04	0.00	0.00	20.70
rs6835992	Bilirubin (E,E) levels	GCST90200686	4	75571607	G	A	8263	-0.07	0.02	0.00	0.00	20.77
rs1864002	Bilirubin (E,E) levels	GCST90200686	5	142358805	G	A	8263	0.20	0.05	0.00	0.00	19.51
rs35949573	Bilirubin (E,E) levels	GCST90200686	5	170180365	A	C	8263	0.19	0.04	0.00	0.00	19.95
rs4448084	Bilirubin (E,E) levels	GCST90200686	6	31869726	G	C	8263	-0.24	0.05	0.00	0.00	23.49
rs55785951	Bilirubin (E,E) levels	GCST90200686	7	83303475	G	C	8263	0.17	0.04	0.00	0.00	19.83
rs14872959	Bilirubin (E,E) levels	GCST90200686	7	147834193	A	G	8263	-0.19	0.04	0.00	0.00	19.88
rs1124174	Bilirubin (E,E) levels	GCST90200686	7	155223286	G	A	8263	-0.13	0.03	0.00	0.00	21.53
rs62513764	Bilirubin (E,E) levels	GCST90200686	8	67459095	C	T	8263	-0.23	0.05	0.00	0.00	23.49
rs1871395	Bilirubin (E,E) levels	GCST90200686	12	21199381	G	A	8263	0.13	0.02	0.00	0.01	41.69
rs943385	Bilirubin (E,E) levels	GCST90200686	13	22982302	C	T	8263	-0.08	0.02	0.00	0.00	23.31
rs34103192	Bilirubin (E,E) levels	GCST90200686	13	67135532	T	C	8263	0.19	0.04	0.00	0.00	20.67
rs14378959	Bilirubin (E,E) levels	GCST90200686	14	57343563	G	C	8263	-0.08	0.02	0.00	0.00	20.96
rs1740643	Bilirubin (E,E) levels	GCST90200686	14	95419405	A	T	8263	0.09	0.02	0.00	0.00	20.68
rs736780	Bilirubin (E,E) levels	GCST90200686	15	52811980	G	A	8263	-0.10	0.02	0.00	0.00	24.15
rs13902574	Bilirubin (E,E) levels	GCST90200686	16	19362153	A	C	8263	0.29	0.06	0.00	0.00	19.62
rs4533344	Bilirubin (E,E) levels	GCST90200686	17	4723886	T	C	8263	-0.14	0.02	0.00	0.00	30.68
rs11077766	Bilirubin (E,E) levels	GCST90200686	17	74881969	C	T	8263	-0.07	0.02	0.00	0.00	19.93
rs66528651	Bilirubin (E,E) levels	GCST90200686	18	45598920	G	C	8263	0.14	0.03	0.00	0.00	19.63
rs10775495	Bilirubin (E,E) levels	GCST90200686	18	50276601	G	A	8263	0.08	0.02	0.00	0.00	20.22
rs239649	Bilirubin (E,E) levels	GCST90200686	21	27423056	C	T	8263	0.07	0.02	0.00	0.00	21.07
rs14562205	Bilirubin (E,Z or Z,E) levels	GCST90200687	1	202329080	C	T	8238	0.22	0.05	0.00	0.00	21.61
rs2884388	Bilirubin (E,Z or Z,E) levels	GCST90200687	1	233899416	T	G	8238	0.10	0.02	0.00	0.00	20.17
rs6705993	Bilirubin (E,Z or Z,E) levels	GCST90200687	2	233302980	A	G	8238	-0.10	0.02	0.00	0.01	41.65
rs2741044	Bilirubin (E,Z or Z,E) levels	GCST90200687	2	233670722	A	G	8238	0.59	0.02	0.00	0.16	#####
rs10929321	Bilirubin (E,Z or Z,E) levels	GCST90200687	2	233962699	A	G	8238	-0.07	0.02	0.00	0.00	19.72

rs12629729	Bilirubin (E,Z or Z,E) levels	GCST90200687	3	24995524	C	G	8238	-0.09	0.02	0.00	0.00	22.26
rs12637719	Bilirubin (E,Z or Z,E) levels	GCST90200687	3	85279201	G	C	8238	-0.19	0.04	0.00	0.00	22.51
rs14264708 2	Bilirubin (E,Z or Z,E) levels	GCST90200687	8	35598902	T	G	8238	-0.24	0.05	0.00	0.00	19.98
rs35766475	Bilirubin (E,Z or Z,E) levels	GCST90200687	8	114517609	T	C	8238	-0.11	0.02	0.00	0.00	21.27
rs7864923	Bilirubin (E,Z or Z,E) levels	GCST90200687	9	117061403	T	C	8238	0.07	0.02	0.00	0.00	21.27
rs10819244	Bilirubin (E,Z or Z,E) levels	GCST90200687	9	126872935	A	G	8238	0.12	0.03	0.00	0.00	19.65
rs4751140	Bilirubin (E,Z or Z,E) levels	GCST90200687	10	129865844	C	T	8238	-0.07	0.02	0.00	0.00	20.53
rs1871395	Bilirubin (E,Z or Z,E) levels	GCST90200687	12	21199381	G	A	8238	0.22	0.02	0.00	0.01	113.11
rs9317624	Bilirubin (E,Z or Z,E) levels	GCST90200687	13	66932802	A	C	8238	0.07	0.02	0.00	0.00	20.82
rs41295332	Bilirubin (E,Z or Z,E) levels	GCST90200687	14	24262508	T	C	8238	0.15	0.03	0.00	0.00	22.32
rs72729408	Bilirubin (E,Z or Z,E) levels	GCST90200687	15	39798012	G	A	8238	0.20	0.04	0.00	0.00	22.63
rs4533344	Bilirubin (E,Z or Z,E) levels	GCST90200687	17	4723886	T	C	8238	-0.12	0.02	0.00	0.00	23.57
rs11704605 6	Bilirubin (E,Z or Z,E) levels	GCST90200687	18	7922108	G	A	8238	-0.31	0.07	0.00	0.00	20.04
rs6046367	Bilirubin (E,Z or Z,E) levels	GCST90200687	20	2056308	G	A	8238	-0.10	0.02	0.00	0.00	23.15
rs206802	Androsterone glucuronide levels	GCST90200688	2	31406089	G	C	7980	-0.10	0.02	0.00	0.00	27.75
rs72794638	Androsterone glucuronide levels	GCST90200688	2	31561978	C	T	7980	-0.33	0.05	0.00	0.01	42.98
rs9282858	Androsterone glucuronide levels	GCST90200688	2	31580756	T	C	7980	-0.34	0.04	0.00	0.01	84.91
rs14535195 2	Androsterone glucuronide levels	GCST90200688	3	12108398	G	A	7980	-0.35	0.07	0.00	0.00	21.96
rs11531653 5	Androsterone glucuronide levels	GCST90200688	4	21541530	T	G	7980	0.15	0.03	0.00	0.00	20.58
rs34092423	Androsterone glucuronide levels	GCST90200688	4	68443582	T	G	7980	0.08	0.02	0.00	0.00	27.10
rs6901007	Androsterone glucuronide levels	GCST90200688	6	42925096	T	G	7980	-0.06	0.01	0.00	0.00	19.94
rs11773684 0	Androsterone glucuronide levels	GCST90200688	7	37464604	T	G	7980	-0.15	0.03	0.00	0.00	19.80
rs14898237 7	Androsterone glucuronide levels	GCST90200688	7	99477415	C	T	7980	-0.19	0.04	0.00	0.00	27.32
rs3748136	Androsterone glucuronide levels	GCST90200688	8	9172650	A	G	7980	-0.08	0.02	0.00	0.00	24.60
rs56704569 9	Androsterone glucuronide levels	GCST90200688	9	85878798	C	A	7980	0.21	0.04	0.00	0.00	33.32
rs10993942	Androsterone glucuronide levels	GCST90200688	9	134110697	T	C	7980	0.27	0.06	0.00	0.00	21.27
rs7085870	Androsterone glucuronide levels	GCST90200688	10	123262462	C	T	7980	-0.30	0.06	0.00	0.00	25.24
rs15017833 1	Androsterone glucuronide levels	GCST90200688	11	9934359	T	C	7980	0.14	0.03	0.00	0.00	21.59
rs2178682	Androsterone glucuronide levels	GCST90200688	11	19953914	A	G	7980	-0.12	0.02	0.00	0.00	24.79

rs11192702 1	Androsterone glucuronide levels	GCST90200688	11	47190017	A	G	7980	0.07	0.02	0.00	0.00	21.42
rs11231098	Androsterone glucuronide levels	GCST90200688	11	62472391	G	C	7980	-0.18	0.04	0.00	0.00	23.91
rs17713514	Androsterone glucuronide levels	GCST90200688	11	63035630	T	C	7980	1.01	0.03	0.00	0.16	#####
rs540582	Androsterone glucuronide levels	GCST90200688	11	63312298	C	T	7980	-0.14	0.01	0.00	0.01	113.69
rs342174	Androsterone glucuronide levels	GCST90200688	12	62671365	A	G	7980	-0.09	0.02	0.00	0.00	21.28
rs7157672	Androsterone glucuronide levels	GCST90200688	14	35502800	A	G	7980	0.07	0.02	0.00	0.00	23.22
rs35801822	Androsterone glucuronide levels	GCST90200688	16	2679949	G	A	7980	0.12	0.03	0.00	0.00	20.69
rs34292086	Androsterone glucuronide levels	GCST90200688	17	15249976	C	T	7980	0.14	0.03	0.00	0.00	24.58
rs2020164	Androsterone glucuronide levels	GCST90200688	18	7485434	C	G	7980	0.08	0.02	0.00	0.00	22.03
rs751894	Androsterone glucuronide levels	GCST90200688	18	63089651	T	C	7980	-0.08	0.02	0.00	0.00	21.03
rs212100	Androsterone glucuronide levels	GCST90200688	19	47873738	C	T	7980	-0.17	0.02	0.00	0.01	88.55
rs15044110 4	Androsterone glucuronide levels	GCST90200688	22	20998206	C	T	7980	-0.22	0.05	0.00	0.00	20.29
rs72864158	N6- methyllysine levels	GCST90200689	1	10184730	A	C	8299	-0.27	0.06	0.00	0.00	23.97
rs66482844	N6- methyllysine levels	GCST90200689	1	81193967	T	C	8299	-0.20	0.04	0.00	0.00	22.98
rs35528262	N6- methyllysine levels	GCST90200689	2	73727998	C	G	8299	0.08	0.02	0.00	0.00	24.85
rs6755215	N6- methyllysine levels	GCST90200689	2	237594407	G	A	8299	0.39	0.08	0.00	0.00	21.47
rs9289617	N6- methyllysine levels	GCST90200689	3	140971521	A	G	8299	-0.37	0.08	0.00	0.00	20.34
rs11566822 7	N6- methyllysine levels	GCST90200689	3	143209502	A	G	8299	-0.35	0.08	0.00	0.00	20.56
rs13910529 6	N6- methyllysine levels	GCST90200689	4	149584432	G	A	8299	0.17	0.04	0.00	0.00	22.83
rs18733649 0	N6- methyllysine levels	GCST90200689	5	21332829	G	C	8299	0.27	0.06	0.00	0.00	21.35
rs56391006	N6- methyllysine levels	GCST90200689	5	177462022	A	G	8299	-0.30	0.07	0.00	0.00	19.97
rs573359	N6- methyllysine levels	GCST90200689	6	81098659	A	G	8299	-0.08	0.02	0.00	0.00	20.23
rs11698488 0	N6- methyllysine levels	GCST90200689	7	108650724	C	T	8299	0.20	0.04	0.00	0.00	20.30
rs62481075	N6- methyllysine levels	GCST90200689	7	128262802	T	C	8299	0.18	0.04	0.00	0.00	19.60

rs380423	N6-methyllysine levels	GCST90200689	8	26571492	A	C	8299	0.16	0.04	0.00	0.00	20.29
rs10808427	N6-methyllysine levels	GCST90200689	8	108679671	C	T	8299	-0.08	0.02	0.00	0.00	22.86
rs2891137	N6-methyllysine levels	GCST90200689	9	19827848	G	C	8299	0.08	0.02	0.00	0.00	20.16
rs72842528	N6-methyllysine levels	GCST90200689	10	97935714	A	G	8299	0.31	0.06	0.00	0.00	28.66
rs4917820	N6-methyllysine levels	GCST90200689	10	98348779	T	C	8299	0.67	0.01	0.00	0.20	#####
rs11517049	N6-methyllysine levels	GCST90200689	10	98449905	T	G	8299	0.41	0.04	0.00	0.01	116.79
rs11189713	N6-methyllysine levels	GCST90200689	10	98605856	T	C	8299	-0.35	0.04	0.00	0.01	65.21
rs151271070	N6-methyllysine levels	GCST90200689	10	99383692	T	C	8299	-0.39	0.06	0.00	0.00	41.13
rs116875976	N6-methyllysine levels	GCST90200689	10	99422468	A	G	8299	-0.32	0.06	0.00	0.00	24.88
rs144858221	N6-methyllysine levels	GCST90200689	10	99438205	T	G	8299	0.27	0.05	0.00	0.00	24.54
rs68179623	N6-methyllysine levels	GCST90200689	10	129864702	G	A	8299	-0.16	0.04	0.00	0.00	20.39
rs11821873	N6-methyllysine levels	GCST90200689	11	129425480	G	A	8299	-0.07	0.02	0.00	0.00	20.10
rs9509459	N6-methyllysine levels	GCST90200689	13	20936517	A	G	8299	-0.14	0.03	0.00	0.00	20.05
rs62049030	N6-methyllysine levels	GCST90200689	16	70435354	T	C	8299	0.15	0.03	0.00	0.00	19.58
rs10164318	N6-methyllysine levels	GCST90200689	19	32968392	G	T	8299	0.15	0.02	0.00	0.01	82.20
rs140094156	N6-methyllysine levels	GCST90200689	19	52809791	T	C	8299	0.21	0.04	0.00	0.00	21.41
rs3746805	N6-methyllysine levels	GCST90200689	20	763806	A	G	8299	-0.07	0.02	0.00	0.00	21.08
rs6108309	N6-methyllysine levels	GCST90200689	20	1022613	G	A	8299	-0.10	0.02	0.00	0.00	25.09
rs6111089	N6-methyllysine levels	GCST90200689	20	16394563	C	T	8299	-0.11	0.02	0.00	0.00	21.41
rs117178571	N6-methyllysine levels	GCST90200689	21	18634924	A	G	8299	0.29	0.06	0.00	0.00	22.28
rs4077498	N6-methyllysine levels	GCST90200689	22	45999048	T	C	8299	-0.07	0.02	0.00	0.00	20.55
rs2840557	N-acetyl-1-methylhistidine levels	GCST90200690	1	38348285	C	T	7588	-0.11	0.02	0.00	0.00	20.02
rs12028771	N-acetyl-1-methylhistidine levels	GCST90200690	1	69806380	G	A	7588	-0.12	0.02	0.00	0.00	27.17
rs113864403	N-acetyl-1-methylhistidine levels	GCST90200690	1	86763822	C	A	7588	0.22	0.04	0.00	0.00	30.61

rs72685579	N-acetyl-1-methylhistidine levels	GCST90200690	1	105207788	C	T	7588	-0.23	0.05	0.00	0.00	24.61
rs60304320	N-acetyl-1-methylhistidine levels	GCST90200690	1	147052477	G	A	7588	-0.09	0.02	0.00	0.00	21.13
rs73943615	N-acetyl-1-methylhistidine levels	GCST90200690	2	56881117	T	C	7588	0.09	0.02	0.00	0.00	22.30
rs11898850	N-acetyl-1-methylhistidine levels	GCST90200690	2	72972490	A	C	7588	-0.11	0.02	0.00	0.01	44.07
rs13417094	N-acetyl-1-methylhistidine levels	GCST90200690	2	73277974	T	C	7588	-0.25	0.02	0.00	0.01	114.86
rs7573275	N-acetyl-1-methylhistidine levels	GCST90200690	2	73325414	A	G	7588	0.67	0.02	0.00	0.20	#####
rs72855963	N-acetyl-1-methylhistidine levels	GCST90200690	2	149674909	C	T	7588	-0.16	0.03	0.00	0.00	28.03
rs182116457	N-acetyl-1-methylhistidine levels	GCST90200690	2	231664533	T	C	7588	-0.42	0.10	0.00	0.00	19.60
rs4861128	N-acetyl-1-methylhistidine levels	GCST90200690	4	41651936	A	G	7588	0.08	0.02	0.00	0.00	20.53
rs374816014	N-acetyl-1-methylhistidine levels	GCST90200690	5	1160915	G	A	7588	0.36	0.08	0.00	0.00	22.04
rs62331274	N-acetyl-1-methylhistidine levels	GCST90200690	5	1193812	C	G	7588	0.10	0.02	0.00	0.00	30.70
rs7702204	N-acetyl-1-methylhistidine levels	GCST90200690	5	110198532	A	G	7588	0.09	0.02	0.00	0.00	19.92
rs6556290	N-acetyl-1-methylhistidine levels	GCST90200690	5	157875081	C	T	7588	-0.10	0.02	0.00	0.00	25.17
rs75355668	N-acetyl-1-methylhistidine levels	GCST90200690	5	180175385	G	C	7588	-0.11	0.02	0.00	0.00	22.85
rs1780966	N-acetyl-1-methylhistidine levels	GCST90200690	6	25859205	C	T	7588	0.10	0.02	0.00	0.00	29.71
rs188080324	N-acetyl-1-methylhistidine levels	GCST90200690	8	121276999	A	T	7588	0.30	0.07	0.00	0.00	20.23
rs11258111	N-acetyl-1-methylhistidine levels	GCST90200690	10	12991961	C	T	7588	-0.10	0.02	0.00	0.00	20.54
rs72786941	N-acetyl-1-methylhistidine levels	GCST90200690	10	36307565	T	A	7588	0.25	0.05	0.00	0.00	23.68
rs17667035	N-acetyl-1-methylhistidine levels	GCST90200690	10	118994819	T	C	7588	0.18	0.04	0.00	0.00	20.26
rs7108760	N-acetyl-1-methylhistidine levels	GCST90200690	11	67647176	G	A	7588	0.14	0.02	0.00	0.01	44.43
rs1945872	N-acetyl-1-methylhistidine levels	GCST90200690	11	91964218	G	T	7588	0.36	0.08	0.00	0.00	22.07
rs72992869	N-acetyl-1-methylhistidine levels	GCST90200690	11	99941490	C	A	7588	0.25	0.05	0.00	0.00	26.10
rs1792802	N-acetyl-1-methylhistidine levels	GCST90200690	11	110343657	C	A	7588	0.09	0.02	0.00	0.00	21.03
rs4964249	N-acetyl-1-methylhistidine levels	GCST90200690	12	108319807	C	A	7588	0.16	0.04	0.00	0.00	19.66

rs79203144	N-acetyl-1-methylhistidine levels	GCST90200690	12	117670111	C	T	7588	-0.36	0.08	0.00	0.00	22.90
rs1536948	N-acetyl-1-methylhistidine levels	GCST90200690	13	44323702	A	G	7588	-0.18	0.04	0.00	0.00	25.02
rs8012700	N-acetyl-1-methylhistidine levels	GCST90200690	14	20977285	G	A	7588	0.26	0.06	0.00	0.00	22.81
rs12947874	N-acetyl-1-methylhistidine levels	GCST90200690	17	40102850	G	A	7588	-0.09	0.02	0.00	0.00	20.09
rs4802238	N-acetyl-1-methylhistidine levels	GCST90200690	19	44828468	T	C	7588	-0.08	0.02	0.00	0.00	22.92
rs41304036	N-delta-acetylornithine levels	GCST90200691	1	248324399	A	G	8259	-0.29	0.06	0.00	0.00	22.47
rs11898850	N-delta-acetylornithine levels	GCST90200691	2	72972490	A	C	8259	0.08	0.02	0.00	0.00	28.57
rs6546815	N-delta-acetylornithine levels	GCST90200691	2	73278777	T	A	8259	0.24	0.02	0.00	0.01	118.64
rs7573275	N-delta-acetylornithine levels	GCST90200691	2	73325414	A	G	8259	-0.68	0.02	0.00	0.20	#####
rs13030971	N-delta-acetylornithine levels	GCST90200691	2	79010566	G	C	8259	0.12	0.03	0.00	0.00	19.53
rs74733828	N-delta-acetylornithine levels	GCST90200691	2	230219556	T	C	8259	-0.34	0.08	0.00	0.00	19.77
rs146854747	N-delta-acetylornithine levels	GCST90200691	3	74581032	T	C	8259	-0.46	0.10	0.00	0.00	22.28
rs61794347	N-delta-acetylornithine levels	GCST90200691	4	10761434	T	C	8259	-0.08	0.02	0.00	0.00	23.11
rs72722720	N-delta-acetylornithine levels	GCST90200691	4	138879437	T	C	8259	-0.33	0.07	0.00	0.00	22.69
rs77419727	N-delta-acetylornithine levels	GCST90200691	4	175040575	T	C	8259	-0.19	0.04	0.00	0.00	20.13
rs7719875	N-delta-acetylornithine levels	GCST90200691	5	1189973	G	A	8259	0.07	0.02	0.00	0.00	22.63
rs145023524	N-delta-acetylornithine levels	GCST90200691	6	43851309	A	G	8259	-0.38	0.09	0.00	0.00	19.77
rs115114708	N-delta-acetylornithine levels	GCST90200691	6	48007328	T	C	8259	0.28	0.06	0.00	0.00	22.07
rs150291437	N-delta-acetylornithine levels	GCST90200691	6	64172983	T	C	8259	0.33	0.07	0.00	0.00	19.69
rs117262453	N-delta-acetylornithine levels	GCST90200691	7	22386422	T	C	8259	0.41	0.08	0.00	0.00	26.48
rs150650120	N-delta-acetylornithine levels	GCST90200691	9	79652200	C	T	8259	-0.12	0.03	0.00	0.00	20.42
rs17127885	N-delta-acetylornithine levels	GCST90200691	10	110733458	T	C	8259	0.13	0.03	0.00	0.00	20.25
rs522774	N-delta-acetylornithine levels	GCST90200691	11	29981055	C	A	8259	0.08	0.02	0.00	0.00	19.72
rs79673002	N-delta-acetylornithine levels	GCST90200691	13	64340729	G	A	8259	-0.15	0.03	0.00	0.00	21.52

rs392721	N-delta-acetylornithine levels	GCST90200691	16	85768160	A	G	8259	-0.11	0.02	0.00	0.00	22.14
rs117218602	N-delta-acetylornithine levels	GCST90200691	17	77769206	A	G	8259	0.29	0.06	0.00	0.00	20.04
rs111297421	N-delta-acetylornithine levels	GCST90200691	18	56972584	G	A	8259	-0.24	0.05	0.00	0.00	21.75
rs138817632	N-delta-acetylornithine levels	GCST90200691	19	14068269	G	A	8259	0.08	0.02	0.00	0.00	26.31
rs112957690	N-delta-acetylornithine levels	GCST90200691	19	54401514	A	G	8259	-0.31	0.07	0.00	0.00	20.78
rs79747035	N-delta-acetylornithine levels	GCST90200691	21	30909856	C	T	8259	-0.21	0.05	0.00	0.00	20.28
rs5757301	N-delta-acetylornithine levels	GCST90200691	22	38829336	G	A	8259	-0.07	0.02	0.00	0.00	20.03
rs11207997	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	1	62596235	T	C	8238	-0.08	0.02	0.00	0.00	23.57
rs112414147	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	1	199512673	C	T	8238	-0.24	0.05	0.00	0.00	20.80
rs925802	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	2	51644364	G	A	8238	-0.09	0.02	0.00	0.00	19.61
rs10176700	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	2	167557764	C	G	8238	-0.27	0.06	0.00	0.00	19.52
rs35545453	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	3	68982812	C	T	8238	-0.36	0.08	0.00	0.00	20.77
rs139420442	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	4	94806861	G	T	8238	-0.47	0.10	0.00	0.00	22.28
rs1985147	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	4	95721429	T	C	8238	-0.10	0.02	0.00	0.00	20.67
rs1862568	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	5	62671138	G	C	8238	-0.08	0.02	0.00	0.00	26.21
rs17081005	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	6	151275617	T	C	8238	-0.21	0.05	0.00	0.00	20.01
rs142782776	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	6	162513864	A	G	8238	-0.26	0.06	0.00	0.00	20.39

rs6476871	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	9	4496333	A	G	8238	-0.10	0.02	0.00	0.00	24.72
rs10738915	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	9	33436565	A	G	8238	0.08	0.02	0.00	0.00	23.86
rs10884110	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	10	82060662	G	A	8238	-0.09	0.02	0.00	0.00	21.13
rs174533	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	11	61781553	A	G	8238	-0.61	0.02	0.00	0.17	#####
rs1801390	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	11	61959966	T	C	8238	-0.22	0.05	0.00	0.00	21.69
rs1047738	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	11	62152043	G	C	8238	0.08	0.02	0.00	0.00	26.43
rs3016252	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	11	86824089	C	G	8238	-0.07	0.02	0.00	0.00	20.57
rs964184	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	11	116778201	C	G	8238	-0.11	0.02	0.00	0.00	22.18
rs17092358	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	12	42901508	C	T	8238	0.18	0.04	0.00	0.00	19.84
rs1526804	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	12	75044883	G	A	8238	0.10	0.02	0.00	0.00	19.98
rs13956763 7	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	12	115119137	G	A	8238	-0.25	0.06	0.00	0.00	20.06
rs7137322	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	12	128491806	A	T	8238	0.08	0.02	0.00	0.00	19.85
rs75460503	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	13	59266263	G	T	8238	-0.20	0.04	0.00	0.00	20.98
rs18218038 0	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	13	113009627	A	G	8238	0.34	0.08	0.00	0.00	20.26

rs79032346	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	15	46343253	G	A	8238	-0.13	0.03	0.00	0.00	21.94
rs12928099	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	16	15056648	A	C	8238	0.12	0.02	0.00	0.01	53.91
rs2434885	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	16	71549956	T	C	8238	-0.09	0.02	0.00	0.00	20.32
rs144691575	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	18	29954285	C	T	8238	-0.22	0.05	0.00	0.00	20.41
rs188247550	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	19	19285807	T	C	8238	-0.36	0.08	0.00	0.00	22.34
rs73002956	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	19	19467934	G	A	8238	-0.14	0.03	0.00	0.00	26.04
rs6036719	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	20	2500119	G	A	8238	0.08	0.02	0.00	0.00	20.19
rs6064992	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	20	60746430	C	G	8238	-0.08	0.02	0.00	0.00	20.49
rs34617177	1-palmitoyl-2-arachidonoyl-gpc (16:0/20:4n6) levels	GCST90200692	22	50219616	T	C	8238	-0.23	0.05	0.00	0.00	23.10
rs9324143	Glycochenodeoxycholate glucuronide (1) levels	GCST90200693	1	84861371	C	A	8236	0.08	0.02	0.00	0.00	19.62
rs1914030	Glycochenodeoxycholate glucuronide (1) levels	GCST90200693	2	188889097	A	C	8236	-0.11	0.02	0.00	0.00	21.84
rs6780614	Glycochenodeoxycholate glucuronide (1) levels	GCST90200693	3	5332808	A	G	8236	-0.10	0.02	0.00	0.00	19.82
rs13098587	Glycochenodeoxycholate glucuronide (1) levels	GCST90200693	3	61837383	C	T	8236	-0.09	0.02	0.00	0.00	20.82
rs150619826	Glycochenodeoxycholate glucuronide (1) levels	GCST90200693	3	112299373	C	T	8236	0.19	0.04	0.00	0.00	20.04
rs73229778	Glycochenodeoxycholate glucuronide (1) levels	GCST90200693	4	40258867	T	C	8236	-0.09	0.02	0.00	0.00	21.22
rs57699279	Glycochenodeoxycholate glucuronide (1) levels	GCST90200693	4	123644475	A	C	8236	-0.18	0.04	0.00	0.00	21.52

	Glycochenode												
rs11406522	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	5	42352686	G	A	8236	0.19	0.04	0.00	0.00	19.89	
rs14974171	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	5	151986407	G	A	8236	0.25	0.05	0.00	0.00	21.67	
rs11697658	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	6	68617550	G	A	8236	-0.20	0.04	0.00	0.00	20.76	
rs15096889	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	7	26722553	A	G	8236	0.28	0.06	0.00	0.00	19.95	
rs13439464	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	8	68088044	T	C	8236	-0.27	0.06	0.00	0.00	19.78	
rs61829731	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	10	3805111	T	C	8236	-0.16	0.04	0.00	0.00	19.93	
rs18597963	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	10	99643566	C	T	8236	-0.30	0.03	0.00	0.01	84.44	
rs14693191	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	10	100027707	T	C	8236	0.35	0.06	0.00	0.00	31.46	
rs11045655	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	12	21018282	G	A	8236	-0.35	0.02	0.00	0.04	368.08	
rs60318946	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	12	21173794	G	A	8236	0.85	0.02	0.00	0.16	#####	
rs80181342	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	12	21730284	T	C	8236	0.17	0.04	0.00	0.00	20.24	
rs3889517	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	12	131289421	T	C	8236	0.08	0.02	0.00	0.00	20.97	
rs11159586	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	14	83277249	G	A	8236	-0.07	0.02	0.00	0.00	19.66	
rs3785912	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	17	50679576	T	C	8236	-0.14	0.02	0.00	0.01	79.23	
rs1940979	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	18	27677204	T	C	8236	-0.08	0.02	0.00	0.00	25.85	
rs4802023	oxycholate glucuronide (1) levels Glycochenode	GCST90200693	19	39189619	C	T	8236	-0.23	0.05	0.00	0.00	20.19	
rs2427626	oxycholate glucuronide (1) levels 2'-o-	GCST90200693	20	64246532	T	A	8236	0.09	0.02	0.00	0.00	21.33	
rs6704070	methylcytidine levels 2'-o-	GCST90200694	1	20584277	T	C	8122	0.12	0.02	0.00	0.01	65.42	
rs79718871	methylcytidine levels	GCST90200694	2	35545259	G	A	8122	0.17	0.04	0.00	0.00	19.60	

rs2160328	2'-o-methylcytidine levels	GCST90200694	2	205777613	A	G	8122	0.07	0.02	0.00	0.00	20.88
rs117314604	2'-o-methylcytidine levels	GCST90200694	3	158579648	G	A	8122	-0.46	0.10	0.00	0.00	19.71
rs148843671	2'-o-methylcytidine levels	GCST90200694	5	85792942	T	G	8122	-0.31	0.07	0.00	0.00	20.94
rs80343330	2'-o-methylcytidine levels	GCST90200694	7	7146412	G	T	8122	-0.54	0.12	0.00	0.00	19.56
rs17438410	2'-o-methylcytidine levels	GCST90200694	7	27316331	A	G	8122	-0.15	0.03	0.00	0.00	23.07
rs62467929	2'-o-methylcytidine levels	GCST90200694	7	114800661	G	A	8122	0.08	0.02	0.00	0.00	19.75
rs78556833	2'-o-methylcytidine levels	GCST90200694	8	116320805	T	C	8122	-0.29	0.06	0.00	0.00	21.07
rs62524837	2'-o-methylcytidine levels	GCST90200694	8	136410989	C	T	8122	0.16	0.04	0.00	0.00	19.97
rs57294583	2'-o-methylcytidine levels	GCST90200694	9	128922557	G	A	8122	0.62	0.01	0.00	0.20	#####
rs10795001	2'-o-methylcytidine levels	GCST90200694	10	3084635	C	T	8122	0.19	0.04	0.00	0.00	22.67
rs4901824	2'-o-methylcytidine levels	GCST90200694	14	57818040	G	A	8122	0.08	0.02	0.00	0.00	22.09
rs1241694	2'-o-methylcytidine levels	GCST90200694	14	92190224	C	T	8122	-0.08	0.02	0.00	0.00	19.97
rs145247822	2'-o-methylcytidine levels	GCST90200694	14	98663767	C	T	8122	0.50	0.11	0.00	0.00	22.06
rs117076612	2'-o-methylcytidine levels	GCST90200694	15	85784358	A	G	8122	-0.21	0.05	0.00	0.00	19.79
rs7190802	2'-o-methylcytidine levels	GCST90200694	16	31152210	G	T	8122	-0.07	0.02	0.00	0.00	21.78
rs79512045	2'-o-methylcytidine levels	GCST90200694	18	76772891	C	T	8122	-0.13	0.03	0.00	0.00	19.71
rs2831093	2'-o-methylcytidine levels	GCST90200694	21	27691991	A	G	8122	-0.08	0.02	0.00	0.00	23.09
rs142242494	2'-o-methyluridine levels	GCST90200695	1	14983210	A	C	7582	0.27	0.06	0.00	0.00	20.24
rs6704070	2'-o-methyluridine levels	GCST90200695	1	20584277	T	C	7582	-0.08	0.02	0.00	0.00	24.12
rs1991387	2'-o-methyluridine levels	GCST90200695	2	49310656	A	G	7582	0.08	0.02	0.00	0.00	21.46
rs13413085	2'-o-methyluridine levels	GCST90200695	2	217342395	T	C	7582	0.14	0.03	0.00	0.00	22.20
rs190987008	2'-o-methyluridine levels	GCST90200695	3	128286176	T	G	7582	-0.44	0.10	0.00	0.00	19.74
rs9831860	2'-o-methyluridine levels	GCST90200695	3	190509560	C	T	7582	0.67	0.14	0.00	0.00	23.94
rs72710012	2'-o-methyluridine levels	GCST90200695	4	176405629	T	C	7582	-0.09	0.02	0.00	0.00	19.86

rs72710623	2'-o-methyluridine levels	GCST90200695	5	2102641	G	C	7582	0.15	0.03	0.00	0.00	21.61
rs78345305	2'-o-methyluridine levels	GCST90200695	5	54442367	T	C	7582	0.14	0.03	0.00	0.00	19.89
rs77722566	2'-o-methyluridine levels	GCST90200695	5	156104350	G	A	7582	-0.23	0.05	0.00	0.00	19.99
rs33377	2'-o-methyluridine levels	GCST90200695	5	171673846	G	C	7582	0.08	0.02	0.00	0.00	20.04
rs2976443	2'-o-methyluridine levels	GCST90200695	8	24949329	C	G	7582	0.09	0.02	0.00	0.00	20.84
rs10086910	2'-o-methyluridine levels	GCST90200695	8	89335875	G	T	7582	-0.08	0.02	0.00	0.00	21.35
rs185860533	2'-o-methyluridine levels	GCST90200695	9	128532421	C	T	7582	0.36	0.08	0.00	0.00	19.85
rs57294583	2'-o-methyluridine levels	GCST90200695	9	128922557	G	A	7582	0.69	0.01	0.00	0.23	#####
rs146036021	2'-o-methyluridine levels	GCST90200695	12	27740942	A	G	7582	-0.35	0.07	0.00	0.00	25.37
rs2331715	2'-o-methyluridine levels	GCST90200695	14	22696743	C	A	7582	0.09	0.02	0.00	0.00	26.34
rs35008707	2'-o-methyluridine levels	GCST90200695	14	78957288	T	C	7582	-0.29	0.06	0.00	0.00	20.46
rs138470900	2'-o-methyluridine levels	GCST90200695	15	78164391	G	C	7582	0.34	0.08	0.00	0.00	19.58
rs75795604	2'-o-methyluridine levels	GCST90200695	20	3297899	G	C	7582	-0.23	0.05	0.00	0.00	23.17
rs147340718	2'-o-methyluridine levels	GCST90200695	21	17116952	T	G	7582	0.30	0.06	0.00	0.00	23.37
rs76957020	N6,N6-dimethyllysine levels	GCST90200696	1	60312420	C	T	8265	-0.37	0.07	0.00	0.00	24.56
rs66482844	N6,N6-dimethyllysine levels	GCST90200696	1	81193967	T	C	8265	-0.19	0.04	0.00	0.00	21.40
rs13005986	N6,N6-dimethyllysine levels	GCST90200696	2	9860051	C	T	8265	0.21	0.05	0.00	0.00	21.96
rs151317804	N6,N6-dimethyllysine levels	GCST90200696	2	58327161	A	G	8265	0.14	0.03	0.00	0.00	19.63
rs6755215	N6,N6-dimethyllysine levels	GCST90200696	2	237594407	G	A	8265	0.38	0.08	0.00	0.00	20.07
rs34397489	N6,N6-dimethyllysine levels	GCST90200696	3	69351015	C	A	8265	-0.12	0.03	0.00	0.00	20.12
rs9289617	N6,N6-dimethyllysine levels	GCST90200696	3	140971521	A	G	8265	-0.38	0.08	0.00	0.00	21.34
rs139105296	N6,N6-dimethyllysine levels	GCST90200696	4	149584432	G	A	8265	0.18	0.04	0.00	0.00	24.67
rs56391006	N6,N6-dimethyllysine levels	GCST90200696	5	177462022	A	G	8265	-0.30	0.07	0.00	0.00	20.97
rs116560988	N6,N6-dimethyllysine levels	GCST90200696	5	180475385	A	G	8265	-0.21	0.05	0.00	0.00	20.11

rs189050202	N6,N6-dimethyllysine levels	GCST90200696	6	15711488	T	C	8265	-0.26	0.06	0.00	0.00	22.59
rs147221194	N6,N6-dimethyllysine levels	GCST90200696	6	132226339	A	T	8265	-0.26	0.06	0.00	0.00	19.54
rs116984880	N6,N6-dimethyllysine levels	GCST90200696	7	108650724	C	T	8265	0.20	0.04	0.00	0.00	20.78
rs141236033	N6,N6-dimethyllysine levels	GCST90200696	9	100766822	T	C	8265	0.17	0.04	0.00	0.00	19.53
rs149128587	N6,N6-dimethyllysine levels	GCST90200696	9	118890163	G	A	8265	-0.36	0.08	0.00	0.00	19.55
rs10984399	N6,N6-dimethyllysine levels	GCST90200696	9	119074706	A	G	8265	0.10	0.02	0.00	0.00	23.23
rs7902921	N6,N6-dimethyllysine levels	GCST90200696	10	5627263	C	T	8265	-0.12	0.03	0.00	0.00	19.94
rs72842528	N6,N6-dimethyllysine levels	GCST90200696	10	97935714	A	G	8265	0.31	0.06	0.00	0.00	27.67
rs4917820	N6,N6-dimethyllysine levels	GCST90200696	10	98348779	T	C	8265	0.62	0.01	0.00	0.18	#####
rs11517049	N6,N6-dimethyllysine levels	GCST90200696	10	98449905	T	G	8265	0.40	0.04	0.00	0.01	111.35
rs11189713	N6,N6-dimethyllysine levels	GCST90200696	10	98605856	T	C	8265	-0.33	0.04	0.00	0.01	58.69
rs151271070	N6,N6-dimethyllysine levels	GCST90200696	10	99383692	T	C	8265	-0.37	0.06	0.00	0.00	37.44
rs116875976	N6,N6-dimethyllysine levels	GCST90200696	10	99422468	A	G	8265	-0.33	0.06	0.00	0.00	27.04
rs144858221	N6,N6-dimethyllysine levels	GCST90200696	10	99438205	T	G	8265	0.27	0.05	0.00	0.00	26.24
rs79856078	N6,N6-dimethyllysine levels	GCST90200696	12	97318669	G	C	8265	0.31	0.07	0.00	0.00	20.32
rs834724	N6,N6-dimethyllysine levels	GCST90200696	12	104574858	A	T	8265	0.08	0.02	0.00	0.00	20.25
rs117564334	N6,N6-dimethyllysine levels	GCST90200696	19	54093989	G	C	8265	0.11	0.02	0.00	0.00	21.59
rs6111089	N2-dimethyllysine levels	GCST90200696	20	16394563	C	T	8265	-0.11	0.02	0.00	0.00	22.08
rs143083364	acetyl,N6,N6-dimethyllysine levels	GCST90200697	1	231033200	G	C	7891	0.26	0.06	0.00	0.00	20.55
rs7609407	acetyl,N6,N6-dimethyllysine levels	GCST90200697	2	73273000	G	A	7891	-0.13	0.02	0.00	0.00	35.03
rs13538	acetyl,N6,N6-dimethyllysine levels	GCST90200697	2	73641201	G	A	7891	0.64	0.02	0.00	0.15	#####
rs111332525	acetyl,N6,N6-dimethyllysine levels	GCST90200697	2	173245667	T	C	7891	-0.25	0.06	0.00	0.00	20.39
rs13408904	acetyl,N6,N6-dimethyllysine levels	GCST90200697	2	201176201	T	C	7891	0.19	0.04	0.00	0.00	21.51

rs180851257	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	4	54048156	C	T	7891	-0.29	0.06	0.00	0.00	19.76
rs183739917	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	4	105529524	C	G	7891	-0.67	0.14	0.00	0.00	21.97
rs12190308	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	6	87710658	G	A	7891	-0.10	0.02	0.00	0.00	20.48
rs34580553	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	6	155871008	A	G	7891	0.12	0.03	0.00	0.00	21.36
rs62481075	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	7	128262802	T	C	7891	0.19	0.04	0.00	0.00	22.80
rs79816080	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	8	36562967	C	T	7891	0.21	0.05	0.00	0.00	20.09
rs512187	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	9	132469187	A	G	7891	-0.07	0.02	0.00	0.00	20.66
rs10786400	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	10	98167102	G	A	7891	-0.15	0.02	0.00	0.01	74.95
rs10883082	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	10	98366538	T	C	7891	0.92	0.01	0.00	0.40	#####
rs1925647	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	10	98490429	C	A	7891	0.12	0.02	0.00	0.01	46.24
rs113851727	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	10	98597020	A	T	7891	-0.35	0.04	0.00	0.01	84.39
rs6584281	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	10	99526723	G	A	7891	-0.10	0.02	0.00	0.01	41.62
rs12284998	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	11	23020448	C	T	7891	0.08	0.02	0.00	0.00	20.93
rs12420129	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	11	77156089	T	C	7891	-0.28	0.06	0.00	0.00	23.29
rs55710329	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	12	30072798	T	C	7891	0.12	0.03	0.00	0.00	20.37
rs556444822	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	12	132801654	G	A	7891	-0.27	0.06	0.00	0.00	20.18
rs1490101	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	13	85290164	T	C	7891	0.12	0.03	0.00	0.00	19.58
rs11861590	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	16	78329853	C	T	7891	-0.07	0.02	0.00	0.00	19.55

rs183646569	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	17	1272100	A	G	7891	-0.21	0.05	0.00	0.00	21.89
rs117564334	N2-acetyl,N6,N6-dimethyllysine levels	GCST90200697	19	54093989	G	C	7891	0.11	0.02	0.00	0.00	21.86
rs17102815	N2-acetyl,N6-methyllysine levels	GCST90200698	1	79128880	A	G	8069	0.11	0.02	0.00	0.00	20.49
rs143083364	N2-acetyl,N6-methyllysine levels	GCST90200698	1	231033200	G	C	8069	0.28	0.06	0.00	0.00	23.98
rs138284041	N2-acetyl,N6-methyllysine levels	GCST90200698	2	34024054	G	T	8069	-0.30	0.07	0.00	0.00	20.29
rs71416761	N2-acetyl,N6-methyllysine levels	GCST90200698	2	72693419	T	C	8069	-0.11	0.02	0.00	0.00	20.92
rs11898850	N2-acetyl,N6-methyllysine levels	GCST90200698	2	72972490	A	C	8069	-0.12	0.02	0.00	0.01	53.96
rs13417094	N2-acetyl,N6-methyllysine levels	GCST90200698	2	73277974	T	C	8069	-0.23	0.02	0.00	0.01	98.71
rs11885217	N2-acetyl,N6-methyllysine levels	GCST90200698	2	73326080	G	A	8069	0.61	0.02	0.00	0.16	#####
rs114305635	N2-acetyl,N6-methyllysine levels	GCST90200698	2	73512657	T	C	8069	-0.28	0.06	0.00	0.00	20.64
rs13408904	N2-acetyl,N6-methyllysine levels	GCST90200698	2	201176201	T	C	8069	0.20	0.04	0.00	0.00	24.51
rs145759759	N2-acetyl,N6-methyllysine levels	GCST90200698	4	20542934	G	A	8069	0.28	0.06	0.00	0.00	20.18
rs180851257	N2-acetyl,N6-methyllysine levels	GCST90200698	4	54048156	C	T	8069	-0.29	0.06	0.00	0.00	20.04
rs72659464	N2-acetyl,N6-methyllysine levels	GCST90200698	4	90053618	G	T	8069	0.19	0.04	0.00	0.00	20.38
rs34109470	N2-acetyl,N6-methyllysine levels	GCST90200698	4	157001794	G	A	8069	0.38	0.08	0.00	0.00	21.70
rs118129860	N2-acetyl,N6-methyllysine levels	GCST90200698	6	135040682	T	C	8069	-0.24	0.05	0.00	0.00	20.54
rs79057420	N2-acetyl,N6-methyllysine levels	GCST90200698	8	52878129	C	T	8069	0.21	0.05	0.00	0.00	21.98
rs117940302	N2-acetyl,N6-methyllysine levels	GCST90200698	8	122822665	A	G	8069	0.23	0.05	0.00	0.00	19.92
rs10883082	N2-acetyl,N6-methyllysine levels	GCST90200698	10	98366538	T	C	8069	0.85	0.01	0.00	0.34	#####
rs61873921	N2-acetyl,N6-methyllysine levels	GCST90200698	10	98439231	T	G	8069	0.10	0.02	0.00	0.00	34.34
rs1925647	N2-acetyl,N6-methyllysine levels	GCST90200698	10	98490429	C	A	8069	0.09	0.02	0.00	0.00	23.37
rs113851727	N2-acetyl,N6-methyllysine levels	GCST90200698	10	98597020	A	T	8069	-0.29	0.04	0.00	0.01	60.26
rs7917446	N2-acetyl,N6-methyllysine levels	GCST90200698	10	99526450	C	T	8069	-0.08	0.02	0.00	0.00	25.89
rs12420129	N2-acetyl,N6-methyllysine levels	GCST90200698	11	77156089	T	C	8069	-0.26	0.06	0.00	0.00	21.24

rs145180357	N2-acetyl,N6-methyllysine levels	GCST90200698	12	117664735	T	C	8069	0.34	0.08	0.00	0.00	20.74
rs2776611	N2-acetyl,N6-methyllysine levels	GCST90200698	14	32053667	C	G	8069	0.09	0.02	0.00	0.00	29.34
rs140548487	N2-acetyl,N6-methyllysine levels	GCST90200698	15	31386439	T	C	8069	0.32	0.07	0.00	0.00	20.35
rs2470356	N2-acetyl,N6-methyllysine levels	GCST90200698	15	57643282	T	A	8069	-0.08	0.02	0.00	0.00	23.98
rs117488741	N2-acetyl,N6-methyllysine levels	GCST90200698	17	11406672	A	G	8069	0.34	0.07	0.00	0.00	23.53
rs484134	N2-acetyl,N6-methyllysine levels	GCST90200698	18	65442103	T	A	8069	0.10	0.02	0.00	0.00	19.83
rs117378675	N2-acetyl,N6-methyllysine levels	GCST90200698	20	53336493	T	A	8069	-0.29	0.06	0.00	0.00	26.69
rs76796330	N2-acetyl,N6-methyllysine levels	GCST90200698	21	20509591	A	G	8069	-1.68	0.33	0.00	0.00	25.92
rs75792643	N2-acetyl,N6-methyllysine levels	GCST90200698	22	45977088	T	C	8069	0.08	0.02	0.00	0.00	20.85
rs61824509	Deoxycholic acid glucuronide levels	GCST90200699	1	234346773	T	C	8060	0.10	0.02	0.00	0.00	21.16
rs12619839	Deoxycholic acid glucuronide levels	GCST90200699	2	24505680	G	A	8060	-0.21	0.04	0.00	0.00	23.61
rs146751869	Deoxycholic acid glucuronide levels	GCST90200699	2	111561826	C	T	8060	-0.12	0.03	0.00	0.00	21.33
rs140959809	Deoxycholic acid glucuronide levels	GCST90200699	2	185293917	T	C	8060	0.35	0.07	0.00	0.00	24.70
rs6743882	Deoxycholic acid glucuronide levels	GCST90200699	2	212335680	A	G	8060	-0.22	0.05	0.00	0.00	20.81
rs11917631	Deoxycholic acid glucuronide levels	GCST90200699	3	114464728	A	G	8060	-0.13	0.03	0.00	0.00	19.83
rs16857650	Deoxycholic acid glucuronide levels	GCST90200699	3	145946832	A	G	8060	0.12	0.03	0.00	0.00	19.64
rs79843152	Deoxycholic acid glucuronide levels	GCST90200699	3	186032174	T	C	8060	-0.33	0.07	0.00	0.00	20.85
rs11933242	Deoxycholic acid glucuronide levels	GCST90200699	4	68267260	A	G	8060	-0.10	0.02	0.00	0.00	33.45
rs955909	Deoxycholic acid glucuronide levels	GCST90200699	4	68463987	G	C	8060	-0.61	0.01	0.00	0.18	#####
rs1454244	Deoxycholic acid glucuronide levels	GCST90200699	4	68637993	T	A	8060	0.12	0.02	0.00	0.01	54.56

rs62305501	Deoxycholic acid glucuronide levels	GCST90200699	4	70080711	A	G	8060	-0.25	0.05	0.00	0.00	23.08
rs17215232	Deoxycholic acid glucuronide levels	GCST90200699	4	181711123	G	A	8060	-0.11	0.02	0.00	0.00	27.66
rs4262118	Deoxycholic acid glucuronide levels	GCST90200699	5	27698036	A	G	8060	0.07	0.02	0.00	0.00	19.65
rs10487768	Deoxycholic acid glucuronide levels	GCST90200699	7	46983906	A	G	8060	-0.14	0.03	0.00	0.00	24.67
rs76423975	Deoxycholic acid glucuronide levels	GCST90200699	7	151354719	T	C	8060	0.17	0.04	0.00	0.00	20.62
rs11775714	Deoxycholic acid glucuronide levels	GCST90200699	8	16050222	T	C	8060	-0.10	0.02	0.00	0.00	20.10
rs74209462	Deoxycholic acid glucuronide levels	GCST90200699	8	85037624	A	G	8060	0.08	0.02	0.00	0.00	21.05
rs1981074	Deoxycholic acid glucuronide levels	GCST90200699	9	11124273	C	A	8060	0.14	0.03	0.00	0.00	22.37
rs4762697	Deoxycholic acid glucuronide levels	GCST90200699	12	21162039	T	A	8060	0.16	0.02	0.00	0.01	91.00
rs4149056	Deoxycholic acid glucuronide levels	GCST90200699	12	21178615	C	T	8060	0.38	0.02	0.00	0.04	343.96
rs75405075	Deoxycholic acid glucuronide levels	GCST90200699	13	83789654	C	A	8060	-0.27	0.06	0.00	0.00	20.72
rs9556681	Deoxycholic acid glucuronide levels	GCST90200699	13	87343267	G	A	8060	-0.07	0.02	0.00	0.00	20.54
rs7196766	Deoxycholic acid glucuronide levels	GCST90200699	16	27135660	G	A	8060	0.07	0.02	0.00	0.00	19.88
rs117068210	Deoxycholic acid glucuronide levels	GCST90200699	16	59676163	A	G	8060	-0.27	0.06	0.00	0.00	19.88
rs3785912	Deoxycholic acid glucuronide levels	GCST90200699	17	50679576	T	C	8060	-0.08	0.02	0.00	0.00	24.68
rs149223939	Deoxycholic acid glucuronide levels	GCST90200699	20	822378	T	C	8060	0.20	0.04	0.00	0.00	22.18
rs35961667	Decadienedioic acid (C10:2-DC) levels	GCST90200700	1	26949067	T	C	8131	-0.24	0.05	0.00	0.00	19.87
rs76817534	Decadienedioic acid (C10:2-DC) levels	GCST90200700	1	204102548	C	G	8131	0.14	0.03	0.00	0.00	19.84
rs10180663	Decadienedioic acid (C10:2-DC) levels	GCST90200700	2	25410373	C	T	8131	0.08	0.02	0.00	0.00	19.86

rs17046426	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	3	6939585	T	G	8131	-0.11	0.02	0.00	0.00	21.31
rs111563930	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	3	25359412	A	T	8131	-0.07	0.02	0.00	0.00	19.58
rs112252755	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	3	140447809	G	A	8131	-0.17	0.04	0.00	0.00	23.31
rs76611387	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	4	128549052	T	C	8131	-0.10	0.02	0.00	0.00	19.58
rs74496272	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	4	160918412	T	A	8131	0.13	0.03	0.00	0.00	21.49
rs11747835	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	5	76422279	A	G	8131	-0.10	0.02	0.00	0.00	25.26
rs2328895	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	6	25801855	T	C	8131	-0.16	0.02	0.00	0.01	118.00
rs140529959	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	7	135594083	G	T	8131	0.34	0.07	0.00	0.00	21.52
rs117946738	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	8	124984754	G	C	8131	-0.32	0.07	0.00	0.00	21.26
rs78387903	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	8	129216521	C	T	8131	-0.25	0.05	0.00	0.00	20.82
rs72783608	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	10	25825392	G	A	8131	0.09	0.02	0.00	0.00	23.07
rs603424	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	10	100315722	A	G	8131	-0.19	0.02	0.00	0.01	93.56
rs480120	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	11	117384670	T	C	8131	-0.16	0.03	0.00	0.00	21.59
rs7317280	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	13	43517133	T	G	8131	-0.13	0.02	0.00	0.00	29.16
rs17605645	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	13	69306014	G	T	8131	-0.10	0.02	0.00	0.00	20.47
rs113351845	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	14	52373209	T	C	8131	-0.08	0.02	0.00	0.00	22.98
rs59114130	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	14	72703520	G	C	8131	0.13	0.03	0.00	0.00	19.72
rs2242610	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	14	73252171	G	A	8131	-0.10	0.02	0.00	0.00	39.99
rs58231493	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	14	73565418	T	C	8131	-0.66	0.01	0.00	0.21	#####
rs28410246	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	14	73579515	C	T	8131	0.12	0.02	0.00	0.01	61.61
rs10445235	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	17	74264155	T	C	8131	0.08	0.02	0.00	0.00	19.65
rs142558680	Decadienedioi c acid (C10:2- DC) levels	GCST90200700	18	23746764	A	T	8131	-0.28	0.06	0.00	0.00	20.02
rs17130957	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	1	90053610	G	A	8254	-0.24	0.05	0.00	0.00	20.34

rs1779461	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	1	110546407	G	C	8254	-0.22	0.05	0.00	0.00	20.36
rs12409128	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	1	198764719	T	C	8254	-0.26	0.05	0.00	0.00	24.76
rs17393065	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	2	30895733	A	C	8254	0.08	0.02	0.00	0.00	20.15
rs55770102	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	2	34232915	T	C	8254	-0.13	0.03	0.00	0.00	21.87
rs6731665	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	2	128255459	C	A	8254	0.10	0.02	0.00	0.00	19.83
rs6705993	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	2	233302980	A	G	8254	-0.10	0.01	0.00	0.01	45.91
rs28899170	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	2	233695584	A	C	8254	0.58	0.01	0.00	0.16	#####
rs10929321	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	2	233962699	A	G	8254	-0.08	0.02	0.00	0.00	25.65
rs6810362	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	3	1989599	A	G	8254	0.08	0.02	0.00	0.00	21.63
rs12374457	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	5	146073877	T	C	8254	0.08	0.02	0.00	0.00	22.96
rs3864273	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	5	152478581	G	A	8254	-0.07	0.02	0.00	0.00	19.71
rs4537188	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	6	6028603	C	A	8254	0.07	0.02	0.00	0.00	20.10
rs79782817	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	6	25882450	T	G	8254	0.12	0.02	0.00	0.00	24.00
rs385159	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	6	89195707	C	A	8254	0.07	0.02	0.00	0.00	19.62

rs10867224	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	9	69259373	T	C	8254	0.07	0.02	0.00	0.00	20.27
rs67981690	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	12	21190952	G	A	8254	0.12	0.02	0.00	0.00	28.14
rs10842538	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	12	25346408	C	T	8254	-0.16	0.04	0.00	0.00	19.92
rs78877521	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	12	94325914	C	T	8254	0.32	0.07	0.00	0.00	20.54
rs14781593 7	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	13	79119247	C	T	8254	-0.21	0.05	0.00	0.00	20.11
rs41295332	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	14	24262508	T	C	8254	0.15	0.03	0.00	0.00	23.86
rs8027151	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	15	58616781	G	A	8254	0.09	0.02	0.00	0.00	25.60
rs77772621	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	16	8274852	A	G	8254	-0.30	0.06	0.00	0.00	21.59
rs6506363	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	18	6127818	C	T	8254	-0.07	0.01	0.00	0.00	19.93
rs12975047	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	19	41445681	T	C	8254	0.08	0.02	0.00	0.00	20.43
rs6046367	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	20	2056308	G	A	8254	-0.09	0.02	0.00	0.00	19.60
rs3117262	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	21	13339622	C	G	8254	-0.11	0.03	0.00	0.00	19.68
rs14244712 6	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	21	44557672	A	G	8254	0.31	0.06	0.00	0.00	25.11
rs855791	Bilirubin degradation product, C17H18N2O4 (1) levels	GCST90200701	22	37066896	G	A	8254	0.07	0.02	0.00	0.00	24.33

rs12409128	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	1	198764719	T	C	8255	-0.23	0.05	0.00	0.00	19.67
rs12141853	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	1	242074744	A	G	8255	0.08	0.02	0.00	0.00	20.08
rs55770102	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	2	34232915	T	C	8255	-0.13	0.03	0.00	0.00	20.77
rs6705993	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	2	233302980	A	G	8255	-0.10	0.01	0.00	0.01	42.76
rs17863787	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	2	233702448	G	T	8255	0.58	0.01	0.00	0.15	#####
rs10929321	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	2	233962699	A	G	8255	-0.07	0.02	0.00	0.00	22.64
rs4684617	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	3	9011621	A	G	8255	-0.24	0.05	0.00	0.00	20.97
rs116356916	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	5	107954030	G	A	8255	0.26	0.06	0.00	0.00	21.70
rs4535447	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	5	139163436	G	C	8255	-0.23	0.05	0.00	0.00	21.38
rs3864273	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	5	152478581	G	A	8255	-0.08	0.02	0.00	0.00	20.70
rs4537188	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	6	6028603	C	A	8255	0.07	0.02	0.00	0.00	19.74
rs79782817	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	6	25882450	T	G	8255	0.11	0.02	0.00	0.00	20.90
rs385159	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	6	89195707	C	A	8255	0.07	0.02	0.00	0.00	20.75
rs7821891	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	8	4913266	C	T	8255	-0.07	0.02	0.00	0.00	22.48

rs7864923	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	9	117061403	T	C	8255	0.07	0.02	0.00	0.00	20.49
rs11763040 7	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	10	132301641	A	G	8255	0.14	0.03	0.00	0.00	20.26
rs67981690	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	12	21190952	G	A	8255	0.12	0.02	0.00	0.00	28.09
rs78877521	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	12	94325914	C	T	8255	0.32	0.07	0.00	0.00	20.41
rs41295332	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	14	24262508	T	C	8255	0.14	0.03	0.00	0.00	19.83
rs8027151	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	15	58616781	G	A	8255	0.08	0.02	0.00	0.00	24.56
rs12942425	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	17	60137726	T	A	8255	0.09	0.02	0.00	0.00	20.87
rs3117262	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	21	13339622	C	G	8255	-0.12	0.03	0.00	0.00	19.94
rs14244712 6	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	21	44557672	A	G	8255	0.29	0.06	0.00	0.00	21.47
rs855791	Bilirubin degradation product, C17H18N2O4 (2) levels	GCST90200702	22	37066896	G	A	8255	0.08	0.02	0.00	0.00	24.97
rs61784546	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	1	64477602	C	T	8253	0.23	0.05	0.00	0.00	20.63
rs17393065	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	2	30895733	A	C	8253	0.08	0.02	0.00	0.00	20.36
rs55770102	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	2	34232915	T	C	8253	-0.13	0.03	0.00	0.00	19.81
rs6759896	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	2	233302326	A	G	8253	-0.09	0.01	0.00	0.00	39.00

rs887829	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	2	233759924	T	C	8253	0.60	0.01	0.00	0.17	#####
rs34487375	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	4	43962869	T	C	8253	-0.08	0.02	0.00	0.00	20.62
rs11635691 6	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	5	107954030	G	A	8253	0.25	0.06	0.00	0.00	19.86
rs1864002	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	5	142358805	G	A	8253	0.20	0.04	0.00	0.00	19.72
rs3864273	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	5	152478581	G	A	8253	-0.08	0.02	0.00	0.00	22.90
rs2092161	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	6	25668955	T	C	8253	0.10	0.02	0.00	0.00	23.37
rs73151153	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	7	98179946	T	C	8253	0.10	0.02	0.00	0.00	19.85
rs7821891	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	8	4913266	C	T	8253	-0.07	0.02	0.00	0.00	20.60
rs7012931	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	8	41522796	T	C	8253	-0.08	0.02	0.00	0.00	20.95
rs34524245	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	8	71329727	T	G	8253	-0.08	0.02	0.00	0.00	20.99
rs10867224	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	9	69259373	T	C	8253	0.07	0.02	0.00	0.00	20.32
rs55941259	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	10	70440448	A	G	8253	0.28	0.06	0.00	0.00	21.51
rs67981690	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	12	21190952	G	A	8253	0.12	0.02	0.00	0.00	32.02
rs78877521	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	12	94325914	C	T	8253	0.33	0.07	0.00	0.00	21.97

rs8027151	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	15	58616781	G	A	8253	0.09	0.02	0.00	0.00	25.60
rs12942425	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	17	60137726	T	A	8253	0.09	0.02	0.00	0.00	20.53
rs67864751	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	18	6045632	G	A	8253	0.25	0.06	0.00	0.00	20.77
rs13827716 7	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	21	44548927	T	G	8253	0.29	0.06	0.00	0.00	21.88
rs855791	Bilirubin degradation product, C17H18N2O4 (3) levels	GCST90200703	22	37066896	G	A	8253	0.08	0.02	0.00	0.00	24.41
rs12122732	Bilirubin (z,z) levels	GCST90200704	1	3690968	A	G	8261	0.10	0.02	0.00	0.00	19.76
rs61784546	Bilirubin (z,z) levels	GCST90200704	1	64477602	C	T	8261	0.23	0.05	0.00	0.00	20.44
rs2884388	Bilirubin (z,z) levels	GCST90200704	1	233899416	T	G	8261	0.10	0.02	0.00	0.00	19.84
rs34891595	Bilirubin (z,z) levels	GCST90200704	2	233344951	C	A	8261	-0.12	0.02	0.00	0.01	60.03
rs2741044	Bilirubin (z,z) levels	GCST90200704	2	233670722	A	G	8261	0.64	0.01	0.00	0.18	#####
rs10929321	Bilirubin (z,z) levels	GCST90200704	2	233962699	A	G	8261	-0.08	0.02	0.00	0.00	24.32
rs11716868	Bilirubin (z,z) levels	GCST90200704	3	24921437	G	T	8261	-0.09	0.02	0.00	0.00	24.47
rs77546042	Bilirubin (z,z) levels	GCST90200704	3	134951238	C	A	8261	-0.17	0.04	0.00	0.00	20.14
rs11570865 0	Bilirubin (z,z) levels	GCST90200704	4	43753313	A	C	8261	0.28	0.06	0.00	0.00	19.53
rs7679385	Bilirubin (z,z) levels	GCST90200704	4	118868858	G	A	8261	0.08	0.02	0.00	0.00	19.90
rs72719769	Bilirubin (z,z) levels	GCST90200704	4	147318499	A	C	8261	0.19	0.04	0.00	0.00	19.59
rs11635691 6	Bilirubin (z,z) levels	GCST90200704	5	107954030	G	A	8261	0.26	0.06	0.00	0.00	20.73
rs4835916	Bilirubin (z,z) levels	GCST90200704	5	126667974	T	C	8261	-0.10	0.02	0.00	0.00	20.42
rs1864002	Bilirubin (z,z) levels	GCST90200704	5	142358805	G	A	8261	0.22	0.04	0.00	0.00	24.79
rs36074023	Bilirubin (z,z) levels	GCST90200704	5	152480411	A	G	8261	-0.11	0.03	0.00	0.00	19.80
rs4537188	Bilirubin (z,z) levels	GCST90200704	6	6028603	C	A	8261	0.07	0.02	0.00	0.00	19.85
rs78695436	Bilirubin (z,z) levels	GCST90200704	6	19456099	A	G	8261	-0.33	0.07	0.00	0.00	20.18
rs45613131	Bilirubin (z,z) levels	GCST90200704	6	36317056	A	G	8261	-0.24	0.05	0.00	0.00	20.09
rs11963817	Bilirubin (z,z) levels	GCST90200704	6	168297617	C	G	8261	0.12	0.03	0.00	0.00	22.27
rs17126	Bilirubin (z,z) levels	GCST90200704	7	86842597	A	G	8261	0.08	0.02	0.00	0.00	22.75
rs7821891	Bilirubin (z,z) levels	GCST90200704	8	4913266	C	T	8261	-0.07	0.02	0.00	0.00	20.74
rs10107609	Bilirubin (z,z) levels	GCST90200704	8	137735578	C	T	8261	-0.07	0.02	0.00	0.00	20.83
rs14393873 2	Bilirubin (z,z) levels	GCST90200704	8	144520914	A	C	8261	0.46	0.09	0.00	0.00	24.18
rs11718414 9	Bilirubin (z,z) levels	GCST90200704	11	97317356	G	A	8261	0.23	0.05	0.00	0.00	21.51

rs67981690	Bilirubin (z,z) levels	GCST90200704	12	21190952	G	A	8261	0.16	0.02	0.00	0.01	54.21
rs10842538	Bilirubin (z,z) levels	GCST90200704	12	25346408	C	T	8261	-0.16	0.04	0.00	0.00	21.28
rs35757629	Bilirubin (z,z) levels	GCST90200704	12	105128230	T	C	8261	-0.11	0.02	0.00	0.00	19.67
rs41295332	Bilirubin (z,z) levels	GCST90200704	14	24262508	T	C	8261	0.15	0.03	0.00	0.00	22.06
rs72729408	Bilirubin (z,z) levels	GCST90200704	15	39798012	G	A	8261	0.20	0.04	0.00	0.00	22.76
rs11852342	Bilirubin (z,z) levels	GCST90200704	15	97086204	T	C	8261	0.16	0.04	0.00	0.00	20.39
rs6504507	Bilirubin (z,z) levels	GCST90200704	17	67450804	C	T	8261	-0.10	0.02	0.00	0.00	20.85
rs6046367	Bilirubin (z,z) levels	GCST90200704	20	2056308	G	A	8261	-0.10	0.02	0.00	0.00	22.29
rs13827716 7	Bilirubin (z,z) levels	GCST90200704	21	44548927	T	G	8261	0.29	0.06	0.00	0.00	21.71
rs77972584	Ethylmalonate levels	GCST90200705	1	24409571	C	T	8172	-0.16	0.03	0.00	0.00	21.26
rs79045568	Ethylmalonate levels	GCST90200705	1	33852604	G	C	8172	-0.10	0.02	0.00	0.00	20.36
rs74913373	Ethylmalonate levels	GCST90200705	1	35663543	A	T	8172	0.21	0.04	0.00	0.00	23.26
rs28384842	Ethylmalonate levels	GCST90200705	1	171254969	T	G	8172	0.17	0.04	0.00	0.00	19.53
rs12080335	Ethylmalonate levels	GCST90200705	1	219286645	C	T	8172	0.19	0.02	0.00	0.01	63.05
rs1019972	Ethylmalonate levels	GCST90200705	2	26187345	T	C	8172	0.16	0.04	0.00	0.00	19.53
rs11466458 8	Ethylmalonate levels	GCST90200705	2	85167168	T	C	8172	0.23	0.05	0.00	0.00	21.19
rs76485079	Ethylmalonate levels	GCST90200705	2	120276195	T	C	8172	0.14	0.03	0.00	0.00	26.41
rs78305254	Ethylmalonate levels	GCST90200705	2	207266182	G	A	8172	0.15	0.03	0.00	0.00	22.59
rs13845298 1	Ethylmalonate levels	GCST90200705	3	27830572	A	G	8172	0.31	0.07	0.00	0.00	20.43
rs11604990 6	Ethylmalonate levels	GCST90200705	3	197539717	A	G	8172	0.29	0.07	0.00	0.00	19.62
rs11132051	Ethylmalonate levels	GCST90200705	4	181329103	T	C	8172	0.08	0.02	0.00	0.00	20.26
rs10067443	Ethylmalonate levels	GCST90200705	5	19244223	T	C	8172	-0.09	0.02	0.00	0.00	21.72
rs7718321	Ethylmalonate levels	GCST90200705	5	112333655	C	T	8172	-0.07	0.02	0.00	0.00	19.64
rs9370823	Ethylmalonate levels	GCST90200705	6	15550427	G	A	8172	0.08	0.02	0.00	0.00	19.80
rs10945294	Ethylmalonate levels	GCST90200705	6	71186742	A	C	8172	0.09	0.02	0.00	0.00	22.79
rs34003196	Ethylmalonate levels	GCST90200705	6	100268030	C	T	8172	0.26	0.06	0.00	0.00	20.58
rs18384951 9	Ethylmalonate levels	GCST90200705	7	114058961	C	T	8172	-0.26	0.06	0.00	0.00	22.09
rs1493603	Ethylmalonate levels	GCST90200705	8	16895102	T	C	8172	-0.12	0.02	0.00	0.00	26.69
rs13261288	Ethylmalonate levels	GCST90200705	8	65279213	G	A	8172	-0.08	0.02	0.00	0.00	24.97
rs62534219	Ethylmalonate levels	GCST90200705	9	1973552	G	A	8172	0.16	0.03	0.00	0.00	24.62
rs62558566	Ethylmalonate levels	GCST90200705	9	21730903	T	A	8172	-0.09	0.02	0.00	0.00	23.18
rs11214146 1	Ethylmalonate levels	GCST90200705	9	94663126	T	C	8172	0.19	0.04	0.00	0.00	21.17
rs12377114	Ethylmalonate levels	GCST90200705	9	120520658	C	A	8172	0.10	0.02	0.00	0.00	23.58
rs12769056	Ethylmalonate levels	GCST90200705	10	3111573	T	C	8172	0.46	0.09	0.00	0.00	26.63
rs203326	Ethylmalonate levels	GCST90200705	12	119765917	C	T	8172	0.14	0.02	0.00	0.01	57.59
rs14866293 4	Ethylmalonate levels	GCST90200705	12	120450959	C	T	8172	-0.25	0.02	0.00	0.01	114.53
rs34737694	Ethylmalonate levels	GCST90200705	12	120607251	T	C	8172	0.74	0.02	0.00	0.16	#####

rs541619	Ethylmalonate levels	GCST90200705	12	120659184	G	A	8172	0.32	0.02	0.00	0.04	365.70
rs78535550	Ethylmalonate levels	GCST90200705	12	121669083	T	C	8172	0.36	0.06	0.00	0.00	35.02
rs375972570	Ethylmalonate levels	GCST90200705	13	77605947	G	A	8172	0.42	0.08	0.00	0.00	24.90
rs1415019	Ethylmalonate levels	GCST90200705	13	103790182	T	C	8172	0.07	0.02	0.00	0.00	20.61
rs147023777	Ethylmalonate levels	GCST90200705	15	76193480	A	G	8172	0.29	0.05	0.00	0.00	32.04
rs72817412	Ethylmalonate levels	GCST90200705	16	89075082	T	C	8172	0.32	0.04	0.00	0.01	74.83
rs8182228	Ethylmalonate levels	GCST90200705	16	89114287	T	C	8172	-0.14	0.02	0.00	0.00	40.58
rs5992991	Ethylmalonate levels	GCST90200705	22	18071042	A	C	8172	0.17	0.04	0.00	0.00	23.54
rs78439516	Ethylmalonate levels	GCST90200705	22	33130177	C	G	8172	-0.07	0.02	0.00	0.00	20.29
rs134853	Ethylmalonate levels	GCST90200705	22	45653827	T	C	8172	0.07	0.02	0.00	0.00	20.42
rs637253	Biliverdin levels	GCST90200706	1	56962708	G	A	8262	-0.07	0.02	0.00	0.00	22.73
rs12409128	Biliverdin levels	GCST90200706	1	198764719	T	C	8262	-0.25	0.05	0.00	0.00	24.11
rs62182849	Biliverdin levels	GCST90200706	2	203594924	A	G	8262	-0.09	0.02	0.00	0.00	21.56
rs6759896	Biliverdin levels	GCST90200706	2	233302326	A	G	8262	-0.09	0.01	0.00	0.01	41.59
rs887829	Biliverdin levels	GCST90200706	2	233759924	T	C	8262	0.59	0.01	0.00	0.17	#####
rs13088138	Biliverdin levels	GCST90200706	3	5227370	T	C	8262	0.17	0.04	0.00	0.00	19.55
rs13086160	Biliverdin levels	GCST90200706	3	24916503	T	C	8262	-0.07	0.02	0.00	0.00	20.45
rs9877763	Biliverdin levels	GCST90200706	3	28974971	G	A	8262	0.09	0.02	0.00	0.00	21.96
rs58145975	Biliverdin levels	GCST90200706	3	68744267	T	C	8262	0.09	0.02	0.00	0.00	21.00
rs7636012	Biliverdin levels	GCST90200706	3	155547651	C	G	8262	0.14	0.03	0.00	0.00	20.18
rs62305809	Biliverdin levels	GCST90200706	4	59650798	A	G	8262	0.19	0.04	0.00	0.00	21.15
rs139226886	Biliverdin levels	GCST90200706	5	50811678	G	T	8262	-0.33	0.07	0.00	0.00	19.76
rs62370656	Biliverdin levels	GCST90200706	5	60221351	G	A	8262	-0.16	0.04	0.00	0.00	20.00
rs115604819	Biliverdin levels	GCST90200706	5	107987020	T	C	8262	0.26	0.05	0.00	0.00	23.54
rs36074023	Biliverdin levels	GCST90200706	5	152480411	A	G	8262	-0.11	0.02	0.00	0.00	21.63
rs72832593	Biliverdin levels	GCST90200706	6	25957198	C	T	8262	0.10	0.02	0.00	0.00	19.70
rs385159	Biliverdin levels	GCST90200706	6	89195707	C	A	8262	0.07	0.02	0.00	0.00	22.20
rs201417854	Biliverdin levels	GCST90200706	6	93632160	G	A	8262	-0.08	0.02	0.00	0.00	23.20
rs2340846	Biliverdin levels	GCST90200706	7	3413747	G	C	8262	0.08	0.02	0.00	0.00	20.28
rs1394470	Biliverdin levels	GCST90200706	8	4172935	T	C	8262	0.07	0.01	0.00	0.00	21.79
rs9644044	Biliverdin levels	GCST90200706	8	25719133	C	G	8262	0.08	0.02	0.00	0.00	20.43
rs34524245	Biliverdin levels	GCST90200706	8	71329727	T	G	8262	-0.07	0.02	0.00	0.00	20.18
rs143938732	Biliverdin levels	GCST90200706	8	144520914	A	C	8262	0.46	0.09	0.00	0.00	24.77
rs77661988	Biliverdin levels	GCST90200706	10	14622947	T	C	8262	0.24	0.05	0.00	0.00	19.71
rs591784	Biliverdin levels	GCST90200706	10	104176532	T	G	8262	0.07	0.01	0.00	0.00	20.74
rs1871395	Biliverdin levels	GCST90200706	12	21199381	G	A	8262	0.16	0.02	0.00	0.01	62.44
rs10842538	Biliverdin levels	GCST90200706	12	25346408	C	T	8262	-0.16	0.03	0.00	0.00	20.39

rs77804996	Biliverdin levels	GCST90200706	13	110588679	C	T	8262	-0.23	0.05	0.00	0.00	21.29
rs12460401	Biliverdin levels	GCST90200706	19	31282667	A	G	8262	0.28	0.06	0.00	0.00	20.90
rs4646961	Glycine levels	GCST90200707	1	75751484	A	G	8262	0.09	0.02	0.00	0.00	32.40
rs55967510	Glycine levels	GCST90200707	2	5353703	A	G	8262	0.09	0.02	0.00	0.00	20.39
rs12104641	Glycine levels	GCST90200707	2	190782978	G	C	8262	0.09	0.02	0.00	0.00	19.88
rs74561492	Glycine levels	GCST90200707	2	210435778	T	C	8262	0.17	0.04	0.00	0.00	21.60
rs1047891	Glycine levels	GCST90200707	2	210675783	A	C	8262	0.57	0.01	0.00	0.15	#####
rs1992855	Glycine levels	GCST90200707	3	126190826	C	T	8262	0.08	0.02	0.00	0.00	31.05
rs6535947	Glycine levels	GCST90200707	4	153713963	G	T	8262	-0.08	0.02	0.00	0.00	24.60
rs4703847	Glycine levels	GCST90200707	5	81768039	C	T	8262	-0.08	0.02	0.00	0.00	20.74
rs9322477	Glycine levels	GCST90200707	6	154763251	C	T	8262	-0.07	0.02	0.00	0.00	20.78
rs1975643	Glycine levels	GCST90200707	7	32407162	A	C	8262	0.07	0.02	0.00	0.00	20.34
rs13241866	Glycine levels	GCST90200707	7	56023185	G	C	8262	0.09	0.02	0.00	0.00	29.76
rs56111611	Glycine levels	GCST90200707	7	82580491	C	T	8262	0.08	0.02	0.00	0.00	20.01
rs62497087	Glycine levels	GCST90200707	7	97400680	T	G	8262	0.14	0.03	0.00	0.00	19.98
rs2126263	Glycine levels	GCST90200707	8	9324101	A	G	8262	-0.12	0.03	0.00	0.00	23.28
rs11781703	Glycine levels	GCST90200707	8	133405258	G	C	8262	0.08	0.02	0.00	0.00	20.15
rs2297442	Glycine levels	GCST90200707	9	6540540	C	T	8262	-0.12	0.02	0.00	0.01	54.91
rs7873576	Glycine levels	GCST90200707	9	38717391	T	C	8262	0.09	0.02	0.00	0.00	19.74
rs4930767	Glycine levels	GCST90200707	12	5488215	C	T	8262	-0.07	0.02	0.00	0.00	20.92
rs150779026	Glycine levels	GCST90200707	12	16540668	T	C	8262	0.25	0.06	0.00	0.00	20.29
rs10848157	Glycine levels	GCST90200707	12	130606816	A	G	8262	-0.07	0.01	0.00	0.00	21.60
rs11842416	Glycine levels	GCST90200707	13	45461735	C	T	8262	-0.09	0.02	0.00	0.00	23.01
rs4889235	Glycine levels	GCST90200707	16	81110033	A	G	8262	0.13	0.03	0.00	0.00	22.35
rs34962409	Glycine levels	GCST90200707	19	14989265	T	A	8262	-0.08	0.02	0.00	0.00	25.51
rs145086328	X-12112 levels	GCST90200708	1	10184875	A	G	8211	-0.25	0.06	0.00	0.00	20.04
rs140623588	X-12112 levels	GCST90200708	1	112297768	A	G	8211	-0.24	0.05	0.00	0.00	21.32
rs114678589	X-12112 levels	GCST90200708	1	239845555	T	C	8211	-0.26	0.06	0.00	0.00	21.25
rs79264457	X-12112 levels	GCST90200708	2	50228926	A	C	8211	0.16	0.04	0.00	0.00	20.05
rs10168931	X-12112 levels	GCST90200708	2	73650092	A	G	8211	-0.13	0.02	0.00	0.01	46.97
rs150590714	X-12112 levels	GCST90200708	2	142466658	C	G	8211	0.33	0.07	0.00	0.00	19.67
rs9829255	X-12112 levels	GCST90200708	3	61713184	T	C	8211	-0.09	0.02	0.00	0.00	20.75
rs115668227	X-12112 levels	GCST90200708	3	143209502	A	G	8211	-0.34	0.08	0.00	0.00	20.07
rs3806620	X-12112 levels	GCST90200708	3	193240357	C	A	8211	0.08	0.02	0.00	0.00	19.55
rs114653616	X-12112 levels	GCST90200708	4	41164706	C	T	8211	-0.20	0.04	0.00	0.00	22.81
rs180851257	X-12112 levels	GCST90200708	4	54048156	C	T	8211	-0.29	0.06	0.00	0.00	19.87
rs115554808	X-12112 levels	GCST90200708	4	149571194	A	G	8211	0.16	0.04	0.00	0.00	20.69
rs7681760	X-12112 levels	GCST90200708	4	159677956	G	A	8211	0.07	0.02	0.00	0.00	20.54
rs37370	X-12112 levels	GCST90200708	5	35039381	T	C	8211	0.17	0.03	0.00	0.00	41.13
rs78823077	X-12112 levels	GCST90200708	5	119633647	G	A	8211	0.19	0.04	0.00	0.00	23.37
rs5012511	X-12112 levels	GCST90200708	6	5572966	G	A	8211	-0.09	0.02	0.00	0.00	20.31
rs80254170	X-12112 levels	GCST90200708	6	160093251	G	A	8211	-0.14	0.03	0.00	0.00	24.62
rs662138	X-12112 levels	GCST90200708	6	160143444	G	C	8211	-0.12	0.02	0.00	0.00	35.54
rs7810885	X-12112 levels	GCST90200708	7	104084676	G	A	8211	-0.15	0.03	0.00	0.00	19.67
rs12338219	X-12112 levels	GCST90200708	9	8885739	T	C	8211	0.09	0.02	0.00	0.00	21.55
rs117218693	X-12112 levels	GCST90200708	9	118766489	T	G	8211	-0.34	0.08	0.00	0.00	19.99
rs11253048	X-12112 levels	GCST90200708	10	5219196	G	A	8211	0.16	0.02	0.00	0.01	64.46
rs4917820	X-12112 levels	GCST90200708	10	98348779	T	C	8211	0.60	0.01	0.00	0.17	#####
rs11517049	X-12112 levels	GCST90200708	10	98449905	T	G	8211	0.39	0.04	0.00	0.01	101.28
rs139422316	X-12112 levels	GCST90200708	10	98458935	C	G	8211	-0.41	0.09	0.00	0.00	20.99
rs76329610	X-12112 levels	GCST90200708	10	98500918	G	A	8211	-0.19	0.04	0.00	0.00	21.10
rs11189713	X-12112 levels	GCST90200708	10	98605856	T	C	8211	-0.32	0.04	0.00	0.01	53.93
rs151271070	X-12112 levels	GCST90200708	10	99383692	T	C	8211	-0.30	0.06	0.00	0.00	23.31
rs116875976	X-12112 levels	GCST90200708	10	99422468	A	G	8211	-0.29	0.06	0.00	0.00	20.23
rs17103984	X-12112 levels	GCST90200708	11	105215007	A	G	8211	0.23	0.05	0.00	0.00	20.26
rs79367656	X-12112 levels	GCST90200708	11	107013791	T	A	8211	-0.18	0.04	0.00	0.00	21.46
rs79405165	X-12112 levels	GCST90200708	13	23776829	G	A	8211	-0.29	0.06	0.00	0.00	21.72
rs7325329	X-12112 levels	GCST90200708	13	23981732	C	G	8211	0.08	0.02	0.00	0.00	22.76
rs11622277	X-12112 levels	GCST90200708	14	77569917	G	A	8211	-0.07	0.02	0.00	0.00	20.64

rs1955910	X-12112 levels	GCST90200708	14	90475410	A	T	8211	-0.08	0.02	0.00	0.00	20.60
rs113851696	X-12112 levels	GCST90200708	18	66044404	A	C	8211	0.20	0.04	0.00	0.00	20.75
rs10164318	X-12112 levels	GCST90200708	19	32968392	G	T	8211	0.12	0.02	0.00	0.01	54.49
rs3746805	X-12112 levels	GCST90200708	20	763806	A	G	8211	-0.07	0.02	0.00	0.00	19.78
rs6108309	X-12112 levels	GCST90200708	20	1022613	G	A	8211	-0.09	0.02	0.00	0.00	21.07
rs74843170	X-12798 levels	GCST90200709	1	84459338	C	T	8186	-0.43	0.10	0.00	0.00	19.53
rs115636764	X-12798 levels	GCST90200709	1	109720904	A	T	8186	0.16	0.03	0.00	0.00	28.82
rs140763839	X-12798 levels	GCST90200709	1	187467669	A	G	8186	-0.39	0.09	0.00	0.00	21.45
rs72655377	X-12798 levels	GCST90200709	1	247458850	T	C	8186	-0.10	0.02	0.00	0.00	19.70
rs1344814	X-12798 levels	GCST90200709	2	221061209	T	C	8186	0.09	0.02	0.00	0.00	21.58
rs187605299	X-12798 levels	GCST90200709	5	57370609	A	G	8186	-0.29	0.06	0.00	0.00	20.83
rs157572	X-12798 levels	GCST90200709	5	132290419	G	C	8186	0.10	0.02	0.00	0.00	30.94
rs186626839	X-12798 levels	GCST90200709	5	139732697	A	T	8186	0.19	0.04	0.00	0.00	24.14
rs77010315	X-12798 levels	GCST90200709	5	151343594	A	C	8186	-0.35	0.07	0.00	0.00	23.71
rs1177442	X-12798 levels	GCST90200709	6	25808841	G	A	8186	-0.10	0.02	0.00	0.01	43.61
rs142115877	X-12798 levels	GCST90200709	6	107595533	G	A	8186	-0.29	0.07	0.00	0.00	19.52
rs117811161	X-12798 levels	GCST90200709	6	160133109	T	C	8186	-0.41	0.07	0.00	0.00	38.32
rs34130495	X-12798 levels	GCST90200709	6	160139792	A	G	8186	0.22	0.05	0.00	0.00	20.46
rs77759957	X-12798 levels	GCST90200709	6	160204897	G	A	8186	0.21	0.05	0.00	0.00	19.72
rs520266	X-12798 levels	GCST90200709	6	160207244	C	T	8186	0.97	0.02	0.00	0.16	#####
rs62445278	X-12798 levels	GCST90200709	7	21684434	C	T	8186	-0.10	0.02	0.00	0.00	20.59
rs55810857	X-12798 levels	GCST90200709	7	126851297	T	C	8186	-0.11	0.02	0.00	0.00	19.60
rs115408603	X-12798 levels	GCST90200709	8	17918384	T	C	8186	-0.29	0.07	0.00	0.00	19.62
rs4269529	X-12798 levels	GCST90200709	8	66311811	C	T	8186	-0.21	0.05	0.00	0.00	19.64
rs113250511	X-12798 levels	GCST90200709	10	17546719	T	C	8186	0.10	0.02	0.00	0.00	20.82
rs117694379	X-12798 levels	GCST90200709	10	50726268	T	A	8186	0.23	0.05	0.00	0.00	22.39
rs1171615	X-12798 levels	GCST90200709	10	59709332	T	C	8186	-0.28	0.02	0.00	0.03	230.04
rs138190991	X-12798 levels	GCST90200709	10	59984318	A	T	8186	0.20	0.05	0.00	0.00	20.13
rs72989918	X-12798 levels	GCST90200709	11	75508185	T	C	8186	0.15	0.03	0.00	0.00	20.11
rs10774038	X-12798 levels	GCST90200709	12	266620	T	C	8186	-0.07	0.02	0.00	0.00	20.01
rs71448668	X-12798 levels	GCST90200709	12	23188703	T	C	8186	0.15	0.03	0.00	0.00	20.34
rs117664515	X-12798 levels	GCST90200709	13	98383340	A	T	8186	0.25	0.05	0.00	0.00	23.61
rs56401113	X-12798 levels	GCST90200709	13	113273170	G	A	8186	0.14	0.03	0.00	0.00	20.42
rs1041010	X-12798 levels	GCST90200709	14	96754590	C	A	8186	-0.11	0.02	0.00	0.00	21.61
rs2460451	X-12798 levels	GCST90200709	16	89631384	A	C	8186	-0.07	0.02	0.00	0.00	20.17
rs2453576	X-12798 levels	GCST90200709	17	19547698	C	G	8186	0.08	0.02	0.00	0.00	20.92
rs1917915	X-12798 levels	GCST90200709	18	5748544	G	A	8186	0.07	0.02	0.00	0.00	21.01
rs113448791	X-12798 levels	GCST90200709	18	52637591	A	G	8186	0.14	0.03	0.00	0.00	22.45
rs117843242	X-12798 levels	GCST90200709	18	64332115	T	C	8186	-0.25	0.05	0.00	0.00	21.35
rs123698	X-12798 levels	GCST90200709	19	807442	C	G	8186	0.08	0.02	0.00	0.00	20.56
rs16835654	X-13431 levels	GCST90200710	1	33593311	C	T	8161	0.16	0.04	0.00	0.00	21.50
rs114441298	X-13431 levels	GCST90200710	1	58949776	A	T	8161	0.55	0.12	0.00	0.00	19.68
rs76596883	X-13431 levels	GCST90200710	1	75619841	C	T	8161	-0.23	0.04	0.00	0.00	31.55
rs16833670	X-13431 levels	GCST90200710	1	151950037	G	A	8161	0.24	0.02	0.00	0.03	216.75
rs7555149	X-13431 levels	GCST90200710	1	206568935	T	C	8161	-0.07	0.02	0.00	0.00	20.05
rs7549940	X-13431 levels	GCST90200710	1	226028494	C	G	8161	-0.07	0.02	0.00	0.00	20.15
rs62160263	X-13431 levels	GCST90200710	2	127410868	C	T	8161	0.15	0.03	0.00	0.00	20.02
rs4243387	X-13431 levels	GCST90200710	2	177253037	T	C	8161	0.11	0.02	0.00	0.00	20.84
rs3738934	X-13431 levels	GCST90200710	2	210009522	C	T	8161	0.59	0.01	0.00	0.17	#####
rs111973496	X-13431 levels	GCST90200710	2	210612653	G	A	8161	0.35	0.06	0.00	0.00	34.10
rs114764732	X-13431 levels	GCST90200710	2	210616309	G	A	8161	0.19	0.04	0.00	0.00	20.62
rs71422705	X-13431 levels	GCST90200710	2	210651780	T	C	8161	-0.16	0.03	0.00	0.00	35.91
rs462692	X-13431 levels	GCST90200710	5	112894355	G	T	8161	0.07	0.02	0.00	0.00	20.48
rs116779278	X-13431 levels	GCST90200710	6	34503548	T	C	8161	-0.15	0.03	0.00	0.00	20.94
rs1421237	X-13431 levels	GCST90200710	8	15756628	C	T	8161	-0.21	0.04	0.00	0.00	24.84

rs112432725	X-13431 levels	GCST90200710	9	121280540	T	C	8161	0.25	0.05	0.00	0.00	23.22
rs72766721	X-13431 levels	GCST90200710	10	1620355	A	C	8161	-0.15	0.03	0.00	0.00	22.13
rs140483138	X-13431 levels	GCST90200710	10	24967740	C	T	8161	0.31	0.07	0.00	0.00	21.92
rs75980020	X-13431 levels	GCST90200710	10	62601754	A	G	8161	0.17	0.04	0.00	0.00	22.84
rs180800516	X-13431 levels	GCST90200710	11	17102306	A	G	8161	-0.29	0.06	0.00	0.00	20.23
rs61884149	X-13431 levels	GCST90200710	11	18170790	A	C	8161	0.26	0.06	0.00	0.00	19.51
rs12896120	X-13431 levels	GCST90200710	14	63914830	C	T	8161	0.13	0.03	0.00	0.00	19.87
rs7175290	X-13431 levels	GCST90200710	15	37174354	A	T	8161	-0.07	0.02	0.00	0.00	20.13
rs56030089	X-13431 levels	GCST90200710	15	79669909	T	A	8161	-0.07	0.02	0.00	0.00	19.79
rs79474310	X-13431 levels	GCST90200710	16	10117874	A	T	8161	-0.28	0.06	0.00	0.00	22.15
rs62086985	X-13431 levels	GCST90200710	18	26417435	T	C	8161	0.11	0.02	0.00	0.00	19.90
rs78935053	X-13431 levels	GCST90200710	18	27079999	A	G	8161	-0.31	0.07	0.00	0.00	21.06
rs117989866	X-13431 levels	GCST90200710	19	45164469	A	G	8161	-0.38	0.08	0.00	0.00	22.44
rs879523	X-13431 levels	GCST90200710	19	56026084	C	A	8161	0.07	0.02	0.00	0.00	22.34
rs56146099	X-13431 levels	GCST90200710	19	57869062	A	G	8161	0.26	0.06	0.00	0.00	19.52
rs116872586	X-13431 levels	GCST90200710	21	26967601	G	A	8161	0.24	0.05	0.00	0.00	20.89
rs66676731	X-19141 levels	GCST90200711	1	229233715	A	G	8244	0.07	0.02	0.00	0.00	19.74
rs149929902	X-19141 levels	GCST90200711	2	217075006	T	C	8244	-0.42	0.09	0.00	0.00	20.33
rs6442013	X-19141 levels	GCST90200711	3	46659223	T	C	8244	-0.13	0.03	0.00	0.00	20.08
rs4263293	X-19141 levels	GCST90200711	3	86237809	G	A	8244	0.08	0.02	0.00	0.00	25.24
rs62266362	X-19141 levels	GCST90200711	3	108513813	A	G	8244	-0.23	0.05	0.00	0.00	24.46
rs1319737	X-19141 levels	GCST90200711	3	174159317	C	T	8244	-0.09	0.02	0.00	0.00	19.56
rs62316045	X-19141 levels	GCST90200711	4	68328036	T	C	8244	-0.11	0.02	0.00	0.01	42.97
rs2603187	X-19141 levels	GCST90200711	4	68474782	G	A	8244	-0.58	0.01	0.00	0.16	#####
rs138762595	X-19141 levels	GCST90200711	4	68654157	A	G	8244	-0.71	0.07	0.00	0.01	117.74
rs2331568	X-19141 levels	GCST90200711	4	68978869	G	A	8244	0.14	0.02	0.00	0.01	57.10
rs143078878	X-19141 levels	GCST90200711	4	184371831	T	C	8244	0.35	0.07	0.00	0.00	21.76
rs73385432	X-19141 levels	GCST90200711	6	721497	C	T	8244	0.16	0.03	0.00	0.00	22.58
rs2762353	X-19141 levels	GCST90200711	6	25794203	G	A	8244	-0.33	0.01	0.00	0.06	505.18
rs6901118	X-19141 levels	GCST90200711	6	26399358	T	C	8244	-0.15	0.03	0.00	0.00	21.27
rs3130781	X-19141 levels	GCST90200711	6	30946775	C	T	8244	-0.09	0.02	0.00	0.00	24.16
rs144611344	X-19141 levels	GCST90200711	7	33507592	C	T	8244	0.29	0.06	0.00	0.00	21.99
rs76510768	X-19141 levels	GCST90200711	8	16185898	C	T	8244	-0.23	0.05	0.00	0.00	19.65
rs76991948	X-19141 levels	GCST90200711	8	29752529	A	G	8244	-0.23	0.05	0.00	0.00	22.31
rs12680514	X-19141 levels	GCST90200711	8	32108983	G	A	8244	0.15	0.03	0.00	0.00	19.51
rs55716278	X-19141 levels	GCST90200711	10	92438437	G	A	8244	0.12	0.03	0.00	0.00	20.16
rs72713663	X-19141 levels	GCST90200711	14	101692735	A	G	8244	-0.14	0.03	0.00	0.00	20.78
rs76606743	X-19141 levels	GCST90200711	16	77796560	G	A	8244	-0.18	0.04	0.00	0.00	20.57
rs112696717	X-19141 levels	GCST90200711	17	75960987	A	T	8244	-0.16	0.03	0.00	0.00	23.54
rs71356431	X-19141 levels	GCST90200711	18	43818596	C	T	8244	0.21	0.04	0.00	0.00	27.05
rs11084564	X-19141 levels	GCST90200711	19	30830658	T	C	8244	0.07	0.02	0.00	0.00	20.05
rs56167663	5-methylthioadenosine (MTA) ratio Spermidine to	GCST90200712	1	171772619	G	A	7320	0.10	0.02	0.00	0.00	23.58
rs3811444	5-methylthioadenosine (MTA) ratio Spermidine to	GCST90200712	1	247876149	T	C	7320	0.08	0.02	0.00	0.00	23.10
rs2957566	5-methylthioadenosine (MTA) ratio Spermidine to	GCST90200712	2	18032156	A	G	7320	-0.13	0.03	0.00	0.00	20.25
rs72780363	5-methylthioadenosine (MTA) ratio	GCST90200712	2	23586021	A	G	7320	-0.35	0.08	0.00	0.00	21.31

rs14827153 7	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	2	129901476	A	T	7320	-0.51	0.11	0.00	0.00	20.51
rs715	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	2	210678331	C	T	7320	0.09	0.02	0.00	0.00	24.17
rs1354034	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	3	56815721	C	T	7320	0.09	0.02	0.00	0.00	28.72
rs9799114	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	3	148761253	A	T	7320	-0.13	0.02	0.00	0.00	26.70
rs62432529	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	6	138612327	G	T	7320	-0.17	0.04	0.00	0.00	24.54
rs10155886	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	7	84063282	C	T	7320	0.08	0.02	0.00	0.00	20.91
rs10429299	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	8	87869203	C	T	7320	0.10	0.02	0.00	0.00	26.50
rs10107978	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	8	118123300	T	C	7320	0.10	0.02	0.00	0.00	19.90
rs2178798	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	11	254869	C	G	7320	0.08	0.02	0.00	0.00	19.74
rs6592482	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	11	72725324	T	C	7320	0.89	0.18	0.00	0.00	23.45
rs74569884	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	12	30821178	T	C	7320	-0.16	0.04	0.00	0.00	21.10
rs7140119	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	13	80989603	A	G	7320	-0.31	0.07	0.00	0.00	22.32
rs14609810 4	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	14	67605692	T	A	7320	0.45	0.09	0.00	0.00	23.22
rs11348188 2	Spermidine to 5- methylthioade nosine (MTA) ratio	GCST90200712	16	27186837	A	G	7320	0.16	0.03	0.00	0.00	20.62

rs57366543	Spermidine to 5-methylthioadenosine (MTA) ratio	GCST90200712	16	50058730	A	G	7320	0.09	0.02	0.00	0.00	19.69
rs212469	Spermidine to 5-methylthioadenosine (MTA) ratio	GCST90200712	17	34397322	A	C	7320	-0.09	0.02	0.00	0.00	23.44
rs7525692	Spermidine to ornithine ratio	GCST90200713	1	24280302	T	C	7309	0.08	0.02	0.00	0.00	20.50
rs3811444	Spermidine to ornithine ratio	GCST90200713	1	247876149	T	C	7309	0.10	0.02	0.00	0.00	33.87
rs59066200	Spermidine to ornithine ratio	GCST90200713	2	52917149	A	G	7309	-0.22	0.05	0.00	0.00	21.98
rs77376288	Spermidine to ornithine ratio	GCST90200713	2	80717604	C	T	7309	-0.39	0.09	0.00	0.00	20.22
rs1354034	Spermidine to ornithine ratio	GCST90200713	3	56815721	C	T	7309	0.08	0.02	0.00	0.00	21.75
rs78708293	Spermidine to ornithine ratio	GCST90200713	4	7229623	A	G	7309	0.33	0.07	0.00	0.00	22.42
rs148665639	Spermidine to ornithine ratio	GCST90200713	5	138772560	G	A	7309	-0.42	0.08	0.00	0.00	25.03
rs7013881	Spermidine to ornithine ratio	GCST90200713	8	8644061	C	T	7309	-0.08	0.02	0.00	0.00	20.08
rs6985978	Spermidine to ornithine ratio	GCST90200713	8	65256615	A	G	7309	0.09	0.02	0.00	0.00	20.66
rs2136613	Spermidine to ornithine ratio	GCST90200713	10	62834404	T	C	7309	0.08	0.02	0.00	0.00	20.55
rs2178798	Spermidine to ornithine ratio	GCST90200713	11	254869	C	G	7309	0.09	0.02	0.00	0.00	27.67
rs74922937	Spermidine to ornithine ratio	GCST90200713	13	91177310	A	G	7309	0.22	0.05	0.00	0.00	19.54
rs149095026	Spermidine to ornithine ratio	GCST90200713	14	67662825	G	C	7309	0.43	0.09	0.00	0.00	23.72
rs141586656	Spermidine to ornithine ratio	GCST90200713	16	67577329	G	A	7309	-0.32	0.07	0.00	0.00	22.98
rs79121515	Spermidine to ornithine ratio	GCST90200713	16	76376973	G	A	7309	-0.26	0.06	0.00	0.00	21.13
rs72799097	Spermidine to ornithine ratio	GCST90200713	16	78724717	G	A	7309	0.31	0.07	0.00	0.00	20.48
rs62060100	Spermidine to ornithine ratio	GCST90200713	17	50293588	C	T	7309	0.21	0.05	0.00	0.00	20.82
rs34330203	Spermidine to ornithine ratio	GCST90200713	19	50596845	G	T	7309	-0.08	0.02	0.00	0.00	20.31
rs137856098	Alpha-ketoglutarate to alpha-ketobutyrate ratio	GCST90200714	1	213591685	C	G	8216	-0.33	0.07	0.00	0.00	20.16
rs115663722	Alpha-ketoglutarate to alpha-ketobutyrate ratio	GCST90200714	1	242354411	T	C	8216	0.35	0.07	0.00	0.00	25.99
rs116583151	Alpha-ketoglutarate to alpha-ketobutyrate ratio	GCST90200714	2	10742560	T	C	8216	0.26	0.06	0.00	0.00	21.31
rs142181295	Alpha-ketoglutarate to alpha-ketobutyrate ratio	GCST90200714	2	33144966	C	G	8216	-0.38	0.09	0.00	0.00	20.30
rs6887024	Alpha-ketoglutarate to alpha-ketobutyrate ratio	GCST90200714	5	66793707	A	G	8216	-0.07	0.02	0.00	0.00	20.92

rs67467629	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	5	84787966	A	G	8216	-0.09	0.02	0.00	0.00	20.76
rs59842359	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	6	44138192	T	C	8216	0.09	0.02	0.00	0.00	20.18
rs79587818	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	8	28823499	C	G	8216	0.14	0.03	0.00	0.00	22.03
rs62511715	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	8	115241305	A	G	8216	-0.12	0.03	0.00	0.00	19.63
rs14130892 2	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	8	144567718	C	T	8216	0.22	0.05	0.00	0.00	20.93
rs14245477 2	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	11	42892790	T	C	8216	0.39	0.09	0.00	0.00	20.18
rs548893	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	11	117322903	G	C	8216	-0.07	0.02	0.00	0.00	19.79
rs7123193	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	11	132186092	T	C	8216	0.10	0.02	0.00	0.00	21.06
rs35916217	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	13	89980657	A	G	8216	0.34	0.07	0.00	0.00	21.51
rs1956456	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	14	94176625	T	C	8216	0.10	0.02	0.00	0.00	22.35
rs12903386	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	15	66208657	G	A	8216	-0.07	0.02	0.00	0.00	20.66
rs1651666	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	16	57022596	T	C	8216	0.08	0.02	0.00	0.00	23.72
rs2222570	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	18	30059245	G	A	8216	0.08	0.02	0.00	0.00	21.63
rs1893408	Alpha- ketoglutarate to alpha- ketobutyrate ratio	GCST90200714	18	51608261	C	A	8216	-0.08	0.02	0.00	0.00	22.87

rs55898369	Alpha-ketoglutarate to alpha-ketobutyrate ratio	GCST90200714	19	6358481	T	C	8216	-0.22	0.05	0.00	0.00	22.54
rs113615864	Alpha-ketoglutarate to alpha-ketobutyrate ratio	GCST90200714	22	26539641	T	C	8216	-0.22	0.05	0.00	0.00	19.60
rs73162337	Alpha-ketoglutarate to alpha-ketobutyrate ratio	GCST90200714	22	27637994	C	T	8216	0.09	0.02	0.00	0.00	19.53
rs12023256	Alpha-ketoglutarate to glutamate ratio	GCST90200715	1	64740940	T	C	8274	0.12	0.02	0.00	0.00	22.46
rs72702247	Alpha-ketoglutarate to glutamate ratio	GCST90200715	1	155023444	A	G	8274	0.39	0.08	0.00	0.00	21.36
rs76937285	Alpha-ketoglutarate to glutamate ratio	GCST90200715	2	14917610	T	C	8274	0.09	0.02	0.00	0.00	25.30
rs62163128	Alpha-ketoglutarate to glutamate ratio	GCST90200715	2	85731522	C	T	8274	-0.13	0.03	0.00	0.00	22.72
rs150767510	Alpha-ketoglutarate to glutamate ratio	GCST90200715	2	238187575	C	T	8274	-0.41	0.08	0.00	0.00	23.23
rs34991203	Alpha-ketoglutarate to glutamate ratio	GCST90200715	4	40659886	C	T	8274	0.07	0.02	0.00	0.00	24.15
rs35225143	Alpha-ketoglutarate to glutamate ratio	GCST90200715	5	151567219	A	C	8274	-0.13	0.03	0.00	0.00	22.46
rs146056879	Alpha-ketoglutarate to glutamate ratio	GCST90200715	6	48236863	T	A	8274	0.12	0.03	0.00	0.00	20.68
rs4897566	Alpha-ketoglutarate to glutamate ratio	GCST90200715	6	132196195	T	C	8274	0.07	0.01	0.00	0.00	20.56
rs78435611	Alpha-ketoglutarate to glutamate ratio	GCST90200715	7	16352832	C	T	8274	-0.17	0.04	0.00	0.00	21.23
rs144820606	Alpha-ketoglutarate to glutamate ratio	GCST90200715	7	135656729	A	G	8274	0.26	0.06	0.00	0.00	20.15
rs117698037	Alpha-ketoglutarate to glutamate ratio	GCST90200715	8	28150431	A	C	8274	-0.17	0.04	0.00	0.00	20.99
rs28457828	Alpha-ketoglutarate to glutamate ratio	GCST90200715	8	54538582	T	C	8274	-0.08	0.02	0.00	0.00	20.59
rs34655650	Alpha-ketoglutarate to glutamate ratio	GCST90200715	9	15560957	G	A	8274	-0.08	0.02	0.00	0.00	20.36

rs4880005	Alpha- ketoglutarate to glutamate ratio	GCST90200715	9	36749336	T	G	8274	-0.07	0.01	0.00	0.00	22.00
rs449682	Alpha- ketoglutarate to glutamate ratio	GCST90200715	10	7963322	G	A	8274	0.08	0.02	0.00	0.00	20.04
rs2480790	Alpha- ketoglutarate to glutamate ratio	GCST90200715	10	114009013	A	C	8274	0.07	0.02	0.00	0.00	22.90
rs14370968 6	Alpha- ketoglutarate to glutamate ratio	GCST90200715	11	9566929	C	G	8274	-0.25	0.06	0.00	0.00	19.75
rs10734380	Alpha- ketoglutarate to glutamate ratio	GCST90200715	11	26647548	A	G	8274	-0.07	0.02	0.00	0.00	23.43
rs11746008 6	Alpha- ketoglutarate to glutamate ratio	GCST90200715	11	36071522	G	A	8274	-0.17	0.04	0.00	0.00	19.84
rs75475203	Alpha- ketoglutarate to glutamate ratio	GCST90200715	12	84523979	C	T	8274	0.27	0.06	0.00	0.00	20.47
rs4941748	Alpha- ketoglutarate to glutamate ratio	GCST90200715	13	33268787	T	C	8274	-0.08	0.02	0.00	0.00	19.84
rs61966613	Alpha- ketoglutarate to glutamate ratio	GCST90200715	13	92286499	C	T	8274	0.14	0.03	0.00	0.00	21.06
rs732912	Alpha- ketoglutarate to glutamate ratio	GCST90200715	14	89682705	A	G	8274	-0.09	0.02	0.00	0.00	21.45
rs12716946	Alpha- ketoglutarate to glutamate ratio	GCST90200715	16	82498892	C	T	8274	-0.08	0.02	0.00	0.00	20.70
rs7223804	Alpha- ketoglutarate to glutamate ratio	GCST90200715	17	17632331	C	G	8274	-0.15	0.03	0.00	0.00	24.47
rs14037528 5	Alpha- ketoglutarate to glutamate ratio	GCST90200715	17	31467653	T	C	8274	-0.28	0.06	0.00	0.00	19.55
rs14674870 2	Alpha- ketoglutarate to glutamate ratio	GCST90200715	17	46766285	G	A	8274	-0.28	0.06	0.00	0.00	25.01
rs8094413	Alpha- ketoglutarate to glutamate ratio	GCST90200715	18	67689234	G	A	8274	-0.16	0.04	0.00	0.00	20.02
rs78350689	Alpha- ketoglutarate to glutamate ratio	GCST90200715	20	18599724	C	T	8274	-0.13	0.03	0.00	0.00	23.29
rs18973107 8	Alpha- ketoglutarate to glutamate ratio	GCST90200715	21	13255015	T	C	8274	-1.95	0.41	0.00	0.00	22.21
rs135586	Alpha- ketoglutarate to glutamate ratio	GCST90200715	22	47602335	G	T	8274	0.07	0.01	0.00	0.00	20.22

rs78058429	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	1	21692132	T	C	4579	0.30	0.07	0.00	0.00	20.00
rs2041870	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	2	7939685	T	A	4579	-0.34	0.07	0.00	0.00	22.98
rs1684277	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	2	239501308	C	T	4579	-0.22	0.05	0.00	0.00	20.18
rs116029918	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	3	21522932	G	C	4579	0.37	0.08	0.00	0.00	21.92
rs113592495	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	3	49109223	G	T	4579	0.13	0.03	0.00	0.00	20.39
rs78479492	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	3	118600849	T	C	4579	-0.18	0.04	0.00	0.00	21.43
rs12696028	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	3	155324681	G	C	4579	0.10	0.02	0.00	0.00	19.98
rs28757678	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	4	31380084	A	C	4579	-0.10	0.02	0.00	0.00	21.08
rs182137031	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	4	83547453	A	C	4579	-0.43	0.10	0.00	0.00	20.23
rs41275676	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	4	94208389	G	A	4579	-0.42	0.09	0.00	0.00	19.91
rs17146662	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	5	120475959	G	A	4579	0.13	0.03	0.00	0.00	20.77
rs62485571	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	8	752085	T	C	4579	0.18	0.04	0.00	0.00	19.66
rs16873402	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	8	105577019	T	C	4579	-0.12	0.02	0.00	0.01	24.72
rs74840765	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	9	85710674	T	C	4579	0.34	0.08	0.00	0.00	19.50

rs1013282	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	9	119664131	T	C	4579	-0.10	0.02	0.00	0.00	20.24
rs10899251	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	11	76677557	G	A	4579	-0.14	0.03	0.00	0.00	19.60
rs1461567	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	12	43770886	A	G	4579	-0.10	0.02	0.00	0.00	19.96
rs11203639 4	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	16	4812786	C	T	4579	-0.16	0.03	0.00	0.01	30.30
rs14559516 7	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	17	14012867	C	T	4579	-0.42	0.09	0.00	0.00	20.29
rs72811196	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	17	33657100	A	G	4579	-0.23	0.05	0.00	0.00	20.15
rs10468503	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	17	54661426	G	A	4579	0.13	0.03	0.00	0.00	20.91
rs4911325	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	20	33334315	T	C	4579	0.10	0.02	0.00	0.01	23.95
rs6094799	Adenosine 5'- diphosphate (ADP) to phosphoethan alamine ratio	GCST90200716	20	47740904	A	G	4579	-0.27	0.06	0.00	0.00	21.18
rs13837905 5	phosphoglycer ate to adenosine 5'- diphosphate (ADP) ratio	GCST90200717	1	1288160	T	C	4530	0.70	0.16	0.00	0.00	20.08
rs9436303	phosphoglycer ate to adenosine 5'- diphosphate (ADP) ratio	GCST90200717	1	65430991	G	A	4530	-0.12	0.02	0.00	0.01	25.59
rs80332390	phosphoglycer ate to adenosine 5'- diphosphate (ADP) ratio	GCST90200717	2	234191055	C	A	4530	-0.27	0.06	0.00	0.00	20.28
rs14262237 3	phosphoglycer ate to adenosine 5'- diphosphate (ADP) ratio	GCST90200717	3	118567183	T	C	4530	0.17	0.04	0.00	0.00	21.55

rs72663992	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	4	86455369	T	C	4530	-0.18	0.03	0.00	0.01	31.16
rs72889798	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	6	51078142	A	G	4530	-0.22	0.05	0.00	0.00	20.68
rs117999906	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	6	117156082	C	T	4530	-0.27	0.06	0.00	0.00	20.00
rs79986557	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	7	46527375	A	G	4530	0.33	0.07	0.00	0.00	19.96
rs7013300	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	8	3783374	C	G	4530	-0.38	0.09	0.00	0.00	20.21
rs10503585	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	8	16856688	C	T	4530	0.10	0.02	0.00	0.00	21.63
rs75524957	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	8	32959641	G	T	4530	-0.40	0.09	0.00	0.00	20.34
rs117951521	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	9	105208228	G	A	4530	0.21	0.04	0.00	0.01	24.58
rs117522656	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	10	63778535	G	C	4530	-0.22	0.04	0.00	0.01	24.98
rs61872851	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	10	121115147	A	G	4530	-0.23	0.05	0.00	0.00	20.78
rs76702239	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	11	94694978	A	G	4530	0.59	0.12	0.00	0.01	23.24
rs78984807	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	11	114848244	A	G	4530	0.16	0.04	0.00	0.00	19.86

rs117739522	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	13	83396878	G	T	4530	-0.37	0.08	0.00	0.01	23.11
rs117329804	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	15	61065932	A	T	4530	-0.66	0.15	0.00	0.00	20.08
rs181323282	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	16	4743323	C	G	4530	0.39	0.09	0.00	0.00	19.59
rs1530382	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	17	54664475	A	T	4530	-0.15	0.03	0.00	0.01	26.16
rs4805877	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	19	33385488	G	A	4530	-0.09	0.02	0.00	0.00	20.17
rs79369357	3-phosphoglycerate to adenosine 5'-diphosphate (ADP) ratio	GCST90200717	22	47566825	T	G	4530	0.43	0.09	0.00	0.01	24.01
rs78862821	Alpha-ketoglutarate to succinate ratio	GCST90200718	1	236413269	G	A	8260	-0.22	0.05	0.00	0.00	21.57
rs11693249	Alpha-ketoglutarate to succinate ratio	GCST90200718	2	19581137	A	G	8260	-0.09	0.02	0.00	0.00	21.74
rs74457103	Alpha-ketoglutarate to succinate ratio	GCST90200718	2	128441569	A	G	8260	-0.16	0.03	0.00	0.00	20.25
rs76884592	Alpha-ketoglutarate to succinate ratio	GCST90200718	2	182648572	G	A	8260	0.25	0.05	0.00	0.00	24.38
rs115236920	Alpha-ketoglutarate to succinate ratio	GCST90200718	2	234120299	T	C	8260	-0.28	0.06	0.00	0.00	22.08
rs425431	Alpha-ketoglutarate to succinate ratio	GCST90200718	5	25810150	C	T	8260	-0.08	0.02	0.00	0.00	26.08
rs75826536	Alpha-ketoglutarate to succinate ratio	GCST90200718	6	20278850	C	A	8260	-0.08	0.02	0.00	0.00	20.76
rs12702582	Alpha-ketoglutarate to succinate ratio	GCST90200718	7	1311056	G	A	8260	0.21	0.05	0.00	0.00	21.06
rs78029194	Alpha-ketoglutarate to succinate ratio	GCST90200718	7	51956292	G	A	8260	0.31	0.07	0.00	0.00	20.37

rs35601292	Alpha- ketoglutarate to succinate ratio	GCST90200718	9	92074850	T	C	8260	0.13	0.03	0.00	0.00	20.39
rs62571321	Alpha- ketoglutarate to succinate ratio	GCST90200718	9	134634280	A	C	8260	-0.11	0.02	0.00	0.00	20.66
rs74154585	Alpha- ketoglutarate to succinate ratio	GCST90200718	10	103675313	T	C	8260	-0.33	0.07	0.00	0.00	20.25
rs72863828	Alpha- ketoglutarate to succinate ratio	GCST90200718	10	132374539	T	C	8260	0.09	0.02	0.00	0.00	23.10
rs10876469	Alpha- ketoglutarate to succinate ratio	GCST90200718	12	53626419	G	T	8260	0.07	0.02	0.00	0.00	19.70
rs75459113	Alpha- ketoglutarate to succinate ratio	GCST90200718	13	67171782	G	A	8260	0.22	0.04	0.00	0.00	34.04
rs113333029	Alpha- ketoglutarate to succinate ratio	GCST90200718	14	78761300	C	T	8260	-0.43	0.09	0.00	0.00	21.12
rs74334194	Alpha- ketoglutarate to succinate ratio	GCST90200718	15	54296661	T	C	8260	0.77	0.17	0.00	0.00	19.88
rs12599704	Alpha- ketoglutarate to succinate ratio	GCST90200718	16	86633055	G	T	8260	0.10	0.02	0.00	0.00	19.66
rs7263282	Alpha- ketoglutarate to succinate ratio	GCST90200718	20	48036477	A	T	8260	0.07	0.02	0.00	0.00	21.84
rs76936055	Alpha- ketoglutarate to succinate ratio	GCST90200718	20	61113456	C	T	8260	-0.25	0.06	0.00	0.00	20.12
rs78174104	Adenosine 3',5'-cyclic monophosphat e (cAMP) to adenosine 5'- monophosphat e (AMP) ratio	GCST90200719	2	106874562	A	G	6726	0.15	0.03	0.00	0.00	19.79
rs142951290	Adenosine 3',5'-cyclic monophosphat e (cAMP) to adenosine 5'- monophosphat e (AMP) ratio	GCST90200719	4	114093894	A	C	6726	-0.28	0.06	0.00	0.00	19.59
rs143802228	Adenosine 3',5'-cyclic monophosphat e (cAMP) to adenosine 5'- monophosphat e (AMP) ratio	GCST90200719	4	149092585	A	C	6726	0.23	0.05	0.00	0.00	20.56
rs4268141	Adenosine 3',5'-cyclic monophosphat e (cAMP) to adenosine 5'- monophosphat e (AMP) ratio	GCST90200719	8	86600893	C	G	6726	0.11	0.02	0.00	0.00	28.68

rs117592663	Adenosine 3',5'-cyclic monophosphate (cAMP) to adenosine 5'-monophosphate $\frac{a}{A}$ (AMP) ratio Adenosine	GCST90200719	9	135469557	A	G	6726	-0.36	0.08	0.00	0.00	20.78
rs61943682	Adenosine 3',5'-cyclic monophosphate (cAMP) to adenosine 5'-monophosphate $\frac{a}{A}$ (AMP) ratio Adenosine	GCST90200719	12	97425547	T	C	6726	-0.10	0.02	0.00	0.00	22.93
rs76500183	Adenosine 3',5'-cyclic monophosphate (cAMP) to adenosine 5'-monophosphate $\frac{a}{A}$ (AMP) ratio Adenosine	GCST90200719	14	49532930	G	A	6726	-0.33	0.07	0.00	0.00	20.80
rs387505	Adenosine 3',5'-cyclic monophosphate (cAMP) to adenosine 5'-monophosphate $\frac{a}{A}$ (AMP) ratio Adenosine	GCST90200719	15	67946124	C	T	6726	-0.08	0.02	0.00	0.00	20.20
rs8031652	Adenosine 3',5'-cyclic monophosphate (cAMP) to adenosine 5'-monophosphate $\frac{a}{A}$ (AMP) ratio Adenosine	GCST90200719	15	85372048	G	A	6726	-0.18	0.04	0.00	0.00	20.91
rs4149795	Adenosine 3',5'-cyclic monophosphate (cAMP) to adenosine 5'-monophosphate $\frac{a}{A}$ (AMP) ratio Adenosine	GCST90200719	16	2975992	T	C	6726	-0.20	0.04	0.00	0.00	20.32
rs36023455	Adenosine 3',5'-cyclic monophosphate (cAMP) to adenosine 5'-monophosphate $\frac{a}{A}$ (AMP) ratio Adenosine	GCST90200719	18	4339480	G	A	6726	0.14	0.03	0.00	0.00	20.60
rs11882864	Adenosine 3',5'-cyclic monophosphate (cAMP) to adenosine 5'-monophosphate $\frac{a}{A}$ (AMP) ratio Adenosine	GCST90200719	19	725168	T	C	6726	-0.10	0.02	0.00	0.00	19.90
rs11696578	Adenosine 3',5'-cyclic monophosphate (cAMP) to adenosine 5'-monophosphate $\frac{a}{A}$ (AMP) ratio Adenosine	GCST90200719	20	53549740	T	C	6726	-0.16	0.03	0.00	0.00	22.43
rs182930932	Adenosine 5'-diphosphate (ADP) to pantothenate ratio Adenosine	GCST90200720	2	15553049	T	C	4561	-0.74	0.16	0.00	0.00	20.85
rs78020847	Adenosine 5'-diphosphate (ADP) to pantothenate ratio	GCST90200720	3	26674678	G	A	4561	-0.20	0.04	0.00	0.00	19.56

rs1379253	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	3	137837456	A	G	4561	-0.13	0.03	0.00	0.00	19.61
rs11417547 1	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	4	31309559	T	G	4561	0.21	0.05	0.00	0.00	19.78
rs13357078	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	5	62864791	T	C	4561	0.63	0.14	0.00	0.00	21.48
rs2041596	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	7	17761448	A	C	4561	-0.11	0.03	0.00	0.00	20.51
rs28537085	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	7	76710495	T	C	4561	0.31	0.07	0.00	0.00	21.98
rs73239854	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	8	31727818	T	G	4561	0.34	0.08	0.00	0.00	19.85
rs14797253 0	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	8	109795219	G	A	4561	-0.53	0.12	0.00	0.00	19.56
rs18226189 3	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	9	81798236	C	A	4561	-0.71	0.16	0.00	0.00	20.07
rs945798	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	10	3425863	G	C	4561	-0.12	0.03	0.00	0.00	19.57
rs77506352	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	10	122384116	T	C	4561	-0.19	0.04	0.00	0.00	22.34
rs53921886 5	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	15	54280669	T	C	4561	-0.18	0.04	0.00	0.01	23.11
rs35409591	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	15	69917976	C	T	4561	0.10	0.02	0.00	0.00	20.43
rs4617830	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	15	82795620	C	A	4561	0.11	0.02	0.00	0.00	20.71
rs11645759	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	16	4400990	T	C	4561	0.33	0.07	0.00	0.00	21.22

rs4238593	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	16	20303360	T	C	4561	-0.09	0.02	0.00	0.00	19.67
rs4911325	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	20	33334315	T	C	4561	0.10	0.02	0.00	0.00	22.64
rs11201842 8	Adenosine 5'- diphosphate (ADP) to pantothenate ratio	GCST90200720	22	23515707	T	C	4561	0.43	0.10	0.00	0.00	20.07
rs18213703 1	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	4	83547453	A	C	4559	-0.43	0.10	0.00	0.00	20.32
rs56124912	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	5	120528147	A	G	4559	0.15	0.03	0.00	0.01	23.16
rs11309888 7	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	6	83844353	A	C	4559	0.40	0.09	0.00	0.00	20.03
rs10236510	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	7	119632797	A	G	4559	-0.13	0.03	0.00	0.00	22.44
rs10503585	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	8	16856688	C	T	4559	-0.09	0.02	0.00	0.00	20.13
rs7829662	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	8	100846652	G	T	4559	-0.13	0.03	0.00	0.00	19.76
rs66628241	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	9	7908256	T	C	4559	0.17	0.04	0.00	0.00	21.30
rs12003375	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	9	29378733	G	A	4559	0.11	0.02	0.00	0.00	21.27
rs18226189 3	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	9	81798236	C	A	4559	-0.74	0.16	0.00	0.00	21.28
rs77506352	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	10	122384116	T	C	4559	-0.18	0.04	0.00	0.00	19.56
rs11771777 5	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	12	5278207	T	C	4559	-0.35	0.08	0.00	0.00	21.04
rs1461567	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	12	43770886	A	G	4559	-0.10	0.02	0.00	0.00	19.67
rs2181066	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	14	95684913	T	C	4559	0.10	0.02	0.00	0.00	20.52
rs11203639 4	Adenosine 5'- diphosphate (ADP) to phosphate	GCST90200721	16	4812786	C	T	4559	-0.14	0.03	0.00	0.00	22.44

rs185808098	Adenosine 5'-diphosphate (ADP) to phosphate Adenosine 5'-diphosphate (ADP) to phosphate	GCST90200721	17	7844265	C	T	4559	1.36	0.30	0.00	0.00	20.76
rs75263840	Adenosine 5'-diphosphate (ADP) to phosphate Adenosine 5'-diphosphate (ADP) to phosphate	GCST90200721	17	15026067	A	C	4559	-0.24	0.05	0.00	0.00	19.67
rs1530382	Adenosine 5'-diphosphate (ADP) to phosphate Adenosine 5'-diphosphate (ADP) to phosphate	GCST90200721	17	54664475	A	T	4559	0.14	0.03	0.00	0.01	23.66
rs143031595	Adenosine 5'-diphosphate (ADP) to phosphate Adenosine 5'-diphosphate (ADP) to phosphate	GCST90200721	17	79155794	G	C	4559	0.26	0.06	0.00	0.00	21.98
rs76209394	Adenosine 5'-diphosphate (ADP) to phosphate Adenosine 5'-diphosphate (ADP) to phosphate	GCST90200721	21	42119054	T	C	4559	-0.22	0.05	0.00	0.00	20.85
rs143852380	adenosylhomocysteine (SAH) to leucine ratio S-	GCST90200722	1	162209051	G	A	6122	-0.32	0.07	0.00	0.00	22.60
rs1257248	adenosylhomocysteine (SAH) to leucine ratio S-	GCST90200722	1	201280980	A	G	6122	-0.26	0.06	0.00	0.00	19.79
rs12126094	adenosylhomocysteine (SAH) to leucine ratio S-	GCST90200722	1	218026161	A	G	6122	0.08	0.02	0.00	0.00	21.20
rs12027894	adenosylhomocysteine (SAH) to leucine ratio S-	GCST90200722	1	235909716	A	G	6122	-0.08	0.02	0.00	0.00	20.33
rs115369842	adenosylhomocysteine (SAH) to leucine ratio S-	GCST90200722	2	120440832	A	G	6122	-0.19	0.04	0.00	0.00	22.06
rs549878374	adenosylhomocysteine (SAH) to leucine ratio S-	GCST90200722	3	135601336	C	A	6122	0.52	0.11	0.00	0.00	21.61
rs182960821	adenosylhomocysteine (SAH) to leucine ratio S-	GCST90200722	4	4112792	A	G	6122	-0.37	0.08	0.00	0.00	21.28
rs1534841	adenosylhomocysteine (SAH) to leucine ratio S-	GCST90200722	4	69444025	A	G	6122	0.08	0.02	0.00	0.00	20.25
rs10029860	adenosylhomocysteine (SAH) to leucine ratio S-	GCST90200722	4	76489948	A	C	6122	0.09	0.02	0.00	0.00	28.83
rs77300904	adenosylhomocysteine (SAH) to leucine ratio S-	GCST90200722	6	17817494	A	G	6122	0.16	0.03	0.00	0.00	20.77
rs12213779	adenosylhomocysteine (SAH) to leucine ratio S-	GCST90200722	6	149767816	C	T	6122	0.17	0.02	0.00	0.02	98.15
rs6927116	adenosylhomocysteine (SAH) to leucine ratio S-	GCST90200722	6	158868649	T	C	6122	-0.09	0.02	0.00	0.00	21.35
rs17123334	adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	8	16638626	A	G	6122	0.08	0.02	0.00	0.00	19.64

rs4871791	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	8	127446399	T	C	6122	0.08	0.02	0.00	0.00	19.86
rs147878919	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	9	13464406	A	C	6122	-0.49	0.11	0.00	0.00	19.76
rs57576005	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	10	113828179	T	C	6122	-0.08	0.02	0.00	0.00	19.74
rs17242809	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	11	25884095	G	A	6122	-0.24	0.05	0.00	0.00	21.85
rs770571	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	11	100011932	A	G	6122	-0.13	0.03	0.00	0.00	21.90
rs12436851	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	14	33070528	T	A	6122	-0.11	0.02	0.00	0.00	28.84
rs2526030	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	15	25334669	A	C	6122	-0.25	0.05	0.00	0.00	22.34
rs192307732	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	15	49379252	A	G	6122	-0.37	0.08	0.00	0.00	22.49
rs12591617	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	15	91714489	T	G	6122	-0.07	0.02	0.00	0.00	20.02
rs4488419	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	15	98586788	C	T	6122	0.08	0.02	0.00	0.00	19.63
rs77924615	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	16	20381010	A	G	6122	-0.10	0.02	0.00	0.00	19.56
rs4990638	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	17	34645710	C	T	6122	0.14	0.03	0.00	0.00	23.90
rs8072956	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	17	66786236	C	G	6122	-0.08	0.02	0.00	0.00	20.59
rs857241	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	20	3098233	G	T	6122	0.24	0.05	0.00	0.00	19.79
rs2833782	S-adenosylhomocysteine (SAH) to leucine ratio	GCST90200722	21	32353714	T	C	6122	0.12	0.03	0.00	0.00	20.69
rs148784768	adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) ratio	GCST90200723	1	19859843	A	G	6078	-0.24	0.05	0.00	0.00	20.75
rs9424352	adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) ratio	GCST90200723	1	23996733	T	C	6078	0.20	0.04	0.00	0.00	21.88

rs454127	S-adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) $\frac{S}{R}$ ratio	GCST90200723	1	158750398	G	A	6078	0.12	0.03	0.00	0.00	21.14
rs79311841	S-adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) $\frac{S}{R}$ ratio	GCST90200723	1	218077636	C	T	6078	0.30	0.07	0.00	0.00	19.63
rs10927020	S-adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) $\frac{S}{R}$ ratio	GCST90200723	1	243439088	A	G	6078	0.08	0.02	0.00	0.00	19.75
rs35844155	S-adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) $\frac{S}{R}$ ratio	GCST90200723	3	22174578	A	C	6078	-0.19	0.04	0.00	0.00	21.68
rs9810406	S-adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) $\frac{S}{R}$ ratio	GCST90200723	3	153353343	C	A	6078	-0.10	0.02	0.00	0.00	20.78
rs60853352	S-adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) $\frac{S}{R}$ ratio	GCST90200723	5	31067019	T	C	6078	0.27	0.06	0.00	0.00	20.07
rs13180091	S-adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) $\frac{S}{R}$ ratio	GCST90200723	5	166910979	C	T	6078	-0.10	0.02	0.00	0.00	20.76
rs9688867	S-adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) $\frac{S}{R}$ ratio	GCST90200723	6	149770776	G	A	6078	0.15	0.02	0.00	0.01	77.36
rs4722241	S-adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) $\frac{S}{R}$ ratio	GCST90200723	7	2961404	A	T	6078	0.26	0.06	0.00	0.00	19.81
rs7804178	S-adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine) $\frac{S}{R}$ ratio	GCST90200723	7	48082596	C	A	6078	-0.10	0.02	0.00	0.01	37.13

rs35497888	S-adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine $\backslash$ ratio	GCST90200723	10	105054563	G	A	6078	-0.34	0.07	0.00	0.00	22.37
rs142553460	adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine $\backslash$ ratio	GCST90200723	10	118403269	A	G	6078	0.37	0.08	0.00	0.00	19.82
rs117668349	adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine $\backslash$ ratio	GCST90200723	15	92213891	G	A	6078	0.17	0.04	0.00	0.00	20.01
rs889710	adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine $\backslash$ ratio	GCST90200723	16	82113024	A	G	6078	0.12	0.03	0.00	0.00	19.69
rs8067554	adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine $\backslash$ ratio	GCST90200723	17	48691908	T	A	6078	0.12	0.02	0.00	0.00	26.67
rs11667953	adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine $\backslash$ ratio	GCST90200723	19	53711836	A	T	6078	0.10	0.02	0.00	0.01	32.17
rs502279	adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine $\backslash$ ratio	GCST90200723	20	64130661	A	G	6078	0.08	0.02	0.00	0.00	22.52
rs141746456	adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine $\backslash$ ratio	GCST90200723	21	26106637	T	C	6078	0.38	0.08	0.00	0.00	20.27
rs454088	adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine $\backslash$ ratio	GCST90200723	21	39063564	G	C	6078	0.10	0.02	0.00	0.00	19.68
rs131805	adenosylhomocysteine (SAH) to 5-methyluridine (ribothymidine $\backslash$ ratio	GCST90200723	22	50525724	C	T	6078	0.32	0.02	0.00	0.04	249.60
rs1471908	Cholate to taurocholate ratio	GCST90200724	1	98262150	G	A	7328	-0.18	0.04	0.00	0.00	20.52

rs35346875	Cholate to taurocholate ratio	GCST90200724	1	169655973	A	G	7328	-0.33	0.07	0.00	0.00	19.95
rs11578656 1	Cholate to taurocholate ratio	GCST90200724	2	42481107	A	G	7328	0.30	0.07	0.00	0.00	20.02
rs79669700	Cholate to taurocholate ratio	GCST90200724	4	189133868	G	A	7328	-0.13	0.03	0.00	0.00	22.46
rs35088174	Cholate to taurocholate ratio	GCST90200724	5	34823231	A	G	7328	0.31	0.07	0.00	0.00	19.72
rs14647955 4	Cholate to taurocholate ratio	GCST90200724	5	53844610	A	G	7328	0.37	0.08	0.00	0.00	21.09
rs2546211	Cholate to taurocholate ratio	GCST90200724	5	119492990	A	T	7328	0.24	0.05	0.00	0.00	20.09
rs80224743	Cholate to taurocholate ratio	GCST90200724	5	162758914	T	C	7328	-0.12	0.03	0.00	0.00	20.44
rs19044191 1	Cholate to taurocholate ratio	GCST90200724	7	48792223	G	A	7328	-0.27	0.06	0.00	0.00	19.74
rs14493433 7	Cholate to taurocholate ratio	GCST90200724	7	86616820	C	G	7328	0.31	0.07	0.00	0.00	22.07
rs2692410	Cholate to taurocholate ratio	GCST90200724	7	110174715	G	T	7328	-0.08	0.02	0.00	0.00	20.38
rs6984468	Cholate to taurocholate ratio	GCST90200724	8	19039193	A	C	7328	-0.08	0.02	0.00	0.00	22.56
rs2680904	Cholate to taurocholate ratio	GCST90200724	8	58598687	G	A	7328	0.15	0.03	0.00	0.00	20.48
rs12263764	Cholate to taurocholate ratio	GCST90200724	10	69503068	A	G	7328	-0.11	0.02	0.00	0.00	22.09
rs34344995	Cholate to taurocholate ratio	GCST90200724	11	29521795	A	G	7328	-0.29	0.06	0.00	0.00	19.66
rs7960781	Cholate to taurocholate ratio	GCST90200724	12	18936216	G	C	7328	-0.08	0.02	0.00	0.00	20.04
rs17632858	Cholate to taurocholate ratio	GCST90200724	13	30206451	C	T	7328	0.09	0.02	0.00	0.00	20.95
rs73540111	Cholate to taurocholate ratio	GCST90200724	13	75165556	G	A	7328	-0.13	0.03	0.00	0.00	19.82
rs78222567	Cholate to taurocholate ratio	GCST90200724	15	78987928	T	C	7328	0.41	0.09	0.00	0.00	19.54
rs1052629	Cholate to taurocholate ratio	GCST90200724	16	785298	T	C	7328	-0.09	0.02	0.00	0.00	20.93
rs78943646	Cholate to taurocholate ratio	GCST90200724	19	36068046	A	T	7328	0.12	0.03	0.00	0.00	19.71
rs73210610	Cholate to taurocholate ratio	GCST90200724	21	36079492	G	C	7328	-0.17	0.04	0.00	0.00	21.03
rs17611266	Cholate to taurocholate ratio	GCST90200724	22	23252370	A	G	7328	0.09	0.02	0.00	0.00	20.22
rs12130095	Adenosine 5'- diphosphate (ADP) to creatine ratio	GCST90200725	1	48236268	T	C	4561	0.22	0.05	0.00	0.00	22.26
rs76832639	Adenosine 5'- diphosphate (ADP) to creatine ratio	GCST90200725	1	112227777	A	G	4561	-0.46	0.10	0.00	0.00	22.12

rs1319122	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	1	239397169	T	A	4561	-0.17	0.04	0.00	0.00	20.87
rs1047891	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	2	210675783	A	C	4561	-0.14	0.02	0.00	0.01	37.27
rs1698952	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	3	30764143	A	G	4561	0.10	0.02	0.00	0.01	23.61
rs113592495	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	3	49109223	G	T	4561	0.14	0.03	0.00	0.01	25.53
rs12495138	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	3	118658527	T	C	4561	-0.14	0.03	0.00	0.01	24.47
rs7643341	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	3	144008138	T	C	4561	-0.09	0.02	0.00	0.00	20.88
rs13185925	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	5	43888736	C	G	4561	-0.23	0.05	0.00	0.00	21.08
rs17585571	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	8	16877897	C	G	4561	0.13	0.03	0.00	0.00	20.61
rs145519817	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	9	24639309	A	G	4561	-0.10	0.02	0.00	0.00	19.95
rs4879191	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	9	28328679	T	A	4561	0.10	0.02	0.00	0.00	19.61
rs182261893	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	9	81798236	C	A	4561	-0.75	0.16	0.00	0.00	22.23
rs72777711	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	10	11975968	C	A	4561	-0.19	0.04	0.00	0.00	22.51
rs78380461	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	10	75198835	A	G	4561	0.19	0.04	0.00	0.00	19.89
rs77506352	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	10	122384116	T	C	4561	-0.18	0.04	0.00	0.00	19.56
rs4980415	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	11	3526376	C	T	4561	0.10	0.02	0.00	0.00	20.95
rs140080359	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	12	107125556	C	T	4561	-0.40	0.09	0.00	0.00	21.17
rs138901164	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	16	5563171	G	A	4561	0.38	0.08	0.00	0.00	20.74
rs62060283	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	16	48656395	T	G	4561	-0.43	0.09	0.00	0.00	21.25

rs11607	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	16	84054442	T	C	4561	-0.10	0.02	0.00	0.00	20.51
rs1865423	Adenosine 5'-diphosphate (ADP) to creatine ratio	GCST90200725	17	54261536	C	T	4561	-0.09	0.02	0.00	0.00	20.81
rs185863221	N-acetylputrescine to (N(1) + N(8))-acetylspermidine ratio	GCST90200726	1	84169062	G	A	8144	0.39	0.08	0.00	0.00	22.91
rs2336016	N-acetylputrescine to (N(1) + N(8))-acetylspermidine ratio	GCST90200726	1	108311544	A	G	8144	0.07	0.02	0.00	0.00	19.80
rs28494113	N-acetylputrescine to (N(1) + N(8))-acetylspermidine ratio	GCST90200726	1	236505301	C	T	8144	0.13	0.03	0.00	0.00	20.68
rs1728918	N-acetylputrescine to (N(1) + N(8))-acetylspermidine ratio	GCST90200726	2	27412596	G	A	8144	-0.09	0.02	0.00	0.00	29.71
rs4622649	N-acetylputrescine to (N(1) + N(8))-acetylspermidine ratio	GCST90200726	2	141397142	C	G	8144	-0.08	0.02	0.00	0.00	21.06
rs1568554	N-acetylputrescine to (N(1) + N(8))-acetylspermidine ratio	GCST90200726	3	180059599	T	C	8144	0.07	0.02	0.00	0.00	20.36
rs3856610	N-acetylputrescine to (N(1) + N(8))-acetylspermidine ratio	GCST90200726	3	194554780	T	A	8144	0.16	0.03	0.00	0.00	22.85
rs35754081	N-acetylputrescine to (N(1) + N(8))-acetylspermidine ratio	GCST90200726	4	118092910	A	T	8144	-0.09	0.02	0.00	0.00	21.66
rs1987079	N-acetylputrescine to (N(1) + N(8))-acetylspermidine ratio	GCST90200726	4	182695758	G	A	8144	0.08	0.02	0.00	0.00	23.32
rs184952744	N-acetylputrescine to (N(1) + N(8))-acetylspermidine ratio	GCST90200726	5	125801450	C	T	8144	0.48	0.09	0.00	0.00	29.08
rs148490694	N-acetylputrescine to (N(1) + N(8))-acetylspermidine ratio	GCST90200726	6	55988411	C	T	8144	-0.45	0.09	0.00	0.00	22.94

rs62425902	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio N-	GCST90200726	6	128802297	A	C	8144	-0.16	0.03	0.00	0.00	20.18
rs6959504	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio N-	GCST90200726	7	29115328	C	T	8144	0.07	0.02	0.00	0.00	19.68
rs13811201 4	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio N-	GCST90200726	7	130322716	G	C	8144	-0.65	0.14	0.00	0.00	21.87
rs4725950	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio N-	GCST90200726	7	150824227	T	C	8144	0.16	0.02	0.00	0.01	103.62
rs4725969	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio N-	GCST90200726	7	150861427	T	C	8144	-0.12	0.02	0.00	0.01	51.41
rs4921913	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio N-	GCST90200726	8	18414867	T	C	8144	-0.55	0.02	0.00	0.11	998.50
rs14575963 2	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio N-	GCST90200726	8	18548205	G	C	8144	-0.27	0.06	0.00	0.00	22.05
rs4292696	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio N-	GCST90200726	8	69774844	C	T	8144	-0.14	0.03	0.00	0.00	20.28
rs4433209	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio N-	GCST90200726	9	75035629	A	T	8144	0.18	0.04	0.00	0.00	20.20
rs12217470	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio N-	GCST90200726	10	27275032	G	A	8144	0.10	0.02	0.00	0.00	24.51
rs9415080	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio N-	GCST90200726	10	52186254	T	A	8144	-0.08	0.02	0.00	0.00	19.99
rs41299175	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio N-	GCST90200726	10	133167351	T	C	8144	-0.10	0.02	0.00	0.00	21.26

rs4838735	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio	GCST90200726	10	133382797	A	C	8144	0.18	0.02	0.00	0.01	114.19
rs18986229 4	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio	GCST90200726	11	99732253	C	A	8144	0.44	0.09	0.00	0.00	21.50
rs14725620 5	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio	GCST90200726	14	53502674	A	C	8144	0.28	0.06	0.00	0.00	19.57
rs4777602	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio	GCST90200726	15	64812627	G	A	8144	0.12	0.02	0.00	0.00	28.11
rs7180682	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio	GCST90200726	15	94402475	G	A	8144	-0.08	0.02	0.00	0.00	21.61
rs12931912	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio	GCST90200726	16	82793812	A	G	8144	-0.08	0.02	0.00	0.00	20.70
rs11375070 3	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio	GCST90200726	18	26816364	A	G	8144	0.10	0.02	0.00	0.00	20.33
rs207495	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio	GCST90200726	21	23844174	A	G	8144	0.10	0.02	0.00	0.00	22.71
rs62230781	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio	GCST90200726	21	35963223	A	G	8144	-0.19	0.04	0.00	0.00	20.91
rs60122509	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio	GCST90200726	22	18036320	C	G	8144	0.52	0.12	0.00	0.00	19.72
rs14838195 3	N- acetylputresci ne to (N(1) + N(8))- acetylspermidi ne ratio	GCST90200726	22	50123655	G	A	8144	-0.33	0.06	0.00	0.00	33.82
rs6710465	Adenosine 3',5'-cyclic monophosphat e (cAMP) to taurocholate ratio	GCST90200727	2	116432995	A	G	6329	-0.08	0.02	0.00	0.00	20.29

rs17680010	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	3	60757586	T	C	6329	-0.09	0.02	0.00	0.00	19.75
rs111421695	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	3	196995389	A	G	6329	0.10	0.02	0.00	0.00	22.72
rs116556643	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	4	14359422	T	C	6329	-0.38	0.09	0.00	0.00	19.94
rs62401162	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	6	43779212	C	T	6329	-0.11	0.02	0.00	0.00	20.97
rs112156304	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	6	69642607	T	C	6329	-0.16	0.04	0.00	0.00	19.97
rs77138095	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	8	25814404	A	G	6329	0.11	0.02	0.00	0.00	21.79
rs188255354	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	11	121181254	T	C	6329	-0.41	0.09	0.00	0.00	20.61
rs9564664	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	13	70193043	T	G	6329	-0.21	0.04	0.00	0.00	21.67
rs16962867	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	15	49754660	A	T	6329	-0.22	0.04	0.00	0.00	24.71
rs141968701	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	16	88076367	C	T	6329	0.21	0.05	0.00	0.00	20.71
rs76149982	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	17	10808360	A	C	6329	0.16	0.03	0.00	0.00	24.52
rs11770030	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	17	73185796	A	G	6329	0.19	0.04	0.00	0.00	20.72

rs72861920	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	18	3769017	C	A	6329	-0.10	0.02	0.00	0.00	19.61
rs2426643	Adenosine 3',5'-cyclic monophosphate (cAMP) to taurocholate ratio	GCST90200727	20	56717423	G	A	6329	0.08	0.02	0.00	0.00	22.69
rs41297593	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	1	39896111	C	G	4573	-0.13	0.03	0.00	0.01	23.57
rs76660898	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	1	170121721	T	C	4573	0.42	0.09	0.00	0.00	19.89
rs11695023	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	2	85442398	A	C	4573	0.11	0.02	0.00	0.01	25.88
rs55931750	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	2	170125591	A	T	4573	0.13	0.03	0.00	0.01	23.75
rs113592495	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	3	49109223	G	T	4573	0.13	0.03	0.00	0.00	22.31
rs143974931	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	4	991581	C	G	4573	-0.47	0.10	0.00	0.00	21.61
rs76793825	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	4	90118051	A	G	4573	-0.14	0.03	0.00	0.00	22.48
rs138702446	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	5	61629600	A	G	4573	0.40	0.09	0.00	0.00	20.41
rs79829592	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	5	100729018	T	C	4573	-0.33	0.07	0.00	0.01	23.95
rs59162951	Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	5	149162389	C	A	4573	0.13	0.03	0.00	0.01	26.20

rs187344572	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	6	50352927	A	G	4573	-0.17	0.04	0.00	0.00	20.33
rs145208474	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	6	53946892	T	C	4573	0.59	0.13	0.00	0.00	20.04
rs75918185	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	9	14160963	T	C	4573	0.46	0.10	0.00	0.00	19.66
rs1927885	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	9	96313104	G	A	4573	0.09	0.02	0.00	0.00	19.55
rs2881485	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	11	7374468	G	A	4573	-0.10	0.02	0.00	0.00	20.95
rs2299639	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	11	17419838	T	C	4573	-0.13	0.03	0.00	0.01	26.58
rs118110285	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	12	76187259	C	T	4573	-0.36	0.08	0.00	0.00	21.40
rs10735112	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	12	117978944	C	G	4573	0.32	0.07	0.00	0.00	19.51
rs186452796	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	13	19365069	T	C	4573	0.27	0.06	0.00	0.01	23.21
rs2290904	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	16	88713682	A	G	4573	-0.14	0.03	0.00	0.00	21.57
rs10468503	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	17	54661426	G	A	4573	0.13	0.03	0.00	0.00	20.67
rs61760359	Adenosine 5'-diphosphate (ADP) to Adenosine 5'-monophosphate (AMP) ratio	GCST90200728	17	66735955	T	C	4573	0.40	0.09	0.00	0.00	21.53

rs17281792	Adenosine 5'- diphosphate (ADP) to Adenosine 5'- monophosphate e (AMP) ratio Adenosine 5'- diphosphate	GCST90200728	18	75413914	G	A	4573	-0.12	0.02	0.00	0.01	24.60
rs62103136	Adenosine 5'- diphosphate (ADP) to Adenosine 5'- monophosphate e (AMP) ratio Adenosine 5'- diphosphate	GCST90200728	19	34032190	C	T	4573	-0.17	0.04	0.00	0.00	20.46
rs61517008	Adenosine 5'- diphosphate (ADP) to Adenosine 5'- monophosphate e (AMP) ratio Adenosine 5'- diphosphate	GCST90200728	19	56948103	A	G	4573	-0.16	0.03	0.00	0.01	23.50
rs4821580	Adenosine 5'- diphosphate (ADP) to Adenosine 5'- monophosphate e (AMP) ratio 3-	GCST90200728	22	37013278	C	T	4573	-0.10	0.02	0.00	0.00	20.55
rs2245636	phosphoglycer ate to phosphate 3-	GCST90200729	2	33899745	C	T	8153	-0.26	0.05	0.00	0.00	24.60
rs1354034	phosphoglycer ate to phosphate 3-	GCST90200729	3	56815721	C	T	8153	0.07	0.02	0.00	0.00	20.45
rs2672464	phosphoglycer ate to phosphate 3-	GCST90200729	4	107566352	T	C	8153	-0.15	0.03	0.00	0.00	20.70
rs11614542 5	phosphoglycer ate to phosphate 3-	GCST90200729	5	149169565	T	C	8153	0.20	0.04	0.00	0.00	21.32
rs2988057	phosphoglycer ate to phosphate 3-	GCST90200729	6	33606131	G	A	8153	-0.07	0.02	0.00	0.00	19.73
rs4708089	phosphoglycer ate to phosphate 3-	GCST90200729	6	73804430	G	A	8153	-0.07	0.02	0.00	0.00	20.09
rs9386647	phosphoglycer ate to phosphate 3-	GCST90200729	6	107547745	G	A	8153	0.14	0.03	0.00	0.00	21.29
rs11817234 8	phosphoglycer ate to phosphate 3-	GCST90200729	6	155110653	A	G	8153	-0.31	0.07	0.00	0.00	20.22
rs78758000	phosphoglycer ate to phosphate 3-	GCST90200729	6	164105247	G	T	8153	-0.12	0.03	0.00	0.00	21.17
rs62488266	phosphoglycer ate to phosphate 3-	GCST90200729	7	113712411	A	T	8153	-0.22	0.04	0.00	0.00	26.44
rs4348430	phosphoglycer ate to phosphate 3-	GCST90200729	7	129667902	A	G	8153	-0.12	0.03	0.00	0.00	22.82
rs72668507	phosphoglycer ate to phosphate	GCST90200729	8	68751105	A	C	8153	0.14	0.03	0.00	0.00	20.50

rs73696723	3-phosphoglycerate to phosphate 3-	GCST90200729	8	104332078	G	T	8153	-0.33	0.07	0.00	0.00	19.99
rs117478371	3-phosphoglycerate to phosphate 3-	GCST90200729	9	108699536	C	T	8153	0.37	0.08	0.00	0.00	22.96
rs11103118	3-phosphoglycerate to phosphate 3-	GCST90200729	9	135636309	A	G	8153	-0.08	0.02	0.00	0.00	20.91
rs10823315	3-phosphoglycerate to phosphate 3-	GCST90200729	10	69200773	T	C	8153	0.15	0.03	0.00	0.00	20.75
rs79970697	3-phosphoglycerate to phosphate 3-	GCST90200729	10	121064629	C	A	8153	-0.22	0.05	0.00	0.00	20.83
rs144315407	3-phosphoglycerate to phosphate 3-	GCST90200729	10	128367673	A	G	8153	0.21	0.05	0.00	0.00	19.88
rs12415639	3-phosphoglycerate to phosphate 3-	GCST90200729	10	131161173	C	T	8153	-0.07	0.02	0.00	0.00	19.87
rs141761086	3-phosphoglycerate to phosphate 3-	GCST90200729	13	21817065	T	C	8153	0.20	0.04	0.00	0.00	20.88
rs4146682	3-phosphoglycerate to phosphate 3-	GCST90200729	13	80127930	G	A	8153	0.08	0.02	0.00	0.00	20.11
rs147461971	3-phosphoglycerate to phosphate 3-	GCST90200729	15	93779266	A	G	8153	0.17	0.04	0.00	0.00	19.57
rs117629373	3-phosphoglycerate to phosphate 3-	GCST90200729	19	30865086	A	G	8153	-0.24	0.05	0.00	0.00	21.96
rs6025931	3-phosphoglycerate to phosphate 3-	GCST90200729	20	57959604	C	A	8153	-0.07	0.02	0.00	0.00	22.71
rs117097035	3-phosphoglycerate to phosphate 3-	GCST90200729	21	21787098	T	C	8153	-0.21	0.05	0.00	0.00	20.34
rs61780234	phosphate Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	1	31945184	G	A	4571	0.58	0.13	0.00	0.00	21.21
rs12145728	phosphate Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	1	230141368	G	A	4571	0.11	0.02	0.00	0.00	22.27
rs72873880	phosphate Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	2	154549592	A	T	4571	-0.36	0.08	0.00	0.00	20.43
rs71427752	phosphate Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	2	204492007	T	G	4571	0.24	0.05	0.00	0.01	23.25
rs80332390	phosphate Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	2	234191055	C	A	4571	0.31	0.06	0.00	0.01	24.86

rs181138473	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	3	16193163	T	C	4571	0.51	0.11	0.00	0.00	19.96
rs146875741	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	3	128155735	G	A	4571	0.55	0.11	0.00	0.01	23.73
rs112662853	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	3	146176442	G	C	4571	0.35	0.07	0.00	0.00	21.62
rs73246261	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	4	39896234	A	G	4571	-0.15	0.03	0.00	0.00	19.98
rs10029837	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	4	62388443	T	C	4571	-0.11	0.02	0.00	0.00	20.98
rs10028455	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	4	153551736	C	G	4571	-0.17	0.04	0.00	0.01	23.10
rs766206	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	5	151588275	T	C	4571	-0.11	0.02	0.00	0.01	26.89
rs147476481	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	6	3452315	T	C	4571	0.43	0.10	0.00	0.00	19.62
rs867056	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	6	145463669	C	A	4571	-0.10	0.02	0.00	0.00	19.71
rs6932454	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	6	157767157	C	G	4571	0.09	0.02	0.00	0.00	20.21
rs117297969	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	7	67540885	G	C	4571	-0.40	0.09	0.00	0.00	19.85
rs7829662	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	8	100846652	G	T	4571	-0.14	0.03	0.00	0.01	23.45
rs896682	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	8	123165176	T	C	4571	-0.27	0.06	0.00	0.00	21.61
rs149890985	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	9	25210165	A	C	4571	0.33	0.07	0.00	0.00	22.03
rs149977852	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	9	90273131	T	C	4571	0.43	0.09	0.00	0.00	20.75
rs1537011	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	9	115058270	C	G	4571	-0.14	0.03	0.00	0.00	19.99
rs117215596	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	10	24720083	G	A	4571	0.39	0.08	0.00	0.00	21.20
rs41291896	Adenosine 5'-diphosphate (ADP) to fructose ratio	GCST90200730	10	110135241	T	C	4571	-0.28	0.06	0.00	0.00	19.75

rs10766713	Adenosine 5'- diphosphate (ADP) to fructose ratio	GCST90200730	11	20699653	C	T	4571	-0.10	0.02	0.00	0.00	20.54
rs10899251	Adenosine 5'- diphosphate (ADP) to fructose ratio	GCST90200730	11	76677557	G	A	4571	-0.14	0.03	0.00	0.00	21.06
rs1166250	Adenosine 5'- diphosphate (ADP) to fructose ratio	GCST90200730	12	126899163	C	T	4571	-0.10	0.02	0.00	0.00	22.90
rs7983933	Adenosine 5'- diphosphate (ADP) to fructose ratio	GCST90200730	13	104217823	A	G	4571	-0.75	0.15	0.00	0.01	25.22
rs11688545 0	Adenosine 5'- diphosphate (ADP) to fructose ratio	GCST90200730	14	37588354	T	C	4571	-0.23	0.05	0.00	0.00	19.63
rs2181066	Adenosine 5'- diphosphate (ADP) to fructose ratio	GCST90200730	14	95684913	T	C	4571	0.10	0.02	0.00	0.00	20.30
rs952677	Adenosine 5'- diphosphate (ADP) to fructose ratio	GCST90200730	16	49367890	G	C	4571	0.16	0.03	0.00	0.00	22.24
rs2173751	Adenosine 5'- diphosphate (ADP) to fructose ratio	GCST90200730	16	77313226	A	T	4571	0.10	0.02	0.00	0.00	21.00
rs4274484	Adenosine 5'- diphosphate (ADP) to fructose ratio	GCST90200730	17	54321033	A	G	4571	-0.10	0.02	0.00	0.00	20.15
rs77154538	Adenosine 5'- diphosphate (ADP) to fructose ratio	GCST90200730	17	78755152	G	A	4571	-0.30	0.07	0.00	0.00	19.92
rs62103136	Adenosine 5'- diphosphate (ADP) to fructose ratio	GCST90200730	19	34032190	C	T	4571	-0.17	0.04	0.00	0.00	21.11
rs1260326	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	2	27508073	C	T	4587	-0.09	0.02	0.00	0.00	20.18
rs6729073	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	2	141476596	T	C	4587	0.10	0.02	0.00	0.00	22.60
rs56124912	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	5	120528147	A	G	4587	0.14	0.03	0.00	0.00	21.89
rs12154017	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	6	10974455	A	G	4587	0.13	0.03	0.00	0.01	24.04
rs929052	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	6	36746917	T	C	4587	-0.12	0.03	0.00	0.00	20.01
rs75240627	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	6	51506664	G	A	4587	0.36	0.08	0.00	0.00	21.21
rs11767407	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	7	119618012	T	C	4587	-0.13	0.03	0.00	0.01	25.05

rs10503585	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	8	16856688	C	T	4587	-0.09	0.02	0.00	0.00	20.59
rs4490854	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	8	143435722	A	G	4587	-0.19	0.04	0.00	0.01	24.13
rs10491671	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	9	29482054	T	C	4587	-0.12	0.02	0.00	0.01	23.89
rs79400853	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	9	86183559	T	C	4587	-0.45	0.10	0.00	0.00	19.70
rs11791745	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	9	119571181	C	T	4587	-0.09	0.02	0.00	0.00	19.61
rs11200545	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	10	83773666	T	C	4587	0.17	0.04	0.00	0.00	20.04
rs77506352	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	10	122384116	T	C	4587	-0.19	0.04	0.00	0.00	21.52
rs3741975	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	12	1591768	A	G	4587	-0.40	0.08	0.00	0.01	23.95
rs18892062 9	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	12	88777645	C	G	4587	0.65	0.14	0.00	0.00	20.14
rs76764456	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	12	132699806	A	G	4587	0.23	0.05	0.00	0.00	21.17
rs12940910	Adenosine 5'- diphosphate (ADP) to mannose ratio	GCST90200731	17	54347806	A	G	4587	-0.11	0.02	0.00	0.00	22.07
rs14577813 4	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	1	68966928	A	G	4560	0.32	0.07	0.00	0.00	21.67
rs14579685 2	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	1	205567883	T	A	4560	-0.39	0.09	0.00	0.00	20.24
rs80332390	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	2	234191055	C	A	4560	0.30	0.06	0.00	0.01	23.17
rs11359249 5	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	3	49109223	G	T	4560	0.14	0.03	0.00	0.01	25.79
rs6786284	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	3	144021887	G	A	4560	-0.09	0.02	0.00	0.00	19.80
rs12696028	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	3	155324681	G	C	4560	0.10	0.02	0.00	0.00	20.18
rs76793825	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	4	90118051	A	G	4560	-0.13	0.03	0.00	0.00	19.54

rs78257855	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	5	120473229	T	C	4560	0.14	0.03	0.00	0.00	20.18
rs10236510	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	7	119632797	A	G	4560	-0.14	0.03	0.00	0.01	26.74
rs10503585	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	8	16856688	C	T	4560	-0.10	0.02	0.00	0.00	20.95
rs14306208 1	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	8	26940389	A	G	4560	0.33	0.07	0.00	0.00	20.70
rs35984463	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	9	4270658	C	T	4560	0.16	0.04	0.00	0.00	19.64
rs66628241	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	9	7908256	T	C	4560	0.17	0.04	0.00	0.00	20.02
rs18226189 3	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	9	81798236	C	A	4560	-0.79	0.16	0.00	0.01	24.42
rs74872443	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	10	131019753	A	G	4560	-0.17	0.04	0.00	0.00	19.68
rs7295241	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	12	10494567	T	C	4560	0.10	0.02	0.00	0.00	20.52
rs11811028 5	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	12	76187259	C	T	4560	-0.34	0.08	0.00	0.00	19.91
rs13890116 4	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	16	5563171	G	A	4560	0.38	0.08	0.00	0.00	20.89
rs18580809 8	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	17	7844265	C	T	4560	1.40	0.30	0.00	0.00	22.18
rs10468503	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	17	54661426	G	A	4560	0.14	0.03	0.00	0.01	24.00
rs14303159 5	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	17	79155794	G	C	4560	0.25	0.06	0.00	0.00	20.44
rs72977885	Adenosine 5'- diphosphate (ADP) to tyrosine ratio	GCST90200732	18	75482739	A	C	4560	-0.10	0.02	0.00	0.00	21.25
rs6723311	Adenosine 5'- diphosphate (ADP) to N- acetylglucosamine to N-acetylgalactosamine ratio	GCST90200733	2	29224387	G	A	4392	0.10	0.02	0.00	0.00	21.77
rs4689157	Adenosine 5'- diphosphate (ADP) to N- acetylglucosamine to N-acetylgalactosamine ratio	GCST90200733	4	7728665	A	G	4392	-0.14	0.03	0.00	0.00	20.12

rs79357230	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	5	100755758	G	A	4392	-0.29	0.06	0.00	0.00	21.14
rs1837253	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	5	111066174	C	T	4392	-0.11	0.02	0.00	0.00	20.34
rs12154017	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	6	10974455	A	G	4392	0.13	0.03	0.00	0.01	22.49
rs117332983	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	6	157784180	A	C	4392	-0.23	0.05	0.00	0.00	20.08
rs1555031	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	6	167295330	A	G	4392	-0.17	0.04	0.00	0.01	24.32
rs151041814	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	8	79165632	T	G	4392	-0.35	0.08	0.00	0.00	19.56
rs77506352	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	10	122384116	T	C	4392	-0.20	0.04	0.00	0.01	24.08
rs61864607	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	10	131047257	A	G	4392	-0.17	0.04	0.00	0.00	19.81
rs138683541	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	12	1607151	C	T	4392	-0.36	0.08	0.00	0.00	20.69
rs7295241	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	12	10494567	T	C	4392	0.10	0.02	0.00	0.00	19.68

rs58060736	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	12	67561345	C	T	4392	0.19	0.04	0.00	0.00	20.39
rs9549404	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	13	113400295	G	A	4392	0.10	0.02	0.00	0.00	22.02
rs75695865	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	15	42025035	T	C	4392	0.33	0.07	0.00	0.00	19.84
rs11203639 4	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	16	4812786	C	T	4392	-0.14	0.03	0.00	0.00	21.28
rs34842690	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	16	75358782	A	G	4392	0.41	0.09	0.00	0.00	20.95
rs2322969	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	17	13787437	G	A	4392	-0.09	0.02	0.00	0.00	19.56
rs1865423	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	17	54261536	C	T	4392	-0.09	0.02	0.00	0.00	19.64
rs8128167	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	21	33934896	C	T	4392	-0.10	0.02	0.00	0.00	20.66
rs76209394	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	21	42119054	T	C	4392	-0.21	0.05	0.00	0.00	20.12
rs18324559 9	Adenosine 5'- diphosphate (ADP) to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200733	22	36143601	C	T	4392	0.33	0.07	0.00	0.00	20.46

rs2821034	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	1	3495402	C	T	8227	0.08	0.02	0.00	0.00	21.22
rs56938657	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	1	77118386	T	C	8227	-0.20	0.04	0.00	0.00	19.51
rs17027075	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	1	111198111	A	G	8227	-0.34	0.07	0.00	0.00	21.21
rs627973	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	2	23646701	C	T	8227	-0.08	0.02	0.00	0.00	21.77
rs2676504	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	2	172952990	C	A	8227	0.07	0.02	0.00	0.00	21.44
rs111724026	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	2	217053703	A	G	8227	0.17	0.03	0.00	0.00	22.77
rs1683348	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	3	59763545	T	A	8227	-0.09	0.02	0.00	0.00	19.72
rs34621562	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	3	123630936	T	A	8227	0.18	0.04	0.00	0.00	20.29
rs12493846	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	3	133183209	A	G	8227	-0.09	0.02	0.00	0.00	22.46
rs76646409	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	4	185629591	A	C	8227	0.13	0.03	0.00	0.00	21.88
rs116543941	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	5	84846544	G	A	8227	0.38	0.08	0.00	0.00	24.73
rs419291	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	5	132297662	C	T	8227	-0.08	0.02	0.00	0.00	22.91
rs10274964	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	7	980148	T	C	8227	-0.07	0.02	0.00	0.00	22.12
rs10278332	Adenosine 5'- monophosphat e (AMP) to palmitate (16:0) ratio	GCST90200734	7	42111263	T	C	8227	-0.08	0.02	0.00	0.00	20.19

rs74828848	Adenosine 5'-monophosphate (AMP) to palmitate (16:0) ratio	GCST90200734	8	120974563	G	C	8227	-0.15	0.03	0.00	0.00	19.66
rs555336664	Adenosine 5'-monophosphate (AMP) to palmitate (16:0) ratio	GCST90200734	9	90694407	C	T	8227	-0.22	0.05	0.00	0.00	22.16
rs80023834	Adenosine 5'-monophosphate (AMP) to palmitate (16:0) ratio	GCST90200734	10	26927078	A	G	8227	0.20	0.04	0.00	0.00	20.14
rs4349051	Adenosine 5'-monophosphate (AMP) to palmitate (16:0) ratio	GCST90200734	13	43003295	C	G	8227	0.08	0.02	0.00	0.00	19.62
rs4891466	Adenosine 5'-monophosphate (AMP) to palmitate (16:0) ratio	GCST90200734	18	72350586	T	C	8227	-0.10	0.02	0.00	0.00	24.16
rs5765913	Adenosine 5'-monophosphate (AMP) to palmitate (16:0) ratio	GCST90200734	22	44698667	T	C	8227	0.11	0.02	0.00	0.00	22.40
rs114767975	Arginine to ornithine ratio	GCST90200735	1	106464892	C	T	8250	0.31	0.07	0.00	0.00	22.76
rs113206873	Arginine to ornithine ratio	GCST90200735	2	3813968	A	G	8250	0.18	0.04	0.00	0.00	20.32
rs72883727	Arginine to ornithine ratio	GCST90200735	2	170647826	T	A	8250	-0.17	0.04	0.00	0.00	19.79
rs62182127	Arginine to ornithine ratio	GCST90200735	2	218414865	A	G	8250	-0.08	0.02	0.00	0.00	23.91
rs144619901	Arginine to ornithine ratio	GCST90200735	2	234133659	C	G	8250	-0.34	0.07	0.00	0.00	24.79
rs145855561	Arginine to ornithine ratio	GCST90200735	4	78194734	A	G	8250	0.41	0.09	0.00	0.00	19.91
rs1512248	Arginine to ornithine ratio	GCST90200735	5	101218957	C	G	8250	-0.32	0.07	0.00	0.00	21.42
rs11953798	Arginine to ornithine ratio	GCST90200735	5	178056117	C	T	8250	0.08	0.02	0.00	0.00	25.57
rs143306263	Arginine to ornithine ratio	GCST90200735	6	19274620	C	T	8250	0.37	0.08	0.00	0.00	20.06
rs71563087	Arginine to ornithine ratio	GCST90200735	6	78062585	A	G	8250	0.10	0.02	0.00	0.00	20.96
rs2608900	Arginine to ornithine ratio	GCST90200735	6	131522043	A	T	8250	0.14	0.02	0.00	0.01	52.43
rs17788484	Arginine to ornithine ratio	GCST90200735	6	131573218	T	C	8250	-0.64	0.05	0.00	0.02	134.77
rs7759910	Arginine to ornithine ratio	GCST90200735	6	139579569	A	G	8250	0.10	0.02	0.00	0.00	19.58
rs79240790	Arginine to ornithine ratio	GCST90200735	8	4312039	C	T	8250	0.14	0.03	0.00	0.00	20.09
rs2979772	Arginine to ornithine ratio	GCST90200735	8	17719364	C	T	8250	-0.09	0.02	0.00	0.00	24.20
rs117849156	Arginine to ornithine ratio	GCST90200735	9	124359211	T	C	8250	0.23	0.05	0.00	0.00	22.11
rs17157859	Arginine to ornithine ratio	GCST90200735	10	45493961	C	T	8250	-0.19	0.03	0.00	0.00	30.94
rs393918	Arginine to ornithine ratio	GCST90200735	10	53499054	C	T	8250	0.08	0.02	0.00	0.00	21.39
rs2182168	Arginine to ornithine ratio	GCST90200735	10	98388596	G	C	8250	0.09	0.02	0.00	0.00	30.57
rs12776515	Arginine to ornithine ratio	GCST90200735	10	102081230	A	G	8250	-0.08	0.02	0.00	0.00	21.06
rs11244629	Arginine to ornithine ratio	GCST90200735	10	124382239	G	A	8250	0.09	0.02	0.00	0.00	22.11
rs173379	Arginine to ornithine ratio	GCST90200735	10	130368632	A	G	8250	0.10	0.02	0.00	0.00	19.75

rs3741411	Arginine to ornithine ratio	GCST90200735	11	199256	A	G	8250	-0.09	0.02	0.00	0.00	22.13
rs3809095	Arginine to ornithine ratio	GCST90200735	11	16736699	G	A	8250	-0.08	0.02	0.00	0.00	24.49
rs15032879 8	Arginine to ornithine ratio	GCST90200735	11	123280527	C	T	8250	-0.26	0.06	0.00	0.00	20.64
rs791210	Arginine to ornithine ratio	GCST90200735	12	120749754	C	T	8250	-0.10	0.02	0.00	0.00	37.57
rs11628666	Arginine to ornithine ratio	GCST90200735	14	67625628	T	C	8250	-0.09	0.02	0.00	0.00	27.20
rs62019359	Arginine to ornithine ratio	GCST90200735	15	42684508	T	C	8250	-0.21	0.05	0.00	0.00	20.02
rs14025590 3	Arginine to ornithine ratio	GCST90200735	15	99973963	T	C	8250	-0.20	0.04	0.00	0.00	21.21
rs58352725	Arginine to ornithine ratio	GCST90200735	18	71360568	G	C	8250	-0.18	0.04	0.00	0.00	19.96
rs1799918	Arginine to ornithine ratio	GCST90200735	19	12891586	C	G	8250	-0.11	0.02	0.00	0.01	48.39
rs2822789	Arginine to ornithine ratio	GCST90200735	21	14582905	T	C	8250	0.09	0.02	0.00	0.00	20.08
rs80332390	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	2	234191055	C	A	4568	0.29	0.06	0.00	0.00	22.57
rs11359249 5	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	3	49109223	G	T	4568	0.13	0.03	0.00	0.00	21.67
rs14687574 1	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	3	128155735	G	A	4568	0.52	0.11	0.00	0.00	21.84
rs61393093	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	5	120526901	T	G	4568	0.14	0.03	0.00	0.00	20.11
rs10236510	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	7	119632797	A	G	4568	-0.13	0.03	0.00	0.00	22.63
rs7829662	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	8	100846652	G	T	4568	-0.16	0.03	0.00	0.01	27.09
rs18226189 3	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	9	81798236	C	A	4568	-0.79	0.16	0.00	0.01	24.33
rs2505448	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	10	25729703	T	C	4568	0.14	0.03	0.00	0.00	19.93
rs2299639	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	11	17419838	T	C	4568	-0.12	0.03	0.00	0.00	21.00
rs11771777 5	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	12	5278207	T	C	4568	-0.33	0.08	0.00	0.00	19.62
rs14346418 1	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	12	131247556	T	C	4568	-0.28	0.06	0.00	0.01	24.08
rs12583707	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	13	41453253	T	C	4568	0.16	0.03	0.00	0.00	22.27
rs17089550	Adenosine 5'- diphosphate (ADP) to arginine ratio	GCST90200736	13	72581855	T	C	4568	-0.16	0.04	0.00	0.00	19.76

rs11849211	Adenosine 5'-diphosphate (ADP) to arginine ratio	GCST90200736	14	95335809	A	G	4568	-0.12	0.03	0.00	0.00	19.97
rs117634823	Adenosine 5'-diphosphate (ADP) to arginine ratio	GCST90200736	15	88685947	T	C	4568	-0.32	0.07	0.00	0.00	19.63
rs185808098	Adenosine 5'-diphosphate (ADP) to arginine ratio	GCST90200736	17	7844265	C	T	4568	1.37	0.30	0.00	0.00	21.45
rs1899661	Adenosine 5'-diphosphate (ADP) to arginine ratio	GCST90200736	17	54635789	T	C	4568	0.13	0.03	0.00	0.00	20.42
rs62103136	Adenosine 5'-diphosphate (ADP) to arginine ratio	GCST90200736	19	34032190	C	T	4568	-0.17	0.04	0.00	0.00	20.47
rs76209394	Adenosine 5'-diphosphate (ADP) to arginine ratio	GCST90200736	21	42119054	T	C	4568	-0.21	0.05	0.00	0.00	20.66
rs79369357	Adenosine 5'-diphosphate (ADP) to arginine ratio	GCST90200736	22	47566825	T	G	4568	-0.41	0.09	0.00	0.00	21.48
rs112560151	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	2	117616115	T	C	4391	0.27	0.06	0.00	0.00	20.93
rs80332390	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	2	234191055	C	A	4391	0.31	0.06	0.00	0.01	24.49
rs9683165	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	3	10297453	T	C	4391	-0.10	0.02	0.00	0.00	20.70
rs76012831	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	3	118529435	C	T	4391	-0.16	0.04	0.00	0.00	19.56
rs137989159	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	5	28657827	C	G	4391	-0.59	0.13	0.00	0.00	19.71
rs10236510	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	7	119632797	A	G	4391	-0.13	0.03	0.00	0.01	23.02
rs10503585	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	8	16856688	C	T	4391	-0.10	0.02	0.00	0.00	21.15
rs74754867	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	8	26932905	C	T	4391	0.33	0.07	0.00	0.00	20.40
rs76805661	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	8	102251037	G	A	4391	-0.16	0.03	0.00	0.00	21.83

rs140760421	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	9	131949485	T	G	4391	-0.43	0.09	0.00	0.01	23.32
rs12278390	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	11	93285584	T	G	4391	-0.13	0.03	0.00	0.00	19.69
rs117717775	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	12	5278207	T	C	4391	-0.35	0.08	0.00	0.00	21.94
rs7295241	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	12	10494567	T	C	4391	0.10	0.02	0.00	0.00	19.67
rs1461567	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	12	43770886	A	G	4391	-0.11	0.02	0.00	0.01	22.97
rs75034914	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	12	82826816	T	C	4391	0.25	0.06	0.00	0.00	20.22
rs34568287	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	13	47179115	A	G	4391	0.33	0.07	0.00	0.00	20.26
rs117739522	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	13	83396878	G	T	4391	0.37	0.08	0.00	0.01	22.97
rs10152093	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	14	41460424	G	A	4391	-0.24	0.05	0.00	0.00	20.13
rs565248745	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	18	28767309	A	C	4391	0.47	0.11	0.00	0.00	19.56
rs1182498	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	20	59778104	G	A	4391	0.13	0.03	0.00	0.01	25.40
rs6517884	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	21	19682032	T	C	4391	-0.11	0.02	0.00	0.00	20.20
rs131805	Adenosine 5'-diphosphate (ADP) to 2'-deoxyuridine ratio	GCST90200737	22	50525724	C	T	4391	0.11	0.02	0.00	0.00	21.21
rs72881059	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	1	22144824	T	C	4601	0.46	0.10	0.00	0.00	20.07

rs78099894	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	1	116854628	G	A	4601	-0.26	0.05	0.00	0.00	21.94
rs11582657	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	1	240477603	T	A	4601	-0.10	0.02	0.00	0.00	19.83
rs1354034	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	3	56815721	C	T	4601	-0.13	0.02	0.00	0.01	40.04
rs148538710	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	4	47171019	T	C	4601	0.47	0.10	0.00	0.00	20.71
rs28542022	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	4	63349089	C	T	4601	-0.26	0.05	0.00	0.01	23.12
rs7662251	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	4	92534754	T	C	4601	0.10	0.02	0.00	0.00	21.14
rs75415333	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	5	17120802	T	C	4601	-0.35	0.08	0.00	0.00	19.74
rs6450872	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	5	31889877	T	C	4601	0.10	0.02	0.00	0.01	23.25
rs79731454	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	5	44438175	A	G	4601	-0.30	0.06	0.00	0.01	24.03
rs9389561	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	6	138133171	G	A	4601	0.11	0.02	0.00	0.01	24.54
rs6953067	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	7	151844407	G	C	4601	-0.12	0.03	0.00	0.00	21.06
rs34355717	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	8	66328354	C	G	4601	0.18	0.04	0.00	0.00	19.53

rs11277080	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	8	92323462	T	C	4601	0.35	0.07	0.00	0.00	22.15
rs35816551	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	8	138316456	T	A	4601	-0.12	0.03	0.00	0.00	21.20
rs867687	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	10	49669219	G	A	4601	0.11	0.02	0.00	0.00	19.96
rs118130338	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	10	74146515	T	C	4601	0.35	0.08	0.00	0.00	19.74
rs80184468	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	11	75554912	T	C	4601	-0.17	0.03	0.00	0.01	23.91
rs7358578	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	12	14477922	A	G	4601	0.10	0.02	0.00	0.00	21.77
rs72624714	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	14	57014203	A	G	4601	-0.16	0.03	0.00	0.01	26.09
rs3115883	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	15	42409490	C	T	4601	0.11	0.02	0.00	0.00	21.82
rs11640671	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	16	85760153	A	G	4601	0.17	0.03	0.00	0.01	23.80
rs55674581	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	17	75801154	T	C	4601	0.14	0.03	0.00	0.00	22.26
rs6099273	Adenosine 5'-monophosphate (AMP) to inosine 5'-monophosphate (IMP) ratio	GCST90200738	20	56772772	T	C	4601	-0.11	0.02	0.00	0.00	20.05
rs115299265	Adenosine 5'-proline ratio	GCST90200739	1	246541332	T	C	8190	0.26	0.06	0.00	0.00	20.77
rs13427484	Adenosine 5'-proline ratio	GCST90200739	2	125684211	A	G	8190	0.23	0.05	0.00	0.00	20.50

rs148882505	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	3	8799831	T	A	8190	-0.30	0.06	0.00	0.00	26.22
rs187058431	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	3	54482288	C	G	8190	-0.27	0.06	0.00	0.00	19.79
rs112709736	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	3	141261265	A	C	8190	0.26	0.06	0.00	0.00	19.73
rs6792151	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	3	171812145	G	T	8190	0.10	0.02	0.00	0.00	20.73
rs16858780	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	3	184386115	C	A	8190	0.09	0.02	0.00	0.00	21.43
rs10520920	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	5	25700246	A	C	8190	-0.07	0.02	0.00	0.00	20.35
rs194493	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	5	73051700	G	T	8190	-0.07	0.02	0.00	0.00	20.42
rs186545019	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	5	81415612	T	A	8190	0.31	0.07	0.00	0.00	21.51
rs16883538	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	6	73291375	C	T	8190	-0.14	0.03	0.00	0.00	19.73
rs34256921	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	10	97048308	A	C	8190	0.10	0.02	0.00	0.00	21.80
rs7075299	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	10	110374498	C	T	8190	-0.16	0.04	0.00	0.00	20.10
rs111557145	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	12	40827422	C	T	8190	0.10	0.02	0.00	0.00	23.21
rs181304197	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	12	86315457	T	C	8190	-0.14	0.03	0.00	0.00	20.21
rs2264772	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	12	116440229	G	C	8190	0.08	0.02	0.00	0.00	22.07
rs112368051	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	13	69314269	T	C	8190	0.20	0.04	0.00	0.00	21.33
rs34591397	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	14	41478587	C	T	8190	0.08	0.02	0.00	0.00	20.11
rs117005059	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	16	74981395	A	C	8190	-0.12	0.03	0.00	0.00	21.82
rs118103311	Adenosine 5'-monophosphate (AMP) to proline ratio	GCST90200739	18	74407627	C	T	8190	-0.27	0.06	0.00	0.00	21.72

rs2540644	Adenosine 5'- monophosphate (AMP) to nroline ratio	GCST90200739	22	18973294	C	T	8190	-0.22	0.03	0.00	0.01	72.47
rs5749664	Adenosine 5'- monophosphate (AMP) to nroline ratio	GCST90200739	22	33797245	A	C	8190	0.10	0.02	0.00	0.00	25.86
rs2391627	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	1	95126128	G	T	8171	0.07	0.02	0.00	0.00	20.55
rs58578755	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	2	112039846	T	G	8171	0.07	0.02	0.00	0.00	22.57
rs62230179	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	3	3208262	T	G	8171	0.14	0.03	0.00	0.00	22.14
rs13088039	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	3	4242079	T	C	8171	0.10	0.02	0.00	0.00	19.71
rs138208818	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	4	163019095	G	A	8171	0.21	0.05	0.00	0.00	21.12
rs16899695	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	5	72557704	G	A	8171	0.39	0.08	0.00	0.00	22.10
rs78964845	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	5	82622685	A	G	8171	0.27	0.06	0.00	0.00	22.60
rs62381404	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	5	114963618	A	G	8171	0.09	0.02	0.00	0.00	20.14
rs568051617	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	7	100989113	G	T	8171	-0.34	0.08	0.00	0.00	19.63
rs73155110	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	7	133819962	T	G	8171	-0.32	0.06	0.00	0.00	26.67
rs144708001	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	9	89035128	C	T	8171	0.25	0.06	0.00	0.00	19.80
rs2225571	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	11	29449074	C	A	8171	0.08	0.02	0.00	0.00	22.02
rs174564	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	11	61820833	G	A	8171	-0.44	0.02	0.00	0.09	810.31

rs61918202	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	12	6287120	C	T	8171	0.13	0.03	0.00	0.00	23.50
rs73090756	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	12	32832618	C	T	8171	0.21	0.05	0.00	0.00	20.25
rs12928099	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	16	15056648	A	C	8171	0.10	0.02	0.00	0.00	33.78
rs16957265	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	16	67238474	C	T	8171	0.18	0.04	0.00	0.00	19.55
rs9890740	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	17	82524197	T	G	8171	-0.10	0.02	0.00	0.00	22.61
rs76262221	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	18	64569949	C	T	8171	0.28	0.06	0.00	0.00	19.52
rs73004975	Arachidonate (20:4n6) to oleate to vaccenate (18:1) ratio	GCST90200740	19	19616343	G	A	8171	-0.13	0.03	0.00	0.00	20.47
rs2505722	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	1	22215952	T	G	8172	-0.08	0.02	0.00	0.00	25.15
rs149140880	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	2	29127896	T	G	8172	0.46	0.10	0.00	0.00	21.11
rs34064963	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	3	12865171	C	G	8172	-0.10	0.02	0.00	0.00	23.26
rs76097375	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	3	169902054	T	A	8172	-0.12	0.03	0.00	0.00	20.38
rs144161168	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	3	184300053	T	G	8172	-0.28	0.06	0.00	0.00	19.96
rs10520920	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	5	25700246	A	C	8172	-0.08	0.02	0.00	0.00	23.95
rs194493	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	5	73051700	G	T	8172	-0.07	0.02	0.00	0.00	20.00
rs146685846	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	7	71970959	C	G	8172	-0.30	0.07	0.00	0.00	19.62
rs6993770	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	8	105569300	T	A	8172	-0.08	0.02	0.00	0.00	20.25

rs146133831	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	9	88286696	T	C	8172	0.42	0.09	0.00	0.00	23.68
rs12337537	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	9	101435909	T	A	8172	-0.10	0.02	0.00	0.00	21.11
rs117903959	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	10	60949914	A	C	8172	0.23	0.05	0.00	0.00	24.17
rs2348757	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	10	83097108	C	T	8172	-0.08	0.02	0.00	0.00	19.75
rs75350542	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	12	6295614	A	C	8172	-0.26	0.06	0.00	0.00	20.60
rs2264772	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	12	116440229	G	C	8172	0.08	0.02	0.00	0.00	21.09
rs112368051	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	13	69314269	T	C	8172	0.20	0.04	0.00	0.00	21.06
rs139973286	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	14	55547360	A	G	8172	-0.30	0.06	0.00	0.00	23.21
rs2215134	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	14	73977922	A	C	8172	0.07	0.02	0.00	0.00	19.66
rs153052	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	16	69412623	A	G	8172	0.08	0.02	0.00	0.00	22.61
rs35156498	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	17	75080512	G	T	8172	-0.14	0.03	0.00	0.00	19.72
rs118103311	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	18	74407627	C	T	8172	-0.27	0.06	0.00	0.00	22.50
rs6511061	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	19	19944014	A	G	8172	0.13	0.03	0.00	0.00	22.26
rs4811252	Adenosine 5'-monophosphate (AMP) to alanine ratio	GCST90200741	20	51869898	C	A	8172	-0.07	0.02	0.00	0.00	21.32
rs35251226	Aspartate to citrate ratio	GCST90200742	2	95178984	T	G	8191	0.56	0.12	0.00	0.00	20.54
rs78198652	Aspartate to citrate ratio	GCST90200742	2	233574735	A	C	8191	-0.10	0.02	0.00	0.00	20.65
rs1354034	Aspartate to citrate ratio	GCST90200742	3	56815721	C	T	8191	0.14	0.02	0.00	0.01	82.55
rs78384757	Aspartate to citrate ratio	GCST90200742	4	24627588	C	T	8191	-0.12	0.03	0.00	0.00	21.15
rs116140909	Aspartate to citrate ratio	GCST90200742	4	83627105	G	A	8191	0.20	0.04	0.00	0.00	19.89
rs62354638	Aspartate to citrate ratio	GCST90200742	5	36638487	A	G	8191	-0.22	0.04	0.00	0.00	26.13
rs80206630	Aspartate to citrate ratio	GCST90200742	8	105084585	C	T	8191	-0.16	0.04	0.00	0.00	19.56
rs180802697	Aspartate to citrate ratio	GCST90200742	8	144301660	A	G	8191	-0.26	0.06	0.00	0.00	22.15
rs72740162	Aspartate to citrate ratio	GCST90200742	9	78804695	T	G	8191	0.09	0.02	0.00	0.00	20.41

rs78441838	Aspartate to citrate ratio	GCST90200742	12	94867215	G	T	8191	0.18	0.04	0.00	0.00	20.26
rs150170008	Aspartate to citrate ratio	GCST90200742	13	108684091	T	G	8191	0.16	0.03	0.00	0.00	22.23
rs6565259	Aspartate to citrate ratio	GCST90200742	16	28887472	C	T	8191	0.07	0.02	0.00	0.00	20.22
rs2660831	Aspartate to citrate ratio	GCST90200742	17	17456732	C	T	8191	-0.12	0.02	0.00	0.00	26.94
rs77336424	Aspartate to citrate ratio	GCST90200742	17	35151712	T	C	8191	-0.19	0.04	0.00	0.00	21.12
rs62081868	Aspartate to citrate ratio	GCST90200742	18	38014178	A	G	8191	0.21	0.04	0.00	0.00	22.87
rs10502876	Aspartate to citrate ratio	GCST90200742	18	46677459	A	G	8191	0.16	0.04	0.00	0.00	19.58
rs6035357	Aspartate to citrate ratio	GCST90200742	20	19498052	T	C	8191	0.08	0.02	0.00	0.00	20.16
rs12053697	Aspartate to citrate ratio	GCST90200742	21	13549004	T	A	8191	-0.29	0.06	0.00	0.00	21.37
rs78802404	Aspartate to citrate ratio	GCST90200742	21	41817942	A	T	8191	0.31	0.06	0.00	0.00	22.30
rs762523	Aspartate to citrate ratio	GCST90200742	22	19193077	G	A	8191	0.08	0.02	0.00	0.00	26.41
rs12750195	Arginine to citrulline ratio	GCST90200743	1	165555832	C	T	8192	-0.08	0.02	0.00	0.00	20.30
rs2841391	Arginine to citrulline ratio	GCST90200743	1	238692042	C	T	8192	0.07	0.02	0.00	0.00	19.58
rs112542230	Arginine to citrulline ratio	GCST90200743	2	50625140	C	T	8192	0.17	0.03	0.00	0.00	24.97
rs114632500	Arginine to citrulline ratio	GCST90200743	2	81161104	G	A	8192	0.29	0.06	0.00	0.00	20.28
rs7580046	Arginine to citrulline ratio	GCST90200743	2	210490648	A	G	8192	-0.08	0.02	0.00	0.00	27.28
rs1580818	Arginine to citrulline ratio	GCST90200743	3	25119985	G	A	8192	0.08	0.02	0.00	0.00	20.85
rs75790006	Arginine to citrulline ratio	GCST90200743	4	43211547	G	T	8192	0.30	0.06	0.00	0.00	25.82
rs843604	Arginine to citrulline ratio	GCST90200743	4	120506332	T	C	8192	-0.11	0.02	0.00	0.00	22.50
rs140791373	Arginine to citrulline ratio	GCST90200743	4	140519904	G	A	8192	0.08	0.02	0.00	0.00	21.52
rs187917912	Arginine to citrulline ratio	GCST90200743	5	22787975	A	G	8192	-0.26	0.06	0.00	0.00	19.85
rs114947816	Arginine to citrulline ratio	GCST90200743	6	600855	C	T	8192	0.26	0.06	0.00	0.00	21.35
rs2246012	Arginine to citrulline ratio	GCST90200743	6	131577068	C	T	8192	0.17	0.02	0.00	0.01	68.23
rs62423458	Arginine to citrulline ratio	GCST90200743	6	131730382	G	A	8192	-0.21	0.05	0.00	0.00	20.27
rs9494145	Arginine to citrulline ratio	GCST90200743	6	135111414	C	T	8192	-0.09	0.02	0.00	0.00	26.13
rs75019868	Arginine to citrulline ratio	GCST90200743	7	20258984	C	T	8192	0.13	0.03	0.00	0.00	19.69
rs56335308	Arginine to citrulline ratio	GCST90200743	8	17561952	A	G	8192	-0.32	0.05	0.00	0.01	44.02
rs77913289	Arginine to citrulline ratio	GCST90200743	9	82777437	T	C	8192	0.15	0.03	0.00	0.00	20.76
rs1615006	Arginine to citrulline ratio	GCST90200743	9	130452448	A	G	8192	0.10	0.02	0.00	0.00	39.21
rs10905359	Arginine to citrulline ratio	GCST90200743	10	8407928	A	C	8192	0.07	0.02	0.00	0.00	21.86
rs7096654	Arginine to citrulline ratio	GCST90200743	10	98374279	T	C	8192	-0.10	0.02	0.00	0.00	37.56
rs11016783	Arginine to citrulline ratio	GCST90200743	10	129412751	T	C	8192	-0.09	0.02	0.00	0.00	20.93
rs10832657	Arginine to citrulline ratio	GCST90200743	11	16634698	T	A	8192	-0.08	0.02	0.00	0.00	24.39
rs61357851	Arginine to citrulline ratio	GCST90200743	12	3054810	T	C	8192	0.18	0.04	0.00	0.00	19.95
rs7959783	Arginine to citrulline ratio	GCST90200743	12	68429335	C	T	8192	0.07	0.02	0.00	0.00	19.65
rs66971513	Arginine to citrulline ratio	GCST90200743	13	23311905	G	C	8192	0.07	0.02	0.00	0.00	19.62
rs73552229	Arginine to citrulline ratio	GCST90200743	13	78433513	A	C	8192	-0.13	0.03	0.00	0.00	21.84

rs80103164	Arginine to citrulline ratio	GCST90200743	16	15633415	A	G	8192	0.17	0.04	0.00	0.00	20.30
rs7206885	Arginine to citrulline ratio	GCST90200743	16	68289185	T	C	8192	0.08	0.02	0.00	0.00	28.54
rs12949704	Arginine to citrulline ratio	GCST90200743	17	5780096	A	G	8192	-0.08	0.02	0.00	0.00	24.01
rs11788600 3	Arginine to citrulline ratio	GCST90200743	17	73415762	C	T	8192	-0.44	0.09	0.00	0.00	23.33
rs11673680	Arginine to citrulline ratio	GCST90200743	19	3318914	T	C	8192	-0.07	0.02	0.00	0.00	20.60
rs7395	Arginine to citrulline ratio	GCST90200743	19	12953508	T	G	8192	0.21	0.04	0.00	0.00	24.97
rs14504186 8	Arginine to citrulline ratio	GCST90200743	19	38244612	T	G	8192	0.20	0.04	0.00	0.00	20.70
rs11713053 4	Arginine to citrulline ratio	GCST90200743	20	10808926	T	C	8192	0.19	0.04	0.00	0.00	19.85
rs11469616 8	Arginine to glutamate	GCST90200744	1	44223372	A	G	8194	0.37	0.08	0.00	0.00	19.76
rs11320687 3	Arginine to glutamate	GCST90200744	2	3813968	A	G	8194	0.18	0.04	0.00	0.00	21.58
rs6726508	Arginine to glutamate	GCST90200744	2	40099002	C	T	8194	0.08	0.02	0.00	0.00	21.38
rs6430588	Arginine to glutamate	GCST90200744	2	135797227	C	T	8194	-0.11	0.02	0.00	0.00	28.38
rs6772970	Arginine to glutamate	GCST90200744	3	25071756	A	G	8194	0.10	0.02	0.00	0.00	22.27
rs13071304	Arginine to glutamate	GCST90200744	3	111742549	C	G	8194	0.14	0.03	0.00	0.00	21.34
rs3755883	Arginine to glutamate	GCST90200744	4	3221523	G	A	8194	0.07	0.02	0.00	0.00	20.34
rs12501448	Arginine to glutamate	GCST90200744	4	40670288	A	G	8194	0.07	0.02	0.00	0.00	21.77
rs79292884	Arginine to glutamate	GCST90200744	4	168649280	T	G	8194	-0.28	0.06	0.00	0.00	19.91
rs11626275 0	Arginine to glutamate	GCST90200744	5	1217822	A	G	8194	0.26	0.06	0.00	0.00	20.31
rs62354638	Arginine to glutamate	GCST90200744	5	36638487	A	G	8194	0.23	0.04	0.00	0.00	29.96
rs13180224	Arginine to glutamate	GCST90200744	5	104949055	G	A	8194	0.14	0.03	0.00	0.00	22.83
rs13155519	Arginine to glutamate	GCST90200744	5	138170745	A	G	8194	-0.07	0.02	0.00	0.00	20.51
rs11772326 4	Arginine to glutamate	GCST90200744	6	152566396	T	C	8194	-0.24	0.05	0.00	0.00	20.54
rs38156	Arginine to glutamate	GCST90200744	7	20004405	T	C	8194	-0.26	0.05	0.00	0.00	22.85
rs6963576	Arginine to glutamate	GCST90200744	7	40884765	T	C	8194	-0.18	0.04	0.00	0.00	21.50
rs7827943	Arginine to glutamate	GCST90200744	8	72493397	G	A	8194	-0.08	0.02	0.00	0.00	20.79
rs72684943	Arginine to glutamate	GCST90200744	9	18236428	G	A	8194	-0.15	0.03	0.00	0.00	20.69
rs2139916	Arginine to glutamate	GCST90200744	10	14162004	T	C	8194	-0.07	0.02	0.00	0.00	19.92
rs2480790	Arginine to glutamate	GCST90200744	10	114009013	A	C	8194	0.08	0.02	0.00	0.00	24.04
rs75475203	Arginine to glutamate	GCST90200744	12	84523979	C	T	8194	0.27	0.06	0.00	0.00	20.24
rs1118898	Arginine to glutamate	GCST90200744	13	86339121	C	T	8194	0.14	0.03	0.00	0.00	20.49
rs14967011 8	Arginine to glutamate	GCST90200744	14	42691876	A	C	8194	0.26	0.06	0.00	0.00	20.41
rs10220847	Arginine to glutamate	GCST90200744	15	46918878	T	C	8194	0.07	0.02	0.00	0.00	20.04
rs62048729	Arginine to glutamate	GCST90200744	16	60376864	C	A	8194	-0.11	0.02	0.00	0.00	25.77
rs14532292 0	Arginine to glutamate	GCST90200744	19	46623059	T	G	8194	0.57	0.12	0.00	0.00	21.51
rs1569583	Adenosine 5'- monophosphat e (AMP) to phenylalanine ratio	GCST90200745	1	22220859	C	T	8189	0.07	0.02	0.00	0.00	19.57

rs1887539	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	1	78306045	T	C	8189	-0.08	0.02	0.00	0.00	22.41
rs79732314	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	1	237804843	C	A	8189	0.21	0.05	0.00	0.00	19.69
rs114245489	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	2	157628563	T	G	8189	0.17	0.04	0.00	0.00	19.68
rs60110084	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	3	8695451	G	A	8189	-0.14	0.03	0.00	0.00	19.54
rs13072652	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	3	84407476	G	T	8189	-0.07	0.02	0.00	0.00	20.99
rs6888757	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	5	4728323	C	T	8189	0.09	0.02	0.00	0.00	19.91
rs194493	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	5	73051700	G	T	8189	-0.07	0.02	0.00	0.00	21.94
rs11953084	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	5	178055693	C	T	8189	0.07	0.02	0.00	0.00	19.66
rs4946601	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	6	121920807	A	C	8189	0.19	0.04	0.00	0.00	20.05
rs6984609	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	8	48677025	G	A	8189	-0.17	0.04	0.00	0.00	20.71
rs13279344	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	8	94751263	T	C	8189	-0.09	0.02	0.00	0.00	24.33
rs117592663	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	9	135469557	A	G	8189	0.33	0.07	0.00	0.00	20.37
rs7096422	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	10	7648805	G	A	8189	0.18	0.04	0.00	0.00	20.55
rs139721493	Adenosine 5'- monophosphate (AMP) to phenylalanine ratio	GCST90200745	10	58793279	T	C	8189	0.26	0.05	0.00	0.00	25.24

rs118182258	Adenosine 5'-monophosphate (AMP) to phenylalanine ratio	GCST90200745	10	60980126	A	G	8189	0.24	0.05	0.00	0.00	24.23
rs676206	Adenosine 5'-monophosphate (AMP) to phenylalanine ratio	GCST90200745	11	75576830	A	C	8189	0.08	0.02	0.00	0.00	20.74
rs75350542	Adenosine 5'-monophosphate (AMP) to phenylalanine ratio	GCST90200745	12	6295614	A	C	8189	-0.28	0.06	0.00	0.00	23.37
rs2264772	Adenosine 5'-monophosphate (AMP) to phenylalanine ratio	GCST90200745	12	116440229	G	C	8189	0.08	0.02	0.00	0.00	20.56
rs9576403	Adenosine 5'-monophosphate (AMP) to phenylalanine ratio	GCST90200745	13	37948835	T	A	8189	-0.07	0.02	0.00	0.00	20.18
rs11846826	Adenosine 5'-monophosphate (AMP) to phenylalanine ratio	GCST90200745	14	62249072	A	G	8189	-0.11	0.02	0.00	0.00	22.06
rs4438389	Adenosine 5'-monophosphate (AMP) to phenylalanine ratio	GCST90200745	18	27193177	G	A	8189	0.08	0.02	0.00	0.00	20.58
rs118103311	Adenosine 5'-monophosphate (AMP) to phenylalanine ratio	GCST90200745	18	74407627	C	T	8189	-0.29	0.06	0.00	0.00	24.77
rs6517376	Adenosine 5'-monophosphate (AMP) to phenylalanine ratio	GCST90200745	21	36703581	C	T	8189	0.25	0.06	0.00	0.00	20.14
rs115871114	Adenosine 5'-diphosphate (ADP) to gluconate	GCST90200746	1	158752130	T	C	4540	-0.30	0.07	0.00	0.00	20.13
rs2551972	Adenosine 5'-diphosphate (ADP) to gluconate	GCST90200746	2	207672132	A	G	4540	0.09	0.02	0.00	0.00	20.02
rs80332390	Adenosine 5'-diphosphate (ADP) to gluconate	GCST90200746	2	234191055	C	A	4540	0.28	0.06	0.00	0.00	20.46
rs73033832	Adenosine 5'-diphosphate (ADP) to gluconate	GCST90200746	3	14532760	A	G	4540	-0.19	0.04	0.00	0.00	20.36
rs146875741	Adenosine 5'-diphosphate (ADP) to gluconate	GCST90200746	3	128155735	G	A	4540	0.59	0.11	0.00	0.01	27.94
rs76278782	Adenosine 5'-diphosphate (ADP) to gluconate	GCST90200746	5	39217905	T	C	4540	0.36	0.08	0.00	0.00	21.33
rs192774304	Adenosine 5'-diphosphate (ADP) to gluconate	GCST90200746	6	19877162	T	G	4540	-0.63	0.14	0.00	0.00	19.54

rs78349590	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	6	80144777	C	T	4540	-0.32	0.07	0.00	0.00	20.09
rs14837492 4	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	6	166178710	C	G	4540	0.40	0.09	0.00	0.00	19.55
rs12704121	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	7	85257434	G	A	4540	0.19	0.04	0.00	0.00	19.72
rs56057212	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	7	154686409	G	A	4540	0.11	0.02	0.00	0.00	22.68
rs7829662	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	8	100846652	G	T	4540	-0.13	0.03	0.00	0.00	20.30
rs12003375	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	9	29378733	G	A	4540	0.11	0.02	0.00	0.00	21.10
rs76866939	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	10	24713335	A	G	4540	0.30	0.06	0.00	0.00	22.72
rs11196199	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	10	113036358	G	A	4540	0.15	0.03	0.00	0.01	26.00
rs1166250	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	12	126899163	C	T	4540	-0.09	0.02	0.00	0.00	20.04
rs77701487	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	14	101179973	A	C	4540	0.21	0.05	0.00	0.00	21.26
rs11203639 4	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	16	4812786	C	T	4540	-0.15	0.03	0.00	0.01	25.34
rs246141	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	16	69425688	T	C	4540	0.10	0.02	0.00	0.00	21.89
rs1865423	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	17	54261536	C	T	4540	-0.10	0.02	0.00	0.00	22.06
rs11659869	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	18	24621980	G	A	4540	-0.10	0.02	0.00	0.00	20.94
rs62103136	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	19	34032190	C	T	4540	-0.17	0.04	0.00	0.00	21.40
rs3788398	Adenosine 5'- diphosphate (ADP) to gluconate	GCST90200746	22	26434512	G	A	4540	-0.20	0.05	0.00	0.00	20.08
rs74613047	monophosphat e (AMP) to phosphate	GCST90200747	1	9301302	T	G	8184	-0.15	0.03	0.00	0.00	21.10
rs1401685	Adenosine 5'- monophosphat e (AMP) to phosphate	GCST90200747	2	136179943	C	A	8184	-0.25	0.05	0.00	0.00	22.91

rs11690307	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	2	149821308	C	G	8184	0.07	0.02	0.00	0.00	19.75
rs60110084	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	3	8695451	G	A	8184	-0.14	0.03	0.00	0.00	19.99
rs79386316	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	3	184391714	T	C	8184	0.14	0.03	0.00	0.00	21.66
rs139047949	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	5	29898154	A	C	8184	-0.16	0.03	0.00	0.00	21.04
rs2666747	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	5	72950455	T	C	8184	0.07	0.02	0.00	0.00	21.30
rs148214235	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	5	104075839	T	C	8184	0.11	0.02	0.00	0.00	22.02
rs79857089	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	8	4096050	C	G	8184	-0.17	0.04	0.00	0.00	20.31
rs139721493	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	10	58793279	T	C	8184	0.24	0.05	0.00	0.00	20.98
rs141544323	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	12	6300353	T	C	8184	-0.26	0.06	0.00	0.00	21.81
rs182535564	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	12	92148278	A	T	8184	0.23	0.05	0.00	0.00	20.89
rs2264772	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	12	116440229	G	C	8184	0.08	0.02	0.00	0.00	20.60
rs112368051	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	13	69314269	T	C	8184	0.20	0.04	0.00	0.00	21.91
rs11846826	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	14	62249072	A	G	8184	-0.10	0.02	0.00	0.00	20.20
rs572593	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	15	54522998	G	C	8184	0.08	0.02	0.00	0.00	23.66
rs75039646	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	16	17540208	A	C	8184	0.14	0.03	0.00	0.00	19.87
rs12941798	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	17	55212120	A	G	8184	-0.07	0.02	0.00	0.00	19.63
rs118103311	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	18	74407627	C	T	8184	-0.26	0.06	0.00	0.00	20.22
rs75978151	Adenosine 5'-monophosphate (AMP) to phosphate	GCST90200747	22	24853317	T	C	8184	-0.13	0.03	0.00	0.00	20.71
rs72705407	Aspartate to glutamate	GCST90200748	1	115795134	G	A	8190	0.14	0.03	0.00	0.00	21.88

rs14546740 1	Aspartate to glutamate	GCST90200748	2	43367011	G	A	8190	-0.30	0.06	0.00	0.00	22.13
rs35022330	Aspartate to glutamate	GCST90200748	2	172548130	G	A	8190	-0.08	0.02	0.00	0.00	20.09
rs75310659	Aspartate to glutamate	GCST90200748	2	231320853	C	A	8190	0.12	0.03	0.00	0.00	21.82
rs1354034	Aspartate to glutamate	GCST90200748	3	56815721	C	T	8190	0.13	0.02	0.00	0.01	69.49
rs1225068	Aspartate to glutamate	GCST90200748	3	131960460	A	G	8190	-0.07	0.02	0.00	0.00	20.76
rs6830391	Aspartate to glutamate	GCST90200748	4	141621819	C	G	8190	0.14	0.03	0.00	0.00	20.17
rs4695907	Aspartate to glutamate	GCST90200748	4	174087639	A	G	8190	0.07	0.02	0.00	0.00	20.12
rs2271101	Aspartate to glutamate	GCST90200748	4	177438565	G	A	8190	-0.09	0.02	0.00	0.00	33.84
rs1375240	Aspartate to glutamate	GCST90200748	7	17456445	T	C	8190	0.10	0.02	0.00	0.00	19.73
rs6950314	Aspartate to glutamate	GCST90200748	7	73667501	G	A	8190	-0.07	0.02	0.00	0.00	19.85
rs35362363	Aspartate to glutamate	GCST90200748	7	104885798	G	A	8190	0.10	0.02	0.00	0.00	20.81
rs11704650 1	Aspartate to glutamate	GCST90200748	9	36168112	C	G	8190	-0.40	0.09	0.00	0.00	20.74
rs12336057	Aspartate to glutamate	GCST90200748	9	74650952	G	A	8190	-0.19	0.04	0.00	0.00	19.84
rs670051	Aspartate to glutamate	GCST90200748	9	125635176	G	C	8190	-0.14	0.03	0.00	0.00	19.83
rs11281447 5	Aspartate to glutamate	GCST90200748	10	3069116	A	G	8190	0.17	0.03	0.00	0.00	25.31
rs12245149	Aspartate to glutamate	GCST90200748	10	63561387	A	C	8190	-0.07	0.01	0.00	0.00	20.10
rs53195319 5	Aspartate to glutamate	GCST90200748	10	79402564	C	T	8190	0.28	0.06	0.00	0.00	20.30
rs7315682	Aspartate to glutamate	GCST90200748	12	32533023	T	C	8190	0.10	0.02	0.00	0.00	21.41
rs11754975 2	Aspartate to glutamate	GCST90200748	14	23072454	A	G	8190	0.47	0.10	0.00	0.00	20.85
rs11311613 9	Aspartate to glutamate	GCST90200748	14	49116655	T	C	8190	-0.26	0.06	0.00	0.00	21.89
rs149680	Aspartate to glutamate	GCST90200748	14	72157624	G	C	8190	0.07	0.02	0.00	0.00	20.91
rs57516305	Aspartate to glutamate	GCST90200748	15	98745330	T	C	8190	-0.08	0.02	0.00	0.00	21.81
rs4791019	Aspartate to glutamate	GCST90200748	17	66870990	T	A	8190	0.16	0.03	0.00	0.00	20.71
rs6041037	Aspartate to glutamate	GCST90200748	20	12028748	G	A	8190	0.08	0.02	0.00	0.00	23.35
rs11674809 7	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	3	7245308	T	C	8200	0.30	0.07	0.00	0.00	20.04
rs77082615	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	3	147618938	C	G	8200	0.33	0.07	0.00	0.00	22.59
rs14077551 1	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	4	84698292	A	T	8200	0.14	0.03	0.00	0.00	19.98
rs6552232	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	4	177427940	T	C	8200	0.10	0.02	0.00	0.00	19.85
rs6884129	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	5	159951575	C	G	8200	-0.13	0.03	0.00	0.00	24.89
rs1524596	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	7	80599997	C	G	8200	0.08	0.02	0.00	0.00	22.25
rs13927894 6	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	7	96776335	A	T	8200	-0.22	0.05	0.00	0.00	21.19
rs12573430	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	10	79041189	C	T	8200	-0.14	0.03	0.00	0.00	22.94

rs174564	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	11	61820833	G	A	8200	-0.25	0.02	0.00	0.03	262.46
rs61925195	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	12	43550323	T	C	8200	0.12	0.03	0.00	0.00	20.91
rs14532564 1	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	12	95241095	A	G	8200	-0.23	0.05	0.00	0.00	23.14
rs12431272	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	13	31391571	G	A	8200	0.19	0.04	0.00	0.00	25.40
rs9545715	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	13	81469066	C	G	8200	-0.08	0.02	0.00	0.00	25.28
rs18689057 5	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	14	59042274	G	T	8200	-0.36	0.08	0.00	0.00	21.72
rs11629219	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	14	77188585	G	T	8200	0.11	0.02	0.00	0.00	20.97
rs72709554	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	14	101414414	G	A	8200	0.14	0.03	0.00	0.00	20.78
rs9940956	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	16	17392495	C	G	8200	0.07	0.02	0.00	0.00	19.75
rs75168972	Arachidonate (20:4n6) to pyruvate ratio	GCST90200749	20	14105291	A	G	8200	-0.17	0.04	0.00	0.00	22.11
rs933493	Aspartate to asparagine ratio	GCST90200750	2	102094571	T	C	8195	0.08	0.02	0.00	0.00	24.29
rs58717381	Aspartate to asparagine ratio	GCST90200750	2	231510449	C	A	8195	0.11	0.02	0.00	0.00	20.01
rs57385156	Aspartate to asparagine ratio	GCST90200750	3	36424636	C	A	8195	0.22	0.05	0.00	0.00	20.88
rs1354034	Aspartate to asparagine ratio	GCST90200750	3	56815721	C	T	8195	0.14	0.02	0.00	0.01	85.29
rs17375837	Aspartate to asparagine ratio	GCST90200750	3	123946165	G	A	8195	-0.13	0.03	0.00	0.00	19.67
rs3821445	Aspartate to asparagine ratio	GCST90200750	3	136283967	C	T	8195	-0.09	0.02	0.00	0.00	25.61
rs12650946	Aspartate to asparagine ratio	GCST90200750	4	31918793	C	T	8195	0.44	0.10	0.00	0.00	21.07
rs13133517	Aspartate to asparagine ratio	GCST90200750	4	177440833	C	T	8195	-0.09	0.02	0.00	0.00	29.72
rs62354638	Aspartate to asparagine ratio	GCST90200750	5	36638487	A	G	8195	-0.24	0.04	0.00	0.00	30.59
rs75628965	Aspartate to asparagine ratio	GCST90200750	6	86256187	T	C	8195	0.16	0.04	0.00	0.00	19.51
rs14527323 5	Aspartate to asparagine ratio	GCST90200750	9	30186142	T	C	8195	0.27	0.06	0.00	0.00	19.91
rs14675796 3	Aspartate to asparagine ratio	GCST90200750	11	101505547	C	G	8195	0.32	0.07	0.00	0.00	20.34
rs11805833 4	Aspartate to asparagine ratio	GCST90200750	13	50382197	C	T	8195	0.30	0.07	0.00	0.00	20.17
rs11755526 5	Aspartate to asparagine ratio	GCST90200750	14	20923252	C	T	8195	0.50	0.10	0.00	0.00	23.78

rs2282377	Aspartate to asparagine ratio	GCST90200750	14	104105483	G	C	8195	-0.29	0.02	0.00	0.02	169.53
rs6565259	Aspartate to asparagine ratio	GCST90200750	16	28887472	C	T	8195	0.08	0.02	0.00	0.00	22.12
rs2660831	Aspartate to asparagine ratio	GCST90200750	17	17456732	C	T	8195	-0.11	0.02	0.00	0.00	22.36
rs76494209	Aspartate to asparagine ratio	GCST90200750	17	35124648	G	A	8195	-0.23	0.05	0.00	0.00	23.04
rs4553714	Aspartate to asparagine ratio	GCST90200750	18	46719033	A	G	8195	-0.17	0.04	0.00	0.00	21.68
rs77255737	Aspartate to asparagine ratio	GCST90200750	20	16562921	G	A	8195	0.13	0.03	0.00	0.00	20.52
rs149503602	Cortisone to cortisol ratio	GCST90200751	1	87290023	T	C	8173	0.39	0.08	0.00	0.00	24.97
rs62110849	Cortisone to cortisol ratio	GCST90200751	2	19768826	C	T	8173	0.07	0.01	0.00	0.00	22.99
rs61040705	Cortisone to cortisol ratio	GCST90200751	2	37733492	T	C	8173	0.12	0.02	0.00	0.00	26.04
rs2342704	Cortisone to cortisol ratio	GCST90200751	2	45154186	C	G	8173	0.07	0.02	0.00	0.00	19.99
rs78668819	Cortisone to cortisol ratio	GCST90200751	2	143554894	G	C	8173	-0.12	0.03	0.00	0.00	19.91
rs9826803	Cortisone to cortisol ratio	GCST90200751	3	11420389	A	G	8173	0.07	0.02	0.00	0.00	21.20
rs71310531	Cortisone to cortisol ratio	GCST90200751	3	172996444	A	G	8173	0.14	0.03	0.00	0.00	22.64
rs1530320	Cortisone to cortisol ratio	GCST90200751	4	99445484	C	T	8173	0.10	0.02	0.00	0.00	22.29
rs146149679	Cortisone to cortisol ratio	GCST90200751	6	87790084	G	C	8173	-0.22	0.04	0.00	0.00	26.35
rs115051750	Cortisone to cortisol ratio	GCST90200751	7	106154315	T	C	8173	-0.12	0.02	0.00	0.00	25.42
rs12544257	Cortisone to cortisol ratio	GCST90200751	8	102643650	A	T	8173	0.13	0.03	0.00	0.00	19.76
rs4877815	Cortisone to cortisol ratio	GCST90200751	9	84008353	G	A	8173	0.06	0.01	0.00	0.00	20.29
rs4744179	Cortisone to cortisol ratio	GCST90200751	9	93142522	C	T	8173	0.18	0.04	0.00	0.00	24.09
rs2505129	Cortisone to cortisol ratio	GCST90200751	10	30064959	T	C	8173	-0.16	0.03	0.00	0.00	20.50
rs574712	Cortisone to cortisol ratio	GCST90200751	11	133188232	A	T	8173	-0.09	0.02	0.00	0.00	20.79
rs4491436	Cortisone to cortisol ratio	GCST90200751	14	94338363	C	A	8173	-0.09	0.02	0.00	0.00	28.47
rs62043313	Cortisone to cortisol ratio	GCST90200751	16	79710237	G	T	8173	-0.07	0.01	0.00	0.00	19.95
rs79015029	Cortisone to cortisol ratio	GCST90200751	17	10186482	C	T	8173	-0.23	0.05	0.00	0.00	22.00
rs79823136	Cortisone to cortisol ratio	GCST90200751	20	3885548	G	A	8173	-0.14	0.03	0.00	0.00	20.06
rs142035356	Cortisone to cortisol ratio	GCST90200751	22	23102214	A	G	8173	0.33	0.07	0.00	0.00	19.85
rs11806669	Succinate to acetoacetate ratio	GCST90200752	1	109451641	T	G	6829	0.50	0.11	0.00	0.00	20.73
rs41271969	Succinate to acetoacetate ratio	GCST90200752	1	162333056	T	C	6829	-0.66	0.15	0.00	0.00	20.12
rs62249151	Succinate to acetoacetate ratio	GCST90200752	3	60638589	T	G	6829	-0.09	0.02	0.00	0.00	19.81
rs6775559	Succinate to acetoacetate ratio	GCST90200752	3	109417637	A	C	6829	0.12	0.02	0.00	0.00	22.97
rs2240200	Succinate to acetoacetate ratio	GCST90200752	4	7202447	C	T	6829	-0.14	0.03	0.00	0.00	21.33

rs77650931	Succinate to acetoacetate ratio	GCST90200752	5	124712130	G	A	6829	0.10	0.02	0.00	0.00	19.75
rs116779278	Succinate to acetoacetate ratio	GCST90200752	6	34503548	T	C	6829	-0.17	0.04	0.00	0.00	21.59
rs61253071	Succinate to acetoacetate ratio	GCST90200752	6	115272795	C	G	6829	-0.19	0.04	0.00	0.00	22.02
rs3779223	Succinate to acetoacetate ratio	GCST90200752	7	36528277	G	C	6829	0.22	0.05	0.00	0.00	21.89
rs6415662	Succinate to acetoacetate ratio	GCST90200752	8	52346164	T	A	6829	-0.16	0.04	0.00	0.00	19.88
rs72715698	Succinate to acetoacetate ratio	GCST90200752	9	15044789	T	C	6829	0.22	0.04	0.00	0.00	24.70
rs79056907	Succinate to acetoacetate ratio	GCST90200752	9	85018768	A	C	6829	0.21	0.04	0.00	0.00	23.17
rs117500453	Succinate to acetoacetate ratio	GCST90200752	9	136140820	T	C	6829	0.40	0.09	0.00	0.00	19.68
rs75728123	Succinate to acetoacetate ratio	GCST90200752	10	3118431	G	A	6829	-0.12	0.02	0.00	0.00	27.34
rs116872994	Succinate to acetoacetate ratio	GCST90200752	10	127377019	G	A	6829	-0.62	0.12	0.00	0.00	25.77
rs641695	Succinate to acetoacetate ratio	GCST90200752	11	61189600	G	C	6829	0.08	0.02	0.00	0.00	19.96
rs77862565	Succinate to acetoacetate ratio	GCST90200752	12	68267052	A	G	6829	-0.41	0.09	0.00	0.00	22.18
rs150379818	Succinate to acetoacetate ratio	GCST90200752	17	68245395	C	A	6829	-0.57	0.12	0.00	0.00	22.82
rs79578884	Aspartate to citrulline ratio	GCST90200753	2	58174785	C	A	8139	0.22	0.05	0.00	0.00	19.57
rs6760922	Aspartate to citrulline ratio	GCST90200753	2	102095450	G	A	8139	0.08	0.02	0.00	0.00	24.28
rs59143878	Aspartate to citrulline ratio	GCST90200753	3	13501774	T	C	8139	0.19	0.04	0.00	0.00	19.75
rs113919371	Aspartate to citrulline ratio	GCST90200753	3	25007887	T	C	8139	0.37	0.07	0.00	0.00	25.55
rs1354034	Aspartate to citrulline ratio	GCST90200753	3	56815721	C	T	8139	0.15	0.02	0.00	0.01	90.44
rs16859614	Aspartate to citrulline ratio	GCST90200753	4	46892510	T	C	8139	0.20	0.05	0.00	0.00	20.41
rs150126807	Aspartate to citrulline ratio	GCST90200753	4	91297637	A	G	8139	0.38	0.09	0.00	0.00	20.39
rs62354638	Aspartate to citrulline ratio	GCST90200753	5	36638487	A	G	8139	-0.19	0.04	0.00	0.00	20.49
rs147834125	Aspartate to citrulline ratio	GCST90200753	7	122383588	T	C	8139	0.34	0.07	0.00	0.00	26.18
rs117755010	Aspartate to citrulline ratio	GCST90200753	7	155179764	T	G	8139	0.17	0.03	0.00	0.00	24.18
rs118137457	Aspartate to citrulline ratio	GCST90200753	8	91219714	T	C	8139	-0.18	0.04	0.00	0.00	19.68
rs80089106	Aspartate to citrulline ratio	GCST90200753	8	105072621	A	G	8139	-0.17	0.04	0.00	0.00	20.66
rs112422823	Aspartate to citrulline ratio	GCST90200753	8	144466532	C	G	8139	-0.07	0.02	0.00	0.00	23.16
rs2771060	Aspartate to citrulline ratio	GCST90200753	9	101190217	A	T	8139	0.12	0.03	0.00	0.00	19.73
rs36051896	Aspartate to citrulline ratio	GCST90200753	10	1109807	C	T	8139	0.09	0.02	0.00	0.00	20.02
rs61883501	Aspartate to citrulline ratio	GCST90200753	11	13861207	C	A	8139	-0.22	0.05	0.00	0.00	23.33
rs147768523	Aspartate to citrulline ratio	GCST90200753	12	30794025	T	A	8139	0.32	0.07	0.00	0.00	20.19

rs9586572	Aspartate to citrulline ratio	GCST90200753	13	104625312	T	G	8139	0.19	0.04	0.00	0.00	20.92
rs187713	Aspartate to citrulline ratio	GCST90200753	16	55728072	C	T	8139	-0.21	0.05	0.00	0.00	20.17
rs11699714 2	Aspartate to citrulline ratio	GCST90200753	17	20196975	T	G	8139	-0.38	0.09	0.00	0.00	19.82
rs11667501 7	Sphingosine to phosphate	GCST90200754	1	44652993	T	C	8017	-0.46	0.10	0.00	0.00	19.62
rs10197942	Sphingosine to phosphate	GCST90200754	2	83692428	T	C	8017	-0.08	0.02	0.00	0.00	20.49
rs17264905	Sphingosine to phosphate	GCST90200754	3	236063	A	G	8017	0.13	0.03	0.00	0.00	21.26
rs2574724	Sphingosine to phosphate	GCST90200754	3	11617991	C	T	8017	0.16	0.04	0.00	0.00	20.11
rs1354034	Sphingosine to phosphate	GCST90200754	3	56815721	C	T	8017	0.13	0.02	0.00	0.01	65.35
rs34796754	Sphingosine to phosphate	GCST90200754	3	172026172	A	G	8017	0.08	0.02	0.00	0.00	24.72
rs4374633	Sphingosine to phosphate	GCST90200754	4	133028333	A	G	8017	0.12	0.03	0.00	0.00	19.72
rs78531955	Sphingosine to phosphate	GCST90200754	5	3130064	T	C	8017	0.26	0.05	0.00	0.00	22.67
rs7382170	Sphingosine to phosphate	GCST90200754	6	16970739	A	C	8017	0.08	0.02	0.00	0.00	25.37
rs62524625	Sphingosine to phosphate	GCST90200754	8	130072482	T	C	8017	0.08	0.02	0.00	0.00	22.08
rs14480954 4	Sphingosine to phosphate	GCST90200754	10	69815349	G	C	8017	-0.23	0.05	0.00	0.00	20.32
rs58932608	Sphingosine to phosphate	GCST90200754	11	265602	G	A	8017	0.10	0.02	0.00	0.00	31.77
rs71539444	Sphingosine to phosphate	GCST90200754	12	21532203	G	T	8017	-0.23	0.05	0.00	0.00	22.96
rs11610635	Sphingosine to phosphate	GCST90200754	12	98490532	T	C	8017	0.09	0.02	0.00	0.00	20.34
rs11616804	Sphingosine to phosphate	GCST90200754	13	85123562	T	C	8017	0.12	0.03	0.00	0.00	23.71
rs1693532	Sphingosine to phosphate	GCST90200754	15	58993820	A	G	8017	-0.08	0.02	0.00	0.00	20.54
rs12945211	Sphingosine to phosphate	GCST90200754	17	14898340	C	G	8017	-0.16	0.03	0.00	0.00	20.71
rs3103660	Sphingosine to phosphate	GCST90200754	17	33677500	G	C	8017	-0.10	0.02	0.00	0.00	20.23
rs6748078	Inosine 5'- monophosphat e (IMP) to phosphate	GCST90200755	2	133970570	T	C	4605	0.34	0.08	0.00	0.00	20.43
rs9816900	Inosine 5'- monophosphat e (IMP) to phosphate	GCST90200755	3	96611358	C	T	4605	-0.20	0.04	0.00	0.00	22.48
rs78185304	Inosine 5'- monophosphat e (IMP) to phosphate	GCST90200755	3	130407329	C	T	4605	-0.38	0.08	0.00	0.00	21.66
rs9838567	Inosine 5'- monophosphat e (IMP) to phosphate	GCST90200755	3	152950199	T	C	4605	-0.20	0.04	0.00	0.00	21.99
rs4306951	Inosine 5'- monophosphat e (IMP) to phosphate	GCST90200755	4	9370449	T	C	4605	0.26	0.05	0.00	0.00	21.79
rs12501529	Inosine 5'- monophosphat e (IMP) to phosphate	GCST90200755	4	92570857	T	C	4605	-0.09	0.02	0.00	0.00	19.54
rs17013669	Inosine 5'- monophosphat e (IMP) to phosphate	GCST90200755	4	128767347	T	C	4605	-0.19	0.04	0.00	0.00	22.73
rs28667638	Inosine 5'- monophosphat e (IMP) to phosphate	GCST90200755	4	177371815	G	T	4605	-0.26	0.06	0.00	0.00	19.52

rs115723083	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	4	186367011	A	G	4605	0.35	0.08	0.00	0.00	20.08
rs72773085	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	5	81701196	A	C	4605	0.16	0.03	0.00	0.01	23.41
rs4637610	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	6	94056271	G	A	4605	-0.11	0.02	0.00	0.00	20.44
rs11761910	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	7	32094526	A	G	4605	-0.11	0.02	0.00	0.01	23.59
rs29871	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	7	40905587	T	G	4605	-0.09	0.02	0.00	0.00	20.16
rs12671028	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	7	156424862	G	A	4605	0.14	0.03	0.00	0.00	19.65
rs2979193	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	8	8480921	G	C	4605	0.12	0.03	0.00	0.00	21.43
rs28655196	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	8	81122557	T	C	4605	0.10	0.02	0.00	0.01	23.76
rs785003	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	8	127020006	C	T	4605	0.10	0.02	0.00	0.00	20.34
rs16947101	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	16	78083979	C	T	4605	0.14	0.03	0.00	0.00	21.00
rs2665965	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	17	76024907	C	G	4605	0.11	0.02	0.00	0.01	24.29
rs111855056	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	19	1023848	G	A	4605	-0.24	0.05	0.00	0.00	20.01
rs117955899	Inosine 5'-monophosphate (IMP) to phosphate	GCST90200755	19	11125127	T	C	4605	0.49	0.10	0.00	0.00	22.20
rs140398814	Glycine to pyridoxal	GCST90200756	1	154184627	C	A	8173	-0.41	0.08	0.00	0.00	24.28
rs74152180	Glycine to pyridoxal	GCST90200756	1	208046200	C	T	8173	0.20	0.04	0.00	0.00	20.03
rs1047891	Glycine to pyridoxal	GCST90200756	2	210675783	A	C	8173	0.31	0.02	0.00	0.04	363.44
rs146841686	Glycine to pyridoxal	GCST90200756	3	30049049	A	G	8173	-0.32	0.07	0.00	0.00	22.98
rs139649660	Glycine to pyridoxal	GCST90200756	3	134568469	A	G	8173	-0.37	0.08	0.00	0.00	22.08
rs111245107	Glycine to pyridoxal	GCST90200756	4	125659711	A	G	8173	0.28	0.06	0.00	0.00	20.06
rs148442924	Glycine to pyridoxal	GCST90200756	6	99530775	T	C	8173	-0.32	0.07	0.00	0.00	22.88
rs59808952	Glycine to pyridoxal	GCST90200756	7	56093864	G	C	8173	0.08	0.02	0.00	0.00	22.59
rs149096684	Glycine to pyridoxal	GCST90200756	8	41855930	T	C	8173	0.27	0.06	0.00	0.00	19.66
rs148214882	Glycine to pyridoxal	GCST90200756	8	130791670	T	G	8173	-0.32	0.07	0.00	0.00	20.66
rs1218836	Glycine to pyridoxal	GCST90200756	13	27380901	T	G	8173	0.07	0.02	0.00	0.00	21.44

rs74558257	Glycine to pyridoxal	GCST90200756	13	64956976	A	G	8173	0.19	0.04	0.00	0.00	24.67
rs115091192	Glycine to pyridoxal	GCST90200756	14	100725301	A	C	8173	-0.20	0.04	0.00	0.00	19.66
rs341459	Glycine to pyridoxal	GCST90200756	15	60788136	T	C	8173	0.07	0.02	0.00	0.00	19.54
rs1820128	Glycine to pyridoxal	GCST90200756	19	52767131	G	A	8173	0.10	0.02	0.00	0.00	21.73
rs141590904	Glycine to alanine ratio	GCST90200757	2	4989570	A	G	8167	0.46	0.10	0.00	0.00	19.76
rs4671984	Glycine to alanine ratio	GCST90200757	2	54868008	T	C	8167	0.13	0.03	0.00	0.00	20.78
rs1047891	Glycine to alanine ratio	GCST90200757	2	210675783	A	C	8167	0.46	0.02	0.00	0.10	886.72
rs2364367	Glycine to alanine ratio	GCST90200757	3	126186309	G	C	8167	0.08	0.02	0.00	0.00	26.56
rs7681151	Glycine to alanine ratio	GCST90200757	4	93887981	T	C	8167	0.07	0.02	0.00	0.00	21.39
rs72664120	Glycine to alanine ratio	GCST90200757	4	104725328	T	C	8167	-0.26	0.06	0.00	0.00	20.51
rs4241708	Glycine to alanine ratio	GCST90200757	4	179333243	A	G	8167	0.09	0.02	0.00	0.00	24.67
rs66553670	Glycine to alanine ratio	GCST90200757	5	40193518	T	C	8167	0.15	0.03	0.00	0.00	26.32
rs140017489	Glycine to alanine ratio	GCST90200757	5	61333669	T	C	8167	-0.26	0.06	0.00	0.00	21.75
rs6452434	Glycine to alanine ratio	GCST90200757	5	81876393	C	T	8167	0.15	0.03	0.00	0.00	20.02
rs77811499	Glycine to alanine ratio	GCST90200757	5	100955449	C	A	8167	0.35	0.08	0.00	0.00	21.07
rs75151248	Glycine to alanine ratio	GCST90200757	5	113161609	C	G	8167	-0.21	0.05	0.00	0.00	19.59
rs55933039	Glycine to alanine ratio	GCST90200757	6	11615756	C	T	8167	0.08	0.02	0.00	0.00	20.41
rs9381093	Glycine to alanine ratio	GCST90200757	6	41786838	T	C	8167	0.08	0.02	0.00	0.00	21.44
rs12537943	Glycine to alanine ratio	GCST90200757	7	56089259	G	A	8167	0.07	0.01	0.00	0.00	19.97
rs117848049	Glycine to alanine ratio	GCST90200757	8	15421295	T	G	8167	-0.24	0.05	0.00	0.00	22.06
rs143119940	Glycine to alanine ratio	GCST90200757	9	6554781	A	C	8167	0.46	0.10	0.00	0.00	20.16
rs7076334	Glycine to alanine ratio	GCST90200757	10	25168971	A	G	8167	-0.12	0.03	0.00	0.00	20.67
rs112514849	Glycine to alanine ratio	GCST90200757	11	109760747	G	T	8167	0.18	0.04	0.00	0.00	24.03
rs150779026	Glycine to alanine ratio	GCST90200757	12	16540668	T	C	8167	0.25	0.06	0.00	0.00	20.72
rs6561218	Glycine to alanine ratio	GCST90200757	13	45285668	C	T	8167	-0.08	0.02	0.00	0.00	22.49
rs4889235	Glycine to alanine ratio	GCST90200757	16	81110033	A	G	8167	0.14	0.03	0.00	0.00	27.61
rs662602	Glycine to serine ratio	GCST90200758	1	119724280	G	C	8206	-0.14	0.02	0.00	0.01	73.57
rs946253	Glycine to serine ratio	GCST90200758	1	164527374	C	T	8206	-0.10	0.02	0.00	0.00	20.23
rs9653227	Glycine to serine ratio	GCST90200758	2	6203055	C	A	8206	0.07	0.02	0.00	0.00	20.13
rs73002547	Glycine to serine ratio	GCST90200758	2	210362135	G	A	8206	-0.12	0.02	0.00	0.00	22.43
rs1047891	Glycine to serine ratio	GCST90200758	2	210675783	A	C	8206	0.45	0.02	0.00	0.09	816.05
rs34124418	Glycine to serine ratio	GCST90200758	2	236123582	C	T	8206	0.09	0.02	0.00	0.00	21.38
rs1992855	Glycine to serine ratio	GCST90200758	3	126190826	C	T	8206	0.12	0.02	0.00	0.01	61.97
rs78312207	Glycine to serine ratio	GCST90200758	3	126280532	A	G	8206	0.14	0.03	0.00	0.00	20.09
rs112853931	Glycine to serine ratio	GCST90200758	4	114442765	T	C	8206	0.30	0.07	0.00	0.00	19.94
rs4568357	Glycine to serine ratio	GCST90200758	5	124451159	T	C	8206	-0.08	0.02	0.00	0.00	20.41
rs292488	Glycine to serine ratio	GCST90200758	5	168682254	G	A	8206	0.09	0.02	0.00	0.00	21.58

rs9689119	Glycine to serine ratio	GCST90200758	6	137551947	A	G	8206	-0.09	0.02	0.00	0.00	22.20
rs10269292	Glycine to serine ratio	GCST90200758	7	82581135	A	G	8206	0.10	0.02	0.00	0.00	25.85
rs55933544	Glycine to serine ratio	GCST90200758	9	6534080	T	C	8206	-0.08	0.02	0.00	0.00	22.61
rs4143460	Glycine to serine ratio	GCST90200758	9	10228203	C	T	8206	0.08	0.02	0.00	0.00	21.01
rs12360187	Glycine to serine ratio	GCST90200758	10	7405667	C	A	8206	0.17	0.04	0.00	0.00	20.87
rs669312	Glycine to serine ratio	GCST90200758	10	77449012	G	A	8206	-0.10	0.02	0.00	0.00	20.39
rs34910457	Glycine to serine ratio	GCST90200758	11	132737246	G	A	8206	-0.08	0.02	0.00	0.00	23.06
rs10774628	Glycine to serine ratio	GCST90200758	12	109245890	G	A	8206	0.07	0.02	0.00	0.00	21.06
rs11842416	Glycine to serine ratio	GCST90200758	13	45461735	C	T	8206	-0.09	0.02	0.00	0.00	23.65
rs3809346	Glycine to serine ratio	GCST90200758	13	110308596	A	G	8206	-0.07	0.02	0.00	0.00	20.44
rs143945410	Glycine to serine ratio	GCST90200758	14	51333418	C	T	8206	0.28	0.06	0.00	0.00	19.93
rs8011282	Glycine to serine ratio	GCST90200758	14	99790112	T	C	8206	0.07	0.02	0.00	0.00	20.24
rs12908733	Glycine to serine ratio	GCST90200758	15	58386598	C	T	8206	-0.25	0.05	0.00	0.00	28.25
rs11905888	Glycine to serine ratio	GCST90200758	20	47727603	A	G	8206	0.11	0.02	0.00	0.00	25.95
rs34784763	trans-urocanate Histidine to	GCST90200759	2	88644321	C	G	8109	-0.14	0.03	0.00	0.00	20.90
rs77918978	trans-urocanate Histidine to	GCST90200759	2	101577120	T	C	8109	0.32	0.07	0.00	0.00	20.83
rs191154154	trans-urocanate Histidine to	GCST90200759	3	105946147	T	C	8109	0.37	0.08	0.00	0.00	20.36
rs1124643	trans-urocanate Histidine to	GCST90200759	4	67936026	A	G	8109	0.07	0.02	0.00	0.00	20.29
rs1279616	trans-urocanate Histidine to	GCST90200759	4	137117050	A	G	8109	-0.14	0.03	0.00	0.00	23.68
rs9791029	trans-urocanate Histidine to	GCST90200759	5	83983508	C	T	8109	-0.22	0.05	0.00	0.00	20.30
rs146493113	trans-urocanate Histidine to	GCST90200759	5	95214942	A	C	8109	-0.21	0.05	0.00	0.00	20.16
rs74792074	trans-urocanate Histidine to	GCST90200759	6	16598949	A	G	8109	0.28	0.06	0.00	0.00	21.01
rs2153619	trans-urocanate Histidine to	GCST90200759	6	46474156	G	C	8109	0.16	0.03	0.00	0.00	22.62
rs4945580	trans-urocanate Histidine to	GCST90200759	6	117256849	G	C	8109	-0.16	0.04	0.00	0.00	20.17
rs143000803	trans-urocanate Histidine to	GCST90200759	7	127307984	T	A	8109	0.34	0.07	0.00	0.00	21.22
rs547135094	trans-urocanate Histidine to	GCST90200759	8	18356025	G	T	8109	-0.20	0.04	0.00	0.00	29.93
rs4400374	trans-urocanate Histidine to	GCST90200759	8	21695513	C	G	8109	0.08	0.02	0.00	0.00	22.08
rs72682618	trans-urocanate Histidine to	GCST90200759	8	109230442	C	T	8109	-0.22	0.05	0.00	0.00	20.93
rs79751944	trans-urocanate	GCST90200759	9	81242893	C	T	8109	0.28	0.06	0.00	0.00	22.25

rs75386905	Histidine to trans-urocanate	GCST90200759	12	2582309	G	A	8109	0.14	0.03	0.00	0.00	21.17
rs77147521	Histidine to trans-urocanate	GCST90200759	12	18077159	C	A	8109	0.16	0.04	0.00	0.00	19.64
rs371777	Histidine to trans-urocanate	GCST90200759	12	49955340	A	C	8109	0.07	0.02	0.00	0.00	19.69
rs3213737	Histidine to trans-urocanate	GCST90200759	12	95986028	A	G	8109	-0.28	0.02	0.00	0.04	333.50
rs2110757	Histidine to trans-urocanate	GCST90200759	12	98017017	G	A	8109	0.09	0.02	0.00	0.00	21.13
rs142130021	Histidine to trans-urocanate	GCST90200759	13	98644931	G	T	8109	-0.39	0.09	0.00	0.00	20.09
rs61976174	Histidine to trans-urocanate	GCST90200759	13	101548266	A	G	8109	0.16	0.03	0.00	0.00	20.84
rs955256	Histidine to trans-urocanate	GCST90200759	14	55453072	A	G	8109	-0.07	0.02	0.00	0.00	21.55
rs2290553	Histidine to trans-urocanate	GCST90200759	15	41867092	T	C	8109	0.08	0.02	0.00	0.00	20.05
rs56035820	Histidine to trans-urocanate	GCST90200759	19	51016454	T	C	8109	-0.10	0.02	0.00	0.00	24.75
rs55865883	Histidine to trans-urocanate	GCST90200759	20	19040107	T	C	8109	0.09	0.02	0.00	0.00	20.67
rs66481162	Histidine to trans-urocanate	GCST90200759	20	44773239	A	G	8109	0.17	0.04	0.00	0.00	23.05
rs187219399	Histidine to trans-urocanate	GCST90200759	22	17760007	G	A	8109	0.52	0.11	0.00	0.00	22.14
rs1018392	Methionine to sulfoxide ratio	GCST90200760	1	171384725	T	C	8214	-0.08	0.02	0.00	0.00	22.97
rs6427790	Methionine to sulfoxide ratio	GCST90200760	1	189797809	A	G	8214	-0.21	0.04	0.00	0.00	23.56
rs74147461	Methionine to sulfoxide ratio	GCST90200760	1	234401842	T	C	8214	0.18	0.04	0.00	0.00	21.80
rs62263759	Methionine to sulfoxide ratio	GCST90200760	3	112974906	T	A	8214	0.07	0.02	0.00	0.00	20.61
rs903330	Methionine to sulfoxide ratio	GCST90200760	3	194365760	G	A	8214	0.08	0.02	0.00	0.00	25.64
rs564032583	Methionine to sulfoxide ratio	GCST90200760	4	44301742	C	T	8214	-0.35	0.08	0.00	0.00	19.89
rs116464280	Methionine to sulfoxide ratio	GCST90200760	5	79451975	G	A	8214	0.25	0.06	0.00	0.00	19.64
rs4710080	Methionine to sulfoxide ratio	GCST90200760	6	166688754	T	C	8214	0.14	0.02	0.00	0.00	32.44
rs7011215	Methionine to sulfoxide ratio	GCST90200760	8	10455184	C	T	8214	-0.08	0.02	0.00	0.00	22.33
rs11790547	Methionine to sulfoxide ratio	GCST90200760	9	8448627	T	A	8214	0.21	0.05	0.00	0.00	20.15
rs183568214	Methionine to sulfoxide ratio	GCST90200760	9	26792639	T	G	8214	0.20	0.04	0.00	0.00	20.98

rs72770739	Methionine to methionine sulfoxide ratio	GCST90200760	9	131334748	A	G	8214	0.10	0.02	0.00	0.00	23.20
rs74671162	Methionine to methionine sulfoxide ratio	GCST90200760	10	102374045	T	C	8214	0.37	0.08	0.00	0.00	21.20
rs12417933	Methionine to methionine sulfoxide ratio	GCST90200760	11	2267073	G	A	8214	0.08	0.02	0.00	0.00	22.08
rs78762284	Methionine to methionine sulfoxide ratio	GCST90200760	12	110706960	A	G	8214	-0.11	0.02	0.00	0.00	27.58
rs9805596	Methionine to methionine sulfoxide ratio	GCST90200760	13	65926741	C	A	8214	-0.07	0.02	0.00	0.00	19.66
rs76348336	Methionine to methionine sulfoxide ratio	GCST90200760	13	77996488	T	C	8214	0.18	0.04	0.00	0.00	21.10
rs142933802	Methionine to methionine sulfoxide ratio	GCST90200760	13	82366576	A	T	8214	-0.80	0.18	0.00	0.00	20.72
rs9524154	Methionine to methionine sulfoxide ratio	GCST90200760	13	93639649	G	T	8214	-0.08	0.02	0.00	0.00	23.26
rs4923971	Methionine to methionine sulfoxide ratio	GCST90200760	15	44035914	T	C	8214	-0.09	0.02	0.00	0.00	21.92
rs4775546	Methionine to methionine sulfoxide ratio	GCST90200760	15	62829285	C	T	8214	-0.09	0.02	0.00	0.00	19.66
rs11636331	Methionine to methionine sulfoxide ratio	GCST90200760	15	66222748	A	G	8214	0.07	0.02	0.00	0.00	20.50
rs8034760	Methionine to methionine sulfoxide ratio	GCST90200760	15	75679335	T	G	8214	-0.07	0.02	0.00	0.00	22.69
rs8056893	Methionine to methionine sulfoxide ratio	GCST90200760	16	68270489	A	C	8214	0.08	0.02	0.00	0.00	22.29
rs2035938	Methionine to methionine sulfoxide ratio	GCST90200760	17	3492832	A	G	8214	-0.07	0.02	0.00	0.00	20.90
rs117271035	Methionine to methionine sulfoxide ratio	GCST90200760	19	8201790	A	G	8214	-0.25	0.06	0.00	0.00	20.83
rs62223628	Methionine to methionine sulfoxide ratio	GCST90200760	22	48522638	T	C	8214	0.13	0.03	0.00	0.00	20.95
rs11161609	dimethylarginine (SDMA + ADMA) ratio	GCST90200761	1	85397053	T	G	8243	0.09	0.02	0.00	0.00	31.77
rs77248945	Citrulline to dimethylarginine (SDMA + ADMA) ratio	GCST90200761	1	163270587	C	T	8243	-0.28	0.06	0.00	0.00	19.80
rs374467335	Citrulline to dimethylarginine (SDMA + ADMA) ratio	GCST90200761	2	87133922	C	T	8243	0.24	0.05	0.00	0.00	20.87
rs146778079	Citrulline to dimethylarginine (SDMA + ADMA) ratio	GCST90200761	2	128571258	A	G	8243	0.36	0.08	0.00	0.00	21.87
rs7580046	Citrulline to dimethylarginine (SDMA + ADMA) ratio	GCST90200761	2	210490648	A	G	8243	0.09	0.02	0.00	0.00	35.86
rs12330578	Citrulline to dimethylarginine (SDMA + ADMA) ratio	GCST90200761	3	73484471	C	G	8243	0.07	0.02	0.00	0.00	19.80

rs76488787	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	3	97011401	G	C	8243	0.32	0.07	0.00	0.00	19.63
rs11915421	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	3	143405868	G	A	8243	-0.10	0.02	0.00	0.00	26.18
rs11149096 5	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	4	114528203	T	A	8243	-0.22	0.04	0.00	0.00	24.03
rs12657777	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	5	1063108	A	G	8243	0.07	0.02	0.00	0.00	21.10
rs37369	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	5	35037010	T	C	8243	-0.19	0.03	0.00	0.01	45.75
rs13157370	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	5	99784915	A	C	8243	-0.34	0.07	0.00	0.00	20.52
rs2013986	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	5	126558111	C	T	8243	0.08	0.02	0.00	0.00	19.87
rs853155	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	5	143245288	C	T	8243	-0.08	0.02	0.00	0.00	26.09
rs2362313	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	7	48500964	G	A	8243	0.08	0.02	0.00	0.00	21.82
rs35305782	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	7	157966288	C	A	8243	-0.16	0.03	0.00	0.00	28.10
rs10901047	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	9	130448288	C	T	8243	0.12	0.02	0.00	0.01	53.42
rs4037	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	10	95606063	A	G	8243	0.07	0.02	0.00	0.00	20.83
rs11018151	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	10	127486977	G	A	8243	0.11	0.02	0.00	0.00	19.79
rs14719445 8	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	10	129431588	G	A	8243	0.18	0.04	0.00	0.00	19.78
rs80265523	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	11	114146299	A	T	8243	0.50	0.11	0.00	0.00	20.20
rs11310067 6	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	12	122198506	C	T	8243	-0.16	0.04	0.00	0.00	19.91
rs9511906	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	13	25737722	T	G	8243	0.08	0.02	0.00	0.00	21.18
rs9319142	Citrulline to dimethylargini ne (SDMA + ADMA) ratio	GCST90200761	13	85333538	G	T	8243	0.08	0.02	0.00	0.00	23.08

rs17743980	Citrulline to dimethylarginine (SDMA + ADMA) ratio	GCST90200761	17	9890522	A	G	8243	0.09	0.02	0.00	0.00	29.43
rs181491609	Citrulline to dimethylarginine (SDMA + ADMA) ratio	GCST90200761	18	4197092	C	G	8243	0.40	0.08	0.00	0.00	23.46
rs135539	Citrulline to dimethylarginine (SDMA + ADMA) ratio	GCST90200761	22	46163368	C	A	8243	0.08	0.02	0.00	0.00	22.28
rs116191012	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	1	5211132	T	C	8215	0.37	0.08	0.00	0.00	20.46
rs10800317	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	1	167560143	T	C	8215	-0.07	0.02	0.00	0.00	19.73
rs112924858	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	2	160066501	T	C	8215	0.29	0.06	0.00	0.00	27.17
rs75312190	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	3	112747552	T	G	8215	-0.16	0.03	0.00	0.00	20.23
rs72694567	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	4	181270518	G	A	8215	0.08	0.02	0.00	0.00	20.02
rs117566957	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	6	104032723	A	G	8215	-0.30	0.07	0.00	0.00	19.62
rs9386747	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	6	108717535	C	T	8215	-0.11	0.02	0.00	0.00	23.21
rs2040529	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	7	89036553	A	T	8215	-0.09	0.02	0.00	0.00	21.88
rs28572293	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	7	156004346	C	T	8215	-0.10	0.02	0.00	0.00	21.21
rs79417194	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	8	40025946	A	G	8215	0.20	0.04	0.00	0.00	22.30
rs13272002	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	8	73489719	A	G	8215	-0.07	0.01	0.00	0.00	22.23
rs10812806	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	9	28401614	T	A	8215	-0.08	0.02	0.00	0.00	21.75
rs78966806	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	11	10736212	T	C	8215	0.12	0.03	0.00	0.00	19.83
rs71482409	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	11	103805535	T	A	8215	-0.16	0.03	0.00	0.00	21.87
rs79295839	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	12	131834428	A	G	8215	0.15	0.03	0.00	0.00	22.40

rs62033199	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	16	17739402	G	A	8215	-0.20	0.04	0.00	0.00	21.25
rs14927715 4	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	16	50630050	T	C	8215	-0.31	0.07	0.00	0.00	21.76
rs59158041	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	16	56532233	C	A	8215	-0.12	0.02	0.00	0.00	25.37
rs2875946	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	20	4520765	G	T	8215	-0.17	0.04	0.00	0.00	20.11
rs760985	Palmitate (16:0) to myristate (14:0) ratio	GCST90200762	22	39252708	A	G	8215	-0.21	0.05	0.00	0.00	20.35
rs2065525	Phosphate to N- acetylneurami nate ratio	GCST90200763	1	3387374	G	C	8256	-0.07	0.01	0.00	0.00	22.59
rs10489136	Phosphate to N- acetylneurami nate ratio	GCST90200763	1	4873175	A	G	8256	-0.09	0.02	0.00	0.00	23.22
rs77935306	Phosphate to N- acetylneurami nate ratio	GCST90200763	1	34583706	T	C	8256	-0.14	0.03	0.00	0.00	20.18
rs4839495	Phosphate to N- acetylneurami nate ratio	GCST90200763	1	115848870	T	A	8256	-0.07	0.02	0.00	0.00	20.14
rs58423714	Phosphate to N- acetylneurami nate ratio	GCST90200763	1	183135750	C	A	8256	-0.49	0.06	0.00	0.01	58.24
rs75226792	Phosphate to N- acetylneurami nate ratio	GCST90200763	2	35393343	G	A	8256	-0.15	0.03	0.00	0.00	19.51
rs72842078	Phosphate to N- acetylneurami nate ratio	GCST90200763	2	85899300	A	T	8256	-0.23	0.05	0.00	0.00	21.66
rs4241207	Phosphate to N- acetylneurami nate ratio	GCST90200763	2	101400724	T	C	8256	-0.09	0.02	0.00	0.00	21.80
rs73146320	Phosphate to N- acetylneurami nate ratio	GCST90200763	3	16641564	A	G	8256	0.10	0.02	0.00	0.00	21.05
rs68102698	Phosphate to N- acetylneurami nate ratio	GCST90200763	4	11562841	A	G	8256	0.07	0.02	0.00	0.00	20.42
rs55986203	Phosphate to N- acetylneurami nate ratio	GCST90200763	4	71836025	G	A	8256	-0.09	0.02	0.00	0.00	25.80
rs11658282 7	Phosphate to N- acetylneurami nate ratio	GCST90200763	4	115784849	T	C	8256	0.28	0.06	0.00	0.00	22.20
rs75148797	Phosphate to N- acetylneurami nate ratio	GCST90200763	5	11333069	A	C	8256	-0.39	0.08	0.00	0.00	21.35

rs9469068	Phosphate to N- acetylneurami nate ratio	GCST90200763	6	31894787	A	G	8256	-0.33	0.07	0.00	0.00	19.87
rs73746675	Phosphate to N- acetylneurami nate ratio	GCST90200763	6	34523236	G	A	8256	-0.18	0.04	0.00	0.00	23.14
rs13961410 1	Phosphate to N- acetylneurami nate ratio	GCST90200763	6	129648445	C	T	8256	0.15	0.03	0.00	0.00	22.37
rs62467675	Phosphate to N- acetylneurami nate ratio	GCST90200763	7	95490939	T	C	8256	0.17	0.03	0.00	0.00	25.70
rs13834044 5	Phosphate to N- acetylneurami nate ratio	GCST90200763	9	86000171	A	T	8256	0.35	0.07	0.00	0.00	24.61
rs18250045 5	Phosphate to N- acetylneurami nate ratio	GCST90200763	9	90315257	G	T	8256	-0.26	0.06	0.00	0.00	19.81
rs11245408	Phosphate to N- acetylneurami nate ratio	GCST90200763	10	124887103	G	A	8256	-0.07	0.02	0.00	0.00	20.85
rs61880478	Phosphate to N- acetylneurami nate ratio	GCST90200763	11	5014959	T	C	8256	0.22	0.05	0.00	0.00	21.88
rs56012382 6	Phosphate to N- acetylneurami nate ratio	GCST90200763	11	18719266	G	T	8256	-0.31	0.07	0.00	0.00	19.66
rs78951587	Phosphate to N- acetylneurami nate ratio	GCST90200763	12	28992686	A	C	8256	0.36	0.08	0.00	0.00	22.87
rs10400715	Phosphate to N- acetylneurami nate ratio	GCST90200763	14	77222538	A	G	8256	0.09	0.02	0.00	0.00	21.41
rs11370543 0	Phosphate to N- acetylneurami nate ratio	GCST90200763	15	34811362	G	A	8256	-0.24	0.05	0.00	0.00	19.67
rs14196554 4	Phosphate to N- acetylneurami nate ratio	GCST90200763	15	55651573	T	C	8256	-0.36	0.08	0.00	0.00	20.52
rs77924615	Phosphate to N- acetylneurami nate ratio	GCST90200763	16	20381010	A	G	8256	0.09	0.02	0.00	0.00	20.60
rs4353533	Phosphate to N- acetylneurami nate ratio	GCST90200763	17	62821857	T	C	8256	0.07	0.01	0.00	0.00	23.90
rs14484542 1	Phosphate to N- acetylneurami nate ratio	GCST90200763	18	30638802	T	C	8256	-0.29	0.07	0.00	0.00	19.95
rs72958660	Phosphate to N- acetylneurami nate ratio	GCST90200763	18	58635988	T	C	8256	-0.08	0.02	0.00	0.00	23.79
rs14883136 2	Phosphate to N- acetylneurami nate ratio	GCST90200763	19	13726879	T	C	8256	0.16	0.04	0.00	0.00	19.88

rs11307229 2	Phosphate to N-acetylneurami nate ratio	GCST90200763	21	41219151	A	G	8256	0.19	0.04	0.00	0.00	19.79
rs532545	Phosphate to uridine ratio	GCST90200764	1	20588679	T	C	8186	0.13	0.02	0.00	0.01	68.65
rs79541959	Phosphate to uridine ratio	GCST90200764	1	21494512	C	T	8186	-0.09	0.02	0.00	0.00	20.42
rs7539060	Phosphate to uridine ratio	GCST90200764	1	94741234	A	G	8186	-0.09	0.02	0.00	0.00	22.45
rs14895300 3	Phosphate to uridine ratio	GCST90200764	2	32117274	G	A	8186	0.38	0.07	0.00	0.00	28.10
rs4953625	Phosphate to uridine ratio	GCST90200764	2	48750639	T	C	8186	0.08	0.02	0.00	0.00	20.84
rs18694240 6	Phosphate to uridine ratio	GCST90200764	2	198228928	G	A	8186	0.36	0.08	0.00	0.00	20.12
rs11657310 0	Phosphate to uridine ratio	GCST90200764	2	228636771	A	G	8186	-0.18	0.04	0.00	0.00	22.12
rs11173935 0	Phosphate to uridine ratio	GCST90200764	2	233753142	G	A	8186	0.35	0.08	0.00	0.00	19.66
rs14947980 7	Phosphate to uridine ratio	GCST90200764	3	55740309	C	T	8186	-0.30	0.07	0.00	0.00	20.62
rs14005730 6	Phosphate to uridine ratio	GCST90200764	3	150317819	A	G	8186	0.28	0.06	0.00	0.00	19.88
rs15068645 1	Phosphate to uridine ratio	GCST90200764	4	26329265	C	T	8186	0.25	0.05	0.00	0.00	23.28
rs4502667	Phosphate to uridine ratio	GCST90200764	4	118162447	A	G	8186	0.09	0.02	0.00	0.00	22.63
rs4550972	Phosphate to uridine ratio	GCST90200764	4	179548595	C	T	8186	0.42	0.09	0.00	0.00	21.65
rs34786851	Phosphate to uridine ratio	GCST90200764	5	76411754	T	C	8186	0.25	0.05	0.00	0.00	26.23
rs210137	Phosphate to uridine ratio	GCST90200764	6	33574701	T	C	8186	0.09	0.02	0.00	0.00	19.70
rs11683914 2	Phosphate to uridine ratio	GCST90200764	6	34290794	G	T	8186	-0.21	0.05	0.00	0.00	20.03
rs35614472	Phosphate to uridine ratio	GCST90200764	7	18647919	T	A	8186	-0.36	0.08	0.00	0.00	19.53
rs11560692 0	Phosphate to uridine ratio	GCST90200764	7	34706866	G	A	8186	-0.22	0.04	0.00	0.00	25.66
rs7459020	Phosphate to uridine ratio	GCST90200764	7	48088999	A	G	8186	0.08	0.02	0.00	0.00	25.77
rs79258690	Phosphate to uridine ratio	GCST90200764	7	135427265	G	C	8186	0.16	0.03	0.00	0.00	20.09
rs35915698	Phosphate to uridine ratio	GCST90200764	8	87779356	C	T	8186	0.11	0.02	0.00	0.00	20.03
rs12246817	Phosphate to uridine ratio	GCST90200764	10	3860077	G	T	8186	-0.26	0.06	0.00	0.00	20.46
rs19024813 6	Phosphate to uridine ratio	GCST90200764	10	96380475	A	G	8186	0.40	0.08	0.00	0.00	22.11
rs11715002 0	Phosphate to uridine ratio	GCST90200764	11	39719211	G	A	8186	0.31	0.06	0.00	0.00	23.39
rs14604901 0	Phosphate to uridine ratio	GCST90200764	13	29908178	A	G	8186	-0.24	0.05	0.00	0.00	19.76
rs11793518 7	Phosphate to uridine ratio	GCST90200764	17	21393742	A	G	8186	0.25	0.05	0.00	0.00	22.54
rs11812632 3	Phosphate to uridine ratio	GCST90200764	18	58877328	C	G	8186	0.27	0.06	0.00	0.00	19.65
rs14943992 8	Phosphate to uridine ratio	GCST90200764	19	8671593	A	G	8186	0.31	0.07	0.00	0.00	22.16
rs8133351	Phosphate to uridine ratio	GCST90200764	21	23501431	T	C	8186	-0.07	0.02	0.00	0.00	21.31
rs140521	Phosphate to uridine ratio	GCST90200764	22	50539595	A	C	8186	0.13	0.02	0.00	0.01	59.78
rs4654748	Phosphate to alanine ratio	GCST90200765	1	21459575	T	C	8230	0.07	0.02	0.00	0.00	20.46
rs946527	Phosphate to alanine ratio	GCST90200765	1	46020298	C	T	8230	-0.08	0.02	0.00	0.00	21.13
rs13978578 9	Phosphate to alanine ratio	GCST90200765	1	116838361	G	A	8230	0.29	0.06	0.00	0.00	20.78
rs12030266	Phosphate to alanine ratio	GCST90200765	1	230291712	C	A	8230	-0.17	0.04	0.00	0.00	21.38
rs12632887	Phosphate to alanine ratio	GCST90200765	3	56781823	G	A	8230	0.18	0.04	0.00	0.00	21.45

rs4862343	Phosphate to alanine ratio	GCST90200765	4	184215396	T	A	8230	-0.07	0.02	0.00	0.00	19.81
rs10079528	Phosphate to alanine ratio	GCST90200765	5	35707759	G	A	8230	-0.07	0.02	0.00	0.00	22.07
rs918421	Phosphate to alanine ratio	GCST90200765	5	151452428	G	A	8230	-0.07	0.02	0.00	0.00	23.30
rs9469581	Phosphate to alanine ratio	GCST90200765	6	33748127	A	C	8230	-0.14	0.03	0.00	0.00	22.95
rs6925883	Phosphate to alanine ratio	GCST90200765	6	106477835	C	T	8230	0.11	0.02	0.00	0.00	19.70
rs151325649	Phosphate to alanine ratio	GCST90200765	7	112580220	A	G	8230	-0.23	0.05	0.00	0.00	25.53
rs13311337	Phosphate to alanine ratio	GCST90200765	7	128178895	C	G	8230	-0.07	0.02	0.00	0.00	22.88
rs11765257	Phosphate to alanine ratio	GCST90200765	7	139465102	T	C	8230	0.09	0.02	0.00	0.00	21.58
rs12546218	Phosphate to alanine ratio	GCST90200765	8	61147192	T	C	8230	0.21	0.05	0.00	0.00	20.16
rs78430678	Phosphate to alanine ratio	GCST90200765	10	24359507	G	A	8230	-0.29	0.06	0.00	0.00	19.92
rs117527954	Phosphate to alanine ratio	GCST90200765	12	49091150	A	G	8230	0.35	0.08	0.00	0.00	21.29
rs9546322	Phosphate to alanine ratio	GCST90200765	13	83190884	T	G	8230	0.07	0.02	0.00	0.00	22.14
rs138320524	Phosphate to alanine ratio	GCST90200765	17	2958049	G	A	8230	-0.30	0.07	0.00	0.00	21.25
rs8088527	Phosphate to alanine ratio	GCST90200765	18	48849637	G	A	8230	0.08	0.02	0.00	0.00	25.12
rs7281493	Phosphate to alanine ratio	GCST90200765	21	35958434	T	C	8230	-0.08	0.02	0.00	0.00	24.26
rs5752658	Phosphate to alanine ratio	GCST90200765	22	27922044	G	A	8230	0.15	0.03	0.00	0.00	21.37
rs12070849	phosphoethan olamine ratio	GCST90200766	1	9497950	A	G	8205	-0.20	0.04	0.00	0.00	20.63
rs1256335	phosphoethan olamine ratio	GCST90200766	1	21563893	A	G	8205	-0.11	0.02	0.00	0.00	32.93
rs114681056	Phosphate to phosphoethan olamine ratio	GCST90200766	2	74822779	A	G	8205	0.20	0.04	0.00	0.00	20.02
rs6723239	Phosphate to phosphoethan olamine ratio	GCST90200766	2	114155995	A	C	8205	0.08	0.02	0.00	0.00	19.52
rs76305989	Phosphate to phosphoethan olamine ratio	GCST90200766	2	158705988	C	A	8205	-0.10	0.02	0.00	0.00	20.37
rs9861033	Phosphate to phosphoethan olamine ratio	GCST90200766	3	56827194	G	A	8205	-0.08	0.02	0.00	0.00	26.28
rs530369079	Phosphate to phosphoethan olamine ratio	GCST90200766	4	5444165	T	C	8205	-0.24	0.04	0.00	0.00	27.29
rs10064818	Phosphate to phosphoethan olamine ratio	GCST90200766	5	41229175	G	A	8205	0.11	0.02	0.00	0.00	20.07
rs73693646	Phosphate to phosphoethan olamine ratio	GCST90200766	7	44045793	G	A	8205	0.34	0.08	0.00	0.00	19.88
rs76958245	Phosphate to phosphoethan olamine ratio	GCST90200766	9	93910936	A	G	8205	0.13	0.03	0.00	0.00	19.88
rs78763495	Phosphate to phosphoethan olamine ratio	GCST90200766	11	60155835	A	C	8205	-0.32	0.07	0.00	0.00	24.23
rs79114739	Phosphate to phosphoethan olamine ratio	GCST90200766	11	123459076	T	G	8205	-0.25	0.05	0.00	0.00	22.94
rs12371702	Phosphate to phosphoethan olamine ratio	GCST90200766	12	13702443	C	G	8205	0.10	0.02	0.00	0.00	20.14
rs77363810	Phosphate to phosphoethan olamine ratio	GCST90200766	13	109672583	C	T	8205	0.30	0.06	0.00	0.00	22.66

rs72761668	Phosphate to phosphoethanolamine ratio	GCST90200766	15	101725739	G	A	8205	0.17	0.04	0.00	0.00	19.75
rs6101020	Phosphate to phosphoethanolamine ratio	GCST90200766	20	60692101	C	G	8205	0.10	0.02	0.00	0.00	20.86
rs1781070	Phosphate to glucose ratio	GCST90200767	1	108027076	A	G	8232	-0.07	0.02	0.00	0.00	21.36
rs76302239	Phosphate to glucose ratio	GCST90200767	1	222453314	C	T	8232	0.25	0.06	0.00	0.00	20.22
rs191630090	Phosphate to glucose ratio	GCST90200767	2	108731013	T	C	8232	0.11	0.02	0.00	0.00	21.71
rs35481789	Phosphate to glucose ratio	GCST90200767	2	233091708	T	C	8232	0.08	0.02	0.00	0.00	19.81
rs78867011	Phosphate to glucose ratio	GCST90200767	3	196905616	C	A	8232	0.23	0.05	0.00	0.00	21.10
rs12498731	Phosphate to glucose ratio	GCST90200767	4	175623318	A	T	8232	-0.14	0.03	0.00	0.00	24.33
rs918421	Phosphate to glucose ratio	GCST90200767	5	151452428	G	A	8232	-0.08	0.02	0.00	0.00	25.66
rs80197269	Phosphate to glucose ratio	GCST90200767	6	90795443	G	A	8232	0.17	0.03	0.00	0.00	23.55
rs141976920	Phosphate to glucose ratio	GCST90200767	6	155408992	T	C	8232	0.20	0.04	0.00	0.00	21.37
rs28692733	Phosphate to glucose ratio	GCST90200767	7	37771629	G	A	8232	-0.07	0.02	0.00	0.00	19.67
rs146564241	Phosphate to glucose ratio	GCST90200767	8	133147924	T	C	8232	0.26	0.05	0.00	0.00	22.12
rs11816068	Phosphate to glucose ratio	GCST90200767	10	91107098	C	G	8232	-0.17	0.04	0.00	0.00	19.75
rs7968405	Phosphate to glucose ratio	GCST90200767	12	4476262	C	T	8232	0.09	0.02	0.00	0.00	21.52
rs11051173	Phosphate to glucose ratio	GCST90200767	12	30935920	T	G	8232	-0.77	0.17	0.00	0.00	19.68
rs17094758	Phosphate to glucose ratio	GCST90200767	12	44546419	G	T	8232	0.22	0.05	0.00	0.00	20.06
rs112051339	Phosphate to glucose ratio	GCST90200767	12	75773602	C	T	8232	0.40	0.09	0.00	0.00	20.41
rs12368458	Phosphate to glucose ratio	GCST90200767	12	125820982	G	A	8232	-0.14	0.03	0.00	0.00	21.38
rs148130951	Phosphate to glucose ratio	GCST90200767	14	31473516	C	A	8232	0.23	0.05	0.00	0.00	19.72
rs12886645	Phosphate to glucose ratio	GCST90200767	14	91199674	A	G	8232	-0.08	0.02	0.00	0.00	24.22
rs4258718	Phosphate to glucose ratio	GCST90200767	18	5393687	T	G	8232	-0.16	0.03	0.00	0.00	20.85
rs6112852	Phosphate to glucose ratio	GCST90200767	20	2100945	G	A	8232	0.07	0.02	0.00	0.00	20.98
rs2722784	2'-deoxyuridine Phosphate to	GCST90200768	1	5109244	C	A	7846	0.08	0.02	0.00	0.00	23.03
rs66731853	2'-deoxyuridine Phosphate to	GCST90200768	1	20589745	A	G	7846	0.10	0.02	0.00	0.00	37.91
rs4652271	2'-deoxyuridine Phosphate to	GCST90200768	1	177814535	C	T	7846	0.11	0.02	0.00	0.00	20.88
rs10176990	2'-deoxyuridine Phosphate to	GCST90200768	2	21820438	A	G	7846	-0.15	0.03	0.00	0.00	19.54
rs7594348	2'-deoxyuridine Phosphate to	GCST90200768	2	38419778	C	A	7846	-0.18	0.03	0.00	0.00	29.34
rs17679928	2'-deoxyuridine Phosphate to	GCST90200768	2	66692184	C	T	7846	-0.13	0.03	0.00	0.00	20.85
rs116774110	2'-deoxyuridine Phosphate to	GCST90200768	2	85364149	G	T	7846	0.32	0.07	0.00	0.00	23.13
rs13094935	2'-deoxyuridine	GCST90200768	3	73909566	C	T	7846	0.15	0.03	0.00	0.00	23.85

rs61386854	Phosphate to 2'-deoxyuridine	GCST90200768	4	60442186	C	T	7846	-0.14	0.03	0.00	0.00	21.41
rs72658238	Phosphate to 2'-deoxyuridine	GCST90200768	4	85824887	A	C	7846	0.15	0.03	0.00	0.00	20.35
rs145892522	Phosphate to 2'-deoxyuridine	GCST90200768	4	119571304	T	C	7846	0.35	0.08	0.00	0.00	19.65
rs4691641	Phosphate to 2'-deoxyuridine	GCST90200768	4	160200702	T	C	7846	-0.09	0.02	0.00	0.00	21.39
rs79746308	Phosphate to 2'-deoxyuridine	GCST90200768	5	163424620	T	C	7846	0.12	0.03	0.00	0.00	19.56
rs7751693	Phosphate to 2'-deoxyuridine	GCST90200768	6	35727497	A	G	7846	-0.17	0.04	0.00	0.00	20.00
rs145330969	Phosphate to 2'-deoxyuridine	GCST90200768	6	58017715	A	G	7846	-0.28	0.06	0.00	0.00	19.55
rs78993279	Phosphate to 2'-deoxyuridine	GCST90200768	6	126830206	C	T	7846	0.36	0.08	0.00	0.00	20.06
rs390993	Phosphate to 2'-deoxyuridine	GCST90200768	8	89760982	A	G	7846	0.09	0.02	0.00	0.00	22.30
rs10999000	Phosphate to 2'-deoxyuridine	GCST90200768	10	69849876	G	C	7846	-0.07	0.02	0.00	0.00	20.70
rs12765082	Phosphate to 2'-deoxyuridine	GCST90200768	10	120460551	A	G	7846	0.16	0.04	0.00	0.00	20.25
rs41312921	Phosphate to 2'-deoxyuridine	GCST90200768	11	74456589	C	T	7846	0.60	0.13	0.00	0.00	20.13
rs9326233	Phosphate to 2'-deoxyuridine	GCST90200768	11	111249075	A	C	7846	0.14	0.03	0.00	0.00	21.37
rs147412128	Phosphate to 2'-deoxyuridine	GCST90200768	12	25964324	G	C	7846	0.28	0.06	0.00	0.00	22.48
rs11065979	Phosphate to 2'-deoxyuridine	GCST90200768	12	111621753	T	C	7846	0.08	0.02	0.00	0.00	28.75
rs73497339	Phosphate to 2'-deoxyuridine	GCST90200768	13	27065456	C	T	7846	-0.14	0.03	0.00	0.00	25.07
rs73177369	Phosphate to 2'-deoxyuridine	GCST90200768	13	44039247	G	A	7846	-0.09	0.02	0.00	0.00	20.95
rs11630724	Phosphate to 2'-deoxyuridine	GCST90200768	15	78988324	G	A	7846	-0.19	0.04	0.00	0.00	20.79
rs1160536	Phosphate to 2'-deoxyuridine	GCST90200768	16	27404388	A	G	7846	0.23	0.05	0.00	0.00	21.90
rs117003430	Phosphate to 2'-deoxyuridine	GCST90200768	16	79149873	A	G	7846	-0.32	0.07	0.00	0.00	20.07
rs12946453	Phosphate to 2'-deoxyuridine	GCST90200768	17	60131008	G	T	7846	0.21	0.04	0.00	0.00	24.35
rs117028303	Phosphate to 2'-deoxyuridine	GCST90200768	18	10398598	A	G	7846	-0.25	0.05	0.00	0.00	25.88
rs2775792	Phosphate to 2'-deoxyuridine	GCST90200768	21	13389683	A	C	7846	0.07	0.02	0.00	0.00	21.76
rs131805	Phosphate to 2'-deoxyuridine	GCST90200768	22	50525724	C	T	7846	0.29	0.02	0.00	0.03	255.91

rs5770797	Phosphate to 2'-deoxyuridine	GCST90200768	22	50607663	C	G	7846	-0.10	0.02	0.00	0.00	20.75
rs138453060	Phosphate to mannose ratio	GCST90200769	1	83910225	C	T	8206	-0.34	0.07	0.00	0.00	21.27
rs2800902	Phosphate to mannose ratio	GCST90200769	1	111485191	A	T	8206	0.09	0.02	0.00	0.00	21.84
rs1260326	Phosphate to mannose ratio	GCST90200769	2	27508073	C	T	8206	-0.22	0.02	0.00	0.03	216.45
rs139250430	Phosphate to mannose ratio	GCST90200769	2	74478848	A	G	8206	-0.34	0.08	0.00	0.00	20.07
rs115554300	Phosphate to mannose ratio	GCST90200769	2	148338436	A	C	8206	-0.31	0.07	0.00	0.00	21.27
rs62180452	Phosphate to mannose ratio	GCST90200769	2	187617142	G	A	8206	-0.16	0.04	0.00	0.00	19.86
rs13009343	Phosphate to mannose ratio	GCST90200769	2	219857058	T	G	8206	0.21	0.05	0.00	0.00	19.93
rs17060302	Phosphate to mannose ratio	GCST90200769	3	59317935	C	T	8206	-0.12	0.03	0.00	0.00	20.02
rs2399029	Phosphate to mannose ratio	GCST90200769	3	105031371	T	C	8206	0.10	0.02	0.00	0.00	21.33
rs28496399	Phosphate to mannose ratio	GCST90200769	4	3804020	C	T	8206	0.20	0.05	0.00	0.00	19.60
rs62339020	Phosphate to mannose ratio	GCST90200769	5	10884582	T	G	8206	-0.21	0.05	0.00	0.00	19.81
rs166163	Phosphate to mannose ratio	GCST90200769	5	78075123	C	G	8206	0.08	0.02	0.00	0.00	20.77
rs17665774	Phosphate to mannose ratio	GCST90200769	5	168804489	T	C	8206	0.10	0.02	0.00	0.00	24.39
rs62463241	Phosphate to mannose ratio	GCST90200769	7	82594286	C	G	8206	0.09	0.02	0.00	0.00	21.51
rs72649494	Phosphate to mannose ratio	GCST90200769	8	58895322	C	A	8206	-0.23	0.05	0.00	0.00	21.83
rs147922120	Phosphate to mannose ratio	GCST90200769	9	21544101	A	G	8206	0.23	0.05	0.00	0.00	20.98
rs117707626	Phosphate to mannose ratio	GCST90200769	10	99910947	G	T	8206	0.24	0.05	0.00	0.00	20.05
rs142336544	Phosphate to mannose ratio	GCST90200769	11	5081108	C	T	8206	0.28	0.06	0.00	0.00	21.18
rs11225514	Phosphate to mannose ratio	GCST90200769	11	103006784	G	A	8206	0.10	0.02	0.00	0.00	19.64
rs80304954	Phosphate to mannose ratio	GCST90200769	12	23093411	G	A	8206	-0.19	0.04	0.00	0.00	22.18
rs56138102	Phosphate to mannose ratio	GCST90200769	13	28349346	A	G	8206	-0.35	0.08	0.00	0.00	20.82
rs189027424	Phosphate to mannose ratio	GCST90200769	13	29132525	T	C	8206	-0.36	0.08	0.00	0.00	20.11
rs67573838	Phosphate to mannose ratio	GCST90200769	14	22802586	T	C	8206	-0.08	0.02	0.00	0.00	19.76
rs73565833	Phosphate to mannose ratio	GCST90200769	16	7350643	T	C	8206	0.21	0.05	0.00	0.00	20.68
rs73331384	Phosphate to mannose ratio	GCST90200769	20	24739370	A	G	8206	-0.27	0.06	0.00	0.00	21.97
rs7290682	Phosphate to mannose ratio	GCST90200769	22	22257367	A	C	8206	-0.07	0.02	0.00	0.00	20.37
rs402159	Phenylalanine to tyrosine ratio	GCST90200770	1	242240498	A	T	8205	-0.16	0.03	0.00	0.00	20.67
rs4952523	Phenylalanine to tyrosine ratio	GCST90200770	2	41876837	T	C	8205	-0.12	0.03	0.00	0.00	20.21
rs13408924	Phenylalanine to tyrosine ratio	GCST90200770	2	178115257	T	C	8205	-0.08	0.02	0.00	0.00	19.94
rs74329102	Phenylalanine to tyrosine ratio	GCST90200770	3	28659985	T	C	8205	-0.16	0.04	0.00	0.00	19.90
rs78595810	Phenylalanine to tyrosine ratio	GCST90200770	3	46868322	T	G	8205	-0.29	0.06	0.00	0.00	20.69
rs73118819	Phenylalanine to tyrosine ratio	GCST90200770	3	76385922	G	C	8205	0.18	0.04	0.00	0.00	21.64

rs15031757 4	Phenylalanine to tyrosine ratio	GCST90200770	3	179658201	G	A	8205	-0.34	0.08	0.00	0.00	19.90
rs17861998	Phenylalanine to tyrosine ratio	GCST90200770	4	117499599	T	C	8205	-0.12	0.03	0.00	0.00	19.81
rs10457236	Phenylalanine to tyrosine ratio	GCST90200770	6	111228992	A	G	8205	-0.22	0.02	0.00	0.01	104.16
rs9294965	Phenylalanine to tyrosine ratio	GCST90200770	6	169159411	A	G	8205	0.14	0.03	0.00	0.00	19.52
rs76991298	Phenylalanine to tyrosine ratio	GCST90200770	7	32119719	A	G	8205	-0.20	0.04	0.00	0.00	21.73
rs79273666	Phenylalanine to tyrosine ratio	GCST90200770	8	25909916	C	T	8205	0.13	0.03	0.00	0.00	21.42
rs7873440	Phenylalanine to tyrosine ratio	GCST90200770	9	37752950	C	T	8205	0.07	0.02	0.00	0.00	22.33
rs4962113	Phenylalanine to tyrosine ratio	GCST90200770	9	133252254	C	T	8205	-0.07	0.02	0.00	0.00	20.77
rs11335577 4	Phenylalanine to tyrosine ratio	GCST90200770	12	2766350	A	C	8205	0.14	0.03	0.00	0.00	20.68
rs18239589 7	Phenylalanine to tyrosine ratio	GCST90200770	12	78255975	G	A	8205	0.20	0.04	0.00	0.00	23.05
rs28854495	Phenylalanine to tyrosine ratio	GCST90200770	12	102860510	G	T	8205	-0.10	0.02	0.00	0.01	41.67
rs61224609	Phenylalanine to tyrosine ratio	GCST90200770	14	54936490	G	A	8205	0.09	0.02	0.00	0.00	25.36
rs15085142 9	Phenylalanine to tyrosine ratio	GCST90200770	16	71591928	C	G	8205	-0.55	0.06	0.00	0.01	76.62
rs36016633	Phenylalanine to tyrosine ratio	GCST90200770	17	5766102	G	A	8205	-0.21	0.05	0.00	0.00	21.20
rs19069895 8	Phosphate to fructose ratio	GCST90200771	1	13577107	A	G	8209	-0.43	0.10	0.00	0.00	19.74
rs15007163 4	Phosphate to fructose ratio	GCST90200771	1	235424954	G	T	8209	0.29	0.07	0.00	0.00	20.08
rs28568662	Phosphate to fructose ratio	GCST90200771	2	109680100	G	C	8209	-0.13	0.03	0.00	0.00	20.35
rs13419167	Phosphate to fructose ratio	GCST90200771	2	227580008	G	A	8209	-0.20	0.04	0.00	0.00	20.67
rs60262967	Phosphate to fructose ratio	GCST90200771	2	237882913	C	T	8209	0.08	0.02	0.00	0.00	23.98
rs11668307 6	Phosphate to fructose ratio	GCST90200771	4	7139272	T	C	8209	-0.21	0.05	0.00	0.00	20.29
rs9996776	Phosphate to fructose ratio	GCST90200771	4	138707970	G	A	8209	-0.08	0.02	0.00	0.00	26.37
rs13116867	Phosphate to fructose ratio	GCST90200771	4	188591912	G	A	8209	-0.12	0.03	0.00	0.00	20.64
rs75220534	Phosphate to fructose ratio	GCST90200771	8	17725669	T	A	8209	0.26	0.05	0.00	0.00	23.38
rs76568467	Phosphate to fructose ratio	GCST90200771	8	29595301	T	G	8209	-0.31	0.07	0.00	0.00	19.91
rs2735975	Phosphate to fructose ratio	GCST90200771	8	126441367	G	T	8209	0.19	0.04	0.00	0.00	23.15
rs2148958	Phosphate to fructose ratio	GCST90200771	10	22261903	G	A	8209	-0.08	0.02	0.00	0.00	21.20
rs78603611	Phosphate to fructose ratio	GCST90200771	10	58746023	A	G	8209	-0.42	0.09	0.00	0.00	23.37
rs1964574	Phosphate to fructose ratio	GCST90200771	14	22514585	T	C	8209	0.08	0.02	0.00	0.00	24.58
rs14205191 9	Phosphate to fructose ratio	GCST90200771	14	57915700	C	T	8209	-0.22	0.05	0.00	0.00	21.92
rs758403	Phosphate to fructose ratio	GCST90200771	17	34629267	A	G	8209	-0.07	0.02	0.00	0.00	21.10

rs73952832	Phosphate to fructose ratio	GCST90200771	18	45279199	A	G	8209	-0.36	0.08	0.00	0.00	21.92
rs12132412	Phosphate to citrate ratio	GCST90200772	1	21493549	G	A	8238	0.08	0.02	0.00	0.00	27.50
rs72671744	Phosphate to citrate ratio	GCST90200772	1	62986742	G	A	8238	-0.18	0.04	0.00	0.00	22.28
rs1777451	Phosphate to citrate ratio	GCST90200772	1	108035560	A	G	8238	0.10	0.02	0.00	0.00	40.14
rs151271200	Phosphate to citrate ratio	GCST90200772	2	140459091	A	C	8238	-0.23	0.05	0.00	0.00	20.13
rs114555326	Phosphate to citrate ratio	GCST90200772	2	231468620	T	C	8238	0.30	0.07	0.00	0.00	19.78
rs113801777	Phosphate to citrate ratio	GCST90200772	3	174548903	A	G	8238	0.18	0.04	0.00	0.00	21.02
rs115574037	Phosphate to citrate ratio	GCST90200772	3	194367104	T	G	8238	0.31	0.07	0.00	0.00	20.53
rs34385352	Phosphate to citrate ratio	GCST90200772	3	197457397	A	G	8238	-0.07	0.02	0.00	0.00	21.47
rs147893796	Phosphate to citrate ratio	GCST90200772	4	144436510	G	A	8238	-0.33	0.07	0.00	0.00	23.74
rs17019517	Phosphate to citrate ratio	GCST90200772	4	144597160	A	G	8238	-0.22	0.05	0.00	0.00	21.46
rs140477529	Phosphate to citrate ratio	GCST90200772	4	182738772	A	G	8238	-0.37	0.08	0.00	0.00	24.05
rs7714478	Phosphate to citrate ratio	GCST90200772	5	175821339	T	C	8238	0.11	0.02	0.00	0.00	20.77
rs878378	Phosphate to citrate ratio	GCST90200772	6	44023640	G	C	8238	-0.11	0.02	0.00	0.00	20.06
rs4870027	Phosphate to citrate ratio	GCST90200772	6	151525756	C	T	8238	0.11	0.02	0.00	0.00	20.96
rs6965326	Phosphate to citrate ratio	GCST90200772	7	4116617	C	A	8238	0.19	0.04	0.00	0.00	25.82
rs6978238	Phosphate to citrate ratio	GCST90200772	7	28330439	T	C	8238	0.08	0.02	0.00	0.00	22.84
rs150085219	Phosphate to citrate ratio	GCST90200772	7	68834891	A	G	8238	0.45	0.09	0.00	0.00	23.15
rs36010174	Phosphate to citrate ratio	GCST90200772	8	22956891	A	T	8238	0.09	0.02	0.00	0.00	20.41
rs10815677	Phosphate to citrate ratio	GCST90200772	9	7786248	T	C	8238	0.26	0.06	0.00	0.00	21.27
rs74922775	Phosphate to citrate ratio	GCST90200772	9	32988343	A	C	8238	0.20	0.04	0.00	0.00	20.50
rs7918792	Phosphate to citrate ratio	GCST90200772	10	6914290	A	G	8238	-0.08	0.02	0.00	0.00	19.77
rs6482989	Phosphate to citrate ratio	GCST90200772	10	127065705	G	A	8238	-0.08	0.02	0.00	0.00	20.45
rs117999079	Phosphate to citrate ratio	GCST90200772	12	119193195	T	C	8238	-0.29	0.06	0.00	0.00	20.57
rs708342	Phosphate to citrate ratio	GCST90200772	12	130028948	T	G	8238	0.17	0.04	0.00	0.00	21.07
rs2104394	Phosphate to citrate ratio	GCST90200772	13	52735618	C	T	8238	-0.08	0.02	0.00	0.00	21.43
rs17114587	Phosphate to citrate ratio	GCST90200772	14	22142887	G	C	8238	0.07	0.02	0.00	0.00	20.00
rs4787759	Phosphate to citrate ratio	GCST90200772	16	25756354	G	A	8238	0.24	0.05	0.00	0.00	19.94
rs218671	Phosphate to citrate ratio	GCST90200772	17	6701389	G	T	8238	-0.10	0.02	0.00	0.00	34.81
rs56156342	Phosphate to citrate ratio	GCST90200772	17	6808562	A	G	8238	0.17	0.03	0.00	0.00	29.27
rs113261925	Phosphate to citrate ratio	GCST90200772	18	37371470	A	C	8238	0.34	0.08	0.00	0.00	20.19
rs2867557	Phosphate to citrate ratio	GCST90200772	20	42819092	G	A	8238	-0.15	0.03	0.00	0.00	24.35
rs6517635	Phosphate to citrate ratio	GCST90200772	21	40885572	G	A	8238	-0.12	0.03	0.00	0.00	20.68
rs112257191	Phosphate to citrate ratio	GCST90200772	22	16557536	G	A	8238	-0.22	0.04	0.00	0.00	25.73
rs762523	Phosphate to citrate ratio	GCST90200772	22	19193077	G	A	8238	0.10	0.02	0.00	0.00	38.13
rs12484414	Phosphate to citrate ratio	GCST90200772	22	42478558	T	C	8238	0.24	0.05	0.00	0.00	20.44

rs895789	Serine to alpha- tocopherol ratio	GCST90200773	1	29810144	C	A	8197	-0.07	0.02	0.00	0.00	22.07
rs631106	Serine to alpha- tocopherol ratio	GCST90200773	1	62436136	A	C	8197	0.08	0.02	0.00	0.00	22.59
rs561931	Serine to alpha- tocopherol ratio	GCST90200773	1	119711883	G	A	8197	0.11	0.02	0.00	0.01	53.67
rs1260326	Serine to alpha- tocopherol ratio	GCST90200773	2	27508073	C	T	8197	0.08	0.02	0.00	0.00	25.75
rs7589968	Serine to alpha- tocopherol ratio	GCST90200773	2	46265306	A	G	8197	-0.07	0.02	0.00	0.00	20.96
rs188641059	Serine to alpha- tocopherol ratio	GCST90200773	2	106943809	T	A	8197	0.34	0.08	0.00	0.00	19.70
rs75860931	Serine to alpha- tocopherol ratio	GCST90200773	2	149379873	G	A	8197	0.18	0.04	0.00	0.00	20.70
rs1047891	Serine to alpha- tocopherol ratio	GCST90200773	2	210675783	A	C	8197	0.14	0.02	0.00	0.01	70.25
rs62249149	Serine to alpha- tocopherol ratio	GCST90200773	3	60634564	C	G	8197	-0.09	0.02	0.00	0.00	19.95
rs13325784	Serine to alpha- tocopherol ratio	GCST90200773	3	124547700	A	G	8197	-0.14	0.03	0.00	0.00	21.69
rs4393918	Serine to alpha- tocopherol ratio	GCST90200773	3	175279872	C	G	8197	0.08	0.02	0.00	0.00	24.30
rs76813200	Serine to alpha- tocopherol ratio	GCST90200773	4	10117620	T	A	8197	-0.21	0.05	0.00	0.00	20.28
rs62457261	Serine to alpha- tocopherol ratio	GCST90200773	7	56012733	G	C	8197	0.12	0.02	0.00	0.01	56.07
rs145818332	Serine to alpha- tocopherol ratio	GCST90200773	8	121918528	A	G	8197	-0.34	0.07	0.00	0.00	20.35
rs28601761	Serine to alpha- tocopherol ratio	GCST90200773	8	125487789	G	C	8197	0.08	0.02	0.00	0.00	29.25
rs142498030	Serine to alpha- tocopherol ratio	GCST90200773	9	88076477	T	C	8197	0.28	0.06	0.00	0.00	20.37
rs1002607	Serine to alpha- tocopherol ratio	GCST90200773	9	111096653	C	T	8197	-0.07	0.02	0.00	0.00	21.10
rs58322339	Serine to alpha- tocopherol ratio	GCST90200773	9	135762468	A	C	8197	-0.08	0.02	0.00	0.00	19.83

rs12580691	Serine to alpha- tocopherol ratio	GCST90200773	12	104112807	C	T	8197	-0.24	0.05	0.00	0.00	19.71
rs13910115 1	Serine to alpha- tocopherol ratio	GCST90200773	12	118105447	G	A	8197	-0.28	0.06	0.00	0.00	19.84
rs11706294 2	Serine to alpha- tocopherol ratio	GCST90200773	13	29989743	T	G	8197	0.24	0.05	0.00	0.00	22.40
rs1669587	Serine to alpha- tocopherol ratio	GCST90200773	14	41006888	G	A	8197	-0.08	0.02	0.00	0.00	21.14
rs11707756 9	Serine to alpha- tocopherol ratio	GCST90200773	14	91701603	C	T	8197	0.25	0.06	0.00	0.00	19.52
rs6576576	Serine to alpha- tocopherol ratio	GCST90200773	15	26447308	A	G	8197	0.14	0.03	0.00	0.00	19.95
rs62010860	Serine to alpha- tocopherol ratio	GCST90200773	15	48869737	C	A	8197	0.09	0.02	0.00	0.00	21.87
rs76772514	Serine to alpha- tocopherol ratio	GCST90200773	16	63904189	T	G	8197	-0.24	0.05	0.00	0.00	21.20
rs11770404 6	Serine to alpha- tocopherol ratio	GCST90200773	16	70740259	T	C	8197	-0.24	0.05	0.00	0.00	21.35
rs62090037	Serine to alpha- tocopherol ratio	GCST90200773	18	24530050	G	A	8197	0.09	0.02	0.00	0.00	20.14
rs7251874	Serine to alpha- tocopherol ratio	GCST90200773	19	15851699	G	A	8197	-0.08	0.02	0.00	0.00	24.94
rs9606482	Serine to alpha- tocopherol ratio	GCST90200773	22	16836409	C	T	8197	0.24	0.05	0.00	0.00	20.66
rs532545	Uridine to pseudouridine ratio	GCST90200774	1	20588679	T	C	8254	-0.12	0.02	0.00	0.01	59.19
rs11582157	Uridine to pseudouridine ratio	GCST90200774	1	58712252	G	A	8254	-0.10	0.02	0.00	0.00	19.67
rs2253831	Uridine to pseudouridine ratio	GCST90200774	1	237759753	T	C	8254	-0.08	0.02	0.00	0.00	23.17
rs11158246 5	Uridine to pseudouridine ratio	GCST90200774	3	8478869	A	G	8254	-0.20	0.04	0.00	0.00	21.41
rs1479876	Uridine to pseudouridine ratio	GCST90200774	3	140325167	A	G	8254	0.14	0.03	0.00	0.00	19.81
rs62284497	Uridine to pseudouridine ratio	GCST90200774	3	175601077	G	A	8254	-0.21	0.05	0.00	0.00	19.80
rs7666824	Uridine to pseudouridine ratio	GCST90200774	4	119770233	A	G	8254	0.07	0.02	0.00	0.00	21.45
rs14200169 0	Uridine to pseudouridine ratio	GCST90200774	4	181598375	G	C	8254	-0.27	0.06	0.00	0.00	22.30

rs10941950	Uridine to pseudouridine ratio	GCST90200774	5	18032825	A	G	8254	0.07	0.02	0.00	0.00	20.51
rs181736	Uridine to pseudouridine ratio	GCST90200774	5	59381407	A	G	8254	0.07	0.02	0.00	0.00	20.04
rs36107090	Uridine to pseudouridine ratio	GCST90200774	6	9794192	A	G	8254	-0.40	0.09	0.00	0.00	19.66
rs16876573	Uridine to pseudouridine ratio	GCST90200774	6	15524467	C	T	8254	-0.17	0.04	0.00	0.00	22.53
rs6972437	Uridine to pseudouridine ratio	GCST90200774	7	19802451	G	A	8254	-0.21	0.05	0.00	0.00	21.25
rs7459020	Uridine to pseudouridine ratio	GCST90200774	7	48088999	A	G	8254	-0.10	0.01	0.00	0.01	46.51
rs55905819	Uridine to pseudouridine ratio	GCST90200774	8	65445852	T	C	8254	-0.18	0.04	0.00	0.00	22.25
rs10816697	Uridine to pseudouridine ratio	GCST90200774	9	96886054	T	C	8254	0.07	0.02	0.00	0.00	22.72
rs12354542	Uridine to pseudouridine ratio	GCST90200774	10	109553005	C	T	8254	0.15	0.03	0.00	0.00	20.85
rs34751638	Uridine to pseudouridine ratio	GCST90200774	10	121377097	T	A	8254	0.40	0.09	0.00	0.00	21.13
rs80127713	Uridine to pseudouridine ratio	GCST90200774	11	111356482	T	C	8254	0.30	0.07	0.00	0.00	21.20
rs61933973	Uridine to pseudouridine ratio	GCST90200774	12	124307727	G	T	8254	0.13	0.03	0.00	0.00	21.72
rs77924615	Uridine to pseudouridine ratio	GCST90200774	16	20381010	A	G	8254	0.09	0.02	0.00	0.00	21.13
rs1963553	Uridine to pseudouridine ratio	GCST90200774	16	55097469	G	A	8254	0.12	0.03	0.00	0.00	21.27
rs475225	Uridine to pseudouridine ratio	GCST90200774	17	901308	C	T	8254	0.07	0.02	0.00	0.00	23.03
rs4939830	Uridine to pseudouridine ratio	GCST90200774	18	48936688	G	A	8254	0.11	0.03	0.00	0.00	19.53
rs10454723	Uridine to pseudouridine ratio	GCST90200774	18	74601652	G	C	8254	-0.07	0.02	0.00	0.00	19.77
rs131785	Uridine to pseudouridine ratio	GCST90200774	22	50541642	A	G	8254	-0.11	0.02	0.00	0.01	44.96
rs561931	Serine to pyruvate ratio	GCST90200775	1	119711883	G	A	8235	0.10	0.02	0.00	0.01	42.77
rs780093	Serine to pyruvate ratio	GCST90200775	2	27519736	C	T	8235	0.10	0.02	0.00	0.00	40.38
rs10496073	Serine to pyruvate ratio	GCST90200775	2	57674250	G	A	8235	-0.16	0.03	0.00	0.00	26.09
rs1047891	Serine to pyruvate ratio	GCST90200775	2	210675783	A	C	8235	0.13	0.02	0.00	0.01	57.35
rs7648958	Serine to pyruvate ratio	GCST90200775	3	15579636	A	G	8235	-0.11	0.02	0.00	0.00	23.90
rs2625204	Serine to pyruvate ratio	GCST90200775	5	16854807	G	A	8235	0.08	0.02	0.00	0.00	24.85
rs2448015	Serine to pyruvate ratio	GCST90200775	5	172783728	G	C	8235	0.08	0.02	0.00	0.00	20.41
rs12653600	Serine to pyruvate ratio	GCST90200775	5	174309497	T	C	8235	0.24	0.05	0.00	0.00	19.95
rs13855648	Serine to pyruvate ratio	GCST90200775	7	15999777	T	C	8235	0.22	0.05	0.00	0.00	22.01
3 rs6973917	Serine to pyruvate ratio	GCST90200775	7	56022948	A	T	8235	0.10	0.02	0.00	0.00	29.42

rs4401953	Serine to pyruvate ratio	GCST90200775	9	85449112	T	G	8235	0.10	0.02	0.00	0.00	19.58
rs10751896	Serine to pyruvate ratio	GCST90200775	10	2890042	C	T	8235	0.07	0.02	0.00	0.00	21.13
rs7944987	Serine to pyruvate ratio	GCST90200775	11	107971833	C	G	8235	0.09	0.02	0.00	0.00	19.53
rs61900154	Serine to pyruvate ratio	GCST90200775	11	118942465	C	A	8235	-0.23	0.05	0.00	0.00	20.94
rs4905781	Serine to pyruvate ratio	GCST90200775	14	42513498	G	A	8235	0.07	0.02	0.00	0.00	21.20
rs74970748	Serine to pyruvate ratio	GCST90200775	19	55239008	C	G	8235	-0.13	0.03	0.00	0.00	22.04
rs73303836	Serine to pyruvate ratio	GCST90200775	20	45444291	G	A	8235	0.24	0.05	0.00	0.00	27.80
rs117327473	Serine to pyruvate ratio	GCST90200775	20	56554909	G	T	8235	0.31	0.07	0.00	0.00	19.60
rs117775515	Serine to pyruvate ratio	GCST90200775	20	60000113	T	A	8235	-0.20	0.05	0.00	0.00	19.86
rs72678562	Glutamate to glutamine	GCST90200776	1	67409520	T	C	8228	0.07	0.02	0.00	0.00	21.07
rs72702247	Glutamate to glutamine	GCST90200776	1	155023444	A	G	8228	-0.41	0.09	0.00	0.00	22.34
rs59243420	Glutamate to glutamine	GCST90200776	2	135826968	T	A	8228	-0.11	0.02	0.00	0.00	29.81
rs113522843	Glutamate to glutamine	GCST90200776	2	215555683	A	G	8228	-0.32	0.07	0.00	0.00	20.66
rs58430470	Glutamate to glutamine	GCST90200776	4	7231645	G	A	8228	-0.28	0.06	0.00	0.00	20.87
rs12501448	Glutamate to glutamine	GCST90200776	4	40670288	A	G	8228	-0.07	0.01	0.00	0.00	21.65
rs17088117	Glutamate to glutamine	GCST90200776	4	67204477	A	C	8228	0.11	0.02	0.00	0.00	20.57
rs143711147	Glutamate to glutamine	GCST90200776	4	167009760	T	C	8228	-0.29	0.07	0.00	0.00	19.57
rs62354638	Glutamate to glutamine	GCST90200776	5	36638487	A	G	8228	-0.27	0.04	0.00	0.00	41.12
rs112008204	Glutamate to glutamine	GCST90200776	7	26503744	T	C	8228	0.28	0.06	0.00	0.00	20.51
rs146783553	Glutamate to glutamine	GCST90200776	7	37945646	A	G	8228	-0.42	0.09	0.00	0.00	23.24
rs6962329	Glutamate to glutamine	GCST90200776	7	53944175	G	A	8228	0.11	0.02	0.00	0.00	23.15
rs6991671	Glutamate to glutamine	GCST90200776	8	15295417	A	G	8228	-0.11	0.02	0.00	0.00	22.33
rs7298123	Glutamate to glutamine	GCST90200776	12	56466289	T	C	8228	-0.08	0.02	0.00	0.00	21.51
rs118058334	Glutamate to glutamine	GCST90200776	13	50382197	C	T	8228	0.31	0.06	0.00	0.00	23.48
rs57007125	Glutamate to glutamine	GCST90200776	13	86355421	T	A	8228	-0.10	0.02	0.00	0.00	19.64
rs7989328	Glutamate to glutamine	GCST90200776	13	113076404	G	A	8228	-0.07	0.02	0.00	0.00	21.71
rs7149583	Glutamate to glutamine	GCST90200776	14	70512526	A	G	8228	0.18	0.04	0.00	0.00	19.76
rs6498990	Glutamate to glutamine	GCST90200776	16	52641140	G	A	8228	-0.10	0.02	0.00	0.00	26.85
rs72547465	Glutamate to glutamine	GCST90200776	16	82099337	C	G	8228	0.22	0.05	0.00	0.00	23.67
rs2660831	Glutamate to glutamine	GCST90200776	17	17456732	C	T	8228	-0.12	0.02	0.00	0.00	25.23
rs73395402	Glutamate to glutamine	GCST90200776	18	10694553	C	G	8228	-0.11	0.02	0.00	0.00	24.71
rs113577224	Glutamate to glutamine	GCST90200776	18	68903847	G	A	8228	-0.16	0.03	0.00	0.00	21.32
rs62129186	Glutamate to glutamine	GCST90200776	19	49807518	T	C	8228	-0.09	0.02	0.00	0.00	21.73
rs78350689	Glutamate to glutamine	GCST90200776	20	18599724	C	T	8228	0.13	0.03	0.00	0.00	20.25
rs2273570	Uridine to cytidine ratio	GCST90200777	1	33870384	A	T	7705	0.08	0.02	0.00	0.00	20.45
rs112300176	Uridine to cytidine ratio	GCST90200777	1	119549665	A	G	7705	0.15	0.03	0.00	0.00	23.07
rs143052856	Uridine to cytidine ratio	GCST90200777	2	172125632	C	G	7705	-0.17	0.04	0.00	0.00	20.05

rs7633179	Uridine to cytidine ratio	GCST90200777	3	56898680	A	G	7705	0.08	0.02	0.00	0.00	19.90
rs14964396 4	Uridine to cytidine ratio	GCST90200777	6	1997334	C	A	7705	-0.17	0.03	0.00	0.00	23.49
rs11720968 2	Uridine to cytidine ratio	GCST90200777	7	11506094	C	T	7705	0.30	0.07	0.00	0.00	19.56
rs76527197	Uridine to cytidine ratio	GCST90200777	7	15251298	A	G	7705	-0.24	0.05	0.00	0.00	19.85
rs12254596	Uridine to cytidine ratio	GCST90200777	10	13002844	G	C	7705	0.08	0.02	0.00	0.00	21.80
rs61858153	Uridine to cytidine ratio	GCST90200777	10	50651124	A	G	7705	-0.10	0.02	0.00	0.00	22.72
rs14346035 4	Uridine to cytidine ratio	GCST90200777	11	17735241	G	A	7705	-0.15	0.03	0.00	0.00	19.65
rs14187442 5	Uridine to cytidine ratio	GCST90200777	11	86946807	G	A	7705	-0.40	0.09	0.00	0.00	20.79
rs4762377	Uridine to cytidine ratio	GCST90200777	12	97291924	G	A	7705	-0.10	0.02	0.00	0.00	22.46
rs9514411	Uridine to cytidine ratio	GCST90200777	13	105718022	T	C	7705	0.08	0.02	0.00	0.00	19.53
rs14898618 0	Uridine to cytidine ratio	GCST90200777	14	33425999	T	C	7705	-0.34	0.08	0.00	0.00	20.33
rs11795802 3	Uridine to cytidine ratio	GCST90200777	15	84895338	C	T	7705	0.36	0.07	0.00	0.00	24.33
rs72754971	Uridine to cytidine ratio	GCST90200777	15	84955881	C	T	7705	0.22	0.03	0.00	0.01	41.69
rs12913954	Uridine to cytidine ratio	GCST90200777	15	95335001	C	T	7705	-0.32	0.07	0.00	0.00	20.31
rs72796085	Uridine to cytidine ratio	GCST90200777	16	78386564	G	A	7705	-0.13	0.03	0.00	0.00	19.99
rs11209462 8	Uridine to cytidine ratio	GCST90200777	17	33569638	T	C	7705	0.29	0.06	0.00	0.00	19.81
rs76133596	Uridine to cytidine ratio	GCST90200777	18	7431993	T	A	7705	0.22	0.05	0.00	0.00	20.01
rs14081039 7	Uridine to cytidine ratio	GCST90200777	19	15593310	T	C	7705	-0.36	0.08	0.00	0.00	20.67
rs131794	Uridine to cytidine ratio	GCST90200777	22	50533323	C	A	7705	-0.09	0.02	0.00	0.00	21.96
rs1061642	Pyruvate to 3- methyl-2- oxobutyrate ratio	GCST90200778	1	12208573	A	C	8193	-0.40	0.09	0.00	0.00	19.80
rs11431064 4	Pyruvate to 3- methyl-2- oxobutyrate ratio	GCST90200778	1	12693663	G	C	8193	-0.15	0.03	0.00	0.00	21.74
rs4915408	Pyruvate to 3- methyl-2- oxobutyrate ratio	GCST90200778	1	200140061	C	T	8193	-0.42	0.09	0.00	0.00	19.97
rs15070396 4	Pyruvate to 3- methyl-2- oxobutyrate ratio	GCST90200778	2	136381933	T	C	8193	0.37	0.08	0.00	0.00	21.09
rs10198350	Pyruvate to 3- methyl-2- oxobutyrate ratio	GCST90200778	2	236244682	C	T	8193	0.10	0.02	0.00	0.00	19.56
rs9849460	Pyruvate to 3- methyl-2- oxobutyrate ratio	GCST90200778	3	15754986	T	C	8193	0.12	0.03	0.00	0.00	20.30
rs17825469	Pyruvate to 3- methyl-2- oxobutyrate ratio	GCST90200778	3	56454395	G	A	8193	-0.16	0.03	0.00	0.00	20.23
rs1440581	Pyruvate to 3- methyl-2- oxobutyrate ratio	GCST90200778	4	88305270	C	T	8193	-0.12	0.02	0.00	0.01	57.01
rs10067427	Pyruvate to 3- methyl-2- oxobutyrate ratio	GCST90200778	5	100006343	G	A	8193	-0.07	0.02	0.00	0.00	19.72

rs77458849	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	5	119485400	C	G	8193	-0.27	0.06	0.00	0.00	21.42
rs73536066	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	6	93454689	G	A	8193	-0.22	0.04	0.00	0.00	23.09
rs7830298	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	8	72119030	A	T	8193	0.07	0.02	0.00	0.00	20.84
rs2054417	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	8	101945376	A	T	8193	0.36	0.08	0.00	0.00	21.09
rs74732372	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	9	4414634	T	G	8193	-0.24	0.05	0.00	0.00	19.86
rs36075189	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	10	132430144	C	T	8193	-0.07	0.02	0.00	0.00	19.82
rs2532541	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	12	4023752	T	C	8193	-0.08	0.02	0.00	0.00	20.41
rs56197285	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	12	80307603	C	T	8193	0.25	0.06	0.00	0.00	20.35
rs7302578	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	12	131831385	C	T	8193	0.10	0.02	0.00	0.00	21.10
rs73154060	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	13	26945507	G	A	8193	0.30	0.07	0.00	0.00	21.64
rs79924271	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	13	36572218	C	T	8193	-0.26	0.06	0.00	0.00	19.97
rs9937841	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	16	1270592	A	G	8193	-0.07	0.02	0.00	0.00	20.81
rs600158	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	17	38916929	A	G	8193	0.08	0.02	0.00	0.00	20.67
rs7286771	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	22	17353570	T	C	8193	0.08	0.02	0.00	0.00	20.73
rs77919927	Pyruvate to 3-methyl-2-oxobutyrate ratio	GCST90200778	22	28138017	T	G	8193	-0.18	0.04	0.00	0.00	22.13
rs1198437	Pyruvate to N-acetylneuramate ratio	GCST90200779	1	23420931	C	G	8194	-0.10	0.02	0.00	0.00	19.92
rs76419145	Pyruvate to N-acetylneuramate ratio	GCST90200779	1	118150393	G	T	8194	-0.09	0.02	0.00	0.00	21.91
rs16859675	Pyruvate to N-acetylneuramate ratio	GCST90200779	1	182803162	C	T	8194	0.18	0.04	0.00	0.00	19.67
rs58423714	Pyruvate to N-acetylneuramate ratio	GCST90200779	1	183135750	C	A	8194	-0.49	0.06	0.00	0.01	58.28

rs77112071	Pyruvate to N-acetylneuramate ratio	GCST90200779	2	53499119	A	G	8194	-0.14	0.03	0.00	0.00	21.45
rs62238493	Pyruvate to N-acetylneuramate ratio	GCST90200779	3	18241082	A	G	8194	0.08	0.02	0.00	0.00	23.80
rs144067701	Pyruvate to N-acetylneuramate ratio	GCST90200779	3	36509326	T	C	8194	-0.12	0.02	0.00	0.00	26.19
rs116036880	Pyruvate to N-acetylneuramate ratio	GCST90200779	3	62196524	T	C	8194	0.22	0.04	0.00	0.00	23.36
rs148203870	Pyruvate to N-acetylneuramate ratio	GCST90200779	3	107291635	G	A	8194	-0.26	0.06	0.00	0.00	20.55
rs7690780	Pyruvate to N-acetylneuramate ratio	GCST90200779	4	140974243	T	G	8194	0.09	0.02	0.00	0.00	22.09
rs9343778	Pyruvate to N-acetylneuramate ratio	GCST90200779	6	63179465	G	A	8194	-0.07	0.02	0.00	0.00	22.24
rs76555593	Pyruvate to N-acetylneuramate ratio	GCST90200779	6	130722956	G	T	8194	-0.16	0.04	0.00	0.00	19.76
rs58429991	Pyruvate to N-acetylneuramate ratio	GCST90200779	7	9094521	T	C	8194	-0.09	0.02	0.00	0.00	19.53
rs6601719	Pyruvate to N-acetylneuramate ratio	GCST90200779	8	8643195	T	A	8194	0.08	0.02	0.00	0.00	19.75
rs77627840	Pyruvate to N-acetylneuramate ratio	GCST90200779	9	80761452	T	G	8194	0.19	0.04	0.00	0.00	21.43
rs7909171	Pyruvate to N-acetylneuramate ratio	GCST90200779	10	3076679	A	G	8194	-0.07	0.01	0.00	0.00	22.79
rs61883433	Pyruvate to N-acetylneuramate ratio	GCST90200779	10	98667466	T	A	8194	0.27	0.05	0.00	0.00	25.36
rs11606460	Pyruvate to N-acetylneuramate ratio	GCST90200779	11	65007428	A	C	8194	-0.13	0.03	0.00	0.00	21.53
rs76892507	Pyruvate to N-acetylneuramate ratio	GCST90200779	11	90427444	G	C	8194	0.15	0.03	0.00	0.00	19.66
rs10891879	Pyruvate to N-acetylneuramate ratio	GCST90200779	11	98491335	T	C	8194	0.07	0.02	0.00	0.00	22.16
rs7963105	Pyruvate to N-acetylneuramate ratio	GCST90200779	12	5033699	C	G	8194	0.07	0.02	0.00	0.00	22.43
rs117373058	Pyruvate to N-acetylneuramate ratio	GCST90200779	12	27124252	T	C	8194	-0.17	0.04	0.00	0.00	20.53
rs73220422	Pyruvate to N-acetylneuramate ratio	GCST90200779	12	116737803	T	C	8194	-0.20	0.04	0.00	0.00	22.12
rs9323181	Pyruvate to N-acetylneuramate ratio	GCST90200779	14	50051938	A	G	8194	-0.08	0.02	0.00	0.00	24.31
rs16950529	Pyruvate to N-acetylneuramate ratio	GCST90200779	16	51919431	C	A	8194	0.15	0.03	0.00	0.00	19.55
rs12451437	Pyruvate to N-acetylneuramate ratio	GCST90200779	17	5779891	G	C	8194	0.07	0.02	0.00	0.00	19.59
rs11867639	Pyruvate to N-acetylneuramate ratio	GCST90200779	17	7199755	A	G	8194	0.08	0.02	0.00	0.00	28.93
rs140430711	Pyruvate to N-acetylneuramate ratio	GCST90200779	18	21356114	T	C	8194	0.21	0.05	0.00	0.00	19.55

rs6098661	Pyruvate to N-acetylneuraminate ratio	GCST90200779	20	55566099	A	G	8194	0.19	0.04	0.00	0.00	19.86
rs113657584	Pyruvate to N-acetylneuraminate ratio	GCST90200779	21	24349067	T	A	8194	0.29	0.06	0.00	0.00	21.33
rs10925153	Alanine to pyruvate ratio	GCST90200780	1	236511530	G	C	8250	-0.08	0.02	0.00	0.00	22.01
rs75406281	Alanine to pyruvate ratio	GCST90200780	2	188929378	C	A	8250	-0.16	0.03	0.00	0.00	20.34
rs200824911	Alanine to pyruvate ratio	GCST90200780	2	196266186	C	A	8250	0.40	0.09	0.00	0.00	20.76
rs185423687	Alanine to pyruvate ratio	GCST90200780	3	5219513	T	C	8250	0.36	0.08	0.00	0.00	20.22
rs148175636	Alanine to pyruvate ratio	GCST90200780	3	6101861	C	T	8250	-0.20	0.04	0.00	0.00	24.89
rs73120178	Alanine to pyruvate ratio	GCST90200780	3	78088221	C	T	8250	-0.18	0.04	0.00	0.00	22.06
rs11735283	Alanine to pyruvate ratio	GCST90200780	4	48030694	C	T	8250	-0.10	0.02	0.00	0.00	23.16
rs4074380	Alanine to pyruvate ratio	GCST90200780	4	71358036	T	C	8250	-0.09	0.02	0.00	0.00	22.21
rs142849401	Alanine to pyruvate ratio	GCST90200780	4	138685339	T	A	8250	0.25	0.06	0.00	0.00	21.19
rs6819977	Alanine to pyruvate ratio	GCST90200780	4	184216443	A	C	8250	0.07	0.02	0.00	0.00	20.58
rs76476213	Alanine to pyruvate ratio	GCST90200780	6	18739240	C	A	8250	-0.14	0.03	0.00	0.00	21.62
rs12211448	Alanine to pyruvate ratio	GCST90200780	6	44260014	A	C	8250	-0.10	0.02	0.00	0.00	21.08
rs75168788	Alanine to pyruvate ratio	GCST90200780	6	84370605	A	G	8250	0.20	0.04	0.00	0.00	20.45
rs4897440	Alanine to pyruvate ratio	GCST90200780	6	130582459	A	T	8250	0.09	0.02	0.00	0.00	26.35
rs6461648	Alanine to pyruvate ratio	GCST90200780	7	22499921	G	A	8250	-0.10	0.02	0.00	0.00	20.66
rs183232705	Alanine to pyruvate ratio	GCST90200780	8	24159480	C	T	8250	-0.42	0.09	0.00	0.00	20.64
rs147992177	Alanine to pyruvate ratio	GCST90200780	15	66299517	A	G	8250	0.19	0.04	0.00	0.00	25.77
rs79888339	Alanine to pyruvate ratio	GCST90200780	17	35349522	T	C	8250	0.30	0.07	0.00	0.00	21.05
rs9304744	Alanine to pyruvate ratio	GCST90200780	19	53278637	G	C	8250	-0.09	0.02	0.00	0.00	20.80
rs34316626	Alanine to pyruvate ratio	GCST90200780	20	48741947	C	T	8250	-0.09	0.02	0.00	0.00	22.54
rs2142077	Alanine to pyruvate ratio	GCST90200780	21	40444268	A	G	8250	0.08	0.02	0.00	0.00	21.93
rs149053187	Glucose to maltose ratio	GCST90200781	1	56014796	C	T	6308	-0.46	0.10	0.00	0.00	20.45
rs6689719	Glucose to maltose ratio	GCST90200781	1	91569746	A	G	6308	0.10	0.02	0.00	0.00	20.98
rs2151081	Glucose to maltose ratio	GCST90200781	1	103846959	T	A	6308	0.11	0.02	0.00	0.00	22.03
rs77306348	Glucose to maltose ratio	GCST90200781	1	108628598	G	T	6308	-0.16	0.04	0.00	0.00	19.84
rs141911901	Glucose to maltose ratio	GCST90200781	1	179315719	G	A	6308	0.33	0.07	0.00	0.00	20.24
rs369062645	Glucose to maltose ratio	GCST90200781	2	124358256	A	C	6308	0.16	0.04	0.00	0.00	20.18
rs67736553	Glucose to maltose ratio	GCST90200781	2	216008629	G	A	6308	0.10	0.02	0.00	0.00	25.14
rs6888110	Glucose to maltose ratio	GCST90200781	5	28889877	G	A	6308	0.13	0.03	0.00	0.00	20.82
rs10463851	Glucose to maltose ratio	GCST90200781	5	129141065	A	T	6308	0.09	0.02	0.00	0.00	22.42
rs255733	Glucose to maltose ratio	GCST90200781	5	169499348	T	G	6308	0.09	0.02	0.00	0.00	22.90
rs9460799	Glucose to maltose ratio	GCST90200781	6	22907309	T	C	6308	0.08	0.02	0.00	0.00	22.11
rs557935143	Glucose to maltose ratio	GCST90200781	7	17177308	G	T	6308	-1.68	0.37	0.00	0.00	20.74
rs61909630	Glucose to maltose ratio	GCST90200781	11	87494305	A	G	6308	0.22	0.04	0.00	0.00	23.30

rs2511502	Glucose to maltose ratio	GCST90200781	11	131257690	T	A	6308	0.09	0.02	0.00	0.00	19.96
rs2232553	Glucose to maltose ratio	GCST90200781	12	52649134	T	G	6308	0.19	0.04	0.00	0.00	20.63
rs76930718	Glucose to maltose ratio	GCST90200781	12	69856457	A	T	6308	-0.14	0.03	0.00	0.00	25.23
rs3816263	Glucose to maltose ratio	GCST90200781	17	8080839	C	A	6308	-0.12	0.03	0.00	0.00	21.79
rs4465878	Glucose to maltose ratio	GCST90200781	22	44404759	C	G	6308	0.13	0.03	0.00	0.00	22.83
rs61775409	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	1	2102670	G	A	8194	0.27	0.06	0.00	0.00	20.28
rs12741581	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	1	155321640	T	C	8194	-0.16	0.03	0.00	0.00	22.37
rs6664307	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	1	227730861	T	C	8194	0.08	0.02	0.00	0.00	21.19
rs780094	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	2	27518370	C	T	8194	0.15	0.02	0.00	0.01	87.86
rs11891647	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	2	65004395	G	A	8194	0.11	0.02	0.00	0.00	23.01
rs9856558	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	3	172404731	A	G	8194	-0.08	0.02	0.00	0.00	27.62
rs17339233	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	4	94673853	A	C	8194	-0.22	0.05	0.00	0.00	19.61
rs7675380	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	4	126201639	G	C	8194	0.07	0.02	0.00	0.00	21.80
rs11517088 4	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	4	184540796	T	C	8194	0.29	0.06	0.00	0.00	21.21
rs12655079	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	5	39652566	T	C	8194	-0.07	0.02	0.00	0.00	20.01
rs13915135 3	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	5	148076935	T	A	8194	-0.41	0.09	0.00	0.00	22.75
rs78642184	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	6	128946164	G	A	8194	0.47	0.11	0.00	0.00	19.68
rs644667	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	7	54675306	T	A	8194	0.07	0.02	0.00	0.00	21.51
rs10756606	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	9	14733811	T	C	8194	-0.08	0.02	0.00	0.00	20.10
rs4755985	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	11	45431781	A	G	8194	0.08	0.02	0.00	0.00	20.62
rs4759017	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	12	56297816	C	T	8194	0.07	0.02	0.00	0.00	20.50

rs76974957	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	15	47620661	G	C	8194	0.30	0.07	0.00	0.00	19.79
rs117868581	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	15	79192145	T	C	8194	-0.24	0.05	0.00	0.00	19.71
rs117123329	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	16	6835055	A	G	8194	0.22	0.05	0.00	0.00	20.40
rs3859253	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	17	13423149	G	A	8194	0.09	0.02	0.00	0.00	20.03
rs9951523	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	18	52340854	C	T	8194	-0.29	0.06	0.00	0.00	20.28
rs114820188	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	19	2105856	A	G	8194	0.31	0.07	0.00	0.00	20.49
rs80303896	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	19	35782308	C	A	8194	-0.19	0.04	0.00	0.00	29.72
rs5770371	Mannose to trans-4- hydroxyprolin e ratio	GCST90200782	22	49392079	C	T	8194	0.11	0.02	0.00	0.00	20.88
rs2235193	Mannose to S- methylcysteine ratio	GCST90200783	1	171139697	T	C	8182	-0.20	0.02	0.00	0.02	126.77
rs1260326	Mannose to S- methylcysteine ratio	GCST90200783	2	27508073	C	T	8182	0.13	0.02	0.00	0.01	71.07
rs4541286	Mannose to S- methylcysteine ratio	GCST90200783	2	48770397	G	C	8182	-0.08	0.02	0.00	0.00	20.80
rs72936092	Mannose to S- methylcysteine ratio	GCST90200783	2	158240549	A	G	8182	0.31	0.07	0.00	0.00	22.30
rs17581898	Mannose to S- methylcysteine ratio	GCST90200783	4	148381715	C	A	8182	-0.21	0.05	0.00	0.00	19.84
rs62360564	Mannose to S- methylcysteine ratio	GCST90200783	5	31970057	T	C	8182	0.07	0.02	0.00	0.00	20.88
rs112672923	Mannose to S- methylcysteine ratio	GCST90200783	5	104698288	T	C	8182	0.18	0.04	0.00	0.00	20.67
rs12666022	Mannose to S- methylcysteine ratio	GCST90200783	7	33140270	C	T	8182	-0.07	0.02	0.00	0.00	22.40
rs141723304	Mannose to S- methylcysteine ratio	GCST90200783	7	158280928	C	G	8182	-0.40	0.09	0.00	0.00	19.69
rs144745420	Mannose to S- methylcysteine ratio	GCST90200783	8	94442444	G	A	8182	-0.24	0.05	0.00	0.00	20.09
rs1220068	Mannose to S- methylcysteine ratio	GCST90200783	9	25818141	G	A	8182	0.07	0.02	0.00	0.00	20.00
rs117800588	Mannose to S- methylcysteine ratio	GCST90200783	10	86914873	G	A	8182	0.13	0.03	0.00	0.00	20.83
rs73192032	Mannose to S- methylcysteine ratio	GCST90200783	12	103775098	A	G	8182	-0.15	0.03	0.00	0.00	22.39
rs4759613	Mannose to S- methylcysteine ratio	GCST90200783	12	130130812	C	G	8182	-0.07	0.02	0.00	0.00	20.35

rs75382819	Mannose to S-methylcysteine ratio	GCST90200783	13	94410421	T	C	8182	-0.15	0.04	0.00	0.00	19.52
rs147419967	Mannose to S-methylcysteine ratio	GCST90200783	14	96130680	A	G	8182	0.31	0.07	0.00	0.00	19.63
rs145860160	Mannose to S-methylcysteine ratio	GCST90200783	17	64274667	A	G	8182	0.33	0.07	0.00	0.00	23.66
rs4806802	Mannose to S-methylcysteine ratio	GCST90200783	19	54661952	A	G	8182	0.11	0.02	0.00	0.00	21.06
rs138604479	Mannose to S-methylcysteine ratio	GCST90200783	20	36405350	G	T	8182	0.38	0.07	0.00	0.00	26.65
rs12086726	Glutamate to cysteine ratio	GCST90200784	1	67357375	G	C	8199	0.09	0.02	0.00	0.00	22.93
rs71646762	Glutamate to cysteine ratio	GCST90200784	1	226020527	A	G	8199	0.18	0.04	0.00	0.00	20.35
rs60253740	Glutamate to cysteine ratio	GCST90200784	2	135814282	T	G	8199	-0.11	0.02	0.00	0.00	30.16
rs72980402	Glutamate to cysteine ratio	GCST90200784	2	233484097	A	G	8199	0.11	0.02	0.00	0.00	20.57
rs76757888	Glutamate to cysteine ratio	GCST90200784	3	124239337	A	G	8199	-0.16	0.04	0.00	0.00	19.77
rs62291091	Glutamate to cysteine ratio	GCST90200784	4	3779023	G	T	8199	-0.20	0.04	0.00	0.00	20.83
rs7686257	Glutamate to cysteine ratio	GCST90200784	4	40677709	C	G	8199	-0.07	0.02	0.00	0.00	20.91
rs62354638	Glutamate to cysteine ratio	GCST90200784	5	36638487	A	G	8199	-0.25	0.04	0.00	0.00	34.68
rs10042254	Glutamate to cysteine ratio	GCST90200784	5	150981549	G	T	8199	-0.10	0.02	0.00	0.00	20.23
rs75311326	Glutamate to cysteine ratio	GCST90200784	6	106365481	T	G	8199	0.10	0.02	0.00	0.00	21.40
rs9492323	Glutamate to cysteine ratio	GCST90200784	6	129432307	G	A	8199	0.12	0.03	0.00	0.00	20.06
rs141338828	Glutamate to cysteine ratio	GCST90200784	6	163858895	C	T	8199	0.34	0.08	0.00	0.00	20.10
rs112520895	Glutamate to cysteine ratio	GCST90200784	7	21367197	A	G	8199	0.31	0.06	0.00	0.00	23.21
rs117055581	Glutamate to cysteine ratio	GCST90200784	8	15358363	C	A	8199	-0.19	0.04	0.00	0.00	19.63
rs146876663	Glutamate to cysteine ratio	GCST90200784	8	29833626	G	C	8199	-0.37	0.08	0.00	0.00	22.84
rs7098452	Glutamate to cysteine ratio	GCST90200784	10	112905669	G	C	8199	0.11	0.02	0.00	0.00	22.53
rs7350419	Glutamate to cysteine ratio	GCST90200784	10	114005637	A	G	8199	-0.07	0.02	0.00	0.00	19.73
rs61883501	Glutamate to cysteine ratio	GCST90200784	11	13861207	C	A	8199	-0.21	0.04	0.00	0.00	21.26
rs12099786	Glutamate to cysteine ratio	GCST90200784	12	66944523	A	G	8199	-0.14	0.03	0.00	0.00	22.74
rs7324476	Glutamate to cysteine ratio	GCST90200784	13	22600091	C	T	8199	-0.09	0.02	0.00	0.00	21.35
rs67165923	Glutamate to cysteine ratio	GCST90200784	13	86354404	A	C	8199	-0.14	0.03	0.00	0.00	22.56
rs732912	Glutamate to cysteine ratio	GCST90200784	14	89682705	A	G	8199	0.09	0.02	0.00	0.00	22.97
rs11640635	Glutamate to cysteine ratio	GCST90200784	16	60429157	G	A	8199	0.17	0.03	0.00	0.00	23.00
rs2660831	Glutamate to cysteine ratio	GCST90200784	17	17456732	C	T	8199	-0.13	0.02	0.00	0.00	28.58
rs183453	Glutamate to cysteine ratio	GCST90200784	17	66562595	T	G	8199	0.14	0.03	0.00	0.00	21.33
rs35552971	Glutamate to cysteine ratio	GCST90200784	18	48778779	A	G	8199	0.18	0.04	0.00	0.00	20.71
rs72944282	Glutamate to cysteine ratio	GCST90200784	18	66231250	T	C	8199	0.15	0.03	0.00	0.00	20.19
rs1205317	Glutamate to cysteine ratio	GCST90200784	19	54328330	C	T	8199	0.07	0.02	0.00	0.00	21.21
rs3903707	Glutamate to cysteine ratio	GCST90200784	20	12932308	A	G	8199	0.14	0.03	0.00	0.00	19.78

rs135586	Glutamate to cysteine ratio	GCST90200784	22	47602335	G	T	8199	-0.07	0.01	0.00	0.00	20.25
rs74087614	Cysteine to 5- oxoproline ratio	GCST90200785	1	66796547	C	T	8203	0.57	0.12	0.00	0.00	21.80
rs77074496	Cysteine to 5- oxoproline ratio	GCST90200785	2	160270516	T	A	8203	0.56	0.12	0.00	0.00	21.69
rs1620440	Cysteine to 5- oxoproline ratio	GCST90200785	3	128393464	C	T	8203	-0.12	0.02	0.00	0.00	24.08
rs18617201 3	Cysteine to 5- oxoproline ratio	GCST90200785	4	38737636	T	C	8203	-0.24	0.05	0.00	0.00	22.91
rs14214548 1	Cysteine to 5- oxoproline ratio	GCST90200785	4	80719544	A	T	8203	-0.27	0.06	0.00	0.00	20.14
rs12108683	Cysteine to 5- oxoproline ratio	GCST90200785	5	10909962	A	T	8203	0.08	0.02	0.00	0.00	26.41
rs14243174 3	Cysteine to 5- oxoproline ratio	GCST90200785	5	153629739	A	T	8203	0.31	0.07	0.00	0.00	21.67
rs9294513	Cysteine to 5- oxoproline ratio	GCST90200785	6	91867233	T	A	8203	-0.08	0.02	0.00	0.00	23.73
rs10266818	Cysteine to 5- oxoproline ratio	GCST90200785	7	41024225	G	A	8203	0.16	0.03	0.00	0.00	27.80
rs19090302 5	Cysteine to 5- oxoproline ratio	GCST90200785	8	131528656	T	C	8203	0.35	0.08	0.00	0.00	20.77
rs3935209	Cysteine to 5- oxoproline ratio	GCST90200785	8	144058338	G	T	8203	0.60	0.03	0.00	0.06	492.63
rs55756748	Cysteine to 5- oxoproline ratio	GCST90200785	9	12817550	C	T	8203	0.11	0.02	0.00	0.00	23.24
rs4743315	Cysteine to 5- oxoproline ratio	GCST90200785	9	95775759	T	C	8203	0.10	0.02	0.00	0.00	20.16
rs2418050	Cysteine to 5- oxoproline ratio	GCST90200785	9	109827174	A	G	8203	-0.08	0.02	0.00	0.00	22.39
rs4603201	Cysteine to 5- oxoproline ratio	GCST90200785	10	13790095	G	A	8203	-0.08	0.02	0.00	0.00	19.94
rs10831671	Cysteine to 5- oxoproline ratio	GCST90200785	11	11783840	C	T	8203	0.08	0.02	0.00	0.00	19.86
rs2657910	Cysteine to 5- oxoproline ratio	GCST90200785	12	56497865	A	G	8203	0.13	0.02	0.00	0.00	32.27
rs11803459 9	Cysteine to 5- oxoproline ratio	GCST90200785	13	65944822	C	T	8203	0.18	0.04	0.00	0.00	21.30
rs3007241	Cysteine to 5- oxoproline ratio	GCST90200785	13	105151205	A	T	8203	0.08	0.02	0.00	0.00	19.54
rs18822799 4	Cysteine to 5- oxoproline ratio	GCST90200785	14	98485768	A	G	8203	-0.28	0.06	0.00	0.00	19.97
rs7211687	Cysteine to 5- oxoproline ratio	GCST90200785	17	7172013	T	A	8203	-0.31	0.07	0.00	0.00	19.67
rs8106222	Cysteine to 5- oxoproline ratio	GCST90200785	19	14655332	G	C	8203	-0.07	0.02	0.00	0.00	19.57
rs77927505	Cysteine to 5- oxoproline ratio	GCST90200785	19	19236558	A	G	8203	-0.14	0.03	0.00	0.00	20.84
rs7523049	Cysteine to alanine ratio	GCST90200786	1	36619029	G	A	8220	0.07	0.02	0.00	0.00	20.19

rs61352371	Cysteine to alanine ratio	GCST90200786	1	73183269	C	A	8220	-0.20	0.04	0.00	0.00	21.22
rs2815415	Cysteine to alanine ratio	GCST90200786	1	93214283	A	G	8220	0.10	0.02	0.00	0.00	22.55
rs17691714	Cysteine to alanine ratio	GCST90200786	2	64426037	C	T	8220	0.09	0.02	0.00	0.00	22.47
rs147365877	Cysteine to alanine ratio	GCST90200786	2	197448395	A	G	8220	0.21	0.05	0.00	0.00	20.54
rs79529411	Cysteine to alanine ratio	GCST90200786	2	228782362	A	G	8220	-0.32	0.07	0.00	0.00	22.43
rs267135	Cysteine to alanine ratio	GCST90200786	3	76785278	G	A	8220	0.12	0.02	0.00	0.00	24.35
rs62270927	Cysteine to alanine ratio	GCST90200786	3	103295637	G	A	8220	-0.35	0.08	0.00	0.00	19.91
rs73234134	Cysteine to alanine ratio	GCST90200786	4	18813816	C	A	8220	-0.13	0.03	0.00	0.00	21.77
rs75723140	Cysteine to alanine ratio	GCST90200786	4	29053208	A	G	8220	-0.21	0.05	0.00	0.00	20.75
rs116720817	Cysteine to alanine ratio	GCST90200786	4	43298643	T	C	8220	-0.19	0.04	0.00	0.00	20.42
rs114297755	Cysteine to alanine ratio	GCST90200786	4	94498114	T	C	8220	-0.21	0.05	0.00	0.00	19.61
rs12652257	Cysteine to alanine ratio	GCST90200786	5	113166104	C	T	8220	-0.09	0.02	0.00	0.00	25.98
rs62418960	Cysteine to alanine ratio	GCST90200786	6	123333988	A	G	8220	-0.28	0.06	0.00	0.00	23.13
rs75134544	Cysteine to alanine ratio	GCST90200786	6	151684094	C	A	8220	-0.24	0.05	0.00	0.00	22.25
rs78787297	Cysteine to alanine ratio	GCST90200786	7	29406557	G	C	8220	0.48	0.09	0.00	0.00	26.99
rs74680792	Cysteine to alanine ratio	GCST90200786	7	46004934	T	C	8220	0.16	0.04	0.00	0.00	19.82
rs4236905	Cysteine to alanine ratio	GCST90200786	8	130549141	T	G	8220	0.08	0.02	0.00	0.00	19.69
rs4008246	Cysteine to alanine ratio	GCST90200786	9	8225337	C	T	8220	0.07	0.02	0.00	0.00	20.35
rs186482032	Cysteine to alanine ratio	GCST90200786	10	33491082	A	G	8220	0.26	0.06	0.00	0.00	19.60
rs10891280	Cysteine to alanine ratio	GCST90200786	11	111562884	T	A	8220	0.08	0.02	0.00	0.00	20.57
rs142216926	Cysteine to alanine ratio	GCST90200786	12	128897567	C	T	8220	0.31	0.07	0.00	0.00	19.97
rs117358312	Cysteine to alanine ratio	GCST90200786	14	25661474	G	A	8220	0.25	0.06	0.00	0.00	19.96
rs79361541	Cysteine to alanine ratio	GCST90200786	18	2673560	C	T	8220	0.30	0.07	0.00	0.00	21.28
rs7241978	Cysteine to alanine ratio	GCST90200786	18	3999968	T	C	8220	0.09	0.02	0.00	0.00	26.03
rs1084950	Cysteine to alanine ratio	GCST90200786	18	55802257	A	G	8220	-0.17	0.03	0.00	0.00	28.35
rs148166428	Cysteine to alanine ratio	GCST90200786	19	35207458	C	G	8220	0.12	0.03	0.00	0.00	19.68
rs77181459	Cysteine to alanine ratio	GCST90200786	20	62074879	A	G	8220	0.21	0.05	0.00	0.00	20.26
rs71316533	Cysteine to alanine ratio	GCST90200786	22	49344125	G	T	8220	-0.17	0.03	0.00	0.00	22.70
rs228493	Glutamine to asparagine ratio	GCST90200787	1	79221744	A	G	8251	-0.17	0.03	0.00	0.00	27.13
rs191699159	Glutamine to asparagine ratio	GCST90200787	2	4926460	C	T	8251	0.10	0.02	0.00	0.00	20.14
rs59311955	Glutamine to asparagine ratio	GCST90200787	2	65880704	A	G	8251	0.25	0.05	0.00	0.00	22.57
rs715	Glutamine to asparagine ratio	GCST90200787	2	210678331	C	T	8251	0.10	0.02	0.00	0.00	34.61
rs113108924	Glutamine to asparagine ratio	GCST90200787	3	7005125	T	C	8251	0.27	0.06	0.00	0.00	20.88
rs1129043	Glutamine to asparagine ratio	GCST90200787	4	88261979	C	T	8251	-0.07	0.02	0.00	0.00	21.89

rs6836645	Glutamine to asparagine ratio	GCST90200787	4	153381181	G	C	8251	-0.07	0.02	0.00	0.00	21.17
rs138211004	Glutamine to asparagine ratio	GCST90200787	4	165182576	T	C	8251	-0.32	0.06	0.00	0.00	27.32
rs80237391	Glutamine to asparagine ratio	GCST90200787	4	169860913	A	G	8251	-0.24	0.05	0.00	0.00	22.31
rs79505404	Glutamine to asparagine ratio	GCST90200787	5	119883789	T	C	8251	0.26	0.06	0.00	0.00	21.86
rs187147686	Glutamine to asparagine ratio	GCST90200787	5	162753517	T	A	8251	-0.23	0.05	0.00	0.00	21.33
rs6420139	Glutamine to asparagine ratio	GCST90200787	6	154680276	T	C	8251	-0.07	0.02	0.00	0.00	19.81
rs55709220	Glutamine to asparagine ratio	GCST90200787	7	80505484	G	A	8251	-0.16	0.03	0.00	0.00	21.85
rs28393117	Glutamine to asparagine ratio	GCST90200787	7	97866354	T	C	8251	-0.12	0.02	0.00	0.01	47.29
rs7792747	Glutamine to asparagine ratio	GCST90200787	7	153012852	T	G	8251	0.09	0.02	0.00	0.00	20.17
rs7078003	Glutamine to asparagine ratio	GCST90200787	10	97599655	T	C	8251	0.09	0.02	0.00	0.00	21.44
rs117170810	Glutamine to asparagine ratio	GCST90200787	10	130347676	G	A	8251	-0.40	0.09	0.00	0.00	20.72
rs7104825	Glutamine to asparagine ratio	GCST90200787	11	62259361	T	C	8251	0.21	0.02	0.00	0.01	77.43
rs2933243	Glutamine to asparagine ratio	GCST90200787	12	56466793	A	G	8251	-0.26	0.02	0.00	0.02	191.63
rs116913940	Glutamine to asparagine ratio	GCST90200787	13	94970580	T	G	8251	-0.23	0.05	0.00	0.00	20.14
rs35102588	Glutamine to asparagine ratio	GCST90200787	14	100339490	C	T	8251	0.08	0.02	0.00	0.00	25.78
rs2296487	Glutamine to asparagine ratio	GCST90200787	14	103529868	C	T	8251	0.12	0.02	0.00	0.01	50.44
rs2282377	Glutamine to asparagine ratio	GCST90200787	14	104105483	G	C	8251	-0.69	0.02	0.00	0.11	#####
rs117763903	Glutamine to asparagine ratio	GCST90200787	14	104220756	T	C	8251	-0.32	0.06	0.00	0.00	31.42
rs140990619	Glutamine to asparagine ratio	GCST90200787	16	4767567	C	G	8251	-0.30	0.07	0.00	0.00	20.18
rs4519409	Glutamine to asparagine ratio	GCST90200787	18	25142113	C	A	8251	-0.07	0.02	0.00	0.00	20.06
rs7554927	5-oxoproline to citrate ratio	GCST90200788	1	182797363	T	G	8256	-0.10	0.02	0.00	0.00	19.71
rs6544646	5-oxoproline to citrate ratio	GCST90200788	2	43349858	A	G	8256	-0.07	0.02	0.00	0.00	21.51
rs73098050	5-oxoproline to citrate ratio	GCST90200788	3	77188715	T	C	8256	-0.29	0.06	0.00	0.00	20.75
rs1356664	5-oxoproline to citrate ratio	GCST90200788	3	135900743	T	G	8256	-0.07	0.02	0.00	0.00	19.98
rs6922554	5-oxoproline to citrate ratio	GCST90200788	6	52723310	T	C	8256	-0.08	0.02	0.00	0.00	20.38
rs12699933	5-oxoproline to citrate ratio	GCST90200788	7	17974805	A	T	8256	0.11	0.02	0.00	0.00	19.92
rs75955528	5-oxoproline to citrate ratio	GCST90200788	7	25441267	A	C	8256	-0.25	0.05	0.00	0.00	19.89

rs3935209	5-oxoproline to citrate ratio	GCST90200788	8	144058338	G	T	8256	-0.76	0.03	0.00	0.10	900.11
rs59912477	5-oxoproline to citrate ratio	GCST90200788	11	103007017	G	T	8256	0.14	0.03	0.00	0.00	19.69
rs77290820	5-oxoproline to citrate ratio	GCST90200788	12	47847562	A	G	8256	0.18	0.04	0.00	0.00	26.55
rs2657907	5-oxoproline to citrate ratio	GCST90200788	12	56519855	A	C	8256	-0.10	0.02	0.00	0.00	26.14
rs62055322	5-oxoproline to citrate ratio	GCST90200788	16	68647298	T	C	8256	0.22	0.05	0.00	0.00	20.11
rs750516	5-oxoproline to citrate ratio	GCST90200788	16	79530223	C	A	8256	0.10	0.02	0.00	0.00	19.52
rs7220915	5-oxoproline to citrate ratio	GCST90200788	17	6696046	C	T	8256	-0.13	0.02	0.00	0.00	38.19
rs17068587	5-oxoproline to citrate ratio	GCST90200788	18	61590363	T	C	8256	-0.07	0.02	0.00	0.00	21.35
rs117658254	5-oxoproline to citrate ratio	GCST90200788	19	29911564	T	C	8256	0.34	0.07	0.00	0.00	23.88
rs1168113	tocopherol to sulfate ratio	GCST90200789	1	62690427	C	T	8201	0.08	0.02	0.00	0.00	23.56
rs35469300	Alpha-tocopherol to sulfate ratio	GCST90200789	2	117239334	T	C	8201	-0.15	0.03	0.00	0.00	22.04
rs17339699	Alpha-tocopherol to sulfate ratio	GCST90200789	2	176464738	C	T	8201	0.24	0.05	0.00	0.00	21.11
rs6762950	Alpha-tocopherol to sulfate ratio	GCST90200789	3	1601171	A	C	8201	-0.07	0.02	0.00	0.00	22.01
rs12633231	Alpha-tocopherol to sulfate ratio	GCST90200789	3	21766187	T	C	8201	-0.08	0.02	0.00	0.00	21.34
rs2220105	Alpha-tocopherol to sulfate ratio	GCST90200789	4	95319194	G	T	8201	-0.08	0.02	0.00	0.00	20.64
rs2565001	Alpha-tocopherol to sulfate ratio	GCST90200789	5	54530900	T	C	8201	-0.26	0.06	0.00	0.00	22.08
rs59162951	Alpha-tocopherol to sulfate ratio	GCST90200789	5	149162389	C	A	8201	0.08	0.02	0.00	0.00	19.88
rs7709519	Alpha-tocopherol to sulfate ratio	GCST90200789	5	160975642	A	T	8201	0.15	0.03	0.00	0.00	21.14
rs141715143	Alpha-tocopherol to sulfate ratio	GCST90200789	6	65407495	T	C	8201	0.25	0.05	0.00	0.00	24.66
rs62426062	Alpha-tocopherol to sulfate ratio	GCST90200789	6	149316782	A	G	8201	-0.13	0.03	0.00	0.00	20.16
rs73444001	Alpha-tocopherol to sulfate ratio	GCST90200789	7	123041656	C	T	8201	0.15	0.03	0.00	0.00	21.27
rs1451885	Alpha-tocopherol to sulfate ratio	GCST90200789	8	1161140	C	T	8201	0.09	0.02	0.00	0.00	20.93
rs76271807	Alpha-tocopherol to sulfate ratio	GCST90200789	8	2562970	A	G	8201	0.23	0.05	0.00	0.00	20.23
rs146015262	Alpha-tocopherol to sulfate ratio	GCST90200789	9	93046676	A	C	8201	-0.13	0.03	0.00	0.00	20.28
rs146387678	Alpha-tocopherol to sulfate ratio	GCST90200789	11	21343031	T	C	8201	0.46	0.09	0.00	0.00	23.73
rs76361957	Alpha-tocopherol to sulfate ratio	GCST90200789	11	33480342	A	G	8201	-0.26	0.06	0.00	0.00	20.50
rs75995596	Alpha-tocopherol to sulfate ratio	GCST90200789	11	132105020	T	A	8201	0.33	0.07	0.00	0.00	22.98

rs987634	Alpha-tocopherol to sulfate ratio	GCST90200789	17	70157895	C	T	8201	-0.07	0.02	0.00	0.00	21.44
rs10754913	Thyroxine to taurocholate ratio	GCST90200790	1	14167487	C	A	7615	0.09	0.02	0.00	0.00	23.19
rs11682694	Thyroxine to taurocholate ratio	GCST90200790	2	45179998	G	A	7615	-0.08	0.02	0.00	0.00	22.38
rs148453870	Thyroxine to taurocholate ratio	GCST90200790	3	109665071	T	C	7615	-0.44	0.10	0.00	0.00	20.32
rs191245370	Thyroxine to taurocholate ratio	GCST90200790	3	134416433	C	T	7615	0.25	0.05	0.00	0.00	22.90
rs55635904	Thyroxine to taurocholate ratio	GCST90200790	4	84714132	C	T	7615	-0.27	0.06	0.00	0.00	22.74
rs4508958	Thyroxine to taurocholate ratio	GCST90200790	4	112477832	C	T	7615	0.11	0.02	0.00	0.00	20.76
rs72960519	Thyroxine to taurocholate ratio	GCST90200790	4	160400285	G	A	7615	-0.09	0.02	0.00	0.00	20.32
rs114121344	Thyroxine to taurocholate ratio	GCST90200790	5	34775983	A	G	7615	0.32	0.07	0.00	0.00	21.84
rs141336372	Thyroxine to taurocholate ratio	GCST90200790	5	35825444	T	A	7615	0.34	0.07	0.00	0.00	21.27
rs11743060	Thyroxine to taurocholate ratio	GCST90200790	5	156357900	G	A	7615	-0.07	0.02	0.00	0.00	20.77
rs112156304	Thyroxine to taurocholate ratio	GCST90200790	6	69642607	T	C	7615	-0.15	0.03	0.00	0.00	19.86
rs150033131	Thyroxine to taurocholate ratio	GCST90200790	6	102980285	G	C	7615	-0.43	0.10	0.00	0.00	20.82
rs9397736	Thyroxine to taurocholate ratio	GCST90200790	6	154661178	C	T	7615	-0.10	0.02	0.00	0.00	21.31
rs79931337	Thyroxine to taurocholate ratio	GCST90200790	7	110842497	G	C	7615	-0.30	0.06	0.00	0.00	25.04
rs4731512	Thyroxine to taurocholate ratio	GCST90200790	7	128733480	A	G	7615	-0.18	0.03	0.00	0.00	27.82
rs143006492	Thyroxine to taurocholate ratio	GCST90200790	8	102052315	T	C	7615	0.34	0.08	0.00	0.00	19.73
rs141105780	Thyroxine to taurocholate ratio	GCST90200790	11	61178427	G	T	7615	-0.34	0.08	0.00	0.00	19.54
rs188255354	Thyroxine to taurocholate ratio	GCST90200790	11	121181254	T	C	7615	-0.39	0.09	0.00	0.00	21.25
rs10848050	Thyroxine to taurocholate ratio	GCST90200790	12	130242234	G	A	7615	0.08	0.02	0.00	0.00	21.74
rs62033607	Thyroxine to taurocholate ratio	GCST90200790	15	87276882	A	C	7615	0.11	0.02	0.00	0.00	20.10
rs113867701	Thyroxine to taurocholate ratio	GCST90200790	16	64529200	G	C	7615	-0.32	0.07	0.00	0.00	22.01
rs76149982	Thyroxine to taurocholate ratio	GCST90200790	17	10808360	A	C	7615	0.17	0.03	0.00	0.00	32.10
rs73532962	Thyroxine to taurocholate ratio	GCST90200790	19	30105210	A	G	7615	-0.22	0.05	0.00	0.00	20.19

rs117409421	Thyroxine to taurocholate ratio	GCST90200790	19	52505874	G	A	7615	0.23	0.05	0.00	0.00	26.85
rs185105179	Thyroxine to taurocholate ratio	GCST90200790	21	13906656	C	T	7615	0.26	0.05	0.00	0.00	23.87
rs4658949	Creatine to carnitine ratio	GCST90200791	1	231812573	T	G	8235	-0.08	0.02	0.00	0.00	26.03
rs114930516	Creatine to carnitine ratio	GCST90200791	2	2858759	A	G	8235	0.28	0.06	0.00	0.00	22.94
rs147789435	Creatine to carnitine ratio	GCST90200791	2	128376440	A	G	8235	-0.46	0.10	0.00	0.00	20.04
rs1047891	Creatine to carnitine ratio	GCST90200791	2	210675783	A	C	8235	0.20	0.02	0.00	0.02	174.05
rs7619139	Creatine to carnitine ratio	GCST90200791	3	25068924	A	T	8235	0.07	0.01	0.00	0.00	21.89
rs115284235	Creatine to carnitine ratio	GCST90200791	3	125619582	G	A	8235	0.23	0.04	0.00	0.00	27.23
rs7737937	Creatine to carnitine ratio	GCST90200791	5	132279288	A	G	8235	0.10	0.02	0.00	0.00	22.52
rs12521617	Creatine to carnitine ratio	GCST90200791	5	175885609	A	G	8235	0.11	0.02	0.00	0.00	23.99
rs2781650	Creatine to carnitine ratio	GCST90200791	6	131555581	G	A	8235	0.08	0.02	0.00	0.00	21.44
rs143845801	Creatine to carnitine ratio	GCST90200791	7	84805233	C	G	8235	-0.45	0.08	0.00	0.00	27.75
rs2252502	Creatine to carnitine ratio	GCST90200791	7	158945943	C	G	8235	0.07	0.02	0.00	0.00	21.79
rs79897437	Creatine to carnitine ratio	GCST90200791	9	73970652	T	C	8235	-0.18	0.04	0.00	0.00	24.54
rs117079910	Creatine to carnitine ratio	GCST90200791	9	97878835	G	A	8235	-0.17	0.04	0.00	0.00	19.85
rs117434106	Creatine to carnitine ratio	GCST90200791	9	124964417	G	A	8235	-0.27	0.06	0.00	0.00	23.14
rs79955599	Creatine to carnitine ratio	GCST90200791	10	7544569	T	C	8235	-0.14	0.03	0.00	0.00	19.54
rs1148171	Creatine to carnitine ratio	GCST90200791	10	27284777	C	T	8235	0.08	0.02	0.00	0.00	19.83
rs1171614	Creatine to carnitine ratio	GCST90200791	10	59709780	C	T	8235	-0.13	0.02	0.00	0.01	59.62
rs73132077	Creatine to carnitine ratio	GCST90200791	12	66956577	C	T	8235	0.25	0.05	0.00	0.00	23.00
rs1346267	Creatine to carnitine ratio	GCST90200791	15	45398791	C	T	8235	0.11	0.01	0.00	0.01	57.43
rs74499531	Creatine to carnitine ratio	GCST90200791	16	65645569	A	G	8235	0.12	0.02	0.00	0.00	24.73
rs199692	palmitoylcarnitine (C16) Carnitine to	GCST90200792	1	77037502	A	T	8146	0.09	0.02	0.00	0.00	21.56
rs285412	palmitoylcarnitine (C16) Carnitine to	GCST90200792	1	165474126	T	C	8146	-0.08	0.02	0.00	0.00	20.38
rs4347778	palmitoylcarnitine (C16) Carnitine to	GCST90200792	2	18965511	G	A	8146	0.08	0.02	0.00	0.00	20.66
rs79722717	palmitoylcarnitine (C16) Carnitine to	GCST90200792	2	25734598	A	G	8146	0.23	0.05	0.00	0.00	23.68
rs72958990	palmitoylcarnitine (C16) Carnitine to	GCST90200792	2	179701485	C	T	8146	-0.18	0.04	0.00	0.00	19.90
rs78833722	palmitoylcarnitine (C16) Carnitine to	GCST90200792	2	235043978	G	C	8146	-0.12	0.03	0.00	0.00	20.88
rs62266493	palmitoylcarnitine (C16) Carnitine to	GCST90200792	3	108864597	C	T	8146	-0.13	0.03	0.00	0.00	20.96
rs115136143	palmitoylcarnitine (C16) Carnitine to	GCST90200792	3	148992930	G	A	8146	0.17	0.04	0.00	0.00	20.12
rs7697420	palmitoylcarnitine (C16)	GCST90200792	4	144764487	C	T	8146	0.09	0.02	0.00	0.00	25.15

rs1117140	Carnitine to palmitoylcarni tine (C16)	GCST90200792	4	159668009	A	G	8146	-0.08	0.02	0.00	0.00	22.17
rs72777087	Carnitine to palmitoylcarni tine (C16)	GCST90200792	5	92421692	G	A	8146	-0.10	0.02	0.00	0.00	21.95
rs736801	Carnitine to palmitoylcarni tine (C16)	GCST90200792	5	132497907	T	C	8146	0.08	0.02	0.00	0.00	25.76
rs56020616	Carnitine to palmitoylcarni tine (C16)	GCST90200792	6	50441124	T	C	8146	0.12	0.03	0.00	0.00	21.97
rs12210538	Carnitine to palmitoylcarni tine (C16)	GCST90200792	6	110438805	G	A	8146	0.14	0.02	0.00	0.01	59.30
rs11754712	Carnitine to palmitoylcarni tine (C16)	GCST90200792	6	124629043	C	A	8146	-0.31	0.06	0.00	0.00	25.89
rs15092632	Carnitine to palmitoylcarni tine (C16)	GCST90200792	7	70790653	T	G	8146	-0.32	0.07	0.00	0.00	19.85
rs1676911	Carnitine to palmitoylcarni tine (C16)	GCST90200792	7	148955947	T	G	8146	0.08	0.02	0.00	0.00	19.61
rs10113614	Carnitine to palmitoylcarni tine (C16)	GCST90200792	8	126020667	C	T	8146	-0.10	0.02	0.00	0.00	23.40
rs11499089	Carnitine to palmitoylcarni tine (C16)	GCST90200792	10	45476671	C	A	8146	-0.09	0.02	0.00	0.00	28.29
rs1171616	Carnitine to palmitoylcarni tine (C16)	GCST90200792	10	59708831	T	G	8146	0.16	0.02	0.00	0.01	69.94
rs61872851	Carnitine to palmitoylcarni tine (C16)	GCST90200792	10	121115147	A	G	8146	0.17	0.04	0.00	0.00	20.58
rs9658397	Carnitine to palmitoylcarni tine (C16)	GCST90200792	12	117265651	T	C	8146	-0.23	0.05	0.00	0.00	19.61
rs7317174	Carnitine to palmitoylcarni tine (C16)	GCST90200792	13	21931167	A	G	8146	-0.09	0.02	0.00	0.00	19.52
rs61955719	Carnitine to palmitoylcarni tine (C16)	GCST90200792	13	37889677	T	G	8146	0.12	0.03	0.00	0.00	20.87
rs74598371	Carnitine to palmitoylcarni tine (C16)	GCST90200792	15	72942025	C	T	8146	0.22	0.05	0.00	0.00	19.94
rs11710884	Carnitine to palmitoylcarni tine (C16)	GCST90200792	16	88063462	C	A	8146	-0.24	0.06	0.00	0.00	19.60
rs14660754	Carnitine to palmitoylcarni tine (C16)	GCST90200792	18	7179546	C	G	8146	0.22	0.05	0.00	0.00	20.42
rs9967284	Carnitine to palmitoylcarni tine (C16)	GCST90200792	18	61797151	A	T	8146	-0.09	0.02	0.00	0.00	23.58
rs78422675	Carnitine to palmitoylcarni tine (C16)	GCST90200792	18	72567505	T	C	8146	-0.51	0.11	0.00	0.00	20.10
rs34589340	Carnitine to palmitoylcarni tine (C16)	GCST90200792	20	41747457	A	G	8146	0.13	0.03	0.00	0.00	21.17
rs62216572	Carnitine to palmitoylcarni tine (C16)	GCST90200792	21	45068117	T	C	8146	0.08	0.02	0.00	0.00	21.03
rs78282920	Glycolithochol ate to glycolithochol	GCST90200793	1	2452734	A	G	7043	0.12	0.03	0.00	0.00	19.81
rs17754548	Glycolithochol ate sulfate Glycolithochol ate to glycolithochol ate sulfate	GCST90200793	1	207894822	G	A	7043	0.12	0.03	0.00	0.00	20.54

rs11456244	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	2	184410852	G	A	7043	-0.33	0.07	0.00	0.00	20.98
rs10199322	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	2	196243517	C	T	7043	0.17	0.04	0.00	0.00	21.52
rs9818127	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	3	142973179	C	T	7043	-0.15	0.03	0.00	0.00	22.54
rs146114829	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	5	52037041	T	C	7043	-0.39	0.09	0.00	0.00	19.57
rs1976162	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	8	58580347	G	A	7043	-0.08	0.02	0.00	0.00	20.23
rs10746684	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	9	82422303	G	C	7043	-0.09	0.02	0.00	0.00	22.59
rs142612406	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	9	107531409	G	A	7043	0.55	0.12	0.00	0.00	21.44
rs11101389	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	10	48579492	A	T	7043	-0.10	0.02	0.00	0.00	24.76
rs111624890	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	10	118473891	T	C	7043	0.19	0.04	0.00	0.00	20.41
rs142931943	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	11	30855346	T	C	7043	0.36	0.08	0.00	0.00	20.08
rs76577804	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	11	73907425	A	G	7043	-0.19	0.04	0.00	0.00	21.31
rs79383019	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	11	109340412	T	A	7043	0.20	0.05	0.00	0.00	19.56
rs57743625	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	12	21214699	A	G	7043	-0.19	0.02	0.00	0.01	69.46
rs74964662	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	12	21613456	G	A	7043	-0.24	0.05	0.00	0.00	21.69
rs117249153	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	12	99461812	T	C	7043	0.22	0.05	0.00	0.00	22.46
rs190901176	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	13	26521684	A	G	7043	-0.53	0.12	0.00	0.00	20.70
rs55971546	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	13	103065958	T	C	7043	-0.36	0.04	0.00	0.01	86.07
rs12881071	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	14	43963969	A	G	7043	0.08	0.02	0.00	0.00	20.40

rs61987308	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	14	51292461	A	G	7043	-0.17	0.04	0.00	0.00	22.37
rs6496949	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	15	92520365	G	A	7043	-0.08	0.02	0.00	0.00	20.39
rs12917680	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	16	4540909	A	G	7043	-0.08	0.02	0.00	0.00	20.95
rs74971002	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	17	79918393	A	T	7043	-0.13	0.03	0.00	0.00	20.81
rs56335545	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	19	1789722	C	T	7043	0.16	0.03	0.00	0.00	22.60
rs181147464	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	19	23192960	C	T	7043	-0.16	0.03	0.00	0.00	22.59
rs212100	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	19	47873738	C	T	7043	-0.20	0.02	0.00	0.01	79.18
rs9611880	Glycolithocholate to glycolithocholate sulfate Glycolithocholate sulfate Glycolithocholate sulfate	GCST90200793	22	42761318	T	C	7043	0.15	0.03	0.00	0.00	26.14
rs13420860	linoleoyl-glycerol (18:1 to 18:2) [2] to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1]	GCST90200794	2	46053522	G	C	7620	-0.15	0.03	0.00	0.00	20.84
rs142749676	linoleoyl-glycerol (18:1 to 18:2) [2] to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1]	GCST90200794	2	51239407	G	A	7620	-0.40	0.08	0.00	0.00	24.81
rs4045832	linoleoyl-glycerol (18:1 to 18:2) [2] to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1]	GCST90200794	3	21269397	T	C	7620	-0.09	0.02	0.00	0.00	21.08
rs142852294	linoleoyl-glycerol (18:1 to 18:2) [2] to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1]	GCST90200794	3	120658018	G	A	7620	0.20	0.04	0.00	0.00	29.99

rs62306555	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	4	100341545	A	G	7620	-0.09	0.02	0.00	0.00	20.46
rs14230763 5	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	4	126745892	C	T	7620	0.33	0.07	0.00	0.00	24.22
rs75846317	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	4	130062586	A	T	7620	-0.25	0.06	0.00	0.00	19.80
rs12186925	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	5	6441698	A	G	7620	0.14	0.03	0.00	0.00	22.16
rs35068879	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	5	62857513	G	T	7620	0.10	0.02	0.00	0.00	19.85
rs6893561	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	5	133297876	C	T	7620	-0.08	0.02	0.00	0.00	20.82
rs11715155 2	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	6	168032065	A	G	7620	0.43	0.09	0.00	0.00	20.58
rs35134215	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	7	112445394	T	C	7620	-0.08	0.02	0.00	0.00	20.76

rs11575966 1	Ureoyl- linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	8	4655455	G	T	7620	0.24	0.05	0.00	0.00	20.25
rs62502826	Ureoyl- linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	8	29124778	A	G	7620	-0.11	0.02	0.00	0.00	20.13
rs174564	Ureoyl- linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	11	61820833	G	A	7620	0.50	0.02	0.00	0.11	961.33
rs964184	Ureoyl- linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	11	116778201	C	G	7620	-0.13	0.02	0.00	0.00	31.61
rs11835703	Ureoyl- linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	12	119417106	A	G	7620	-0.70	0.15	0.00	0.00	21.32
rs14495937 2	Ureoyl- linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	13	110744956	C	T	7620	0.41	0.08	0.00	0.00	23.42
rs75897684	Ureoyl- linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	14	72404199	A	G	7620	-0.33	0.07	0.00	0.00	21.70
rs7205762	Ureoyl- linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	16	5610666	G	A	7620	0.19	0.04	0.00	0.00	21.77

rs12928099	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	16	15056648	A	C	7620	-0.10	0.02	0.00	0.00	34.37
rs144616579	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	18	59078916	T	C	7620	-0.37	0.08	0.00	0.00	19.55
rs8113825	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	19	4834780	G	A	7620	0.07	0.02	0.00	0.00	20.52
rs72999033	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	19	19255823	T	C	7620	0.19	0.03	0.00	0.00	30.94
rs1065853	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200794	19	44909976	T	G	7620	-0.16	0.03	0.00	0.00	31.31
rs6696206	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	1	66369301	C	T	7615	-0.28	0.06	0.00	0.00	20.65
rs499132	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	1	199381933	T	C	7615	-0.07	0.02	0.00	0.00	20.38
rs12494055	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	3	42872353	C	T	7615	-0.08	0.02	0.00	0.00	22.19

rs80214905	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	3	56184547	T	C	7615	0.21	0.04	0.00	0.00	21.36
rs148852238	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	3	99114607	T	C	7615	-0.53	0.12	0.00	0.00	20.96
rs72908742	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	4	99645301	T	C	7615	0.21	0.05	0.00	0.00	19.70
rs3756963	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	6	11021921	C	T	7615	-0.09	0.02	0.00	0.00	23.97
rs11751166	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	6	114979144	T	G	7615	-0.21	0.05	0.00	0.00	19.64
rs6973834	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	7	89483494	G	A	7615	-0.09	0.02	0.00	0.00	28.11
rs10435215	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	7	153629633	G	A	7615	-0.09	0.02	0.00	0.00	26.79
rs11782502	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	8	57663286	A	G	7615	0.08	0.02	0.00	0.00	20.61

rs12221243	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	10	119744931	T	C	7615	-0.12	0.02	0.00	0.00	23.57
rs12362235	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	11	8255111	G	A	7615	0.08	0.02	0.00	0.00	24.36
rs41382844	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	11	60853868	C	A	7615	0.11	0.02	0.00	0.00	20.30
rs174564	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	11	61820833	G	A	7615	0.46	0.02	0.00	0.10	807.88
rs964184	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	11	116778201	C	G	7615	-0.11	0.02	0.00	0.00	21.47
rs11270245 2	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	13	94779511	A	G	7615	-0.23	0.05	0.00	0.00	22.20
rs261342	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	15	58438954	C	G	7615	0.09	0.02	0.00	0.00	20.19
rs71399832	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	15	86524393	T	A	7615	0.23	0.05	0.00	0.00	20.87

rs12928099	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	16	15056648	A	C	7615	-0.11	0.02	0.00	0.00	36.05
rs117620076	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	16	26728776	T	G	7615	-0.26	0.06	0.00	0.00	19.75
rs11651200	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	17	34187059	C	T	7615	0.07	0.02	0.00	0.00	19.80
rs1065853	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	19	44909976	T	G	7615	-0.15	0.03	0.00	0.00	27.02
rs7269976	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	20	4778304	C	A	7615	-0.19	0.04	0.00	0.00	25.25
rs6079801	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	20	15401003	A	G	7615	0.08	0.02	0.00	0.00	20.64
rs145048469	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	20	37118980	G	C	7615	-0.19	0.04	0.00	0.00	20.39
rs73173015	linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	22	42420462	G	A	7615	0.15	0.03	0.00	0.00	20.85

rs9623807	Oneoyl- linoleoyl- glycerol (18:1 to 18:2) [2] to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200795	22	43308046	C	A	7615	-0.12	0.03	0.00	0.00	19.62
rs56072327	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	1	93683058	A	G	7287	-0.26	0.05	0.00	0.00	24.26
rs3811444	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	1	247876149	T	C	7287	0.09	0.02	0.00	0.00	26.38
rs1354034	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	3	56815721	C	T	7287	0.07	0.02	0.00	0.00	19.65
rs9823496	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	3	175952108	A	C	7287	-0.08	0.02	0.00	0.00	21.59
rs2914702	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	5	109427088	T	A	7287	-0.08	0.02	0.00	0.00	21.78
rs14213114 6	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	5	116698056	A	G	7287	-0.28	0.06	0.00	0.00	22.38
rs62492368	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	7	150840547	A	G	7287	0.11	0.02	0.00	0.01	37.27
rs2325780	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	8	57518798	T	C	7287	-0.10	0.02	0.00	0.00	20.12
rs694127	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	9	3120483	T	G	7287	-0.15	0.03	0.00	0.00	20.02
rs76778936	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	9	5459313	G	T	7287	-0.18	0.04	0.00	0.00	22.32
rs75829510	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	9	37912420	A	T	7287	0.36	0.08	0.00	0.00	22.51
rs6482229	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	10	22717625	G	A	7287	0.08	0.02	0.00	0.00	20.81
rs1618092	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	10	31506284	T	C	7287	-0.07	0.02	0.00	0.00	19.90
rs4838735	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	10	133382797	A	C	7287	0.13	0.02	0.00	0.01	50.85
rs4635067	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	11	40783331	T	C	7287	0.14	0.03	0.00	0.00	22.42
rs528278	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	11	131968269	G	A	7287	0.08	0.02	0.00	0.00	19.59

rs11053514	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	12	9926651	A	G	7287	-0.35	0.08	0.00	0.00	21.00
rs12872121	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	13	62691950	A	G	7287	-0.09	0.02	0.00	0.00	19.75
rs12708521	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	15	75792534	T	C	7287	-0.08	0.02	0.00	0.00	21.59
rs76732671	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	18	10668139	C	T	7287	0.21	0.04	0.00	0.00	21.48
rs77866767	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	19	45991746	A	G	7287	0.25	0.06	0.00	0.00	20.28
rs117100111	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	20	44185659	C	G	7287	-0.32	0.06	0.00	0.00	25.09
rs16981543	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	20	57975945	T	C	7287	0.10	0.02	0.00	0.00	20.49
rs13050254	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	21	40964278	A	G	7287	-0.10	0.02	0.00	0.00	19.80
rs140283535	Spermidine to (N(1) + N(8))- acetylspermidine ratio	GCST90200796	22	50168985	T	G	7287	-0.49	0.06	0.00	0.01	66.93
rs12032410	N- acetylputrescine ratio	GCST90200797	1	105937150	A	C	7299	0.14	0.03	0.00	0.00	19.80
rs75471399	N- acetylputrescine ratio	GCST90200797	1	177341347	T	A	7299	0.28	0.06	0.00	0.00	20.61
rs3811444	N- acetylputrescine ratio	GCST90200797	1	247876149	T	C	7299	0.10	0.02	0.00	0.00	31.70
rs2710005	N- acetylputrescine ratio	GCST90200797	2	18033191	A	G	7299	-0.09	0.02	0.00	0.00	19.94
rs72898396	N- acetylputrescine ratio	GCST90200797	2	52836223	C	T	7299	-0.22	0.05	0.00	0.00	22.27
rs4677169	N- acetylputrescine ratio	GCST90200797	3	72484617	G	A	7299	-0.09	0.02	0.00	0.00	20.63
rs145554695	N- acetylputrescine ratio	GCST90200797	3	75396601	A	C	7299	0.23	0.05	0.00	0.00	22.81
rs144977626	N- acetylputrescine ratio	GCST90200797	3	148784541	A	G	7299	-0.13	0.02	0.00	0.00	27.59
rs1279623	N- acetylputrescine ratio	GCST90200797	5	56601242	C	G	7299	0.14	0.03	0.00	0.00	20.08

rs1495741	Spermidine to N-acetylputrescine ratio	GCST90200797	8	18415371	A	G	7299	0.35	0.02	0.00	0.04	336.30
rs142385393	Spermidine to N-acetylputrescine ratio	GCST90200797	8	82034603	A	G	7299	0.23	0.04	0.00	0.00	26.94
rs118085206	Spermidine to N-acetylputrescine ratio	GCST90200797	9	109221877	G	A	7299	0.29	0.06	0.00	0.00	21.19
rs41284444	Spermidine to N-acetylputrescine ratio	GCST90200797	10	14519958	T	C	7299	0.13	0.03	0.00	0.00	20.94
rs10761737	Spermidine to N-acetylputrescine ratio	GCST90200797	10	63292445	C	T	7299	0.08	0.02	0.00	0.00	24.42
rs138156375	Spermidine to N-acetylputrescine ratio	GCST90200797	11	33916126	A	G	7299	0.56	0.11	0.00	0.00	23.40
rs80264597	Spermidine to N-acetylputrescine ratio	GCST90200797	12	29666103	T	A	7299	-0.19	0.04	0.00	0.00	21.12
rs6582618	Spermidine to N-acetylputrescine ratio	GCST90200797	12	38332335	G	A	7299	-0.08	0.02	0.00	0.00	21.96
rs111914386	Spermidine to N-acetylputrescine ratio	GCST90200797	13	98040278	T	C	7299	0.19	0.04	0.00	0.00	20.36
rs11844459	Spermidine to N-acetylputrescine ratio	GCST90200797	14	20675533	C	G	7299	-0.12	0.03	0.00	0.00	19.63
rs139194404	Spermidine to N-acetylputrescine ratio	GCST90200797	14	68104826	G	A	7299	0.32	0.06	0.00	0.00	27.72
rs148395150	Spermidine to N-acetylputrescine ratio	GCST90200797	16	6873801	C	T	7299	0.30	0.06	0.00	0.00	21.94
rs35961335	Spermidine to N-acetylputrescine ratio	GCST90200797	18	26599526	A	G	7299	-0.19	0.04	0.00	0.00	19.90
rs78545514	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	1	72239990	T	C	6840	-0.28	0.06	0.00	0.00	20.33
rs10912054	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	1	187360053	T	C	6840	-0.12	0.02	0.00	0.00	25.89
rs74980771	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	1	232142629	C	A	6840	0.19	0.04	0.00	0.00	22.07
rs76988459	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	3	63483394	C	T	6840	0.15	0.03	0.00	0.00	20.17
rs358236	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	4	22813574	C	T	6840	0.16	0.02	0.00	0.01	41.92

rs60839764	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	4	107871925	A	G	6840	0.08	0.02	0.00	0.00	19.63
rs78729231	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	4	175764031	T	C	6840	-0.28	0.06	0.00	0.00	21.83
rs17851288	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	5	103104679	T	C	6840	0.21	0.05	0.00	0.00	21.78
rs6903955	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	6	1331615	T	C	6840	0.08	0.02	0.00	0.00	20.64
rs62440562	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	6	73320762	A	G	6840	0.10	0.02	0.00	0.00	26.48
rs6903423	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	6	134355824	G	A	6840	0.10	0.02	0.00	0.00	21.37
rs12214788	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	6	162243554	T	C	6840	0.15	0.03	0.00	0.00	22.70
rs28374747	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	7	10320169	A	G	6840	0.09	0.02	0.00	0.00	22.57
rs674418	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	7	54645993	A	G	6840	0.12	0.02	0.00	0.00	24.51
rs148457950	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	7	127523561	A	C	6840	0.33	0.08	0.00	0.00	19.57
rs35583283	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	8	18396999	C	G	6840	0.14	0.02	0.00	0.01	36.69
rs55917516	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	8	57094894	A	C	6840	-0.14	0.03	0.00	0.00	20.39
rs2242087	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	8	143613006	T	C	6840	0.10	0.02	0.00	0.00	19.81
rs148534955	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	9	10802685	T	C	6840	0.36	0.08	0.00	0.00	22.17
rs7084906	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	10	21354470	C	G	6840	0.15	0.03	0.00	0.00	22.54
rs7170150	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	15	99487563	C	T	6840	0.08	0.02	0.00	0.00	22.10
rs116472789	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	17	9228966	T	G	6840	0.21	0.05	0.00	0.00	20.63
rs1624032	Dopamine 4-sulfate to dopamine 3-O-sulfate ratio	GCST90200798	18	4596475	T	C	6840	-0.08	0.02	0.00	0.00	19.74

rs17115445	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	1	57242177	T	C	4195	-0.29	0.06	0.00	0.00	20.62
rs11483983 5	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	1	103268985	T	C	4195	0.29	0.06	0.00	0.00	19.87
rs78116302	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	2	7919282	A	G	4195	-0.16	0.03	0.00	0.01	22.19
rs72782986	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	2	34252634	T	C	4195	-0.15	0.03	0.00	0.01	21.27
rs72827474	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	2	120377590	T	C	4195	-0.20	0.05	0.00	0.00	19.88
rs80332390	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	2	234191055	C	A	4195	-0.28	0.06	0.00	0.00	20.67
rs13323506	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	3	12695732	C	A	4195	0.11	0.02	0.00	0.01	23.59
rs11359249 5	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	3	49109223	G	T	4195	-0.13	0.03	0.00	0.00	20.39
rs76012831	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	3	118529435	C	T	4195	0.17	0.04	0.00	0.00	21.01
rs11929085	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	3	190869891	G	A	4195	-0.28	0.06	0.00	0.01	21.63
rs11291645 8	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	4	36809849	A	G	4195	-0.33	0.07	0.00	0.01	24.38
rs14830669 1	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	4	92889785	T	C	4195	-0.29	0.06	0.00	0.01	21.43
rs7805806	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	7	20687705	G	A	4195	-0.15	0.03	0.00	0.00	20.12
rs11534087	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	7	75790818	T	C	4195	-0.18	0.04	0.00	0.01	22.12
rs10159780	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	10	53434446	C	G	4195	0.52	0.11	0.00	0.01	21.15
rs11832035	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	12	117793016	A	G	4195	-0.11	0.02	0.00	0.01	21.49
rs11773952 2	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	13	83396878	G	T	4195	-0.36	0.08	0.00	0.00	20.70
rs3874239	Spermidine to adenosine 5'- diphosphate (ADP) ratio	GCST90200799	15	45039491	G	C	4195	-0.17	0.03	0.00	0.01	24.99

rs75263840	Spermidine to adenosine 5'-diphosphate (ADP) ratio	GCST90200799	17	15026067	A	C	4195	0.26	0.06	0.00	0.01	22.17
rs68044892	Spermidine to adenosine 5'-diphosphate (ADP) ratio	GCST90200799	17	49094443	G	A	4195	0.19	0.04	0.00	0.01	23.56
rs74001373	Spermidine to adenosine 5'-diphosphate (ADP) ratio	GCST90200799	17	78485098	A	G	4195	-0.18	0.04	0.00	0.01	25.13
rs113777805	Spermidine to adenosine 5'-diphosphate (ADP) ratio	GCST90200799	18	23684659	C	G	4195	0.40	0.09	0.00	0.00	19.54
rs138974824	Spermidine to adenosine 5'-diphosphate (ADP) ratio	GCST90200799	18	29067894	T	G	4195	-0.56	0.11	0.00	0.01	24.82
rs78045313	Spermidine to adenosine 5'-diphosphate (ADP) ratio	GCST90200799	18	77105297	G	A	4195	0.44	0.10	0.00	0.00	19.84
rs75076957	Spermidine to adenosine 5'-diphosphate (ADP) ratio	GCST90200799	21	40135321	G	T	4195	-0.16	0.04	0.00	0.00	19.71
rs17781131	Spermidine to histidine ratio	GCST90200800	1	232393656	C	G	7297	0.21	0.05	0.00	0.00	20.35
rs3811444	Spermidine to histidine ratio	GCST90200800	1	247876149	T	C	7297	0.11	0.02	0.00	0.01	39.05
rs59066200	Spermidine to histidine ratio	GCST90200800	2	52917149	A	G	7297	-0.23	0.05	0.00	0.00	22.85
rs11129016	Spermidine to histidine ratio	GCST90200800	3	21714789	C	T	7297	0.07	0.02	0.00	0.00	20.26
rs74952882	Spermidine to histidine ratio	GCST90200800	6	67865836	A	G	7297	0.18	0.04	0.00	0.00	24.63
rs183114498	Spermidine to histidine ratio	GCST90200800	7	91430227	T	G	7297	0.31	0.07	0.00	0.00	22.28
rs118047353	Spermidine to histidine ratio	GCST90200800	9	1509104	C	G	7297	-0.24	0.05	0.00	0.00	19.85
rs4744196	Spermidine to histidine ratio	GCST90200800	9	93223371	T	C	7297	0.08	0.02	0.00	0.00	20.35
rs118145575	Spermidine to histidine ratio	GCST90200800	10	81349580	C	A	7297	0.28	0.06	0.00	0.00	20.40
rs138179500	Spermidine to histidine ratio	GCST90200800	12	126630737	G	A	7297	-0.30	0.06	0.00	0.00	21.32
rs66798290	Spermidine to histidine ratio	GCST90200800	13	65706842	G	A	7297	0.08	0.02	0.00	0.00	20.30
rs116844331	Spermidine to histidine ratio	GCST90200800	14	67608026	T	C	7297	0.44	0.09	0.00	0.00	22.86
rs113481882	Spermidine to histidine ratio	GCST90200800	16	27186837	A	G	7297	0.16	0.03	0.00	0.00	20.67
rs72799097	Spermidine to histidine ratio	GCST90200800	16	78724717	G	A	7297	0.33	0.07	0.00	0.00	23.69
rs143228894	Spermidine to histidine ratio	GCST90200800	18	9507326	G	A	7297	0.75	0.15	0.00	0.00	24.51
rs528859	Spermidine to histidine ratio	GCST90200800	18	79786861	T	C	7297	-0.07	0.02	0.00	0.00	20.25
rs77814879	5-methylthioadenosine (MTA) to phosphate	GCST90200801	2	5842907	A	G	8261	0.18	0.04	0.00	0.00	22.18
rs4278888	5-methylthioadenosine (MTA) to phosphate	GCST90200801	2	154906562	C	T	8261	-0.15	0.03	0.00	0.00	22.71
rs1047891	5-methylthioadenosine (MTA) to phosphate	GCST90200801	2	210675783	A	C	8261	-0.10	0.02	0.00	0.00	37.54

rs75464576	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	3	18402304	T	C	8261	0.20	0.05	0.00	0.00	19.60
rs12648865	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	4	27390426	A	G	8261	-0.29	0.06	0.00	0.00	26.31
rs35224077	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	4	68419122	C	T	8261	0.18	0.04	0.00	0.00	21.04
rs76613896	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	5	46300825	A	G	8261	0.26	0.06	0.00	0.00	20.80
rs9471975	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	6	42951484	C	T	8261	0.09	0.01	0.00	0.00	37.04
rs9322188	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	6	149588355	T	C	8261	-0.11	0.02	0.00	0.01	52.95
rs662138	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	6	160143444	G	C	8261	-0.13	0.02	0.00	0.01	42.46
rs77477036	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	7	38552413	G	A	8261	-0.10	0.02	0.00	0.00	20.27
rs79305290	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	7	100940447	A	G	8261	-0.10	0.02	0.00	0.00	20.62
rs2056441	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	8	19033533	G	T	8261	-0.07	0.01	0.00	0.00	21.13
rs71510387	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	8	129043256	C	T	8261	-0.25	0.06	0.00	0.00	20.05
rs3858296	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	10	128535685	G	C	8261	0.07	0.02	0.00	0.00	20.46
rs925872	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	11	28734874	G	C	8261	0.07	0.02	0.00	0.00	19.76
rs10843287	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	12	28965843	T	C	8261	-0.07	0.01	0.00	0.00	20.24
rs61928287	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	12	32531019	A	G	8261	-0.14	0.03	0.00	0.00	25.82
rs1373567	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	13	43271845	G	A	8261	0.10	0.02	0.00	0.00	27.84
rs4771474	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	13	104304000	G	C	8261	0.07	0.02	0.00	0.00	21.45
rs12592072	5-methylthioadenosine (MTA) to 5-phosphate	GCST90200801	15	100328596	G	T	8261	0.18	0.04	0.00	0.00	20.06

rs734022	5-methylthioadenosine (MTA) to phosphatase 5-	GCST90200801	16	12438692	T	C	8261	0.07	0.02	0.00	0.00	21.85
rs41278174	5-methylthioadenosine (MTA) to phosphatase 5-	GCST90200801	16	16165739	A	G	8261	0.24	0.05	0.00	0.00	25.54
rs212469	5-methylthioadenosine (MTA) to phosphatase 5-	GCST90200801	17	34397322	A	C	8261	0.07	0.02	0.00	0.00	22.03
rs1791343	5-methylthioadenosine (MTA) to phosphatase 5-	GCST90200801	18	59692151	A	C	8261	-0.11	0.02	0.00	0.00	19.58
rs78246962	5-methylthioadenosine (MTA) to phosphatase 5-	GCST90200801	18	63311746	T	C	8261	0.24	0.05	0.00	0.00	20.40
rs75878881	5-methylthioadenosine (MTA) to phosphatase 5-	GCST90200801	19	6356860	A	C	8261	0.22	0.05	0.00	0.00	22.73
rs6064897	5-methylthioadenosine (MTA) to phosphatase 5-	GCST90200801	20	60140985	T	C	8261	0.07	0.01	0.00	0.00	21.06
rs1260326	Histidine to pyruvate ratio	GCST90200802	2	27508073	C	T	8241	0.10	0.02	0.00	0.00	39.10
rs6742589	Histidine to pyruvate ratio	GCST90200802	2	40413021	T	C	8241	-0.09	0.02	0.00	0.00	23.44
rs13001387	Histidine to pyruvate ratio	GCST90200802	2	56034590	T	A	8241	-0.07	0.02	0.00	0.00	20.95
rs62175693	Histidine to pyruvate ratio	GCST90200802	2	168803110	C	A	8241	-0.23	0.05	0.00	0.00	21.87
rs10931943	Histidine to pyruvate ratio	GCST90200802	2	201378238	A	G	8241	-0.07	0.02	0.00	0.00	19.79
rs185423687	Histidine to pyruvate ratio	GCST90200802	3	5219513	T	C	8241	0.36	0.08	0.00	0.00	20.33
rs7648958	Histidine to pyruvate ratio	GCST90200802	3	15579636	A	G	8241	-0.11	0.02	0.00	0.00	23.47
rs79585763	Histidine to pyruvate ratio	GCST90200802	4	71391738	T	A	8241	0.14	0.03	0.00	0.00	21.09
rs72790279	Histidine to pyruvate ratio	GCST90200802	5	119659969	A	G	8241	0.11	0.02	0.00	0.00	21.96
rs55712631	Histidine to pyruvate ratio	GCST90200802	5	178000571	A	G	8241	-0.12	0.03	0.00	0.00	21.36
rs143092914	Histidine to pyruvate ratio	GCST90200802	6	152606933	T	C	8241	-0.19	0.04	0.00	0.00	25.30
rs139522408	Histidine to pyruvate ratio	GCST90200802	7	149408601	A	C	8241	-0.67	0.13	0.00	0.00	27.39
rs9792562	Histidine to pyruvate ratio	GCST90200802	9	18307172	C	T	8241	-0.09	0.02	0.00	0.00	30.32
rs2502924	Histidine to pyruvate ratio	GCST90200802	9	30803339	T	A	8241	0.09	0.02	0.00	0.00	21.81
rs56024660	Histidine to pyruvate ratio	GCST90200802	10	126156535	A	G	8241	-0.12	0.03	0.00	0.00	21.10
rs143350489	Histidine to pyruvate ratio	GCST90200802	11	12789882	T	G	8241	-0.23	0.05	0.00	0.00	21.21
rs73022569	Histidine to pyruvate ratio	GCST90200802	11	126793138	C	A	8241	-0.27	0.06	0.00	0.00	19.82
rs77170467	Histidine to pyruvate ratio	GCST90200802	12	113742585	T	C	8241	0.50	0.11	0.00	0.00	19.89
rs4905781	Histidine to pyruvate ratio	GCST90200802	14	42513498	G	A	8241	0.07	0.02	0.00	0.00	20.96
rs6501099	Histidine to pyruvate ratio	GCST90200802	16	8359943	C	G	8241	0.11	0.02	0.00	0.00	19.74
rs57538453	Histidine to pyruvate ratio	GCST90200802	16	86960750	C	G	8241	-0.25	0.05	0.00	0.00	22.23
rs77525865	Histidine to pyruvate ratio	GCST90200802	17	10017062	C	T	8241	0.11	0.02	0.00	0.00	20.63
rs79888339	Histidine to pyruvate ratio	GCST90200802	17	35349522	T	C	8241	0.29	0.07	0.00	0.00	20.03

rs140850460	Histidine to pyruvate ratio	GCST90200802	19	33888099	T	C	8241	-0.32	0.07	0.00	0.00	22.62
rs74970748	Histidine to pyruvate ratio	GCST90200802	19	55239008	C	G	8241	-0.12	0.03	0.00	0.00	20.06
rs147905737	Spermidine to phosphate	GCST90200803	1	77539705	T	C	7382	0.30	0.06	0.00	0.00	21.70
rs3811444	Spermidine to phosphate	GCST90200803	1	247876149	T	C	7382	0.10	0.02	0.00	0.00	36.76
rs4485566	Spermidine to phosphate	GCST90200803	2	18896620	G	C	7382	0.08	0.02	0.00	0.00	20.03
rs17264905	Spermidine to phosphate	GCST90200803	3	236063	A	G	7382	0.13	0.03	0.00	0.00	20.32
rs1354034	Spermidine to phosphate	GCST90200803	3	56815721	C	T	7382	0.09	0.02	0.00	0.00	26.57
rs141903875	Spermidine to phosphate	GCST90200803	3	75396483	G	C	7382	0.19	0.04	0.00	0.00	20.74
rs10516171	Spermidine to phosphate	GCST90200803	4	4981536	C	A	7382	0.08	0.02	0.00	0.00	19.57
rs116095400	Spermidine to phosphate	GCST90200803	5	76041706	T	C	7382	-0.31	0.06	0.00	0.00	25.93
rs2914702	Spermidine to phosphate	GCST90200803	5	109427088	T	A	7382	-0.07	0.02	0.00	0.00	20.74
rs12212502	Spermidine to phosphate	GCST90200803	6	103597090	C	A	7382	0.11	0.02	0.00	0.00	21.32
rs183114498	Spermidine to phosphate	GCST90200803	7	91430227	T	G	7382	0.29	0.06	0.00	0.00	19.67
rs118145575	Spermidine to phosphate	GCST90200803	10	81349580	C	A	7382	0.27	0.06	0.00	0.00	20.46
rs56093448	Spermidine to phosphate	GCST90200803	11	261209	T	C	7382	0.09	0.02	0.00	0.00	22.31
rs79114739	Spermidine to phosphate	GCST90200803	11	123459076	T	G	7382	0.26	0.05	0.00	0.00	22.44
rs1963512	Spermidine to phosphate	GCST90200803	12	27263365	T	C	7382	0.09	0.02	0.00	0.00	22.11
rs189789182	Spermidine to phosphate	GCST90200803	13	61850409	T	C	7382	-0.35	0.08	0.00	0.00	19.65
rs116844331	Spermidine to phosphate	GCST90200803	14	67608026	T	C	7382	0.44	0.09	0.00	0.00	24.01
rs141586656	Spermidine to phosphate	GCST90200803	16	67577329	G	A	7382	-0.31	0.07	0.00	0.00	21.65
rs8075810	Spermidine to phosphate	GCST90200803	17	41091848	C	A	7382	-0.14	0.03	0.00	0.00	20.89
rs528859	Spermidine to phosphate	GCST90200803	18	79786861	T	C	7382	-0.08	0.02	0.00	0.00	23.06
rs193281332	Spermidine to phosphate	GCST90200803	22	26545961	T	C	7382	0.40	0.09	0.00	0.00	21.28
rs3811444	Spermidine to pyruvate ratio	GCST90200804	1	247876149	T	C	7296	0.10	0.02	0.00	0.00	36.54
rs78708293	Spermidine to pyruvate ratio	GCST90200804	4	7229623	A	G	7296	0.32	0.07	0.00	0.00	20.10
rs140613663	Spermidine to pyruvate ratio	GCST90200804	6	37031705	C	T	7296	0.15	0.03	0.00	0.00	20.59
rs62454450	Spermidine to pyruvate ratio	GCST90200804	7	27196009	A	G	7296	0.38	0.08	0.00	0.00	20.22
rs377749880	Spermidine to pyruvate ratio	GCST90200804	7	102076399	T	A	7296	1.80	0.41	0.00	0.00	19.62
rs2398822	Spermidine to pyruvate ratio	GCST90200804	9	93239191	T	C	7296	0.08	0.02	0.00	0.00	20.15
rs144557514	Spermidine to pyruvate ratio	GCST90200804	13	18813958	T	G	7296	-0.36	0.08	0.00	0.00	21.29
rs66959455	Spermidine to pyruvate ratio	GCST90200804	13	65710704	T	C	7296	0.10	0.02	0.00	0.00	27.98
rs117407027	Spermidine to pyruvate ratio	GCST90200804	14	24962928	A	G	7296	0.27	0.06	0.00	0.00	19.64
rs810193	Spermidine to pyruvate ratio	GCST90200804	14	35012816	A	G	7296	-0.11	0.02	0.00	0.00	21.13
rs8026200	Spermidine to pyruvate ratio	GCST90200804	15	32906438	T	C	7296	-0.18	0.04	0.00	0.00	25.47
rs2895953	Spermidine to pyruvate ratio	GCST90200804	15	84014154	G	C	7296	0.08	0.02	0.00	0.00	23.14
rs12441481	Spermidine to pyruvate ratio	GCST90200804	15	97218494	A	G	7296	0.09	0.02	0.00	0.00	20.91
rs419949	Spermidine to pyruvate ratio	GCST90200804	16	284890	A	G	7296	0.09	0.02	0.00	0.00	19.67

rs11348188 2	Spermidine to pyruvate ratio	GCST90200804	16	27186837	A	G	7296	0.16	0.03	0.00	0.00	22.37
rs72799097	Spermidine to pyruvate ratio	GCST90200804	16	78724717	G	A	7296	0.32	0.07	0.00	0.00	21.77
rs62060100	Spermidine to pyruvate ratio	GCST90200804	17	50293588	C	T	7296	0.23	0.05	0.00	0.00	23.66
rs13797810 5	Spermidine to carnitine ratio	GCST90200805	1	77534190	T	C	7338	0.31	0.07	0.00	0.00	22.30
rs618191	Spermidine to carnitine ratio	GCST90200805	1	109676500	T	C	7338	-0.08	0.02	0.00	0.00	20.48
rs3811444	Spermidine to carnitine ratio	GCST90200805	1	247876149	T	C	7338	0.11	0.02	0.00	0.01	38.40
rs14987234 4	Spermidine to carnitine ratio	GCST90200805	2	25449047	G	C	7338	0.40	0.09	0.00	0.00	20.38
rs1354034	Spermidine to carnitine ratio	GCST90200805	3	56815721	C	T	7338	0.08	0.02	0.00	0.00	25.24
rs13158751	Spermidine to carnitine ratio	GCST90200805	5	29899376	C	T	7338	0.08	0.02	0.00	0.00	19.57
rs7832484	Spermidine to carnitine ratio	GCST90200805	8	2763809	T	A	7338	-0.11	0.02	0.00	0.00	20.00
rs6985978	Spermidine to carnitine ratio	GCST90200805	8	65256615	A	G	7338	0.10	0.02	0.00	0.00	26.26
rs11790144	Spermidine to carnitine ratio	GCST90200805	9	91869703	A	C	7338	0.08	0.02	0.00	0.00	20.29
rs1171617	Spermidine to carnitine ratio	GCST90200805	10	59707424	T	G	7338	-0.18	0.02	0.00	0.01	83.64
rs2178798	Spermidine to carnitine ratio	GCST90200805	11	254869	C	G	7338	0.08	0.02	0.00	0.00	20.71
rs6592482	Spermidine to carnitine ratio	GCST90200805	11	72725324	T	C	7338	0.83	0.18	0.00	0.00	20.25
rs14202837 1	Spermidine to carnitine ratio	GCST90200805	11	132555319	T	C	7338	-0.29	0.07	0.00	0.00	19.75
rs1963511	Spermidine to carnitine ratio	GCST90200805	12	27263349	T	G	7338	0.09	0.02	0.00	0.00	24.65
rs35608757	Spermidine to carnitine ratio	GCST90200805	12	132162627	A	G	7338	-0.12	0.03	0.00	0.00	19.58
rs11148415	Spermidine to carnitine ratio	GCST90200805	13	57692480	G	C	7338	0.08	0.02	0.00	0.00	19.83
rs78035101	Spermidine to carnitine ratio	GCST90200805	13	80586571	C	T	7338	0.33	0.07	0.00	0.00	20.98
rs76123608	Spermidine to carnitine ratio	GCST90200805	13	91179563	T	C	7338	0.23	0.05	0.00	0.00	20.32
rs78666405	Spermidine to carnitine ratio	GCST90200805	14	30172545	A	G	7338	-0.25	0.06	0.00	0.00	19.75
rs11684433 1	Spermidine to carnitine ratio	GCST90200805	14	67608026	T	C	7338	0.49	0.09	0.00	0.00	28.69
rs526823	Spermidine to carnitine ratio	GCST90200805	15	53088537	C	G	7338	0.10	0.02	0.00	0.00	21.47
rs528859	Spermidine to carnitine ratio	GCST90200805	18	79786861	T	C	7338	-0.08	0.02	0.00	0.00	22.49
rs11578757	ergothioneine ratio	GCST90200806	1	14198613	T	G	7291	0.09	0.02	0.00	0.00	24.06
rs73047623	Spermidine to ergothioneine ratio	GCST90200806	1	180583195	G	A	7291	-0.10	0.02	0.00	0.00	21.56
rs7526451	Spermidine to ergothioneine ratio	GCST90200806	1	237014935	A	C	7291	-0.10	0.02	0.00	0.00	21.02
rs3811444	Spermidine to ergothioneine ratio	GCST90200806	1	247876149	T	C	7291	0.09	0.02	0.00	0.00	26.59
rs3769242	Spermidine to ergothioneine ratio	GCST90200806	2	172978475	T	C	7291	-0.17	0.04	0.00	0.00	22.31
rs1354034	Spermidine to ergothioneine ratio	GCST90200806	3	56815721	C	T	7291	0.08	0.02	0.00	0.00	20.88
rs11478707 3	Spermidine to ergothioneine ratio	GCST90200806	3	131035897	T	C	7291	0.33	0.07	0.00	0.00	20.23
rs11557989 4	Spermidine to ergothioneine ratio	GCST90200806	5	83742239	G	A	7291	0.37	0.08	0.00	0.00	20.23

rs200838	Spermidine to ergothioneine ratio	GCST90200806	5	132374707	C	A	7291	0.12	0.02	0.00	0.01	52.24
rs12210538	Spermidine to ergothioneine ratio	GCST90200806	6	110438805	G	A	7291	-0.16	0.02	0.00	0.01	72.36
rs9495271	Spermidine to ergothioneine ratio	GCST90200806	6	138841060	A	G	7291	-0.10	0.02	0.00	0.00	19.54
rs1317187	Spermidine to ergothioneine ratio	GCST90200806	8	52406064	A	C	7291	0.08	0.02	0.00	0.00	22.50
rs13889675 7	Spermidine to ergothioneine ratio	GCST90200806	8	102862888	A	C	7291	-0.40	0.09	0.00	0.00	20.47
rs62527304	Spermidine to ergothioneine ratio	GCST90200806	8	110148261	A	G	7291	0.16	0.04	0.00	0.00	20.49
rs14200836 3	Spermidine to ergothioneine ratio	GCST90200806	10	68572720	T	G	7291	0.32	0.07	0.00	0.00	20.52
rs74929368	Spermidine to ergothioneine ratio	GCST90200806	11	4550372	A	G	7291	0.10	0.02	0.00	0.00	21.56
rs11771124 3	Spermidine to ergothioneine ratio	GCST90200806	12	28980382	C	T	7291	-0.20	0.04	0.00	0.00	24.62
rs11615979	Spermidine to ergothioneine ratio	GCST90200806	12	130150147	T	C	7291	-0.08	0.02	0.00	0.00	19.61
rs6035704	Spermidine to ergothioneine ratio	GCST90200806	20	20824748	C	A	7291	0.07	0.02	0.00	0.00	20.18
rs4818889	Spermidine to ergothioneine ratio	GCST90200806	21	44225425	G	A	7291	-1.56	0.33	0.00	0.00	22.43
rs11653606 6	Carnitine to ergothioneine ratio	GCST90200807	1	106641270	A	G	8110	0.14	0.03	0.00	0.00	22.18
rs62186335	Carnitine to ergothioneine ratio	GCST90200807	2	212611157	T	C	8110	0.09	0.02	0.00	0.00	20.25
rs35634760	Carnitine to ergothioneine ratio	GCST90200807	3	25363159	T	G	8110	-0.21	0.05	0.00	0.00	20.89
rs2049011	Carnitine to ergothioneine ratio	GCST90200807	3	32830821	A	T	8110	0.07	0.02	0.00	0.00	21.41
rs9829222	Carnitine to ergothioneine ratio	GCST90200807	3	175953365	T	C	8110	0.09	0.02	0.00	0.00	22.05
rs10062061	Carnitine to ergothioneine ratio	GCST90200807	5	27837487	A	C	8110	-0.08	0.02	0.00	0.00	21.93
rs6859544	Carnitine to ergothioneine ratio	GCST90200807	5	79015054	C	G	8110	-0.08	0.02	0.00	0.00	21.40
rs14656186 2	Carnitine to ergothioneine ratio	GCST90200807	5	122821494	T	C	8110	0.29	0.06	0.00	0.00	21.50
rs273913	Carnitine to ergothioneine ratio	GCST90200807	5	132325463	C	T	8110	-0.19	0.02	0.00	0.02	139.50
rs12210538	Carnitine to ergothioneine ratio	GCST90200807	6	110438805	G	A	8110	-0.21	0.02	0.00	0.02	133.76
rs55867525	Carnitine to ergothioneine ratio	GCST90200807	7	37232014	A	G	8110	-0.11	0.02	0.00	0.00	19.56
rs28635315	Carnitine to ergothioneine ratio	GCST90200807	7	155333721	A	C	8110	-0.11	0.02	0.00	0.00	20.19

rs76584991	Carnitine to ergothioneine ratio	GCST90200807	8	28304355	C	A	8110	0.22	0.05	0.00	0.00	22.60
rs1317187	Carnitine to ergothioneine ratio	GCST90200807	8	52406064	A	C	8110	0.07	0.02	0.00	0.00	19.98
rs75173598	Carnitine to ergothioneine ratio	GCST90200807	10	19714634	T	A	8110	-0.15	0.03	0.00	0.00	23.77
rs1171615	Carnitine to ergothioneine ratio	GCST90200807	10	59709332	T	C	8110	0.13	0.02	0.00	0.01	50.61
rs10829750	Carnitine to ergothioneine ratio	GCST90200807	10	130485166	A	T	8110	-0.09	0.02	0.00	0.00	22.42
rs1133458	Carnitine to ergothioneine ratio	GCST90200807	17	45238180	A	G	8110	0.10	0.02	0.00	0.00	20.84
rs117602803	Carnitine to ergothioneine ratio	GCST90200807	17	73815449	T	C	8110	-0.13	0.03	0.00	0.00	20.88
rs145269629	Carnitine to ergothioneine ratio	GCST90200807	19	14879355	A	G	8110	0.32	0.07	0.00	0.00	20.44
rs117170129	Carnitine to ergothioneine ratio	GCST90200807	20	40042555	G	A	8110	-0.30	0.07	0.00	0.00	20.19
rs2836911	Carnitine to ergothioneine ratio	GCST90200807	21	39134123	A	G	8110	-0.09	0.02	0.00	0.00	26.33
rs3811444	Spermidine to choline ratio	GCST90200808	1	247876149	T	C	7295	0.10	0.02	0.00	0.00	35.71
rs72780363	Spermidine to choline ratio	GCST90200808	2	23586021	A	G	7295	-0.36	0.08	0.00	0.00	21.83
rs140777322	Spermidine to choline ratio	GCST90200808	2	51280618	G	A	7295	0.28	0.06	0.00	0.00	20.79
rs6719797	Spermidine to choline ratio	GCST90200808	2	168348362	G	A	7295	-0.07	0.02	0.00	0.00	19.70
rs1387212	Spermidine to choline ratio	GCST90200808	3	25811092	C	T	7295	0.17	0.03	0.00	0.00	25.16
rs1354034	Spermidine to choline ratio	GCST90200808	3	56815721	C	T	7295	0.08	0.02	0.00	0.00	21.52
rs144977626	Spermidine to choline ratio	GCST90200808	3	148784541	A	G	7295	-0.13	0.03	0.00	0.00	28.14
rs78708293	Spermidine to choline ratio	GCST90200808	4	7229623	A	G	7295	0.31	0.07	0.00	0.00	19.93
rs142556011	Spermidine to choline ratio	GCST90200808	4	43786897	C	G	7295	-0.40	0.08	0.00	0.00	27.61
rs2394392	Spermidine to choline ratio	GCST90200808	6	30682541	G	T	7295	-0.16	0.04	0.00	0.00	19.65
rs77486380	Spermidine to choline ratio	GCST90200808	6	138325346	C	T	7295	-0.18	0.04	0.00	0.00	21.07
rs74493226	Spermidine to choline ratio	GCST90200808	6	151966712	T	G	7295	-0.21	0.04	0.00	0.00	21.32
rs13217172	Spermidine to choline ratio	GCST90200808	6	168527306	T	C	7295	0.08	0.02	0.00	0.00	19.57
rs118145575	Spermidine to choline ratio	GCST90200808	10	81349580	C	A	7295	0.27	0.06	0.00	0.00	19.91
rs12817181	Spermidine to choline ratio	GCST90200808	12	19396066	C	G	7295	0.12	0.03	0.00	0.00	20.47
rs146098104	Spermidine to choline ratio	GCST90200808	14	67605692	T	A	7295	0.48	0.09	0.00	0.00	26.36
rs117167525	Spermidine to choline ratio	GCST90200808	16	10049160	G	A	7295	0.25	0.06	0.00	0.00	19.80
rs140559674	Spermidine to taurocholate ratio	GCST90200809	2	192936088	G	A	6777	0.40	0.09	0.00	0.00	20.27
rs13180309	Spermidine to taurocholate ratio	GCST90200809	5	36789899	G	A	6777	-0.08	0.02	0.00	0.00	19.67
rs114099149	Spermidine to taurocholate ratio	GCST90200809	5	160439998	T	A	6777	0.42	0.09	0.00	0.00	23.07

rs6960350	Spermidine to taurocholate ratio	GCST90200809	7	32009045	G	A	6777	-0.09	0.02	0.00	0.00	20.22
rs79931337	Spermidine to taurocholate ratio	GCST90200809	7	110842497	G	C	6777	-0.29	0.06	0.00	0.00	20.43
rs78555047	Spermidine to taurocholate ratio	GCST90200809	7	121645054	C	A	6777	0.18	0.04	0.00	0.00	22.49
rs10952376	Spermidine to taurocholate ratio	GCST90200809	7	152962972	A	C	6777	-0.09	0.02	0.00	0.00	20.25
rs34640696	Spermidine to taurocholate ratio	GCST90200809	8	57787903	A	G	6777	-0.09	0.02	0.00	0.00	19.62
rs2911730	Spermidine to taurocholate ratio	GCST90200809	8	71680771	T	C	6777	0.14	0.03	0.00	0.00	20.12
rs10094942	Spermidine to taurocholate ratio	GCST90200809	8	102389877	G	A	6777	0.15	0.03	0.00	0.00	19.70
rs117045459	Spermidine to taurocholate ratio	GCST90200809	10	30844772	G	A	6777	0.18	0.04	0.00	0.00	19.51
rs896436	Spermidine to taurocholate ratio	GCST90200809	11	67013792	G	A	6777	-0.08	0.02	0.00	0.00	19.99
rs116979815	Spermidine to taurocholate ratio	GCST90200809	15	43221380	G	T	6777	0.58	0.13	0.00	0.00	19.71
rs76149982	Spermidine to taurocholate ratio	GCST90200809	17	10808360	A	C	6777	0.16	0.03	0.00	0.00	25.73
rs34405330	Spermidine to taurocholate ratio	GCST90200809	17	30354925	G	A	6777	-0.09	0.02	0.00	0.00	22.01
rs117409421	Spermidine to taurocholate ratio	GCST90200809	19	52505874	G	A	6777	0.24	0.05	0.00	0.00	24.19
rs73203029	Spermidine to taurocholate ratio	GCST90200809	21	34987852	T	C	6777	0.23	0.05	0.00	0.00	20.37
rs75831505	Spermidine to taurocholate ratio	GCST90200809	22	22537373	T	C	6777	0.21	0.04	0.00	0.00	22.99
rs61825638	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	1	241550102	T	C	8272	-0.09	0.02	0.00	0.00	23.46
rs77497338	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	2	36239086	T	C	8272	0.11	0.02	0.00	0.00	25.07
rs11886689	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	2	129973557	C	T	8272	-0.30	0.07	0.00	0.00	20.54
rs187677619	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	2	204373082	T	A	8272	-0.45	0.10	0.00	0.00	19.60
rs34918453	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	3	1120255	G	A	8272	0.07	0.02	0.00	0.00	19.78
rs55650230	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	3	24792164	C	T	8272	-0.21	0.04	0.00	0.00	24.15
rs9990042	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	3	74049644	G	A	8272	-0.11	0.02	0.00	0.00	21.69

rs12635337	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	3	110680134	C	G	8272	-0.43	0.09	0.00	0.00	22.16
rs2141710	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	5	30844003	A	T	8272	-0.16	0.03	0.00	0.00	21.94
rs11948040	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	5	66665489	G	A	8272	0.08	0.02	0.00	0.00	21.06
rs7013824	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	8	39950906	G	A	8272	0.08	0.02	0.00	0.00	26.24
rs16936631	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	9	18378114	A	G	8272	0.43	0.10	0.00	0.00	20.43
rs11720356 2	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	9	129374530	A	G	8272	0.26	0.06	0.00	0.00	19.58
rs12357482	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	10	133041047	C	G	8272	-0.08	0.02	0.00	0.00	21.13
rs12792443	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	11	92311049	C	T	8272	0.23	0.05	0.00	0.00	20.16
rs4938592	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	11	111427372	T	C	8272	-0.08	0.02	0.00	0.00	23.39
rs75680401	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	12	49585884	A	G	8272	0.55	0.12	0.00	0.00	20.24
rs11065979	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	12	111621753	T	C	8272	-0.08	0.02	0.00	0.00	26.36
rs12876236	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	13	83911784	C	T	8272	0.27	0.06	0.00	0.00	21.33
rs18582682 6	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	14	91303357	T	C	8272	0.35	0.07	0.00	0.00	27.00
rs13962120 4	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	15	23726840	T	C	8272	-0.34	0.07	0.00	0.00	21.80
rs6540080	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	16	87784963	A	G	8272	0.08	0.02	0.00	0.00	23.56
rs4843270	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	16	87844466	A	C	8272	-0.14	0.02	0.00	0.01	63.42
rs17729572	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	18	62509991	T	C	8272	0.16	0.03	0.00	0.00	25.24
rs10416495	Alpha- ketoglutarate to kynurenine ratio	GCST90200810	19	39821472	C	T	8272	0.07	0.02	0.00	0.00	19.85

rs6124830	Alpha-ketoglutarate to kynurenine ratio	GCST90200810	20	46608139	C	T	8272	0.17	0.02	0.00	0.01	77.78
rs144490085	Choline to taurocholate ratio	GCST90200811	1	185613786	A	G	7625	0.39	0.09	0.00	0.00	19.68
rs34212586	Choline to taurocholate ratio	GCST90200811	2	47341802	T	C	7625	0.10	0.02	0.00	0.00	21.28
rs56326229	Choline to taurocholate ratio	GCST90200811	3	8682084	C	G	7625	-0.30	0.06	0.00	0.00	21.08
rs72960519	Choline to taurocholate ratio	GCST90200811	4	160400285	G	A	7625	-0.10	0.02	0.00	0.00	24.02
rs13180309	Choline to taurocholate ratio	GCST90200811	5	36789899	G	A	7625	-0.08	0.02	0.00	0.00	22.82
rs335170	Choline to taurocholate ratio	GCST90200811	5	123146549	C	A	7625	0.08	0.02	0.00	0.00	22.71
rs150033131	Choline to taurocholate ratio	GCST90200811	6	102980285	G	C	7625	-0.46	0.10	0.00	0.00	22.66
rs76100534	Choline to taurocholate ratio	GCST90200811	7	7095962	G	A	7625	-0.10	0.02	0.00	0.00	20.75
rs79931337	Choline to taurocholate ratio	GCST90200811	7	110842497	G	C	7625	-0.27	0.06	0.00	0.00	20.32
rs2060717	Choline to taurocholate ratio	GCST90200811	7	128740695	A	G	7625	-0.20	0.04	0.00	0.00	28.51
rs10952376	Choline to taurocholate ratio	GCST90200811	7	152962972	A	C	7625	-0.08	0.02	0.00	0.00	21.92
rs28723382	Choline to taurocholate ratio	GCST90200811	8	119859841	T	C	7625	0.25	0.06	0.00	0.00	20.17
rs7853500	Choline to taurocholate ratio	GCST90200811	9	117384146	G	C	7625	0.08	0.02	0.00	0.00	19.89
rs73292524	Choline to taurocholate ratio	GCST90200811	10	76420368	G	A	7625	-0.18	0.04	0.00	0.00	20.07
rs141105780	Choline to taurocholate ratio	GCST90200811	11	61178427	G	T	7625	-0.37	0.08	0.00	0.00	22.75
rs188255354	Choline to taurocholate ratio	GCST90200811	11	121181254	T	C	7625	-0.41	0.09	0.00	0.00	23.00
rs17352162	Choline to taurocholate ratio	GCST90200811	15	48370321	C	T	7625	-0.24	0.05	0.00	0.00	22.69
rs4774444	Choline to taurocholate ratio	GCST90200811	15	62639603	T	C	7625	0.24	0.05	0.00	0.00	19.55
rs113867701	Choline to taurocholate ratio	GCST90200811	16	64529200	G	C	7625	-0.39	0.07	0.00	0.00	31.41
rs76149982	Choline to taurocholate ratio	GCST90200811	17	10808360	A	C	7625	0.17	0.03	0.00	0.00	32.91
rs113132408	Choline to taurocholate ratio	GCST90200811	17	35959906	T	C	7625	0.45	0.10	0.00	0.00	19.84
rs2865077	Choline to taurocholate ratio	GCST90200811	19	2261022	A	T	7625	0.08	0.02	0.00	0.00	21.38
rs117409421	Choline to taurocholate ratio	GCST90200811	19	52505874	G	A	7625	0.22	0.05	0.00	0.00	23.14

rs62206283	Choline to taurocholate ratio	GCST90200811	20	31853669	G	A	7625	0.19	0.04	0.00	0.00	26.38
rs2426643	Choline to taurocholate ratio	GCST90200811	20	56717423	G	A	7625	0.09	0.02	0.00	0.00	30.07
rs76683575	Glutamate to kynurenine ratio	GCST90200812	1	15004371	G	A	8184	-0.22	0.05	0.00	0.00	21.54
rs72702247	Glutamate to kynurenine ratio	GCST90200812	1	155023444	A	G	8184	-0.39	0.09	0.00	0.00	19.78
rs74631369	Glutamate to kynurenine ratio	GCST90200812	2	186736920	G	A	8184	0.19	0.04	0.00	0.00	20.28
rs75223233	Glutamate to kynurenine ratio	GCST90200812	3	131756467	A	C	8184	0.21	0.04	0.00	0.00	20.99
rs12501448	Glutamate to kynurenine ratio	GCST90200812	4	40670288	A	G	8184	-0.07	0.02	0.00	0.00	19.95
rs72702103	Glutamate to kynurenine ratio	GCST90200812	4	179430265	T	G	8184	0.11	0.02	0.00	0.00	24.03
rs62354638	Glutamate to kynurenine ratio	GCST90200812	5	36638487	A	G	8184	-0.27	0.04	0.00	0.00	38.65
rs18539397 7	Glutamate to kynurenine ratio	GCST90200812	5	67930431	T	C	8184	0.32	0.07	0.00	0.00	21.64
rs2029164	Glutamate to kynurenine ratio	GCST90200812	5	177469411	A	G	8184	-0.16	0.03	0.00	0.00	21.76
rs14886711 7	Glutamate to kynurenine ratio	GCST90200812	6	123562165	T	C	8184	-0.30	0.07	0.00	0.00	20.69
rs59194588	Glutamate to kynurenine ratio	GCST90200812	7	53931477	A	G	8184	0.11	0.02	0.00	0.00	22.39
rs62493851	Glutamate to kynurenine ratio	GCST90200812	8	19389257	C	G	8184	-0.07	0.02	0.00	0.00	21.27
rs28587335	Glutamate to kynurenine ratio	GCST90200812	8	28607929	G	C	8184	0.09	0.02	0.00	0.00	19.59
rs10104997	Glutamate to kynurenine ratio	GCST90200812	8	54527508	T	C	8184	0.09	0.02	0.00	0.00	22.96
rs2567309	Glutamate to kynurenine ratio	GCST90200812	9	101190834	G	A	8184	0.13	0.03	0.00	0.00	22.39
rs55715344	Glutamate to kynurenine ratio	GCST90200812	9	130562495	T	C	8184	0.07	0.02	0.00	0.00	19.72
rs2480790	Glutamate to kynurenine ratio	GCST90200812	10	114009013	A	C	8184	-0.08	0.02	0.00	0.00	24.46
rs14645649 4	Glutamate to kynurenine ratio	GCST90200812	11	69963621	C	T	8184	0.31	0.06	0.00	0.00	24.87
rs11722859 9	Glutamate to kynurenine ratio	GCST90200812	12	19715630	T	C	8184	-0.26	0.06	0.00	0.00	20.34
rs12099786	Glutamate to kynurenine ratio	GCST90200812	12	66944523	A	G	8184	-0.13	0.03	0.00	0.00	22.02
rs9549656	Glutamate to kynurenine ratio	GCST90200812	13	113071444	A	T	8184	0.09	0.02	0.00	0.00	22.17
rs6498990	Glutamate to kynurenine ratio	GCST90200812	16	52641140	G	A	8184	-0.10	0.02	0.00	0.00	26.06

rs7186542	Glutamate to kynurenine ratio	GCST90200812	16	87835368	G	C	8184	-0.09	0.02	0.00	0.00	28.18
rs77370813	Glutamate to kynurenine ratio	GCST90200812	17	17835607	T	C	8184	0.19	0.04	0.00	0.00	23.29
rs11138334 6	Glutamate to kynurenine ratio	GCST90200812	18	44632396	T	G	8184	0.15	0.03	0.00	0.00	21.11
rs77582550	Glutamate to kynurenine ratio	GCST90200812	19	46208818	T	C	8184	0.20	0.04	0.00	0.00	20.71
rs12144048	Ornithine to glutamate	GCST90200813	1	11182182	A	G	8202	0.22	0.05	0.00	0.00	21.90
rs78271719	Ornithine to glutamate	GCST90200813	2	84251671	G	A	8202	-0.14	0.03	0.00	0.00	20.22
rs1964459	Ornithine to glutamate	GCST90200813	2	136007504	G	C	8202	0.12	0.02	0.00	0.00	31.93
rs36088117	Ornithine to glutamate	GCST90200813	4	11876331	T	G	8202	-0.11	0.02	0.00	0.00	23.45
rs62354638	Ornithine to glutamate	GCST90200813	5	36638487	A	G	8202	0.25	0.04	0.00	0.00	34.35
rs13191846	Ornithine to glutamate	GCST90200813	6	43419332	A	G	8202	-0.07	0.01	0.00	0.00	22.07
rs9449426	Ornithine to glutamate	GCST90200813	6	82126290	T	G	8202	-0.08	0.02	0.00	0.00	19.76
rs38156	Ornithine to glutamate	GCST90200813	7	20004405	T	C	8202	-0.24	0.06	0.00	0.00	19.59
rs72684967	Ornithine to glutamate	GCST90200813	9	18251892	T	C	8202	-0.15	0.03	0.00	0.00	20.83
rs12684730	Ornithine to glutamate	GCST90200813	9	130976371	A	G	8202	0.09	0.02	0.00	0.00	21.01
rs11789143 1	Ornithine to glutamate	GCST90200813	11	23913732	C	T	8202	-0.14	0.03	0.00	0.00	20.72
rs72896032	Ornithine to glutamate	GCST90200813	11	32345847	C	T	8202	-0.24	0.05	0.00	0.00	21.57
rs11773406 4	Ornithine to glutamate	GCST90200813	12	61935625	C	G	8202	0.34	0.08	0.00	0.00	20.71
rs73142055	Ornithine to glutamate	GCST90200813	12	77899380	T	C	8202	-0.11	0.02	0.00	0.00	21.10
rs78674292	Ornithine to glutamate	GCST90200813	13	90402213	C	T	8202	-0.13	0.03	0.00	0.00	20.35
rs323471	Ornithine to glutamate	GCST90200813	13	104711838	A	C	8202	-0.09	0.02	0.00	0.00	21.18
rs72761210	Ornithine to glutamate	GCST90200813	15	100537611	G	C	8202	0.17	0.04	0.00	0.00	21.24
rs237670	Ornithine to glutamate	GCST90200813	16	1006111	A	G	8202	-0.12	0.03	0.00	0.00	19.51
rs61512806	Ornithine to glutamate	GCST90200813	16	58505176	C	A	8202	0.26	0.05	0.00	0.00	23.31
rs11722562 9	Ornithine to glutamate	GCST90200813	21	16773378	A	G	8202	0.20	0.04	0.00	0.00	20.96
rs11293927 2	Alpha- ketoglutarate to ornithine ratio	GCST90200814	1	107476870	C	T	8273	0.30	0.06	0.00	0.00	23.07
rs14016135 7	Alpha- ketoglutarate to ornithine ratio	GCST90200814	1	227179427	C	G	8273	0.15	0.03	0.00	0.00	22.85
rs15038449 4	Alpha- ketoglutarate to ornithine ratio	GCST90200814	2	151057909	A	T	8273	0.21	0.05	0.00	0.00	21.95
rs11639228 9	Alpha- ketoglutarate to ornithine ratio	GCST90200814	2	164353136	C	T	8273	0.36	0.08	0.00	0.00	21.19
rs14879670 5	Alpha- ketoglutarate to ornithine ratio	GCST90200814	3	50037870	A	G	8273	-0.28	0.06	0.00	0.00	19.55

rs1594325	Alpha- ketoglutarate to ornithine ratio	GCST90200814	3	149363890	C	A	8273	-0.07	0.02	0.00	0.00	21.16
rs56297003	Alpha- ketoglutarate to ornithine ratio	GCST90200814	4	25792485	C	A	8273	0.07	0.02	0.00	0.00	21.62
rs14970104 6	Alpha- ketoglutarate to ornithine ratio	GCST90200814	4	182237064	G	A	8273	-0.23	0.05	0.00	0.00	19.54
rs15130459 5	Alpha- ketoglutarate to ornithine ratio	GCST90200814	4	185471787	A	C	8273	-0.34	0.07	0.00	0.00	23.22
rs11630650 6	Alpha- ketoglutarate to ornithine ratio	GCST90200814	5	36432412	A	G	8273	0.23	0.05	0.00	0.00	19.82
rs1820048	Alpha- ketoglutarate to ornithine ratio	GCST90200814	5	107777694	G	A	8273	-0.11	0.02	0.00	0.00	21.63
rs1205025	Alpha- ketoglutarate to ornithine ratio	GCST90200814	6	3598958	G	T	8273	-0.07	0.02	0.00	0.00	20.44
rs11277135 5	Alpha- ketoglutarate to ornithine ratio	GCST90200814	6	25461153	G	A	8273	-0.47	0.10	0.00	0.00	23.86
rs17788484	Alpha- ketoglutarate to ornithine ratio	GCST90200814	6	131573218	T	C	8273	-0.28	0.06	0.00	0.00	24.98
rs319319	Alpha- ketoglutarate to ornithine ratio	GCST90200814	7	96016812	C	G	8273	-0.07	0.02	0.00	0.00	21.44
rs15054081 9	Alpha- ketoglutarate to ornithine ratio	GCST90200814	14	70654557	A	T	8273	0.31	0.07	0.00	0.00	20.42
rs79452966	Alpha- ketoglutarate to ornithine ratio	GCST90200814	15	52690679	C	T	8273	0.32	0.07	0.00	0.00	20.15
rs11857967	Alpha- ketoglutarate to ornithine ratio	GCST90200814	15	62927144	G	C	8273	-0.18	0.04	0.00	0.00	21.22
rs75699923	Alpha- ketoglutarate to ornithine ratio	GCST90200814	18	35024080	G	A	8273	0.29	0.06	0.00	0.00	21.37
rs794455	Alpha- ketoglutarate to ornithine ratio	GCST90200814	19	7895031	G	A	8273	-0.07	0.02	0.00	0.00	21.13
rs67583123	Alpha- ketoglutarate to ornithine ratio	GCST90200814	20	18138847	T	C	8273	-0.08	0.02	0.00	0.00	22.13
rs6124830	Alpha- ketoglutarate to ornithine ratio	GCST90200814	20	46608139	C	T	8273	0.13	0.02	0.00	0.01	43.30
rs62215811	Alpha- ketoglutarate to ornithine ratio	GCST90200814	20	52224951	A	T	8273	0.09	0.02	0.00	0.00	22.20

rs7533798	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	1	3209915	C	T	4488	0.62	0.13	0.00	0.01	22.58
rs941123	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	1	53639691	C	G	4488	0.12	0.02	0.00	0.01	24.28
rs10911514	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	1	184131715	G	T	4488	0.10	0.02	0.00	0.00	21.50
rs114664261	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	2	21187143	T	A	4488	0.38	0.08	0.00	0.00	19.78
rs7651160	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	3	41021511	C	T	4488	0.11	0.03	0.00	0.00	19.53
rs61513143	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	3	155279844	T	C	4488	0.11	0.02	0.00	0.00	19.60
rs58224247	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	4	4639146	G	T	4488	-0.36	0.08	0.00	0.00	19.95
rs7694542	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	4	69566970	A	T	4488	0.10	0.02	0.00	0.00	21.55
rs66523245	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	5	120446171	G	T	4488	-0.11	0.02	0.00	0.00	20.83
rs112948355	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	6	73448437	C	T	4488	0.33	0.07	0.00	0.00	19.77
rs78505750	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	7	24769136	G	A	4488	-0.34	0.08	0.00	0.00	20.51
rs73175448	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	7	84642263	T	C	4488	-0.23	0.05	0.00	0.00	21.69

rs75357232	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	8	20583937	G	A	4488	0.19	0.04	0.00	0.00	21.01
rs78472917	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	8	143476425	G	C	4488	-0.17	0.04	0.00	0.00	19.84
rs2381725	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	9	37756741	C	T	4488	-0.41	0.09	0.00	0.00	22.43
rs117341997	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	10	7272645	A	G	4488	-0.75	0.15	0.00	0.01	26.02
rs77255995	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	10	111289600	A	G	4488	-0.23	0.05	0.00	0.00	20.01
rs12293653	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	11	42838568	A	G	4488	0.17	0.04	0.00	0.00	20.12
rs7945076	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	11	69437615	A	G	4488	-0.69	0.15	0.00	0.00	21.51
rs3103872	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	11	130554415	T	A	4488	-0.10	0.02	0.00	0.00	19.85
rs59307700	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	12	4792039	C	T	4488	0.10	0.02	0.00	0.00	21.69
rs115562689	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	12	95356959	G	T	4488	0.14	0.03	0.00	0.00	22.24
rs139880079	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	15	57712557	T	C	4488	-0.33	0.07	0.00	0.00	20.93
rs9933107	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ADP) ratio	GCST90200815	16	53989604	T	G	4488	0.10	0.02	0.00	0.00	20.09

rs183426364	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ATP) ratio	GCST90200815	17	7168757	G	A	4488	-0.47	0.10	0.00	0.00	21.50
rs10405452	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ATP) ratio	GCST90200815	19	22347066	T	C	4488	-0.13	0.03	0.00	0.00	19.84
rs183245599	3-hydroxyisobutyrate to adenosine 5'-diphosphate (ATP) ratio Alpha-	GCST90200815	22	36143601	C	T	4488	-0.34	0.07	0.00	0.00	21.90
rs114685250	ketoglutarate to aspartate ratio Alpha-	GCST90200816	1	176705968	A	G	8272	-0.27	0.06	0.00	0.00	21.14
rs10169345	ketoglutarate to aspartate ratio Alpha-	GCST90200816	2	14932102	C	T	8272	-0.07	0.02	0.00	0.00	20.58
rs113158825	ketoglutarate to aspartate ratio Alpha-	GCST90200816	2	74597064	T	C	8272	-0.16	0.04	0.00	0.00	20.07
rs112600300	ketoglutarate to aspartate ratio Alpha-	GCST90200816	3	24913157	C	T	8272	0.12	0.03	0.00	0.00	20.07
rs1354034	ketoglutarate to aspartate ratio Alpha-	GCST90200816	3	56815721	C	T	8272	-0.16	0.02	0.00	0.01	106.78
rs77525786	ketoglutarate to aspartate ratio Alpha-	GCST90200816	4	41463209	G	A	8272	-0.20	0.04	0.00	0.00	26.50
rs60734369	ketoglutarate to aspartate ratio Alpha-	GCST90200816	4	109078026	A	G	8272	0.28	0.06	0.00	0.00	19.74
rs6873852	ketoglutarate to aspartate ratio Alpha-	GCST90200816	5	21873621	A	T	8272	0.38	0.09	0.00	0.00	19.85
rs192220613	ketoglutarate to aspartate ratio Alpha-	GCST90200816	5	67891496	A	G	8272	0.35	0.07	0.00	0.00	25.11
rs35958063	ketoglutarate to aspartate ratio Alpha-	GCST90200816	5	172144180	G	A	8272	-0.08	0.02	0.00	0.00	21.69
rs16893380	ketoglutarate to aspartate ratio Alpha-	GCST90200816	6	40340221	C	T	8272	0.11	0.02	0.00	0.00	21.78
rs1928072	ketoglutarate to aspartate ratio Alpha-	GCST90200816	6	101132434	C	A	8272	-0.23	0.05	0.00	0.00	21.63
rs13232168	ketoglutarate to aspartate ratio Alpha-	GCST90200816	7	155373111	A	C	8272	0.07	0.02	0.00	0.00	19.69
rs949757	ketoglutarate to aspartate ratio	GCST90200816	8	18428253	T	C	8272	-0.08	0.02	0.00	0.00	22.42

rs13277542	Alpha- ketoglutarate to aspartate ratio	GCST90200816	8	144522536	G	T	8272	-0.07	0.02	0.00	0.00	21.08
rs9696351	Alpha- ketoglutarate to aspartate ratio	GCST90200816	9	20139951	A	G	8272	-0.16	0.04	0.00	0.00	20.80
rs7112236	Alpha- ketoglutarate to aspartate ratio	GCST90200816	11	26631555	A	G	8272	-0.10	0.02	0.00	0.00	32.26
rs147768523	Alpha- ketoglutarate to aspartate ratio	GCST90200816	12	30794025	T	A	8272	-0.32	0.07	0.00	0.00	20.48
rs185350425	Alpha- ketoglutarate to aspartate ratio	GCST90200816	13	23128003	A	G	8272	0.13	0.03	0.00	0.00	20.14
rs732912	Alpha- ketoglutarate to aspartate ratio	GCST90200816	14	89682705	A	G	8272	-0.08	0.02	0.00	0.00	19.85
rs17729572	Alpha- ketoglutarate to aspartate ratio	GCST90200816	18	62509991	T	C	8272	0.14	0.03	0.00	0.00	19.86
rs6124828	Alpha- ketoglutarate to aspartate ratio	GCST90200816	20	46607483	A	T	8272	0.10	0.02	0.00	0.00	27.42
rs117865591	Alpha- ketoglutarate to aspartate ratio	GCST90200816	20	60723035	T	C	8272	0.19	0.04	0.00	0.00	20.62
rs189731078	Alpha- ketoglutarate to aspartate ratio	GCST90200816	21	13255015	T	C	8272	-1.94	0.43	0.00	0.00	20.75
rs712966	Alpha- ketoglutarate to aspartate ratio	GCST90200816	22	19114465	G	A	8272	0.08	0.02	0.00	0.00	21.29
rs35437332	3- hydroxyisobut yrate to phosphat	GCST90200817	1	5430554	G	T	8170	0.08	0.02	0.00	0.00	19.89
rs116306912	3- hydroxyisobut yrate to phosphat	GCST90200817	2	79814935	A	C	8170	0.22	0.05	0.00	0.00	21.22
rs3098323	3- hydroxyisobut yrate to phosphat	GCST90200817	2	230922306	G	T	8170	0.08	0.02	0.00	0.00	22.38
rs11716295	3- hydroxyisobut yrate to phosphat	GCST90200817	3	50232733	C	A	8170	-0.18	0.04	0.00	0.00	24.26
rs143696406	3- hydroxyisobut yrate to phosphat	GCST90200817	3	161965055	A	G	8170	-0.34	0.07	0.00	0.00	23.27
rs189936991	3- hydroxyisobut yrate to phosphat	GCST90200817	4	120490204	T	G	8170	0.31	0.07	0.00	0.00	19.78
rs4241714	3- hydroxyisobut yrate to phosphat	GCST90200817	4	179999775	C	G	8170	-0.28	0.06	0.00	0.00	19.73

rs56053960	3-hydroxyisobutyrate to phosphate	GCST90200817	5	37917816	C	T	8170	-0.14	0.03	0.00	0.00	24.75
rs10806401	3-hydroxyisobutyrate to phosphate	GCST90200817	6	89206042	C	T	8170	0.07	0.02	0.00	0.00	21.41
rs9691111	3-hydroxyisobutyrate to phosphate	GCST90200817	7	27430881	G	A	8170	-0.08	0.02	0.00	0.00	23.76
rs1638756	3-hydroxyisobutyrate to phosphate	GCST90200817	7	157759675	C	G	8170	0.13	0.03	0.00	0.00	20.00
rs191438932	3-hydroxyisobutyrate to phosphate	GCST90200817	8	6307667	T	C	8170	-0.35	0.08	0.00	0.00	19.77
rs34208684	3-hydroxyisobutyrate to phosphate	GCST90200817	8	49757743	C	T	8170	0.20	0.04	0.00	0.00	27.03
rs117731660	3-hydroxyisobutyrate to phosphate	GCST90200817	9	27113949	A	G	8170	-0.24	0.05	0.00	0.00	20.36
rs2419615	3-hydroxyisobutyrate to phosphate	GCST90200817	10	112272055	T	G	8170	-0.08	0.02	0.00	0.00	20.91
rs143440439	3-hydroxyisobutyrate to phosphate	GCST90200817	11	17621732	G	A	8170	0.34	0.08	0.00	0.00	20.57
rs111258505	3-hydroxyisobutyrate to phosphate	GCST90200817	11	89012759	G	C	8170	0.16	0.04	0.00	0.00	19.73
rs112647662	3-hydroxyisobutyrate to phosphate	GCST90200817	12	95380896	G	C	8170	0.10	0.02	0.00	0.00	20.59
rs79063383	3-hydroxyisobutyrate to phosphate	GCST90200817	13	44278646	G	C	8170	-0.19	0.04	0.00	0.00	20.70
rs9671373	3-hydroxyisobutyrate to phosphate	GCST90200817	14	81877279	A	G	8170	0.24	0.05	0.00	0.00	20.54
rs12050869	3-hydroxyisobutyrate to phosphate	GCST90200817	15	74968075	G	C	8170	0.16	0.03	0.00	0.00	20.77
rs4356457	3-hydroxyisobutyrate to phosphate	GCST90200817	15	91783528	G	C	8170	0.11	0.02	0.00	0.00	19.53
rs4784753	3-hydroxyisobutyrate to phosphate	GCST90200817	16	57034136	T	C	8170	0.08	0.02	0.00	0.00	19.98
rs117812913	3-hydroxyisobutyrate to phosphate	GCST90200817	18	31092104	C	T	8170	-0.34	0.07	0.00	0.00	20.53
rs74931926	3-hydroxyisobutyrate to phosphate	GCST90200817	19	12530305	A	G	8170	-0.11	0.02	0.00	0.00	20.73

rs1516131	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	2	188012908	C	T	4544	0.13	0.03	0.00	0.00	21.39
rs11368869 3	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	2	234207082	C	A	4544	0.31	0.06	0.00	0.01	22.99
rs35151780	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	3	109329645	A	G	4544	-0.26	0.06	0.00	0.00	21.68
rs28757678	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	4	31380084	A	C	4544	-0.10	0.02	0.00	0.00	21.94
rs14912355 2	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	4	93567583	T	G	4544	-0.40	0.09	0.00	0.00	20.43
rs7723095	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	5	163515833	G	A	4544	0.10	0.02	0.00	0.00	21.71
rs6920224	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	6	36784864	C	A	4544	-0.14	0.03	0.00	0.00	22.10
rs9388253	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	6	123535036	G	A	4544	-0.10	0.02	0.00	0.00	20.22
rs35229108	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	7	119646871	C	T	4544	-0.13	0.03	0.00	0.00	20.81
rs7829662	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	8	100846652	G	T	4544	-0.14	0.03	0.00	0.00	20.75
rs1626941	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	10	78262138	G	A	4544	-0.10	0.02	0.00	0.00	19.64
rs947998	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	11	76672762	T	G	4544	-0.14	0.03	0.00	0.00	20.12
rs10892381	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	11	119530107	T	C	4544	-0.11	0.02	0.00	0.00	20.00
rs2181066	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	14	95684913	T	C	4544	0.10	0.02	0.00	0.00	20.63
rs74802261	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	17	78739730	A	G	4544	-0.38	0.07	0.00	0.01	29.99
rs14303159 5	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	17	79155794	G	C	4544	0.29	0.06	0.00	0.01	25.95
rs2584297	Adenosine 5'- diphosphate (ADP) to glycerate ratio	GCST90200818	18	75646854	C	G	4544	0.10	0.02	0.00	0.00	19.95
rs12140265	3- phosphoglycer ate to glycerate ratio	GCST90200819	1	36962431	G	A	8101	0.14	0.03	0.00	0.00	22.24

rs75367761	3-phosphoglycerate to glycerate ratio	GCST90200819	1	181473192	T	G	8101	-0.08	0.02	0.00	0.00	22.33
rs6704694	3-phosphoglycerate to glycerate ratio	GCST90200819	2	212913556	C	T	8101	0.07	0.02	0.00	0.00	20.35
rs6798740	3-phosphoglycerate to glycerate ratio	GCST90200819	3	144971255	G	A	8101	-0.14	0.03	0.00	0.00	20.10
rs138679367	3-phosphoglycerate to glycerate ratio	GCST90200819	3	179952363	T	C	8101	-0.24	0.05	0.00	0.00	20.18
rs62383022	3-phosphoglycerate to glycerate ratio	GCST90200819	5	139237603	C	G	8101	0.24	0.04	0.00	0.00	29.03
rs148769121	3-phosphoglycerate to glycerate ratio	GCST90200819	6	2735134	G	A	8101	-0.22	0.05	0.00	0.00	20.65
rs73592974	3-phosphoglycerate to glycerate ratio	GCST90200819	6	160470577	G	A	8101	-0.29	0.06	0.00	0.00	23.74
rs71537594	3-phosphoglycerate to glycerate ratio	GCST90200819	7	81912854	A	T	8101	-0.15	0.03	0.00	0.00	23.56
rs817753	3-phosphoglycerate to glycerate ratio	GCST90200819	7	98570774	C	T	8101	0.12	0.03	0.00	0.00	21.37
rs117174282	3-phosphoglycerate to glycerate ratio	GCST90200819	8	62617457	G	A	8101	-0.24	0.05	0.00	0.00	21.93
rs117178280	3-phosphoglycerate to glycerate ratio	GCST90200819	8	80175871	G	A	8101	-0.19	0.04	0.00	0.00	19.59
rs117707705	3-phosphoglycerate to glycerate ratio	GCST90200819	12	54179729	G	A	8101	-0.24	0.05	0.00	0.00	19.53
rs8071484	3-phosphoglycerate to glycerate ratio	GCST90200819	17	55272737	T	C	8101	-0.18	0.04	0.00	0.00	23.31
rs62082848	3-phosphoglycerate to glycerate ratio	GCST90200819	18	52164501	T	G	8101	-0.10	0.02	0.00	0.00	21.90
rs111278137	3-phosphoglycerate to glycerate ratio	GCST90200819	19	44711810	A	G	8101	0.27	0.05	0.00	0.00	26.21
rs141419511	3-phosphoglycerate to glycerate ratio	GCST90200819	20	22404319	A	G	8101	-0.44	0.10	0.00	0.00	20.09
rs4809329	3-phosphoglycerate to glycerate ratio	GCST90200819	20	63717108	T	C	8101	0.08	0.02	0.00	0.00	22.25
rs80332390	Adenosine 5'-diphosphate (ADP) to valine ratio	GCST90200820	2	234191055	C	A	4608	0.32	0.06	0.00	0.01	27.49

rs35678	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	3	10338239	T	C	4608	-0.10	0.02	0.00	0.00	20.78
rs78479492	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	3	118600849	T	C	4608	-0.18	0.04	0.00	0.00	22.39
rs6786284	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	3	144021887	G	A	4608	-0.10	0.02	0.00	0.00	23.10
rs61133880	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	5	168898726	A	T	4608	-0.25	0.06	0.00	0.00	20.79
rs10236510	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	7	119632797	A	G	4608	-0.14	0.03	0.00	0.01	27.45
rs10503585	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	8	16856688	C	T	4608	-0.10	0.02	0.00	0.00	22.86
rs74754867	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	8	26932905	C	T	4608	0.35	0.07	0.00	0.01	23.46
rs79027703	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	8	94651378	T	C	4608	-0.11	0.02	0.00	0.00	20.80
rs12003375	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	9	29378733	G	A	4608	0.10	0.02	0.00	0.00	19.71
rs18226189 3	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	9	81798236	C	A	4608	-0.71	0.16	0.00	0.00	19.98
rs72777711	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	10	11975968	C	A	4608	-0.20	0.04	0.00	0.01	23.24
rs77506352	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	10	122384116	T	C	4608	-0.22	0.04	0.00	0.01	29.51
rs1504451	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	12	60313624	A	G	4608	0.09	0.02	0.00	0.00	20.23
rs12583707	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	13	41453253	T	C	4608	0.17	0.03	0.00	0.01	25.33
rs11773952 2	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	13	83396878	G	T	4608	0.37	0.08	0.00	0.00	22.85
rs11849211	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	14	95335809	A	G	4608	-0.13	0.03	0.00	0.00	20.97
rs11203639 4	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	16	4812786	C	T	4608	-0.13	0.03	0.00	0.00	21.62
rs10468503	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	17	54661426	G	A	4608	0.14	0.03	0.00	0.01	24.59

rs3213876	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	18	75472023	C	T	4608	-0.10	0.02	0.00	0.00	21.41
rs5761565	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	22	26498297	C	T	4608	-0.19	0.04	0.00	0.00	22.19
rs79369357	Adenosine 5'- diphosphate (ADP) to valine ratio	GCST90200820	22	47566825	T	G	4608	-0.39	0.09	0.00	0.00	19.66
rs141861905	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	2	129631140	A	C	4577	-0.36	0.08	0.00	0.00	22.18
rs1047891	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	2	210675783	A	C	4577	-0.25	0.02	0.00	0.03	127.71
rs113688693	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	2	234207082	C	A	4577	0.29	0.06	0.00	0.00	20.90
rs113592495	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	3	49109223	G	T	4577	0.13	0.03	0.00	0.00	19.90
rs145408181	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	3	133410310	C	T	4577	0.28	0.06	0.00	0.00	19.62
rs11936777	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	4	169271099	T	C	4577	0.35	0.07	0.00	0.00	21.42
rs55994014	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	6	36753911	C	G	4577	0.12	0.03	0.00	0.00	22.66
rs10236510	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	7	119632797	A	G	4577	-0.13	0.03	0.00	0.01	23.33
rs2554639	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	8	4081659	T	C	4577	0.09	0.02	0.00	0.00	20.04
rs74612948	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	8	17922448	A	G	4577	-0.18	0.04	0.00	0.00	21.74
rs66628241	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	9	7908256	T	C	4577	0.17	0.04	0.00	0.00	20.07
rs35821206	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	9	119567806	G	A	4577	-0.10	0.02	0.00	0.00	21.21
rs61865437	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	10	93833357	A	G	4577	-0.22	0.05	0.00	0.00	21.55
rs10899251	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	11	76677557	G	A	4577	-0.14	0.03	0.00	0.00	21.13
rs117710873	Adenosine 5'- diphosphate (ADP) to glycine ratio	GCST90200821	11	133866734	T	C	4577	-0.36	0.08	0.00	0.00	19.78

rs75389416	Adenosine 5'-diphosphate (ADP) to glycine ratio	GCST90200821	13	75427661	T	C	4577	0.19	0.04	0.00	0.00	19.52
rs117739522	Adenosine 5'-diphosphate (ADP) to glycine ratio	GCST90200821	13	83396878	G	T	4577	0.35	0.08	0.00	0.00	20.45
rs74683176	Adenosine 5'-diphosphate (ADP) to glycine ratio	GCST90200821	13	104112072	A	G	4577	-0.61	0.14	0.00	0.00	19.51
rs2854446	Adenosine 5'-diphosphate (ADP) to glycine ratio	GCST90200821	15	45061032	T	C	4577	0.16	0.03	0.00	0.00	21.21
rs150342914	Adenosine 5'-diphosphate (ADP) to glycine ratio	GCST90200821	16	4773171	T	C	4577	-0.30	0.06	0.00	0.01	24.02
rs113169729	Adenosine 5'-diphosphate (ADP) to glycine ratio	GCST90200821	16	21086829	A	G	4577	-0.33	0.07	0.00	0.00	19.94
rs10468503	Adenosine 5'-diphosphate (ADP) to glycine ratio	GCST90200821	17	54661426	G	A	4577	0.13	0.03	0.00	0.00	21.41
rs116856567	Adenosine 5'-diphosphate (ADP) to glycine ratio	GCST90200821	17	80243124	T	C	4577	-0.50	0.11	0.00	0.00	20.01
rs62103136	Adenosine 5'-diphosphate (ADP) to glycine ratio	GCST90200821	19	34032190	C	T	4577	-0.18	0.04	0.00	0.01	23.42
rs11700798	Adenosine 5'-diphosphate (ADP) to glycine ratio	GCST90200821	21	41138261	G	C	4577	-0.13	0.03	0.00	0.00	19.62
rs362119	Adenosine 5'-diphosphate (ADP) to glycine ratio	GCST90200821	22	20385352	G	A	4577	-0.10	0.02	0.00	0.00	19.89
rs182287953	Phosphate to valine ratio	GCST90200822	1	21622445	A	G	8277	0.14	0.03	0.00	0.00	20.38
rs78382157	Phosphate to valine ratio	GCST90200822	2	61611804	G	T	8277	-0.15	0.03	0.00	0.00	21.48
rs77275380	Phosphate to valine ratio	GCST90200822	2	178004749	T	C	8277	-0.32	0.07	0.00	0.00	21.04
rs13028949	Phosphate to valine ratio	GCST90200822	2	219902751	T	G	8277	0.07	0.02	0.00	0.00	20.14
rs73019895	Phosphate to valine ratio	GCST90200822	3	7590732	T	A	8277	0.08	0.02	0.00	0.00	20.33
rs35525126	Phosphate to valine ratio	GCST90200822	3	18034481	C	T	8277	-0.12	0.03	0.00	0.00	19.83
rs6798345	Phosphate to valine ratio	GCST90200822	3	107878774	A	C	8277	-0.07	0.01	0.00	0.00	25.34
rs74913205	Phosphate to valine ratio	GCST90200822	3	164545964	G	C	8277	0.21	0.05	0.00	0.00	19.57
rs10059397	Phosphate to valine ratio	GCST90200822	5	11151807	G	C	8277	0.07	0.01	0.00	0.00	21.86
rs1991497	Phosphate to valine ratio	GCST90200822	5	54937440	A	G	8277	0.07	0.01	0.00	0.00	21.76
rs115705575	Phosphate to valine ratio	GCST90200822	6	56114012	A	G	8277	-0.30	0.06	0.00	0.00	24.30
rs6930584	Phosphate to valine ratio	GCST90200822	6	89973842	A	G	8277	-0.09	0.02	0.00	0.00	23.89
rs9347263	Phosphate to valine ratio	GCST90200822	6	158859101	C	T	8277	-0.08	0.02	0.00	0.00	20.05
rs79701819	Phosphate to valine ratio	GCST90200822	7	23204837	G	T	8277	0.33	0.06	0.00	0.00	26.57
rs62452228	Phosphate to valine ratio	GCST90200822	7	25466607	C	T	8277	-0.09	0.02	0.00	0.00	22.76

rs17689617	Phosphate to valine ratio	GCST90200822	7	40974926	T	C	8277	-0.07	0.01	0.00	0.00	21.38
rs7779835	Phosphate to valine ratio	GCST90200822	7	80057667	C	T	8277	-0.26	0.05	0.00	0.00	27.48
rs80084508	Phosphate to valine ratio	GCST90200822	8	3615793	T	G	8277	0.13	0.03	0.00	0.00	21.85
rs78145602	Phosphate to valine ratio	GCST90200822	8	63937862	T	C	8277	0.17	0.04	0.00	0.00	22.97
rs18975520	Phosphate to valine ratio	GCST90200822	8	123039860	C	T	8277	0.38	0.08	0.00	0.00	21.68
rs18274465	Phosphate to valine ratio	GCST90200822	8	144477967	T	C	8277	0.17	0.04	0.00	0.00	20.08
rs75847252	Phosphate to valine ratio	GCST90200822	9	68868565	C	T	8277	-0.24	0.05	0.00	0.00	19.94
rs11397903	Phosphate to valine ratio	GCST90200822	9	87880785	A	G	8277	0.19	0.04	0.00	0.00	23.82
rs12569367	Phosphate to valine ratio	GCST90200822	10	3825981	T	C	8277	-0.42	0.09	0.00	0.00	20.01
rs7090846	Phosphate to valine ratio	GCST90200822	10	84874789	C	A	8277	-0.09	0.02	0.00	0.00	22.01
rs13928208	Phosphate to valine ratio	GCST90200822	10	109383655	G	T	8277	0.20	0.04	0.00	0.00	20.21
rs7092272	Phosphate to valine ratio	GCST90200822	10	119347108	T	C	8277	0.07	0.02	0.00	0.00	19.90
rs4433560	Phosphate to valine ratio	GCST90200822	11	45232315	A	T	8277	0.09	0.02	0.00	0.00	20.58
rs11814211	Phosphate to valine ratio	GCST90200822	12	46480111	G	C	8277	0.24	0.05	0.00	0.00	20.13
rs76384263	Phosphate to valine ratio	GCST90200822	16	76850754	T	C	8277	0.21	0.05	0.00	0.00	20.37
rs62089918	Phosphate to valine ratio	GCST90200822	18	42760531	A	C	8277	0.16	0.04	0.00	0.00	19.98
rs12130095	Adenosine 5'-diphosphate (ADP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200823	1	48236268	T	C	4561	0.25	0.05	0.00	0.01	28.27
rs612577	Adenosine 5'-diphosphate (ADP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200823	1	230188618	C	T	4561	-0.13	0.03	0.00	0.00	19.92
rs14262237	Adenosine 5'-diphosphate (ADP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200823	3	118567183	T	C	4561	-0.17	0.04	0.00	0.00	22.18
rs4689157	Adenosine 5'-diphosphate (ADP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200823	4	7728665	A	G	4561	-0.14	0.03	0.00	0.00	20.45
rs11417547	Adenosine 5'-diphosphate (ADP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200823	4	31309559	T	G	4561	0.22	0.05	0.00	0.00	20.98
rs41275676	Adenosine 5'-diphosphate (ADP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200823	4	94208389	G	A	4561	-0.41	0.09	0.00	0.00	20.14

rs13104769	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	4	106726913	G	A	4561	0.15	0.03	0.00	0.00	20.47
rs55725639	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	5	142211721	G	A	4561	-0.15	0.03	0.00	0.00	19.82
rs6936315	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	6	11035739	C	T	4561	0.13	0.03	0.00	0.00	21.38
rs10236510	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	7	119632797	A	G	4561	-0.13	0.03	0.00	0.00	22.32
rs7829662	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	8	100846652	G	T	4561	-0.14	0.03	0.00	0.00	20.81
rs10491672	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	9	29496813	C	G	4561	-0.11	0.02	0.00	0.00	20.13
rs11791745	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	9	119571181	C	T	4561	-0.10	0.02	0.00	0.00	20.70
rs1461567	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	12	43770886	A	G	4561	-0.11	0.02	0.00	0.00	22.13
rs76764456	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	12	132699806	A	G	4561	0.23	0.05	0.00	0.00	21.45
rs11773952 2	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	13	83396878	G	T	4561	0.38	0.08	0.00	0.01	23.66

rs75517844	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	15	69925430	C	T	4561	0.39	0.09	0.00	0.00	21.45
rs147755798	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	15	101403813	A	G	4561	-0.60	0.13	0.00	0.00	19.80
rs138901164	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	16	5563171	G	A	4561	0.38	0.08	0.00	0.00	20.60
rs185808098	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	17	7844265	C	T	4561	1.33	0.30	0.00	0.00	19.92
rs10468503	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	17	54661426	G	A	4561	0.13	0.03	0.00	0.00	21.53
rs116856567	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	17	80243124	T	C	4561	-0.52	0.11	0.00	0.00	21.70
rs79369357	Adenosine 5'- diphosphate (ADP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200823	22	47566825	T	G	4561	-0.41	0.09	0.00	0.00	21.18
rs41297593	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	1	39896111	C	G	4570	-0.13	0.03	0.00	0.00	21.40
rs76599855	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	1	86795667	G	A	4570	-0.32	0.07	0.00	0.00	19.51
rs116974459	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	1	162376534	A	C	4570	-0.38	0.09	0.00	0.00	20.02
rs587449	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	1	181477189	C	G	4570	0.24	0.05	0.00	0.00	21.20
rs4659544	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	1	239401382	C	A	4570	-0.17	0.04	0.00	0.00	20.29
rs80332390	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	2	234191055	C	A	4570	0.30	0.06	0.00	0.01	23.59

rs18213703 1	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	4	83547453	A	C	4570	-0.42	0.09	0.00	0.00	19.91
rs62319264	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	4	130625492	A	G	4570	0.52	0.10	0.00	0.01	25.65
rs12506179	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	4	153557456	C	T	4570	-0.19	0.04	0.00	0.00	19.67
rs13185925	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	5	43888736	C	G	4570	-0.24	0.05	0.00	0.00	21.48
rs11694664 8	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	8	594819	A	G	4570	0.64	0.14	0.00	0.00	20.71
rs7829662	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	8	100846652	G	T	4570	-0.13	0.03	0.00	0.00	19.81
rs12003375	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	9	29378733	G	A	4570	0.11	0.02	0.00	0.00	21.20
rs77506352	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	10	122384116	T	C	4570	-0.19	0.04	0.00	0.01	23.17
rs11771777 5	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	12	5278207	T	C	4570	-0.33	0.07	0.00	0.00	19.58
rs7295241	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	12	10494567	T	C	4570	0.10	0.02	0.00	0.00	19.57
rs11811028 5	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	12	76187259	C	T	4570	-0.35	0.08	0.00	0.00	21.03
rs11353817 6	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	12	94596478	T	C	4570	-0.47	0.10	0.00	0.00	22.05
rs9533291	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	13	42889995	T	C	4570	0.10	0.02	0.00	0.00	21.04
rs15061000 8	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	13	95619610	G	A	4570	-0.18	0.04	0.00	0.00	19.77
rs4359405	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	15	85999652	T	C	4570	0.14	0.03	0.00	0.00	19.55
rs11203639 4	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	16	4812786	C	T	4570	-0.13	0.03	0.00	0.00	21.22
rs1877658	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	17	5583523	A	C	4570	0.09	0.02	0.00	0.00	20.43
rs14303159 5	Adenosine 5'- diphosphate (ADP) to sulfate ratio	GCST90200824	17	79155794	G	C	4570	0.25	0.06	0.00	0.00	20.55

rs79369357	Adenosine 5'-diphosphate (ADP) to sulfate ratio	GCST90200824	22	47566825	T	G	4570	-0.39	0.09	0.00	0.00	19.54
rs11683036	Phosphate to sulfate ratio	GCST90200825	2	25125749	T	C	8211	-0.09	0.02	0.00	0.00	19.66
rs191267914	Phosphate to sulfate ratio	GCST90200825	2	119569408	T	G	8211	-0.31	0.07	0.00	0.00	21.75
rs28515521	Phosphate to sulfate ratio	GCST90200825	3	29369922	C	T	8211	0.12	0.02	0.00	0.00	23.20
rs1051613	Phosphate to sulfate ratio	GCST90200825	4	957391	A	G	8211	0.08	0.02	0.00	0.00	26.28
rs116008692	Phosphate to sulfate ratio	GCST90200825	4	56072802	A	G	8211	0.17	0.03	0.00	0.00	23.90
rs189038227	Phosphate to sulfate ratio	GCST90200825	4	98076040	G	T	8211	-0.50	0.10	0.00	0.00	23.54
rs77641757	Phosphate to sulfate ratio	GCST90200825	4	168584659	G	A	8211	-0.23	0.05	0.00	0.00	19.60
rs76112808	Phosphate to sulfate ratio	GCST90200825	5	92167655	A	G	8211	0.16	0.04	0.00	0.00	20.12
rs116402366	Phosphate to sulfate ratio	GCST90200825	5	177363806	A	G	8211	-0.29	0.05	0.00	0.00	36.85
rs2158130	Phosphate to sulfate ratio	GCST90200825	7	21857030	C	G	8211	-0.08	0.02	0.00	0.00	20.25
rs73138059	Phosphate to sulfate ratio	GCST90200825	7	76215499	G	C	8211	0.23	0.05	0.00	0.00	22.92
rs75403822	Phosphate to sulfate ratio	GCST90200825	8	142365478	C	A	8211	0.17	0.03	0.00	0.00	23.65
rs12002371	Phosphate to sulfate ratio	GCST90200825	9	7870435	G	A	8211	0.07	0.02	0.00	0.00	20.54
rs150650120	Phosphate to sulfate ratio	GCST90200825	9	79652200	C	T	8211	0.12	0.03	0.00	0.00	22.47
rs10508255	Phosphate to sulfate ratio	GCST90200825	10	3402659	G	A	8211	-0.08	0.02	0.00	0.00	20.87
rs11595089	Phosphate to sulfate ratio	GCST90200825	10	124493383	A	G	8211	-0.11	0.02	0.00	0.00	25.85
rs11028699	Phosphate to sulfate ratio	GCST90200825	11	25460152	G	C	8211	0.16	0.04	0.00	0.00	19.54
rs144581872	Phosphate to sulfate ratio	GCST90200825	11	41071478	A	G	8211	0.26	0.06	0.00	0.00	21.04
rs11063179	Phosphate to sulfate ratio	GCST90200825	12	4471322	A	G	8211	0.11	0.02	0.00	0.00	22.94
rs1182933	Phosphate to sulfate ratio	GCST90200825	12	121016819	T	C	8211	-0.08	0.02	0.00	0.00	21.39
rs143461726	Phosphate to sulfate ratio	GCST90200825	12	127624202	T	C	8211	-0.32	0.07	0.00	0.00	21.92
rs112181478	Phosphate to sulfate ratio	GCST90200825	13	62546160	A	G	8211	-0.21	0.04	0.00	0.00	23.59
rs140120018	Phosphate to sulfate ratio	GCST90200825	13	100992142	G	C	8211	-0.29	0.06	0.00	0.00	19.90
rs60739908	Phosphate to sulfate ratio	GCST90200825	14	57600583	T	C	8211	-0.11	0.02	0.00	0.00	21.10
rs190803379	Phosphate to sulfate ratio	GCST90200825	14	57776462	A	C	8211	-0.26	0.05	0.00	0.00	24.13
rs112410360	Phosphate to sulfate ratio	GCST90200825	16	87164526	A	G	8211	-0.09	0.02	0.00	0.00	20.41
rs76300649	Phosphate to sulfate ratio	GCST90200825	17	78035083	T	G	8211	-0.23	0.05	0.00	0.00	19.87
rs62223486	Phosphate to sulfate ratio	GCST90200825	21	20018381	T	C	8211	-0.08	0.02	0.00	0.00	22.51
rs4646961	Glycine to phosphate	GCST90200826	1	75751484	A	G	8271	0.08	0.02	0.00	0.00	22.63
rs10188280	Glycine to phosphate	GCST90200826	2	38445313	A	C	8271	-0.08	0.02	0.00	0.00	22.18
rs1047891	Glycine to phosphate	GCST90200826	2	210675783	A	C	8271	0.52	0.02	0.00	0.12	#####
rs319742	Glycine to phosphate	GCST90200826	2	210967605	G	C	8271	0.07	0.02	0.00	0.00	19.97
rs73186015	Glycine to phosphate	GCST90200826	3	122272236	A	G	8271	0.10	0.02	0.00	0.00	19.64
rs9851577	Glycine to phosphate	GCST90200826	3	126189467	T	C	8271	0.08	0.02	0.00	0.00	24.22
rs76495658	Glycine to phosphate	GCST90200826	4	114444393	G	T	8271	0.35	0.07	0.00	0.00	26.14

rs72730044	Glycine to phosphate	GCST90200826	4	141635385	G	A	8271	0.10	0.02	0.00	0.00	20.43
rs6535947	Glycine to phosphate	GCST90200826	4	153713963	G	T	8271	-0.08	0.02	0.00	0.00	25.83
rs6833953	Glycine to phosphate	GCST90200826	4	179771605	C	T	8271	-0.09	0.02	0.00	0.00	23.75
rs111951804	Glycine to phosphate	GCST90200826	5	91168218	A	G	8271	0.16	0.03	0.00	0.00	20.10
rs117066656	Glycine to phosphate	GCST90200826	7	4145332	T	C	8271	0.28	0.06	0.00	0.00	19.66
rs6951810	Glycine to phosphate	GCST90200826	7	56008905	C	T	8271	0.08	0.02	0.00	0.00	22.16
rs2126263	Glycine to phosphate	GCST90200826	8	9324101	A	G	8271	-0.12	0.03	0.00	0.00	20.98
rs55933544	Glycine to phosphate	GCST90200826	9	6534080	T	C	8271	-0.11	0.02	0.00	0.00	40.78
rs12685098	Glycine to phosphate	GCST90200826	9	8849933	A	G	8271	-0.10	0.02	0.00	0.00	21.82
rs12552157	Glycine to phosphate	GCST90200826	9	87124998	A	G	8271	0.15	0.03	0.00	0.00	20.40
rs140440550	Glycine to phosphate	GCST90200826	11	70096601	G	C	8271	-0.42	0.09	0.00	0.00	19.63
rs2605366	Glycine to phosphate	GCST90200826	12	74590627	G	A	8271	0.18	0.04	0.00	0.00	20.44
rs10848157	Glycine to phosphate	GCST90200826	12	130606816	A	G	8271	-0.07	0.02	0.00	0.00	19.76
rs12890536	Glycine to phosphate	GCST90200826	14	76974101	C	T	8271	-0.23	0.05	0.00	0.00	19.92
rs1466182	Glycine to phosphate	GCST90200826	16	80583716	C	T	8271	-0.17	0.04	0.00	0.00	20.61
rs4889235	Glycine to phosphate	GCST90200826	16	81110033	A	G	8271	0.13	0.03	0.00	0.00	22.32
rs279233	Glycine to phosphate	GCST90200826	19	11923396	C	A	8271	-0.07	0.02	0.00	0.00	19.90
rs9749620	Glycine to phosphate	GCST90200826	19	14989848	C	G	8271	-0.08	0.02	0.00	0.00	24.35
rs117014867	Glycine to phosphate	GCST90200826	20	42936633	T	C	8271	-0.18	0.04	0.00	0.00	19.57
rs4811715	Glycine to phosphate	GCST90200826	20	56564093	G	A	8271	0.08	0.02	0.00	0.00	20.37
rs9982607	Glycine to phosphate	GCST90200826	21	21936256	A	T	8271	0.10	0.02	0.00	0.00	21.62
rs150887069	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	1	54975149	T	C	8223	-0.20	0.04	0.00	0.00	20.35
rs1168041	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	1	62494579	C	T	8223	-0.08	0.02	0.00	0.00	23.96
rs2378789	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	1	183949686	T	G	8223	-0.07	0.02	0.00	0.00	20.86
rs7610875	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	3	106125494	C	T	8223	0.26	0.06	0.00	0.00	20.18
rs698086	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	3	187232968	T	C	8223	0.08	0.02	0.00	0.00	24.31
rs6884766	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	5	109588314	G	C	8223	-0.11	0.02	0.00	0.00	21.42

rs148220962	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	6	26415864	C	A	8223	-0.57	0.12	0.00	0.00	21.67
rs6903986	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	6	70091495	G	A	8223	-0.10	0.02	0.00	0.00	22.08
rs10231384	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	7	8350953	T	G	8223	-0.07	0.02	0.00	0.00	20.83
rs12672156	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	7	24484387	T	C	8223	0.18	0.04	0.00	0.00	19.57
rs28999686	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	8	102234721	A	G	8223	-0.23	0.05	0.00	0.00	20.63
rs146015262	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	9	93046676	A	C	8223	0.14	0.03	0.00	0.00	22.77
rs146215475	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	10	5605153	T	C	8223	0.26	0.05	0.00	0.00	22.01
rs9420592	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	10	92755218	C	T	8223	-0.08	0.02	0.00	0.00	19.51
rs117050083	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	11	26411428	A	C	8223	0.26	0.06	0.00	0.00	21.88
rs7116463	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	11	55351138	C	T	8223	-0.09	0.02	0.00	0.00	26.58
rs964184	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	11	116778201	C	G	8223	0.11	0.02	0.00	0.00	20.81
rs7972842	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	12	50122540	T	G	8223	-0.08	0.02	0.00	0.00	28.00
rs9513108	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	13	19443330	T	C	8223	-0.18	0.04	0.00	0.00	22.47
rs17598693	Phosphate to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200827	13	42193181	G	A	8223	-0.18	0.04	0.00	0.00	19.56

rs61996581	Phosphate to N-palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200827	14	63153483	A	G	8223	0.15	0.03	0.00	0.00	20.50
rs67183455	Phosphate to N-palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200827	14	104815083	A	C	8223	0.10	0.02	0.00	0.00	20.74
rs142965589	Phosphate to N-palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200827	17	73863886	T	C	8223	0.26	0.06	0.00	0.00	20.17
rs62216572	Phosphate to N-palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200827	21	45068117	T	C	8223	0.08	0.02	0.00	0.00	20.12
rs146581388	Cholate to bilirubin (Z,Z) ratio	GCST90200828	1	89267876	T	C	7747	0.40	0.08	0.00	0.00	24.00
rs2160643	Cholate to bilirubin (Z,Z) ratio	GCST90200828	2	229006377	C	A	7747	0.09	0.02	0.00	0.00	19.80
rs4148324	Cholate to bilirubin (Z,Z) ratio	GCST90200828	2	233764076	G	T	7747	-0.23	0.02	0.00	0.02	189.18
rs62248512	Cholate to bilirubin (Z,Z) ratio	GCST90200828	3	26508226	A	G	7747	0.10	0.02	0.00	0.00	22.15
rs79591343	Cholate to bilirubin (Z,Z) ratio	GCST90200828	3	45555978	G	T	7747	-0.16	0.03	0.00	0.00	22.98
rs144211769	Cholate to bilirubin (Z,Z) ratio	GCST90200828	3	65954653	A	G	7747	0.34	0.08	0.00	0.00	20.06
rs74483501	Cholate to bilirubin (Z,Z) ratio	GCST90200828	3	150236562	C	T	7747	-0.24	0.05	0.00	0.00	20.47
rs1858238	Cholate to bilirubin (Z,Z) ratio	GCST90200828	3	162066929	A	G	7747	0.41	0.09	0.00	0.00	21.11
rs185067858	Cholate to bilirubin (Z,Z) ratio	GCST90200828	5	86214767	G	A	7747	-0.31	0.07	0.00	0.00	21.28
rs279407	Cholate to bilirubin (Z,Z) ratio	GCST90200828	5	167703703	C	T	7747	-0.08	0.02	0.00	0.00	21.27
rs4526236	Cholate to bilirubin (Z,Z) ratio	GCST90200828	6	32643917	A	G	7747	0.07	0.02	0.00	0.00	19.80
rs71576259	Cholate to bilirubin (Z,Z) ratio	GCST90200828	7	126004130	T	C	7747	-0.24	0.05	0.00	0.00	24.93
rs10096702	Cholate to bilirubin (Z,Z) ratio	GCST90200828	8	18741087	A	G	7747	-0.18	0.04	0.00	0.00	20.03
rs150503300	Cholate to bilirubin (Z,Z) ratio	GCST90200828	8	95688213	C	G	7747	-0.48	0.11	0.00	0.00	20.00
rs10809267	Cholate to bilirubin (Z,Z) ratio	GCST90200828	9	10972720	T	G	7747	-0.08	0.02	0.00	0.00	21.35
rs117728766	Cholate to bilirubin (Z,Z) ratio	GCST90200828	9	95921028	A	G	7747	0.21	0.05	0.00	0.00	20.71
rs77939583	Cholate to bilirubin (Z,Z) ratio	GCST90200828	12	12765579	T	C	7747	0.28	0.06	0.00	0.00	20.18
rs142851198	Cholate to bilirubin (Z,Z) ratio	GCST90200828	12	73838919	T	C	7747	-0.21	0.05	0.00	0.00	20.36

rs11067833	Cholate to bilirubin (Z,Z) ratio	GCST90200828	12	115914703	G	A	7747	-0.19	0.04	0.00	0.00	19.63
rs117432550	Cholate to bilirubin (Z,Z) ratio	GCST90200828	13	25429870	T	C	7747	-0.26	0.05	0.00	0.00	23.48
rs187746225	Cholate to bilirubin (Z,Z) ratio	GCST90200828	13	83815312	A	G	7747	-0.38	0.08	0.00	0.00	22.77
rs970488	Cholate to bilirubin (Z,Z) ratio	GCST90200828	14	31780880	C	T	7747	-0.13	0.03	0.00	0.00	23.70
rs9646129	Cholate to bilirubin (Z,Z) ratio	GCST90200828	14	51854802	T	C	7747	0.10	0.02	0.00	0.00	20.46
rs143208275	Cholate to bilirubin (Z,Z) ratio	GCST90200828	15	73265224	A	G	7747	-0.32	0.07	0.00	0.00	19.93
rs11076828	Cholate to bilirubin (Z,Z) ratio	GCST90200828	16	4397770	T	C	7747	0.08	0.02	0.00	0.00	22.34
rs34105328	Cholate to bilirubin (Z,Z) ratio	GCST90200828	16	30515476	T	C	7747	-0.36	0.08	0.00	0.00	22.83
rs2249097	Bilirubin (Z,Z) to taurocholate Bilirubin (Z,Z)	GCST90200829	1	15372831	C	G	7620	-0.09	0.02	0.00	0.00	20.44
rs114164309	to taurocholate Bilirubin (Z,Z)	GCST90200829	1	168672442	G	A	7620	0.22	0.05	0.00	0.00	20.82
rs73948200	to taurocholate Bilirubin (Z,Z)	GCST90200829	2	73856383	G	A	7620	-0.16	0.04	0.00	0.00	19.64
rs887829	to taurocholate Bilirubin (Z,Z)	GCST90200829	2	233759924	T	C	7620	0.21	0.02	0.00	0.02	154.88
rs187144872	to taurocholate Bilirubin (Z,Z)	GCST90200829	3	60566872	C	G	7620	-0.10	0.02	0.00	0.00	19.63
rs114121344	to taurocholate Bilirubin (Z,Z)	GCST90200829	5	34775983	A	G	7620	0.32	0.07	0.00	0.00	23.20
rs62428933	to taurocholate Bilirubin (Z,Z)	GCST90200829	6	108692840	A	G	7620	-0.18	0.04	0.00	0.00	21.54
rs4731512	to taurocholate Bilirubin (Z,Z)	GCST90200829	7	128733480	A	G	7620	-0.18	0.03	0.00	0.00	26.02
rs55683558	to taurocholate Bilirubin (Z,Z)	GCST90200829	7	148607731	C	T	7620	0.10	0.02	0.00	0.00	20.99
rs73245653	to taurocholate Bilirubin (Z,Z)	GCST90200829	8	60237961	G	A	7620	-0.33	0.07	0.00	0.00	20.79
rs141105780	to taurocholate Bilirubin (Z,Z)	GCST90200829	11	61178427	G	T	7620	-0.35	0.08	0.00	0.00	21.28
rs188255354	to taurocholate Bilirubin (Z,Z)	GCST90200829	11	121181254	T	C	7620	-0.41	0.09	0.00	0.00	23.32
rs61959380	to taurocholate Bilirubin (Z,Z)	GCST90200829	13	88173459	A	G	7620	0.11	0.03	0.00	0.00	19.76
rs3811316	to taurocholate Bilirubin (Z,Z)	GCST90200829	14	22015759	G	A	7620	0.20	0.04	0.00	0.00	27.26
rs1147459	to taurocholate Bilirubin (Z,Z)	GCST90200829	14	65974829	T	C	7620	-0.15	0.03	0.00	0.00	20.69
rs16962867	to taurocholate	GCST90200829	15	49754660	A	T	7620	-0.18	0.04	0.00	0.00	19.51

rs113867701	Bilirubin (Z,Z) to taurocholate	GCST90200829	16	64529200	G	C	7620	-0.34	0.07	0.00	0.00	23.96
rs76149982	Bilirubin (Z,Z) to taurocholate	GCST90200829	17	10808360	A	C	7620	0.18	0.03	0.00	0.00	35.26
rs2426643	Bilirubin (Z,Z) to Cholate	GCST90200829	20	56717423	G	A	7620	0.08	0.02	0.00	0.00	23.99
rs12134045	taurocholate to adenosine	GCST90200830	1	163846414	C	G	6359	0.24	0.05	0.00	0.00	20.67
rs114156553	3',5'-cyclic monophosphate (cAMP) ratio Cholate to adenosine	GCST90200830	2	28642809	T	G	6359	-0.26	0.06	0.00	0.00	21.13
rs34269014	3',5'-cyclic monophosphate (cAMP) ratio Cholate to adenosine	GCST90200830	2	229039324	C	T	6359	-0.13	0.03	0.00	0.00	23.12
rs56079514	3',5'-cyclic monophosphate (cAMP) ratio Cholate to adenosine	GCST90200830	3	66111494	C	G	6359	0.11	0.02	0.00	0.00	20.53
rs4679343	3',5'-cyclic monophosphate (cAMP) ratio Cholate to adenosine	GCST90200830	3	127143478	A	G	6359	0.11	0.02	0.00	0.00	23.64
rs61296613	3',5'-cyclic monophosphate (cAMP) ratio Cholate to adenosine	GCST90200830	4	148085700	T	G	6359	-0.15	0.03	0.00	0.00	28.98
rs35204948	3',5'-cyclic monophosphate (cAMP) ratio Cholate to adenosine	GCST90200830	5	16835771	C	A	6359	-0.10	0.02	0.00	0.00	19.52
rs4960050	3',5'-cyclic monophosphate (cAMP) ratio Cholate to adenosine	GCST90200830	6	4926770	G	A	6359	-0.11	0.02	0.00	0.00	20.51
rs849885	3',5'-cyclic monophosphate (cAMP) ratio Cholate to adenosine	GCST90200830	6	22291309	A	G	6359	0.08	0.02	0.00	0.00	19.81
rs114237974	3',5'-cyclic monophosphate (cAMP) ratio Cholate to adenosine	GCST90200830	6	41010769	C	T	6359	0.29	0.07	0.00	0.00	20.39
rs59261762	3',5'-cyclic monophosphate (cAMP) ratio Cholate to adenosine	GCST90200830	7	115768579	T	C	6359	0.42	0.09	0.00	0.00	21.28
rs7919659	3',5'-cyclic monophosphate (cAMP) ratio Cholate to adenosine	GCST90200830	10	20295622	C	G	6359	0.11	0.02	0.00	0.00	22.67
rs45504797	3',5'-cyclic monophosphate (cAMP) ratio	GCST90200830	11	112231642	A	G	6359	0.17	0.04	0.00	0.00	20.88

rs11848123	Cholate to adenosine 3',5'-cyclic monophosphate (cAMP) ratio	GCST90200830	14	31833568	C	A	6359	-0.14	0.03	0.00	0.00	23.84
rs2040782	Cholate to adenosine 3',5'-cyclic monophosphate (cAMP) ratio	GCST90200830	14	68562508	T	C	6359	-0.09	0.02	0.00	0.00	20.71
rs987737	Cholate to adenosine 3',5'-cyclic monophosphate (cAMP) ratio	GCST90200830	15	97649870	G	A	6359	0.15	0.03	0.00	0.00	25.19
rs55729304	Cholate to adenosine 3',5'-cyclic monophosphate (cAMP) ratio	GCST90200830	16	62150005	T	G	6359	0.20	0.04	0.00	0.00	22.61
rs11650094	Cholate to adenosine 3',5'-cyclic monophosphate (cAMP) ratio	GCST90200830	17	8185330	T	C	6359	0.10	0.02	0.00	0.00	21.51
rs145827373	Cholate to adenosine 3',5'-cyclic monophosphate (cAMP) ratio	GCST90200830	19	21117825	C	T	6359	0.47	0.11	0.00	0.00	19.87
rs148732157	Cholate to adenosine 3',5'-cyclic monophosphate (cAMP) ratio	GCST90200830	20	7557106	A	G	6359	-0.36	0.08	0.00	0.00	19.62
rs7267747	Cholate to adenosine 3',5'-cyclic monophosphate (cAMP) ratio	GCST90200830	20	17878831	T	C	6359	0.16	0.04	0.00	0.00	19.56
rs117300085	Cholate to adenosine 3',5'-cyclic monophosphate (cAMP) ratio	GCST90200830	21	16994653	T	A	6359	-0.38	0.08	0.00	0.00	21.77
rs34269014	Cholate to phosphate	GCST90200831	2	229039324	C	T	7742	-0.11	0.02	0.00	0.00	21.51
rs62248512	Cholate to phosphate	GCST90200831	3	26508226	A	G	7742	0.10	0.02	0.00	0.00	23.50
rs79591343	Cholate to phosphate	GCST90200831	3	45555978	G	T	7742	-0.15	0.03	0.00	0.00	19.63
rs2172249	Cholate to phosphate	GCST90200831	3	151342976	C	G	7742	0.07	0.02	0.00	0.00	19.63
rs35204948	Cholate to phosphate	GCST90200831	5	16835771	C	A	7742	-0.09	0.02	0.00	0.00	21.16
rs111228268	Cholate to phosphate	GCST90200831	5	73307438	C	T	7742	0.45	0.10	0.00	0.00	20.07
rs185067858	Cholate to phosphate	GCST90200831	5	86214767	G	A	7742	-0.30	0.07	0.00	0.00	19.63
rs115392659	Cholate to phosphate	GCST90200831	5	153150452	G	A	7742	-0.36	0.08	0.00	0.00	21.39
rs279407	Cholate to phosphate	GCST90200831	5	167703703	C	T	7742	-0.08	0.02	0.00	0.00	20.45
rs74618856	Cholate to phosphate	GCST90200831	6	31357968	C	T	7742	-0.07	0.02	0.00	0.00	20.42
rs59261762	Cholate to phosphate	GCST90200831	7	115768579	T	C	7742	0.37	0.08	0.00	0.00	20.72
rs4585753	Cholate to phosphate	GCST90200831	8	16070811	C	G	7742	-0.08	0.02	0.00	0.00	20.22
rs117352032	Cholate to phosphate	GCST90200831	13	83219606	T	C	7742	-0.15	0.03	0.00	0.00	20.32
rs77035396	Cholate to phosphate	GCST90200831	14	31812447	T	C	7742	-0.12	0.03	0.00	0.00	20.83

rs11643803	Cholate to phosphate	GCST90200831	16	4440399	A	G	7742	0.09	0.02	0.00	0.00	24.95
rs75664430	Cholate to phosphate	GCST90200831	17	8161461	G	C	7742	0.08	0.02	0.00	0.00	20.66
rs74796497	Cholate to phosphate	GCST90200831	17	55294310	G	A	7742	0.42	0.09	0.00	0.00	20.98
rs388806	Cholate to phosphate	GCST90200831	21	40573479	G	T	7742	0.10	0.02	0.00	0.00	23.45
rs898978	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	1	38202032	G	T	4567	0.10	0.02	0.00	0.00	21.67
rs9645408	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	1	50517463	C	T	4567	0.17	0.04	0.00	0.00	19.52
rs80332390	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	2	234191055	C	A	4567	0.29	0.06	0.00	0.00	21.88
rs142622373	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	3	118567183	T	C	4567	-0.17	0.04	0.00	0.00	21.26
rs12154017	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	6	10974455	A	G	4567	0.12	0.03	0.00	0.00	19.66
rs10236510	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	7	119632797	A	G	4567	-0.14	0.03	0.00	0.01	25.74
rs7829662	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	8	100846652	G	T	4567	-0.15	0.03	0.00	0.01	25.13
rs72713810	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	9	16836725	T	A	4567	0.14	0.03	0.00	0.00	19.60
rs12003375	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	9	29378733	G	A	4567	0.11	0.02	0.00	0.00	21.85
rs77506352	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	10	122384116	T	C	4567	-0.18	0.04	0.00	0.00	19.98
rs12804793	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	11	122772575	T	G	4567	-0.13	0.03	0.00	0.00	19.64
rs117717775	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	12	5278207	T	C	4567	-0.37	0.08	0.00	0.01	24.20
rs1461567	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	12	43770886	A	G	4567	-0.11	0.02	0.00	0.00	21.93
rs118110285	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	12	76187259	C	T	4567	-0.36	0.08	0.00	0.00	22.24
rs9533291	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	13	42889995	T	C	4567	0.10	0.02	0.00	0.00	22.44
rs112543666	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	13	74294575	T	A	4567	0.16	0.04	0.00	0.00	20.47

rs112036394	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	16	4812786	C	T	4567	-0.13	0.03	0.00	0.00	20.36
rs11652787	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	17	17424179	A	G	4567	0.11	0.02	0.00	0.00	21.24
rs60105249	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	21	16278182	G	A	4567	0.53	0.12	0.00	0.00	20.17
rs76209394	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	21	42119054	T	C	4567	-0.21	0.05	0.00	0.00	19.71
rs74511791	Adenosine 5'-diphosphate (ADP) to citrate ratio	GCST90200832	22	43285531	T	G	4567	0.29	0.07	0.00	0.00	19.66
rs146581388	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	1	89267876	T	C	7769	0.36	0.08	0.00	0.00	19.66
rs12134045	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	1	163846414	C	G	7769	0.21	0.05	0.00	0.00	19.71
rs34269014	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	2	229039324	C	T	7769	-0.11	0.02	0.00	0.00	22.53
rs79591343	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	3	45555978	G	T	7769	-0.15	0.03	0.00	0.00	19.66
rs13088150	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	3	194512591	C	A	7769	-0.30	0.07	0.00	0.00	21.03
rs145520517	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	5	39712413	C	T	7769	-0.24	0.05	0.00	0.00	21.78
rs4582317	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	5	92134876	G	A	7769	-0.07	0.02	0.00	0.00	20.56
rs147373845	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	5	146238041	A	G	7769	0.22	0.05	0.00	0.00	21.16
rs11968895	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	6	150773905	G	A	7769	-0.12	0.03	0.00	0.00	21.84
rs117024343	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	7	9041963	A	T	7769	-0.42	0.09	0.00	0.00	19.91
rs138625731	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	7	69105084	G	A	7769	-0.39	0.09	0.00	0.00	19.63
rs10089844	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	8	13716425	C	T	7769	0.08	0.02	0.00	0.00	20.71
rs72698168	Cholate to adenosine 5'-monophosphate (AMP) ratio	GCST90200833	9	11419021	C	T	7769	0.30	0.07	0.00	0.00	20.75

rs2776926	Cholate to adenosine 5'- monophosphate (AMP) ratio	GCST90200833	10	33275530	C	T	7769	0.13	0.03	0.00	0.00	21.45
rs10762752	Cholate to adenosine 5'- monophosphate (AMP) ratio	GCST90200833	10	77215042	G	A	7769	0.08	0.02	0.00	0.00	21.03
rs11626067	Cholate to adenosine 5'- monophosphate (AMP) ratio	GCST90200833	14	31575521	G	A	7769	-0.13	0.03	0.00	0.00	22.31
rs116940594	Cholate to adenosine 5'- monophosphate (AMP) ratio	GCST90200833	14	45904631	T	A	7769	-0.39	0.08	0.00	0.00	20.87
rs138589728	Cholate to adenosine 5'- monophosphate (AMP) ratio	GCST90200833	14	104650558	G	C	7769	-0.25	0.06	0.00	0.00	19.87
rs9924885	Cholate to adenosine 5'- monophosphate (AMP) ratio	GCST90200833	16	3057920	T	G	7769	0.10	0.02	0.00	0.00	20.47
rs11643803	Cholate to adenosine 5'- monophosphate (AMP) ratio	GCST90200833	16	4440399	A	G	7769	0.08	0.02	0.00	0.00	22.33
rs62038101	Cholate to adenosine 5'- monophosphate (AMP) ratio	GCST90200833	16	78927539	C	A	7769	-0.41	0.09	0.00	0.00	19.72
rs35107059	Adenosine 5'- diphosphate (AMP) ratio	GCST90200833	19	6551837	T	C	7769	-0.15	0.03	0.00	0.00	19.63
rs2275370	(ADP) to glycerol 3-phosphate	GCST90200834	1	21573927	G	A	4588	-0.11	0.03	0.00	0.00	20.78
rs78904313	Adenosine 5'- diphosphate (ADP) to glycerol 3-phosphate	GCST90200834	1	64719367	G	C	4588	-0.39	0.09	0.00	0.00	20.26
rs116974459	Adenosine 5'- diphosphate (ADP) to glycerol 3-phosphate	GCST90200834	1	162376534	A	C	4588	-0.38	0.09	0.00	0.00	19.85
rs184965710	Adenosine 5'- diphosphate (ADP) to glycerol 3-phosphate	GCST90200834	1	233676325	G	A	4588	-0.24	0.05	0.00	0.01	24.68
rs80332390	Adenosine 5'- diphosphate (ADP) to glycerol 3-phosphate	GCST90200834	2	234191055	C	A	4588	0.30	0.06	0.00	0.01	23.89
rs114931662	Adenosine 5'- diphosphate (ADP) to glycerol 3-phosphate	GCST90200834	3	13536507	T	C	4588	-0.26	0.06	0.00	0.00	20.74
rs142622373	Adenosine 5'- diphosphate (ADP) to glycerol 3-phosphate	GCST90200834	3	118567183	T	C	4588	-0.17	0.04	0.00	0.00	20.73

rs2995921	Adenosine 5'- diphosphate (ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	4	37902681	G	A	4588	0.10	0.02	0.00	0.00	21.07
rs10236510	(ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	7	119632797	A	G	4588	-0.13	0.03	0.00	0.00	22.60
rs74754867	(ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	8	26932905	C	T	4588	0.35	0.07	0.00	0.00	22.74
rs79027703	(ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	8	94651378	T	C	4588	-0.11	0.02	0.00	0.00	20.79
rs66628241	(ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	9	7908256	T	C	4588	0.17	0.04	0.00	0.00	20.62
rs12003375	(ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	9	29378733	G	A	4588	0.11	0.02	0.00	0.00	21.43
rs72777711	(ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	10	11975968	C	A	4588	-0.21	0.04	0.00	0.01	25.49
rs11809931 2	(ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	10	86864519	T	C	4588	-0.22	0.05	0.00	0.00	20.27
rs7921628	(ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	10	111166364	A	C	4588	0.43	0.09	0.00	0.01	23.33
rs34980489	(ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	11	119513566	A	T	4588	-0.14	0.03	0.00	0.00	20.27
rs11771777 5	(ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	12	5278207	T	C	4588	-0.37	0.08	0.00	0.01	24.35
rs7295241	(ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	12	10494567	T	C	4588	0.10	0.02	0.00	0.00	19.73
rs910791	(ADP) to glycerol 3- phosphate Adenosine 5'- diphosphate	GCST90200834	14	95440104	G	A	4588	-0.10	0.02	0.00	0.00	22.44
rs14775579 8	(ADP) to glycerol 3- phosphate	GCST90200834	15	101403813	A	G	4588	-0.60	0.13	0.00	0.00	20.34

rs112036394	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200834	16	4812786	C	T	4588	-0.15	0.03	0.00	0.01	26.70
rs113350725	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200834	16	88210960	T	C	4588	-0.10	0.02	0.00	0.00	20.07
rs17058444	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200834	18	75882512	A	C	4588	-0.13	0.02	0.00	0.01	27.38
rs114136746	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	1	5102401	G	T	4575	-0.48	0.10	0.00	0.00	21.06
rs941123	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	1	53639691	C	G	4575	-0.11	0.02	0.00	0.01	23.55
rs4540630	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	1	87166091	T	C	4575	-0.16	0.03	0.00	0.01	25.75
rs72721858	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	1	98448026	T	A	4575	-0.14	0.03	0.00	0.00	22.91
rs10900520	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	1	203811463	G	A	4575	0.10	0.02	0.00	0.00	19.85
rs79663964	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	1	232621932	C	G	4575	0.18	0.04	0.00	0.00	21.62
rs72909363	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	2	190077485	T	A	4575	0.54	0.11	0.00	0.00	22.54
rs73209054	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	3	194446227	T	C	4575	0.28	0.06	0.00	0.00	21.03
rs79672388	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	4	82068550	T	C	4575	-0.34	0.08	0.00	0.00	19.89
rs79357230	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	5	100755758	G	A	4575	-0.28	0.06	0.00	0.00	21.01
rs12154017	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	6	10974455	A	G	4575	0.12	0.03	0.00	0.00	19.75
rs7805806	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	7	20687705	G	A	4575	0.14	0.03	0.00	0.00	19.80
rs6476806	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	9	419399	A	G	4575	-0.13	0.03	0.00	0.01	24.01
rs1359356	Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate Adenosine 5'-diphosphate (ADP) to glycerol 3-phosphate	GCST90200835	9	29501906	T	G	4575	-0.11	0.02	0.00	0.00	19.60

rs59552330	Adenosine 5'- diphosphate (ADP) to glycerol ratio	GCST90200835	9	79136783	T	C	4575	0.14	0.03	0.00	0.01	23.10
rs11734199 7	Adenosine 5'- diphosphate (ADP) to glycerol ratio	GCST90200835	10	7272645	A	G	4575	0.75	0.15	0.00	0.01	26.40
rs151289	Adenosine 5'- diphosphate (ADP) to glycerol ratio	GCST90200835	11	2803189	A	G	4575	0.11	0.02	0.00	0.00	20.13
rs7296646	Adenosine 5'- diphosphate (ADP) to glycerol ratio	GCST90200835	12	1606746	C	T	4575	-0.23	0.05	0.00	0.00	19.64
rs9513882	Adenosine 5'- diphosphate (ADP) to glycerol ratio	GCST90200835	13	101320042	T	C	4575	0.10	0.02	0.00	0.00	22.02
rs14959517 6	Adenosine 5'- diphosphate (ADP) to glycerol ratio	GCST90200835	14	87035895	A	T	4575	-0.43	0.10	0.00	0.00	19.86
rs71401941	Adenosine 5'- diphosphate (ADP) to glycerol ratio	GCST90200835	15	87362168	T	C	4575	0.31	0.07	0.00	0.00	19.80
rs14303159 5	Adenosine 5'- diphosphate (ADP) to glycerol ratio	GCST90200835	17	79155794	G	C	4575	0.28	0.05	0.00	0.01	25.85
rs1230293	Adenosine 5'- diphosphate (ADP) to glycerol ratio	GCST90200835	19	22437500	T	C	4575	0.13	0.03	0.00	0.01	23.26
rs3788398	Adenosine 5'- diphosphate (ADP) to glycerol ratio	GCST90200835	22	26434512	G	A	4575	-0.22	0.04	0.00	0.01	25.33
rs14917879 7	Glycerol to glycerol 3- phosphate	GCST90200836	1	21409526	A	T	8188	-0.13	0.03	0.00	0.00	20.99
rs61778392	Glycerol to glycerol 3- phosphate	GCST90200836	1	21575445	A	G	8188	0.21	0.03	0.00	0.01	56.76
rs269101	Glycerol to glycerol 3- phosphate	GCST90200836	1	112086238	C	T	8188	-0.07	0.01	0.00	0.00	21.40
rs74349222	Glycerol to glycerol 3- phosphate	GCST90200836	2	18564200	T	C	8188	-0.09	0.02	0.00	0.00	19.97
rs72819866	Glycerol to glycerol 3- phosphate	GCST90200836	2	81695047	C	T	8188	0.12	0.03	0.00	0.00	21.25
rs11172402 6	Glycerol to glycerol 3- phosphate	GCST90200836	2	217053703	A	G	8188	-0.15	0.03	0.00	0.00	20.99
rs2596837	Glycerol to glycerol 3- phosphate	GCST90200836	3	10786082	C	G	8188	-0.08	0.02	0.00	0.00	26.32
rs66521216	Glycerol to glycerol 3- phosphate	GCST90200836	3	186892517	G	A	8188	-0.08	0.02	0.00	0.00	21.09
rs57016611	Glycerol to glycerol 3- phosphate	GCST90200836	3	194467463	T	C	8188	0.25	0.05	0.00	0.00	20.66
rs18428642 4	Glycerol to glycerol 3- phosphate	GCST90200836	4	64674682	A	C	8188	-0.23	0.05	0.00	0.00	19.59
rs35167482	Glycerol to glycerol 3- phosphate	GCST90200836	4	94670717	C	T	8188	-0.16	0.03	0.00	0.00	20.39

rs72732235	Glycerol to glycerol 3- phosphate	GCST90200836	5	16783484	A	G	8188	-0.40	0.08	0.00	0.00	22.73
rs138792629	Glycerol to glycerol 3- phosphate	GCST90200836	5	29111550	A	C	8188	0.27	0.06	0.00	0.00	20.00
rs11203834	Glycerol to glycerol 3- phosphate	GCST90200836	8	12817782	C	G	8188	-0.06	0.01	0.00	0.00	19.53
rs2417234	Glycerol to glycerol 3- phosphate	GCST90200836	12	12850581	C	G	8188	0.08	0.02	0.00	0.00	23.33
rs34975039	Glycerol to glycerol 3- phosphate	GCST90200836	12	33273087	T	C	8188	-0.18	0.04	0.00	0.00	20.00
rs4761767	Glycerol to glycerol 3- phosphate	GCST90200836	12	93989686	T	C	8188	-0.07	0.02	0.00	0.00	20.47
rs7999515	Glycerol to glycerol 3- phosphate	GCST90200836	13	50979677	T	G	8188	-0.08	0.02	0.00	0.00	19.57
rs12019484	Glycerol to glycerol 3- phosphate	GCST90200836	13	101311737	C	T	8188	-0.07	0.02	0.00	0.00	23.85
rs61071861	Glycerol to glycerol 3- phosphate	GCST90200836	15	42418021	C	G	8188	0.08	0.02	0.00	0.00	24.76
rs79214254	Glycerol to glycerol 3- phosphate	GCST90200836	16	84683453	G	T	8188	0.17	0.04	0.00	0.00	20.52
rs515705	Glycerol to glycerol 3- phosphate	GCST90200836	18	60494452	T	G	8188	-0.12	0.02	0.00	0.00	26.99
rs7508763	Glycerol to glycerol 3- phosphate	GCST90200836	19	13039228	A	C	8188	-0.07	0.02	0.00	0.00	24.23
rs7260235	Glycerol to glycerol 3- phosphate	GCST90200836	19	16075962	A	G	8188	-0.10	0.02	0.00	0.00	22.51
rs2093184	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	1	171922945	A	G	4556	-0.09	0.02	0.00	0.00	19.89
rs62150993	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	2	104240707	G	T	4556	0.33	0.07	0.00	0.00	20.04
rs149401281	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	2	214257520	A	T	4556	0.74	0.16	0.00	0.00	22.25
rs139096844	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	3	184566574	A	G	4556	0.30	0.06	0.00	0.01	24.61
rs76793825	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	4	90118051	A	G	4556	-0.15	0.03	0.00	0.01	27.78
rs13185925	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	5	43888736	C	G	4556	-0.22	0.05	0.00	0.00	20.07
rs12154017	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	6	10974455	A	G	4556	0.12	0.03	0.00	0.00	19.72
rs57349798	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	6	37518276	A	G	4556	0.10	0.02	0.00	0.00	21.88

rs62461287	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	6	51645415	T	C	4556	0.24	0.05	0.00	0.00	20.05
rs18807505 1	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	6	76275592	A	G	4556	-0.45	0.10	0.00	0.00	21.39
rs72912021	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	6	90905627	G	A	4556	0.15	0.03	0.00	0.00	20.32
rs14076676 6	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	6	109437612	T	C	4556	0.40	0.08	0.00	0.01	23.19
rs54107569 3	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	7	3009969	C	A	4556	-0.40	0.08	0.00	0.00	22.86
rs14781483 5	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	7	25059892	G	A	4556	-0.26	0.06	0.00	0.00	19.68
rs7004509	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	8	127961419	G	T	4556	-0.09	0.02	0.00	0.00	20.69
rs74701101	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	8	132914921	A	T	4556	0.20	0.04	0.00	0.01	23.92
rs14728994 5	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	9	76505824	A	G	4556	0.21	0.04	0.00	0.00	21.72
rs18226189 3	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	9	81798236	C	A	4556	-0.82	0.16	0.00	0.01	28.25
rs1387474	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	10	16347316	G	A	4556	0.12	0.03	0.00	0.00	21.32
rs77506352	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	10	122384116	T	C	4556	-0.18	0.04	0.00	0.00	20.12
rs11708955 4	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	11	15009054	T	C	4556	0.32	0.06	0.00	0.01	24.79
rs1476709	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	12	1602144	A	G	4556	-0.35	0.07	0.00	0.01	22.96
rs1426466	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	12	107378790	C	T	4556	-0.11	0.03	0.00	0.00	19.82
rs982935	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	12	126965947	A	G	4556	0.11	0.02	0.00	0.00	21.40
rs11159717 8	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	12	132705544	A	G	4556	0.21	0.05	0.00	0.00	19.78
rs9576916	Adenosine 5'- diphosphate (ADP) to glutamate	GCST90200837	13	39906310	G	A	4556	-0.10	0.02	0.00	0.01	22.98

rs11773952	Adenosine 5'-diphosphate (ADP) to glutamate	GCST90200837	13	83396878	G	T	4556	0.35	0.07	0.00	0.00	21.87
rs1738895	Adenosine 5'-diphosphate (ADP) to glutamate	GCST90200837	14	97055914	T	C	4556	0.27	0.06	0.00	0.00	21.02
rs11607	Adenosine 5'-diphosphate (ADP) to glutamate	GCST90200837	16	84054442	T	C	4556	-0.10	0.02	0.00	0.01	23.02
rs62098672	Adenosine 5'-diphosphate (ADP) to glutamate	GCST90200837	18	57147836	G	A	4556	0.50	0.11	0.00	0.00	19.63
rs189114469	Adenosine 5'-diphosphate (ADP) to glutamate	GCST90200837	19	54430935	T	G	4556	-0.33	0.07	0.00	0.00	20.90
rs79929713	Adenosine 5'-diphosphate (ADP) to glutamate	GCST90200837	21	20533740	C	T	4556	-0.32	0.07	0.00	0.00	22.42
rs1527887	Phosphate to glutamate	GCST90200838	2	49460521	G	T	8211	-0.11	0.02	0.00	0.00	21.75
rs1964459	Phosphate to glutamate	GCST90200838	2	136007504	G	C	8211	0.10	0.02	0.00	0.00	26.73
rs4861066	Phosphate to glutamate	GCST90200838	4	40808646	G	A	8211	0.07	0.02	0.00	0.00	20.45
rs62354638	Phosphate to glutamate	GCST90200838	5	36638487	A	G	8211	0.23	0.04	0.00	0.00	32.04
rs10038788	Phosphate to glutamate	GCST90200838	5	62073767	C	G	8211	-0.10	0.02	0.00	0.00	20.93
rs4639218	Phosphate to glutamate	GCST90200838	5	138162784	T	C	8211	-0.07	0.01	0.00	0.00	21.31
rs11949089	Phosphate to glutamate	GCST90200838	5	150960393	G	A	8211	0.10	0.02	0.00	0.00	19.52
rs117288293	Phosphate to glutamate	GCST90200838	7	11886938	C	T	8211	0.16	0.04	0.00	0.00	20.02
rs38153	Phosphate to glutamate	GCST90200838	7	20004978	T	C	8211	-0.30	0.06	0.00	0.00	21.88
rs28587335	Phosphate to glutamate	GCST90200838	8	28607929	G	C	8211	-0.09	0.02	0.00	0.00	21.64
rs77627840	Phosphate to glutamate	GCST90200838	9	80761452	T	G	8211	-0.18	0.04	0.00	0.00	21.36
rs9785278	Phosphate to glutamate	GCST90200838	9	116778887	C	T	8211	-0.11	0.02	0.00	0.00	21.33
rs758587	Phosphate to glutamate	GCST90200838	10	114007537	A	T	8211	0.07	0.02	0.00	0.00	21.94
rs1118898	Phosphate to glutamate	GCST90200838	13	86339121	C	T	8211	0.15	0.03	0.00	0.00	25.85
rs323471	Phosphate to glutamate	GCST90200838	13	104711838	A	C	8211	-0.08	0.02	0.00	0.00	19.51
rs2476320	Phosphate to glutamate	GCST90200838	13	113097027	A	G	8211	-0.09	0.02	0.00	0.00	23.11
rs184697623	Phosphate to glutamate	GCST90200838	14	51273141	G	A	8211	-0.30	0.07	0.00	0.00	19.78
rs6498990	Phosphate to glutamate	GCST90200838	16	52641140	G	A	8211	0.09	0.02	0.00	0.00	23.00
rs62048729	Phosphate to glutamate	GCST90200838	16	60376864	C	A	8211	-0.10	0.02	0.00	0.00	23.55
rs1108511	Phosphate to glutamate	GCST90200838	17	17823155	C	T	8211	0.15	0.03	0.00	0.00	24.15
rs113230337	Phosphate to glutamate	GCST90200838	17	50046060	A	G	8211	-0.19	0.04	0.00	0.00	19.99
rs111383346	Phosphate to glutamate	GCST90200838	18	44632396	T	G	8211	-0.14	0.03	0.00	0.00	19.90
rs6122036	Phosphate to glutamate	GCST90200838	20	63829137	G	A	8211	0.11	0.02	0.00	0.00	20.54
rs135586	Phosphate to glutamate	GCST90200838	22	47602335	G	T	8211	0.07	0.01	0.00	0.00	20.57

rs35540647	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	1	170010689	C	G	4563	0.23	0.05	0.00	0.00	20.86
rs2441672	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	2	22998844	G	C	4563	-0.37	0.08	0.00	0.00	21.23
rs34654119	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	2	229546337	C	T	4563	-0.39	0.08	0.00	0.00	21.80
rs11368869 3	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	2	234207082	C	A	4563	0.29	0.06	0.00	0.00	21.19
rs4689157	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	4	7728665	A	G	4563	-0.14	0.03	0.00	0.00	20.77
rs76793825	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	4	90118051	A	G	4563	-0.15	0.03	0.00	0.01	24.13
rs57674101	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	4	137160358	A	T	4563	-0.23	0.05	0.00	0.00	19.65
rs12195587	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	6	10989709	A	G	4563	0.12	0.03	0.00	0.00	20.60
rs11309888 7	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	6	83844353	A	C	4563	0.41	0.09	0.00	0.00	21.39
rs10236510	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	7	119632797	A	G	4563	-0.13	0.03	0.00	0.01	23.64
rs74754867	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	8	26932905	C	T	4563	0.34	0.07	0.00	0.00	21.81
rs74701101	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	8	132914921	A	T	4563	0.20	0.04	0.00	0.01	24.12
rs18226189 3	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	9	81798236	C	A	4563	-0.75	0.16	0.00	0.00	22.54
rs3741975	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	12	1591768	A	G	4563	-0.37	0.08	0.00	0.00	20.42
rs11811028 5	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	12	76187259	C	T	4563	-0.37	0.08	0.00	0.01	23.65
rs14073736 1	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	12	124939984	C	T	4563	0.89	0.19	0.00	0.00	21.80
rs1166427	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	12	126939412	C	T	4563	0.14	0.03	0.00	0.00	19.81
rs61951313	Adenosine 5'- diphosphate (ADP) to aspartate ratio	GCST90200839	12	132760645	C	T	4563	0.18	0.04	0.00	0.00	21.05

rs9576916	Adenosine 5'-diphosphate (ADP) to aspartate ratio Adenosine 5'	GCST90200839	13	39906310	G	A	4563	-0.10	0.02	0.00	0.00	22.24
rs11773952 2	diphosphate (ADP) to aspartate ratio Adenosine 5'	GCST90200839	13	83396878	G	T	4563	0.35	0.08	0.00	0.00	21.15
rs11607	diphosphate (ADP) to aspartate ratio Adenosine 5'	GCST90200839	16	84054442	T	C	4563	-0.11	0.02	0.00	0.01	27.26
rs14559516 7	diphosphate (ADP) to aspartate ratio Adenosine 5'	GCST90200839	17	14012867	C	T	4563	-0.43	0.09	0.00	0.00	21.93
rs10468503	diphosphate (ADP) to aspartate ratio Adenosine 5'	GCST90200839	17	54661426	G	A	4563	0.13	0.03	0.00	0.00	20.98
rs8107081	diphosphate (ADP) to aspartate ratio Adenosine 5'	GCST90200839	19	54940801	C	T	4563	0.14	0.03	0.00	0.00	20.07
rs14292208 4	diphosphate (ADP) to aspartate ratio Adenosine 5'	GCST90200839	22	25772890	T	C	4563	-0.42	0.09	0.00	0.00	19.62
rs3788398	diphosphate (ADP) to aspartate ratio Adenosine 5'	GCST90200839	22	26434512	G	A	4563	-0.20	0.04	0.00	0.00	19.95
rs18346493 9	(ADP) to flavin adenine dinucleotide (FAD) ratio Adenosine 5'	GCST90200840	1	188062464	A	G	3441	0.43	0.09	0.00	0.01	21.90
rs1415995	diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio Adenosine 5'	GCST90200840	1	219697270	T	G	3441	-0.13	0.03	0.00	0.01	24.99
rs2706762	diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio Adenosine 5'	GCST90200840	2	70261338	T	C	3441	0.20	0.03	0.00	0.01	34.60
rs18561617 1	diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio Adenosine 5'	GCST90200840	2	149345454	T	C	3441	-0.46	0.09	0.00	0.01	23.19
rs7643746	diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio Adenosine 5'	GCST90200840	3	155319217	T	C	3441	-0.11	0.02	0.00	0.01	21.60
rs7666482	diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio Adenosine 5'	GCST90200840	4	7400879	A	G	3441	0.12	0.03	0.00	0.01	23.28
rs6842477	diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	4	169181578	A	T	3441	-0.37	0.08	0.00	0.01	20.48

rs2584349	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	4	186614015	C	T	3441	0.11	0.02	0.00	0.01	20.70
rs11331103 6	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	5	59794557	C	T	3441	0.36	0.08	0.00	0.01	22.57
rs13897144 6	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	5	101034366	G	A	3441	0.54	0.12	0.00	0.01	20.21
rs11241352	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	5	116076586	A	G	3441	-0.11	0.02	0.00	0.01	19.70
rs55725639	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	5	142211721	G	A	3441	-0.19	0.04	0.00	0.01	24.00
rs2670125	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	6	52665106	C	T	3441	-0.11	0.02	0.00	0.01	19.64
rs34084341	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	8	86017940	A	C	3441	-0.15	0.03	0.00	0.01	23.18
rs10491672	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	9	29496813	C	G	3441	-0.13	0.03	0.00	0.01	20.09
rs11816365 3	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	9	81803285	G	A	3441	-0.79	0.18	0.00	0.01	20.17
rs13894324 0	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	9	85822975	G	A	3441	0.51	0.10	0.00	0.01	24.82
rs73419800	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	11	11392597	T	C	3441	0.18	0.04	0.00	0.01	21.89
rs17111843	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	11	110809840	A	T	3441	0.43	0.10	0.00	0.01	19.74

rs61924737	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	12	25863824	T	C	3441	0.42	0.09	0.00	0.01	19.97
rs61951309	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	12	132755776	C	G	3441	0.24	0.05	0.00	0.01	20.89
rs163373	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	17	15598928	G	A	3441	-0.43	0.10	0.00	0.01	20.06
rs10468503	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	17	54661426	G	A	3441	0.15	0.03	0.00	0.01	19.66
rs14417688 8	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	19	41055695	A	G	3441	-0.38	0.08	0.00	0.01	21.32
rs14799860 6	Adenosine 5'- diphosphate (ADP) to flavin adenine dinucleotide (FAD) ratio	GCST90200840	20	43842629	C	T	3441	0.40	0.08	0.00	0.01	24.53
rs77632972	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	1	199834710	C	A	4556	-0.13	0.03	0.00	0.00	19.80
rs11695769	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	2	172951239	A	G	4556	0.09	0.02	0.00	0.00	20.15
rs79011498	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	2	195461415	G	C	4556	-0.35	0.08	0.00	0.00	19.61
rs80332390	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	2	234191055	C	A	4556	0.29	0.06	0.00	0.00	21.83
rs1882315	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	3	54770445	G	A	4556	0.18	0.04	0.00	0.00	19.70
rs14061377 1	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	3	80316442	T	C	4556	0.50	0.10	0.00	0.01	23.05

rs28757678	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	4	31380084	A	C	4556	-0.10	0.02	0.00	0.00	20.67
rs11132432	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	4	168723452	C	T	4556	0.14	0.03	0.00	0.00	22.03
rs1041213	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	6	2353442	G	A	4556	-0.11	0.02	0.00	0.01	24.77
rs6920224	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	6	36784864	C	A	4556	-0.14	0.03	0.00	0.00	20.99
rs11335215 2	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	7	62754819	T	C	4556	1.98	0.44	0.00	0.00	20.18
rs11694664 8	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	8	594819	A	G	4556	0.65	0.14	0.00	0.00	21.63
rs74754867	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	8	26932905	C	T	4556	0.35	0.07	0.00	0.00	21.97
rs7829662	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	8	100846652	G	T	4556	-0.14	0.03	0.00	0.00	20.78
rs2299639	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	11	17419838	T	C	4556	-0.12	0.03	0.00	0.00	22.72
rs12805594	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	11	67620559	T	C	4556	-0.10	0.02	0.00	0.00	21.04
rs10785350	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	12	42597336	T	C	4556	0.11	0.02	0.00	0.00	21.08
rs7305350	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	12	96420684	G	A	4556	0.28	0.06	0.00	0.00	22.32

rs2181066	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	14	95684913	T	C	4556	0.10	0.02	0.00	0.00	19.93
rs140272073	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	17	78730341	T	C	4556	-0.37	0.07	0.00	0.01	28.79
rs143031595	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	17	79155794	G	C	4556	0.28	0.06	0.00	0.01	23.76
rs34231010	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	18	78131275	C	T	4556	0.10	0.02	0.00	0.00	19.80
rs62103136	Adenosine 5'- diphosphate (ADP) to oxalate (ethanedioate) ratio	GCST90200841	19	34032190	C	T	4556	-0.17	0.04	0.00	0.00	19.56
rs142949221	Citrate to oxalate (ethanedioate) ratio	GCST90200842	1	172888877	A	G	8097	-0.26	0.05	0.00	0.00	26.31
rs10202530	Citrate to oxalate (ethanedioate) ratio	GCST90200842	2	106803555	T	G	8097	0.11	0.02	0.00	0.00	22.45
rs62167123	Citrate to oxalate (ethanedioate) ratio	GCST90200842	2	123350849	A	G	8097	-0.21	0.05	0.00	0.00	20.65
rs12327962	Citrate to oxalate (ethanedioate) ratio	GCST90200842	2	144461038	A	G	8097	0.11	0.02	0.00	0.00	24.63
rs72900907	Citrate to oxalate (ethanedioate) ratio	GCST90200842	2	185257113	C	G	8097	0.14	0.03	0.00	0.00	21.87
rs62198250	Citrate to oxalate (ethanedioate) ratio	GCST90200842	2	214406777	A	G	8097	-0.10	0.02	0.00	0.00	20.54
rs2167593	Citrate to oxalate (ethanedioate) ratio	GCST90200842	3	62497122	A	G	8097	-0.16	0.03	0.00	0.00	22.92
rs75037884	Citrate to oxalate (ethanedioate) ratio	GCST90200842	5	61807657	T	C	8097	0.13	0.03	0.00	0.00	20.18
rs33972313	Citrate to oxalate (ethanedioate) ratio	GCST90200842	5	139379813	T	C	8097	0.32	0.05	0.00	0.01	51.10
rs9690519	Citrate to oxalate (ethanedioate) ratio	GCST90200842	7	17704861	C	T	8097	-0.10	0.02	0.00	0.00	20.86
rs141217029	Citrate to oxalate (ethanedioate) ratio	GCST90200842	8	1534822	T	C	8097	0.32	0.07	0.00	0.00	22.97

rs13300926	Citrate to oxalate (ethanedioate) ratio	GCST90200842	9	16285261	G	A	8097	-0.13	0.03	0.00	0.00	21.97
rs112268836	Citrate to oxalate (ethanedioate) ratio	GCST90200842	9	98839030	C	T	8097	-0.35	0.08	0.00	0.00	20.57
rs55836930	Citrate to oxalate (ethanedioate) ratio	GCST90200842	12	118980699	G	T	8097	-0.23	0.05	0.00	0.00	21.32
rs9317542	Citrate to oxalate (ethanedioate) ratio	GCST90200842	13	65824949	C	A	8097	-0.08	0.02	0.00	0.00	22.58
rs4982702	Citrate to oxalate (ethanedioate) ratio	GCST90200842	14	22894123	A	G	8097	0.08	0.02	0.00	0.00	21.26
rs2745513	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	1	39922933	A	G	6188	0.09	0.02	0.00	0.00	20.87
rs4950337	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	1	147721688	C	G	6188	-0.20	0.04	0.00	0.00	20.86
rs2706762	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	2	70261338	T	C	6188	0.25	0.02	0.00	0.02	98.71
rs73990335	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	2	215641964	G	A	6188	-0.27	0.06	0.00	0.00	23.79
rs138959835	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	3	41773029	A	G	6188	-0.33	0.07	0.00	0.00	25.07
rs1491753	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	3	68353783	G	T	6188	-0.13	0.03	0.00	0.00	20.78
rs7651967	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	3	84332496	A	T	6188	-0.10	0.02	0.00	0.00	22.93
rs2317931	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	3	96969114	T	A	6188	0.13	0.03	0.00	0.00	20.86
rs2112212	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	5	109789371	G	C	6188	0.09	0.02	0.00	0.00	24.96

rs115959678	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	6	31358303	C	T	6188	-0.20	0.04	0.00	0.00	26.26
rs76647965	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	6	170162237	G	C	6188	0.14	0.03	0.00	0.00	21.70
rs77263941	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	7	49708715	T	C	6188	0.27	0.06	0.00	0.00	19.72
rs111969302	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	7	93057301	C	T	6188	-0.28	0.06	0.00	0.00	19.71
rs56318429	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	14	34726964	T	C	6188	-0.22	0.05	0.00	0.00	22.77
rs142867447	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	16	17495196	A	G	6188	0.27	0.06	0.00	0.00	19.79
rs142441097	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	21	14037195	A	C	6188	-0.31	0.07	0.00	0.00	20.37
rs856994	Adenosine 5'-monophosphate (AMP) to flavin adenine dinucleotide (FAD) ratio	GCST90200843	21	39533203	T	C	6188	-0.09	0.02	0.00	0.00	19.68
rs60084385	Aspartate to phosphate	GCST90200844	2	102122820	G	T	8297	0.07	0.01	0.00	0.00	24.19
rs17331931	Aspartate to phosphate	GCST90200844	2	185574031	G	A	8297	-0.12	0.03	0.00	0.00	23.59
rs1354034	Aspartate to phosphate	GCST90200844	3	56815721	C	T	8297	0.15	0.01	0.00	0.01	97.59
rs12636534	Aspartate to phosphate	GCST90200844	3	120303315	A	G	8297	0.10	0.02	0.00	0.00	19.72
rs62354638	Aspartate to phosphate	GCST90200844	5	36638487	A	G	8297	-0.22	0.04	0.00	0.00	28.49
rs62366562	Aspartate to phosphate	GCST90200844	5	105470032	G	A	8297	0.08	0.02	0.00	0.00	20.16
rs4639218	Aspartate to phosphate	GCST90200844	5	138162784	T	C	8297	0.07	0.01	0.00	0.00	20.03
rs75628965	Aspartate to phosphate	GCST90200844	6	86256187	T	C	8297	0.16	0.03	0.00	0.00	21.92
rs79961837	Aspartate to phosphate	GCST90200844	6	100820533	T	C	8297	0.31	0.06	0.00	0.00	22.44
rs75061547	Aspartate to phosphate	GCST90200844	7	135777504	C	A	8297	-0.11	0.02	0.00	0.00	22.83
rs139461673	Aspartate to phosphate	GCST90200844	8	100232225	C	T	8297	0.25	0.06	0.00	0.00	19.59
rs2291133	Aspartate to phosphate	GCST90200844	8	144467379	T	G	8297	-0.07	0.01	0.00	0.00	21.13
rs56257551	Aspartate to phosphate	GCST90200844	11	259575	T	C	8297	0.11	0.02	0.00	0.00	19.91

rs140924568	Aspartate to phosphate	GCST90200844	11	62543654	T	C	8297	-0.28	0.06	0.00	0.00	19.57
rs12102586	Aspartate to phosphate	GCST90200844	16	27366732	T	C	8297	0.13	0.03	0.00	0.00	24.59
rs113402032	Aspartate to phosphate	GCST90200844	17	34828940	A	G	8297	0.10	0.02	0.00	0.00	24.98
rs111383346	Aspartate to phosphate	GCST90200844	18	44632396	T	G	8297	0.15	0.03	0.00	0.00	21.27
rs2505722	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	1	22215952	T	G	8193	-0.08	0.02	0.00	0.00	24.58
rs4643516	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	2	35330201	G	C	8193	0.08	0.02	0.00	0.00	20.36
rs1401685	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	2	136179943	C	A	8193	-0.24	0.05	0.00	0.00	21.04
rs60110084	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	3	8695451	G	A	8193	-0.14	0.03	0.00	0.00	20.44
rs114357703	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	3	23417793	A	G	8193	0.17	0.04	0.00	0.00	19.73
rs7642825	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	3	96327163	A	G	8193	-0.15	0.03	0.00	0.00	20.25
rs76097375	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	3	169902054	T	A	8193	-0.12	0.03	0.00	0.00	19.72
rs112885835	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	7	105937566	G	C	8193	0.20	0.04	0.00	0.00	20.33
rs79857089	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	8	4096050	C	G	8193	-0.17	0.04	0.00	0.00	21.86
rs6993770	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	8	105569300	T	A	8193	-0.08	0.02	0.00	0.00	19.54
rs117592663	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	9	135469557	A	G	8193	0.33	0.07	0.00	0.00	20.19
rs139721493	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	10	58793279	T	C	8193	0.26	0.05	0.00	0.00	24.98
rs118182258	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	10	60980126	A	G	8193	0.23	0.05	0.00	0.00	23.65
rs2348757	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	10	83097108	C	T	8193	-0.08	0.02	0.00	0.00	20.67
rs6590821	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	11	100774733	C	T	8193	0.07	0.02	0.00	0.00	20.63
rs182535564	Adenosine 5'-monophosphate (AMP) to citrate ratio	GCST90200845	12	92148278	A	T	8193	0.23	0.05	0.00	0.00	19.98

rs7490087	Adenosine 5'- monophosphate (AMP) to citrate ratio	GCST90200845	13	37953200	A	C	8193	-0.08	0.02	0.00	0.00	22.18
rs75562045	Adenosine 5'- monophosphate (AMP) to citrate ratio	GCST90200845	13	61523158	A	G	8193	-0.23	0.05	0.00	0.00	19.77
rs11236805 1	Adenosine 5'- monophosphate (AMP) to citrate ratio	GCST90200845	13	69314269	T	C	8193	0.20	0.04	0.00	0.00	20.76
rs75039646	Adenosine 5'- monophosphate (AMP) to citrate ratio	GCST90200845	16	17540208	A	C	8193	0.14	0.03	0.00	0.00	19.91
rs12597173	Adenosine 5'- monophosphate (AMP) to citrate ratio	GCST90200845	16	49473453	C	G	8193	-0.10	0.02	0.00	0.00	19.76
rs75060966	Adenosine 5'- monophosphate (AMP) to citrate ratio	GCST90200845	18	46669253	A	G	8193	0.17	0.04	0.00	0.00	22.24
rs11810331 1	Adenosine 5'- monophosphate (AMP) to citrate ratio	GCST90200845	18	74407627	C	T	8193	-0.28	0.06	0.00	0.00	23.25
rs12132412	Phenylalanine to phosphate ratio	GCST90200846	1	21493549	G	A	8294	-0.07	0.02	0.00	0.00	21.77
rs10196179	Phenylalanine to phosphate ratio	GCST90200846	2	18261617	A	T	8294	0.19	0.04	0.00	0.00	21.05
rs11128705	Phenylalanine to phosphate ratio	GCST90200846	3	14541162	C	T	8294	0.08	0.02	0.00	0.00	20.33
rs62243191	Phenylalanine to phosphate ratio	GCST90200846	3	45488461	G	A	8294	0.37	0.08	0.00	0.00	22.86
rs2057795	Phenylalanine to phosphate ratio	GCST90200846	5	11154485	C	T	8294	-0.07	0.02	0.00	0.00	21.35
rs14610656 0	Phenylalanine to phosphate ratio	GCST90200846	5	26499143	T	C	8294	-0.35	0.08	0.00	0.00	19.80
rs9469581	Phenylalanine to phosphate ratio	GCST90200846	6	33748127	A	C	8294	0.14	0.03	0.00	0.00	21.99
rs236865	Phenylalanine to phosphate ratio	GCST90200846	6	78587039	G	C	8294	-0.07	0.02	0.00	0.00	22.00
rs73055850	Phenylalanine to phosphate ratio	GCST90200846	7	7825048	C	T	8294	0.30	0.06	0.00	0.00	22.43
rs10265861	Phenylalanine to phosphate ratio	GCST90200846	7	25475038	A	G	8294	0.10	0.02	0.00	0.00	24.86
rs77625001	Phenylalanine to phosphate ratio	GCST90200846	8	117235655	A	G	8294	0.20	0.04	0.00	0.00	20.51
rs923218	Phenylalanine to phosphate ratio	GCST90200846	11	24818094	T	A	8294	0.08	0.02	0.00	0.00	24.02
rs11063179	Phenylalanine to phosphate ratio	GCST90200846	12	4471322	A	G	8294	-0.12	0.02	0.00	0.00	27.83
rs7959020	Phenylalanine to phosphate ratio	GCST90200846	12	29095058	T	C	8294	0.10	0.02	0.00	0.00	24.31
rs10160882	Phenylalanine to phosphate ratio	GCST90200846	12	77683374	C	G	8294	-0.14	0.03	0.00	0.00	20.37

rs10860932	Phenylalanine to phosphate ratio	GCST90200846	12	102861843	A	G	8294	0.11	0.02	0.00	0.00	38.47
rs6562707	Phenylalanine to phosphate ratio	GCST90200846	13	72468782	A	G	8294	0.07	0.02	0.00	0.00	19.52
rs10873167	Phenylalanine to phosphate ratio	GCST90200846	14	63137470	C	A	8294	0.08	0.02	0.00	0.00	19.87
rs11633747	Phenylalanine to phosphate ratio	GCST90200846	15	80641245	G	A	8294	-0.08	0.02	0.00	0.00	20.72
rs34924625	Phenylalanine to phosphate ratio	GCST90200846	16	69432734	G	A	8294	-0.25	0.05	0.00	0.00	21.30
rs12918636	Phenylalanine to phosphate ratio	GCST90200846	16	77867247	C	A	8294	0.11	0.02	0.00	0.00	22.74
rs19024474 1	Phenylalanine to phosphate ratio	GCST90200846	18	35813892	C	T	8294	0.07	0.02	0.00	0.00	20.05
rs15104370 2	Phenylalanine to phosphate ratio	GCST90200846	18	67217364	G	A	8294	0.31	0.07	0.00	0.00	19.95
rs73341961	Phenylalanine to phosphate ratio	GCST90200846	21	14454276	C	A	8294	0.22	0.05	0.00	0.00	19.92
rs12132412	Phosphate to tryptophan ratio	GCST90200847	1	21493549	G	A	8206	0.09	0.02	0.00	0.00	34.03
rs4653032	Phosphate to tryptophan ratio	GCST90200847	1	34437309	A	C	8206	0.08	0.02	0.00	0.00	19.92
rs1206399	Phosphate to tryptophan ratio	GCST90200847	2	51467903	T	A	8206	0.12	0.03	0.00	0.00	20.79
rs76572730	Phosphate to tryptophan ratio	GCST90200847	2	170031803	A	G	8206	-0.09	0.02	0.00	0.00	20.26
rs72989286	Phosphate to tryptophan ratio	GCST90200847	2	235966355	G	A	8206	0.26	0.05	0.00	0.00	22.37
rs13074941	Phosphate to tryptophan ratio	GCST90200847	3	29088241	C	T	8206	0.07	0.02	0.00	0.00	20.57
rs13094097	Phosphate to tryptophan ratio	GCST90200847	3	152172874	G	A	8206	-0.08	0.02	0.00	0.00	21.57
rs985335	Phosphate to tryptophan ratio	GCST90200847	4	155856376	C	T	8206	0.10	0.02	0.00	0.00	22.48
rs35846365	Phosphate to tryptophan ratio	GCST90200847	4	177362790	C	T	8206	0.28	0.06	0.00	0.00	23.39
rs11134683	Phosphate to tryptophan ratio	GCST90200847	5	171331978	C	T	8206	-0.07	0.02	0.00	0.00	20.21
rs76462891	Phosphate to tryptophan ratio	GCST90200847	6	81978929	G	A	8206	-0.15	0.03	0.00	0.00	20.08
rs403667	Phosphate to tryptophan ratio	GCST90200847	6	111589401	C	T	8206	-0.11	0.02	0.00	0.00	32.36
rs2228595	Phosphate to tryptophan ratio	GCST90200847	7	86786671	T	C	8206	-0.14	0.03	0.00	0.00	20.37
rs535690	Phosphate to tryptophan ratio	GCST90200847	11	93107156	G	A	8206	-0.07	0.01	0.00	0.00	20.32
rs2970818	Phosphate to tryptophan ratio	GCST90200847	12	4497002	A	T	8206	0.11	0.02	0.00	0.00	21.41

rs73222277	Phosphate to tryptophan ratio	GCST90200847	12	122527964	T	C	8206	0.27	0.06	0.00	0.00	23.54
rs9578579	Phosphate to tryptophan ratio	GCST90200847	13	23313809	A	G	8206	-0.07	0.02	0.00	0.00	20.29
rs11633747	Phosphate to tryptophan ratio	GCST90200847	15	80641245	G	A	8206	0.07	0.02	0.00	0.00	19.93
rs1452448	Phosphate to tryptophan ratio	GCST90200847	15	86741934	G	C	8206	-0.07	0.02	0.00	0.00	20.27
rs11762397 6	Phosphate to tryptophan ratio	GCST90200847	18	53394009	T	A	8206	-0.21	0.05	0.00	0.00	21.19
rs2505722	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	1	22215952	T	G	8196	-0.08	0.02	0.00	0.00	23.50
rs13390128	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	2	125663470	T	C	8196	0.23	0.05	0.00	0.00	20.67
rs60110084	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	3	8695451	G	A	8196	-0.16	0.03	0.00	0.00	25.28
rs55719753	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	5	8048433	C	T	8196	0.19	0.04	0.00	0.00	19.77
rs11288583 5	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	7	105937566	G	C	8196	0.20	0.04	0.00	0.00	19.55
rs14130242 5	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	8	10152271	A	G	8196	0.41	0.08	0.00	0.00	23.20
rs550057	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	9	133271182	C	T	8196	0.08	0.02	0.00	0.00	21.18
rs11818225 8	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	10	60980126	A	G	8196	0.23	0.05	0.00	0.00	22.36
rs2348757	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	10	83097108	C	T	8196	-0.08	0.02	0.00	0.00	20.02
rs75350542	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	12	6295614	A	C	8196	-0.25	0.06	0.00	0.00	19.73
rs2933243	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	12	56466793	A	G	8196	0.10	0.02	0.00	0.00	28.59
rs7490087	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	13	37953200	A	C	8196	-0.07	0.02	0.00	0.00	20.50
rs76500183	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	14	49532930	G	A	8196	0.29	0.07	0.00	0.00	19.52
rs75039646	Adenosine 5'- monophosphate (AMP) to glutamine	GCST90200848	16	17540208	A	C	8196	0.15	0.03	0.00	0.00	24.50

rs12597173	Adenosine 5'- monophosphat e (AMP) to glutamine	GCST90200848	16	49473453	C	G	8196	-0.11	0.02	0.00	0.00	21.94
rs12941798	Adenosine 5'- monophosphat e (AMP) to glutamine	GCST90200848	17	55212120	A	G	8196	-0.08	0.02	0.00	0.00	22.65
rs11810331	Adenosine 5'- monophosphat e (AMP) to glutamine	GCST90200848	18	74407627	C	T	8196	-0.26	0.06	0.00	0.00	20.29
rs14288878	Adenosine 5'- monophosphat e (AMP) to glutamine	GCST90200848	19	38320104	G	C	8196	-0.23	0.05	0.00	0.00	21.75
rs6517376	Adenosine 5'- monophosphat e (AMP) to glutamine	GCST90200848	21	36703581	C	T	8196	0.26	0.06	0.00	0.00	22.07
rs174759	Adenosine 5'- monophosphat e (AMP) to glutamine	GCST90200848	22	29295393	T	A	8196	-0.07	0.02	0.00	0.00	23.17
rs14900611	Adenosine 5'- monophosphat e (AMP) to threonine ratio	GCST90200849	1	7625255	A	G	8173	-0.33	0.07	0.00	0.00	19.87
rs1887539	Adenosine 5'- monophosphat e (AMP) to threonine ratio	GCST90200849	1	78306045	T	C	8173	-0.08	0.02	0.00	0.00	22.93
rs14734772	Adenosine 5'- monophosphat e (AMP) to threonine ratio	GCST90200849	1	188899217	T	C	8173	-0.25	0.06	0.00	0.00	19.59
rs11477394	Adenosine 5'- monophosphat e (AMP) to threonine ratio	GCST90200849	2	4393930	T	C	8173	0.23	0.05	0.00	0.00	21.86
rs780096	Adenosine 5'- monophosphat e (AMP) to threonine ratio	GCST90200849	2	27518205	G	C	8173	-0.07	0.02	0.00	0.00	19.89
rs61123534	Adenosine 5'- monophosphat e (AMP) to threonine ratio	GCST90200849	2	67867328	C	T	8173	0.35	0.08	0.00	0.00	20.79
rs19120200	Adenosine 5'- monophosphat e (AMP) to threonine ratio	GCST90200849	2	158330308	T	G	8173	-0.34	0.08	0.00	0.00	19.56
rs60110084	Adenosine 5'- monophosphat e (AMP) to threonine ratio	GCST90200849	3	8695451	G	A	8173	-0.16	0.03	0.00	0.00	24.71
rs6792151	Adenosine 5'- monophosphat e (AMP) to threonine ratio	GCST90200849	3	171812145	G	T	8173	0.10	0.02	0.00	0.00	20.23
rs79386316	Adenosine 5'- monophosphat e (AMP) to threonine ratio	GCST90200849	3	184391714	T	C	8173	0.14	0.03	0.00	0.00	21.69
rs55719753	Adenosine 5'- monophosphat e (AMP) to threonine ratio	GCST90200849	5	8048433	C	T	8173	0.19	0.04	0.00	0.00	21.15
rs14821423	Adenosine 5'- monophosphat e (AMP) to threonine ratio	GCST90200849	5	104075839	T	C	8173	0.11	0.02	0.00	0.00	19.79

rs57113415	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	6	73283338	A	T	8173	-0.10	0.02	0.00	0.00	22.24
rs190422137	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	6	121930546	G	A	8173	0.19	0.04	0.00	0.00	20.55
rs73139239	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	7	78517172	A	G	8173	-0.22	0.05	0.00	0.00	21.31
rs141302425	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	8	10152271	A	G	8173	0.38	0.09	0.00	0.00	19.89
rs185152621	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	8	20086921	G	A	8173	0.36	0.08	0.00	0.00	19.51
rs140953136	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	8	114160919	G	A	8173	0.21	0.04	0.00	0.00	22.96
rs7871622	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	9	1279854	G	A	8173	-0.07	0.02	0.00	0.00	19.74
rs1002878	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	9	22184389	C	T	8173	-0.08	0.02	0.00	0.00	20.78
rs11138640	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	9	80381056	T	A	8173	-0.10	0.02	0.00	0.00	21.86
rs2348757	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	10	83097108	C	T	8173	-0.08	0.02	0.00	0.00	19.78
rs624580	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	11	75708188	C	T	8173	0.49	0.11	0.00	0.00	19.96
rs11846826	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	14	62249072	A	G	8173	-0.10	0.02	0.00	0.00	21.08
rs4456500	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	16	53343018	A	G	8173	-0.07	0.02	0.00	0.00	20.06
rs7193227	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	16	60914047	G	A	8173	-0.09	0.02	0.00	0.00	21.49
rs552739367	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	17	7885745	A	G	8173	0.11	0.02	0.00	0.00	20.04
rs12941798	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	17	55212120	A	G	8173	-0.08	0.02	0.00	0.00	23.52
rs35156498	Adenosine 5'- monophosphate (AMP) to threonine ratio	GCST90200849	17	75080512	G	T	8173	-0.14	0.03	0.00	0.00	21.24
rs2505722	monophosphate (AMP) to tryptophan ratio	GCST90200850	1	22215952	T	G	8180	-0.07	0.02	0.00	0.00	21.55

rs1887539	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	1	78306045	T	C	8180	-0.08	0.02	0.00	0.00	20.64
rs191202003	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	2	158330308	T	G	8180	-0.34	0.08	0.00	0.00	20.47
rs60110084	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	3	8695451	G	A	8180	-0.16	0.03	0.00	0.00	25.09
rs144161168	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	3	184300053	T	G	8180	-0.29	0.06	0.00	0.00	21.06
rs12646084	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	4	27779849	C	T	8180	0.11	0.03	0.00	0.00	19.76
rs9313221	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	5	8061839	G	A	8180	0.15	0.03	0.00	0.00	19.57
rs194493	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	5	73051700	G	T	8180	-0.07	0.02	0.00	0.00	22.65
rs2395568	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	6	34517343	G	A	8180	-0.24	0.05	0.00	0.00	23.56
rs4946601	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	6	121920807	A	C	8180	0.19	0.04	0.00	0.00	21.39
rs141302425	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	8	10152271	A	G	8180	0.40	0.08	0.00	0.00	22.56
rs74332769	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	10	214104	C	T	8180	0.09	0.02	0.00	0.00	21.04
rs139721493	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	10	58793279	T	C	8180	0.24	0.05	0.00	0.00	22.24
rs118182258	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	10	60980126	A	G	8180	0.22	0.05	0.00	0.00	21.81
rs676206	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	11	75576830	A	C	8180	0.08	0.02	0.00	0.00	20.13

rs75350542	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	12	6295614	A	C	8180	-0.26	0.06	0.00	0.00	20.49
rs111557145	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	12	40827422	C	T	8180	0.09	0.02	0.00	0.00	21.65
rs182535564	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	12	92148278	A	T	8180	0.22	0.05	0.00	0.00	19.84
rs2264772	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	12	116440229	G	C	8180	0.08	0.02	0.00	0.00	22.21
rs4644745	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	13	37978827	A	G	8180	-0.08	0.02	0.00	0.00	24.28
rs76442921	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	13	46610551	T	C	8180	0.12	0.02	0.00	0.00	23.78
rs112368051	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	13	69314269	T	C	8180	0.20	0.04	0.00	0.00	21.80
rs144612973	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	14	44213611	G	A	8180	0.09	0.02	0.00	0.00	22.19
rs11846826	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	14	62249072	A	G	8180	-0.11	0.02	0.00	0.00	23.08
rs7205510	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	16	27310077	G	A	8180	0.08	0.02	0.00	0.00	22.26
rs34085755	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	16	82957833	G	A	8180	0.28	0.06	0.00	0.00	20.01
rs118103311	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	18	74407627	C	T	8180	-0.28	0.06	0.00	0.00	24.20
rs6517376	Adenosine 5'- monophosphate (AMP) to tryptophan ratio	GCST90200850	21	36703581	C	T	8180	0.25	0.06	0.00	0.00	20.17
rs1887539	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	1	78306045	T	C	8195	-0.08	0.02	0.00	0.00	19.75
rs61833951	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	1	243395483	G	A	8195	0.08	0.02	0.00	0.00	21.84

rs1047891	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	2	210675783	A	C	8195	-0.29	0.02	0.00	0.04	320.36
rs75008620	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	2	233082285	T	C	8195	-0.27	0.06	0.00	0.00	21.15
rs60110084	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	3	8695451	G	A	8195	-0.15	0.03	0.00	0.00	22.84
rs6781900	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	3	73914824	C	A	8195	0.10	0.02	0.00	0.00	24.03
rs6888757	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	5	4728323	C	T	8195	0.09	0.02	0.00	0.00	20.08
rs309621	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	5	56149452	G	A	8195	-0.16	0.04	0.00	0.00	21.31
rs1503281	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	8	3270041	T	C	8195	0.13	0.03	0.00	0.00	21.35
rs72650372	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	8	54842771	T	C	8195	0.30	0.06	0.00	0.00	21.99
rs3758348	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	9	133372523	C	G	8195	-0.10	0.02	0.00	0.00	20.26
rs665328	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	11	103989631	T	C	8195	0.10	0.02	0.00	0.00	20.52
rs117238367	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	12	16644021	T	C	8195	0.28	0.06	0.00	0.00	20.93
rs1453280	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	14	49482877	T	C	8195	-0.24	0.05	0.00	0.00	20.33
rs143783394	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	14	51030636	C	T	8195	0.25	0.06	0.00	0.00	19.99
rs67198495	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	15	100876438	G	C	8195	-0.12	0.03	0.00	0.00	20.63
rs75039646	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	16	17540208	A	C	8195	0.16	0.03	0.00	0.00	25.10
rs12597173	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	16	49473453	C	G	8195	-0.10	0.02	0.00	0.00	19.70
rs141655220	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	17	52288726	A	G	8195	-0.32	0.07	0.00	0.00	21.64
rs4257284	Adenosine 5'- monophosphate (AMP) to glycine ratio	GCST90200851	18	25268228	A	G	8195	-0.08	0.02	0.00	0.00	21.51

rs142888784	Adenosine 5'-monophosphate (AMP) to glycine ratio	GCST90200851	19	38320104	G	C	8195	-0.24	0.05	0.00	0.00	22.59
rs144019790	Adenosine 5'-monophosphate (AMP) to glycine ratio	GCST90200851	19	53807453	T	C	8195	-0.40	0.09	0.00	0.00	20.65
rs146605937	Adenosine 5'-monophosphate (AMP) to glycine ratio	GCST90200851	20	11906082	G	A	8195	0.31	0.07	0.00	0.00	21.06
rs6517376	Adenosine 5'-monophosphate (AMP) to glycine ratio	GCST90200851	21	36703581	C	T	8195	0.26	0.06	0.00	0.00	20.03
rs174759	Adenosine 5'-monophosphate (AMP) to glycine ratio	GCST90200851	22	29295393	T	A	8195	-0.07	0.02	0.00	0.00	19.60
rs74106750	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	1	101192325	T	G	8185	-0.11	0.02	0.00	0.00	23.61
rs13013975	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	2	37586230	G	C	8185	0.08	0.02	0.00	0.00	19.75
rs6545838	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	2	60977464	T	C	8185	-0.16	0.03	0.00	0.00	20.38
rs13390128	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	2	125663470	T	C	8185	0.23	0.05	0.00	0.00	20.50
rs60110084	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	3	8695451	G	A	8185	-0.14	0.03	0.00	0.00	20.70
rs142131136	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	3	42431036	T	C	8185	-0.35	0.08	0.00	0.00	19.81
rs76792361	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	4	74334768	G	A	8185	0.34	0.08	0.00	0.00	19.52
rs72746077	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	5	38785431	T	C	8185	0.18	0.04	0.00	0.00	20.60
rs61165682	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	5	122975066	T	C	8185	-0.10	0.02	0.00	0.00	21.09
rs7806746	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	7	1035937	C	A	8185	-0.07	0.02	0.00	0.00	19.89
rs10232072	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	7	80953280	C	T	8185	0.08	0.02	0.00	0.00	24.63
rs181347795	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	7	83122442	T	C	8185	-0.34	0.08	0.00	0.00	19.54
rs78939662	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	9	135473996	G	C	8185	0.25	0.06	0.00	0.00	19.75

rs118182258	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	10	60980126	A	G	8185	0.22	0.05	0.00	0.00	20.46
rs115841103	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	15	89033454	T	C	8185	0.21	0.04	0.00	0.00	23.39
rs75039646	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	16	17540208	A	C	8185	0.15	0.03	0.00	0.00	23.58
rs28520801	Adenosine 5'-monophosphate (AMP) to arginine ratio	GCST90200852	19	29449957	T	C	8185	0.09	0.02	0.00	0.00	21.40
rs2744738	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	1	22225320	C	T	8193	-0.07	0.02	0.00	0.00	22.99
rs72664200	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	1	54252241	C	T	8193	-0.17	0.04	0.00	0.00	20.03
rs1887539	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	1	78306045	T	C	8193	-0.08	0.02	0.00	0.00	19.69
rs34751177	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	1	112023789	T	G	8193	0.08	0.02	0.00	0.00	20.09
rs79732314	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	1	237804843	C	A	8193	0.21	0.05	0.00	0.00	19.82
rs60110084	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	3	8695451	G	A	8193	-0.15	0.03	0.00	0.00	23.60
rs59118593	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	5	137502638	T	C	8193	0.27	0.06	0.00	0.00	19.57
rs2395568	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	6	34517343	G	A	8193	-0.23	0.05	0.00	0.00	21.77
rs181347795	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	7	83122442	T	C	8193	-0.34	0.08	0.00	0.00	19.59
rs13279344	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	8	94751263	T	C	8193	-0.09	0.02	0.00	0.00	22.55
rs117903959	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	10	60949914	A	C	8193	0.24	0.05	0.00	0.00	25.00
rs676206	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	11	75576830	A	C	8193	0.08	0.02	0.00	0.00	22.43
rs12786734	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	11	120368901	G	A	8193	-0.20	0.04	0.00	0.00	20.94
rs181304197	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	12	86315457	T	C	8193	-0.15	0.03	0.00	0.00	21.61

rs4296122	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	12	116409911	C	G	8193	0.09	0.02	0.00	0.00	20.58
rs112368051	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	13	69314269	T	C	8193	0.21	0.04	0.00	0.00	23.19
rs13332134	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	16	1629438	C	T	8193	-0.09	0.02	0.00	0.00	19.82
rs118103311	Adenosine 5'-monophosphate (AMP) to tyrosine ratio	GCST90200853	18	74407627	C	T	8193	-0.27	0.06	0.00	0.00	21.78
rs4654748	Arginine to phosphate	GCST90200854	1	21459575	T	C	8297	-0.08	0.02	0.00	0.00	26.10
rs74106750	Arginine to phosphate	GCST90200854	1	101192325	T	G	8297	0.11	0.02	0.00	0.00	24.90
rs12328316	Arginine to phosphate	GCST90200854	2	3821470	G	A	8297	0.08	0.02	0.00	0.00	20.06
rs150284500	Arginine to phosphate	GCST90200854	2	12305946	T	A	8297	0.30	0.07	0.00	0.00	21.49
rs10171897	Arginine to phosphate	GCST90200854	2	120512596	G	A	8297	0.09	0.02	0.00	0.00	20.09
rs1047891	Arginine to phosphate	GCST90200854	2	210675783	A	C	8297	-0.08	0.02	0.00	0.00	23.61
rs11128705	Arginine to phosphate	GCST90200854	3	14541162	C	T	8297	0.08	0.02	0.00	0.00	20.02
rs4502705	Arginine to phosphate	GCST90200854	4	77083515	A	G	8297	0.09	0.02	0.00	0.00	31.23
rs74995118	Arginine to phosphate	GCST90200854	4	82228190	C	T	8297	0.18	0.04	0.00	0.00	20.69
rs77032225	Arginine to phosphate	GCST90200854	4	91049630	A	G	8297	-0.39	0.08	0.00	0.00	20.78
rs2246012	Arginine to phosphate	GCST90200854	6	131577068	C	T	8297	0.17	0.02	0.00	0.01	71.75
rs16875071	Arginine to phosphate	GCST90200854	7	29511718	G	A	8297	0.10	0.02	0.00	0.00	19.57
rs74763072	Arginine to phosphate	GCST90200854	8	17562860	A	G	8297	-0.26	0.05	0.00	0.00	28.42
rs2182168	Arginine to phosphate	GCST90200854	10	98388596	G	C	8297	0.13	0.02	0.00	0.01	64.48
rs1671509	Arginine to phosphate	GCST90200854	12	16141115	T	C	8297	-0.07	0.02	0.00	0.00	20.86
rs4931193	Arginine to phosphate	GCST90200854	12	29480912	A	G	8297	0.07	0.02	0.00	0.00	20.89
rs17688269	Arginine to phosphate	GCST90200854	12	63052321	T	G	8297	0.08	0.02	0.00	0.00	23.27
rs7992553	Arginine to phosphate	GCST90200854	13	23911598	C	A	8297	0.07	0.02	0.00	0.00	20.12
rs76232677	Arginine to phosphate	GCST90200854	13	78794809	A	G	8297	0.22	0.05	0.00	0.00	20.92
rs17249437	Arginine to phosphate	GCST90200854	14	67634170	C	T	8297	-0.08	0.02	0.00	0.00	23.05
rs145741630	Arginine to phosphate	GCST90200854	16	86268145	G	C	8297	0.30	0.06	0.00	0.00	24.01
rs116883473	Arginine to phosphate	GCST90200854	18	65818278	G	A	8297	-0.32	0.07	0.00	0.00	19.69
rs75365886	Arginine to phosphate	GCST90200854	19	55795783	T	C	8297	0.28	0.06	0.00	0.00	20.03
rs117014867	Arginine to phosphate	GCST90200854	20	42936633	T	C	8297	-0.18	0.04	0.00	0.00	19.98
rs1777451	Phosphate to threonine ratio	GCST90200855	1	108035560	A	G	8226	0.08	0.02	0.00	0.00	24.02
rs17712208	Phosphate to threonine ratio	GCST90200855	1	213977102	A	T	8226	-0.25	0.04	0.00	0.00	30.10
rs1260326	Phosphate to threonine ratio	GCST90200855	2	27508073	C	T	8226	-0.10	0.02	0.00	0.01	45.69
rs28372820	Phosphate to threonine ratio	GCST90200855	2	74391866	G	C	8226	-0.24	0.05	0.00	0.00	22.85
rs183299226	Phosphate to threonine ratio	GCST90200855	2	136755749	G	A	8226	-0.35	0.08	0.00	0.00	19.75

rs1047891	Phosphate to threonine ratio	GCST90200855	2	210675783	A	C	8226	0.10	0.02	0.00	0.00	35.40
rs1399623	Phosphate to threonine ratio	GCST90200855	2	226262956	C	A	8226	0.07	0.02	0.00	0.00	22.39
rs150555637	Phosphate to threonine ratio	GCST90200855	3	21300569	C	G	8226	-0.22	0.05	0.00	0.00	20.90
rs2885544	Phosphate to threonine ratio	GCST90200855	3	126742834	G	C	8226	0.07	0.02	0.00	0.00	20.51
rs74698622	Phosphate to threonine ratio	GCST90200855	4	5291145	A	G	8226	-0.22	0.05	0.00	0.00	21.14
rs73212577	Phosphate to threonine ratio	GCST90200855	4	7493414	A	G	8226	-0.22	0.05	0.00	0.00	20.64
rs28718689	Phosphate to threonine ratio	GCST90200855	4	77108314	G	T	8226	0.08	0.02	0.00	0.00	23.47
rs116312461	Phosphate to threonine ratio	GCST90200855	5	140510588	C	G	8226	0.35	0.07	0.00	0.00	21.84
rs62396171	Phosphate to threonine ratio	GCST90200855	6	26628545	C	T	8226	0.10	0.02	0.00	0.00	20.05
rs9296365	Phosphate to threonine ratio	GCST90200855	6	41567641	G	A	8226	-0.08	0.02	0.00	0.00	21.92
rs138351791	Phosphate to threonine ratio	GCST90200855	6	119809856	A	C	8226	-0.26	0.06	0.00	0.00	19.64
rs73055850	Phosphate to threonine ratio	GCST90200855	7	7825048	C	T	8226	-0.33	0.06	0.00	0.00	26.24
rs73114026	Phosphate to threonine ratio	GCST90200855	7	45161873	A	G	8226	-0.34	0.08	0.00	0.00	19.58
rs16880329	Phosphate to threonine ratio	GCST90200855	8	33087986	A	G	8226	-0.10	0.02	0.00	0.00	20.03
rs10094292	Phosphate to threonine ratio	GCST90200855	8	64506549	A	G	8226	0.07	0.02	0.00	0.00	20.34
rs1426060	Phosphate to threonine ratio	GCST90200855	8	74006636	C	T	8226	-0.08	0.02	0.00	0.00	24.74
rs80264809	Phosphate to threonine ratio	GCST90200855	10	30883553	T	G	8226	0.16	0.03	0.00	0.00	22.31
rs112182907	Phosphate to threonine ratio	GCST90200855	11	3555797	T	C	8226	0.12	0.03	0.00	0.00	23.55
rs494818	Phosphate to threonine ratio	GCST90200855	11	88095413	A	C	8226	-0.12	0.03	0.00	0.00	19.86
rs11063208	Phosphate to threonine ratio	GCST90200855	12	4499159	T	C	8226	0.22	0.05	0.00	0.00	21.41
rs1860371	Phosphate to threonine ratio	GCST90200855	12	46791488	C	G	8226	0.13	0.02	0.00	0.00	32.20
rs17721101	Phosphate to threonine ratio	GCST90200855	12	47835038	C	A	8226	-0.13	0.03	0.00	0.00	21.84
rs145863749	Phosphate to threonine ratio	GCST90200855	12	98756791	A	G	8226	-0.19	0.04	0.00	0.00	20.19
rs146925701	Phosphate to threonine ratio	GCST90200855	16	8733280	T	C	8226	-0.14	0.03	0.00	0.00	19.67
rs117331213	Phosphate to threonine ratio	GCST90200855	18	52365660	C	T	8226	-0.37	0.08	0.00	0.00	22.71
rs74681583	Phosphate to threonine ratio	GCST90200855	20	7857292	A	G	8226	0.45	0.10	0.00	0.00	20.46
rs117497022	Phosphate to threonine ratio	GCST90200855	20	17704367	A	G	8226	-0.21	0.05	0.00	0.00	19.96
rs56187340	Phosphate to threonine ratio	GCST90200855	21	16906687	C	A	8226	0.07	0.02	0.00	0.00	20.21
rs12132412	Phosphate to glutamine	GCST90200856	1	21493549	G	A	8258	0.11	0.02	0.00	0.01	46.30
rs1777451	Phosphate to glutamine	GCST90200856	1	108035560	A	G	8258	0.07	0.02	0.00	0.00	22.09
rs11903370	Phosphate to glutamine	GCST90200856	2	1557197	G	C	8258	-0.15	0.03	0.00	0.00	19.76
rs114854968	Phosphate to glutamine	GCST90200856	2	140402016	T	C	8258	-0.34	0.07	0.00	0.00	24.39
rs116070651	Phosphate to glutamine	GCST90200856	2	192163895	T	C	8258	-0.33	0.07	0.00	0.00	20.88
rs3792289	Phosphate to glutamine	GCST90200856	3	122274753	G	A	8258	-0.08	0.02	0.00	0.00	21.32
rs891668	Phosphate to glutamine	GCST90200856	3	197550256	T	C	8258	-0.08	0.02	0.00	0.00	20.08
rs67650117	Phosphate to glutamine	GCST90200856	4	11607024	C	T	8258	0.10	0.02	0.00	0.00	26.03
rs62302842	Phosphate to glutamine	GCST90200856	4	71416072	C	A	8258	0.12	0.03	0.00	0.00	20.54

rs150735017	Phosphate to glutamine	GCST90200856	4	139463403	G	T	8258	0.22	0.05	0.00	0.00	19.60
rs72617420	Phosphate to glutamine	GCST90200856	4	144644016	C	A	8258	-0.28	0.06	0.00	0.00	24.09
rs6929527	Phosphate to glutamine	GCST90200856	6	33740199	T	G	8258	-0.15	0.03	0.00	0.00	26.84
rs78346702	Phosphate to glutamine	GCST90200856	6	106769092	G	T	8258	0.31	0.07	0.00	0.00	19.72
rs138323248	Phosphate to glutamine	GCST90200856	7	4139988	C	T	8258	-0.28	0.06	0.00	0.00	21.46
rs200395552	Phosphate to glutamine	GCST90200856	7	74883036	A	G	8258	0.37	0.08	0.00	0.00	19.62
rs12547422	Phosphate to glutamine	GCST90200856	8	33104358	C	A	8258	-0.11	0.02	0.00	0.00	26.08
rs116957541	Phosphate to glutamine	GCST90200856	9	17591980	G	A	8258	-0.25	0.05	0.00	0.00	20.95
rs7899216	Phosphate to glutamine	GCST90200856	10	80628991	T	C	8258	0.21	0.04	0.00	0.00	24.04
rs7968405	Phosphate to glutamine	GCST90200856	12	4476262	C	T	8258	0.11	0.02	0.00	0.00	29.22
rs2657879	Phosphate to glutamine	GCST90200856	12	56471554	G	A	8258	0.20	0.02	0.00	0.01	114.96
rs117999079	Phosphate to glutamine	GCST90200856	12	119193195	T	C	8258	-0.29	0.06	0.00	0.00	21.04
rs1468124	Phosphate to glutamine	GCST90200856	16	22993557	T	C	8258	0.08	0.02	0.00	0.00	27.91
rs36062074	Phosphate to glutamine	GCST90200856	16	69261796	A	G	8258	0.28	0.05	0.00	0.00	28.06
rs8080308	Phosphate to glutamine	GCST90200856	17	2349277	A	G	8258	0.08	0.02	0.00	0.00	22.46
rs35648237	Phosphate to glutamine	GCST90200856	18	13478722	G	A	8258	0.12	0.03	0.00	0.00	20.13
rs116883473	Phosphate to glutamine	GCST90200856	18	65818278	G	A	8258	0.33	0.07	0.00	0.00	21.51
rs74681583	Phosphate to glutamine	GCST90200856	20	7857292	A	G	8258	0.47	0.10	0.00	0.00	21.84
rs147218443	Phosphate to glutamine	GCST90200856	20	8845473	G	A	8258	0.30	0.07	0.00	0.00	20.20
rs2744738	Adenosine 5'-monophosphate (AMP) to aspartate ratio	GCST90200857	1	22225320	C	T	8205	-0.07	0.01	0.00	0.00	21.14
rs17374803	Adenosine 5'-monophosphate (AMP) to aspartate ratio	GCST90200857	1	60795213	T	C	8205	-0.16	0.03	0.00	0.00	22.77
rs404005	Adenosine 5'-monophosphate (AMP) to aspartate ratio	GCST90200857	2	40168938	T	C	8205	-0.07	0.02	0.00	0.00	19.82
rs78102977	Adenosine 5'-monophosphate (AMP) to aspartate ratio	GCST90200857	2	85203270	G	A	8205	0.39	0.08	0.00	0.00	21.84
rs11128620	Adenosine 5'-monophosphate (AMP) to aspartate ratio	GCST90200857	3	12863967	C	G	8205	-0.09	0.02	0.00	0.00	19.84
rs1354034	Adenosine 5'-monophosphate (AMP) to aspartate ratio	GCST90200857	3	56815721	C	T	8205	-0.11	0.02	0.00	0.01	49.81
rs7613516	Adenosine 5'-monophosphate (AMP) to aspartate ratio	GCST90200857	3	141360467	G	T	8205	-0.07	0.02	0.00	0.00	20.42
rs79386316	Adenosine 5'-monophosphate (AMP) to aspartate ratio	GCST90200857	3	184391714	T	C	8205	0.13	0.03	0.00	0.00	20.41
rs72686769	Adenosine 5'-monophosphate (AMP) to aspartate ratio	GCST90200857	4	101938792	T	C	8205	0.29	0.06	0.00	0.00	26.58

rs79293015	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	4	107389035	A	T	8205	0.30	0.07	0.00	0.00	20.11
rs79976506	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	5	83643048	C	G	8205	-0.21	0.05	0.00	0.00	22.11
rs7770437	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	6	3294047	A	G	8205	0.10	0.02	0.00	0.00	20.36
rs1703911	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	8	651043	A	G	8205	-0.08	0.02	0.00	0.00	25.80
rs147769924	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	8	4182967	C	G	8205	0.24	0.05	0.00	0.00	20.73
rs116932590	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	8	27494473	T	C	8205	-0.31	0.07	0.00	0.00	21.88
rs78607938	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	8	47358998	T	G	8205	0.31	0.07	0.00	0.00	22.28
rs186574557	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	8	68934639	A	T	8205	-1.01	0.22	0.00	0.00	21.52
rs13279344	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	8	94751263	T	C	8205	-0.08	0.02	0.00	0.00	19.59
rs12216772	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	8	105561691	T	C	8205	-0.08	0.02	0.00	0.00	24.31
rs273431	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	9	79252077	G	C	8205	0.07	0.02	0.00	0.00	19.67
rs148527038	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	11	22616179	T	A	8205	0.24	0.05	0.00	0.00	19.61
rs10466932	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	12	116397262	A	G	8205	0.12	0.02	0.00	0.00	30.49
rs2522136	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	12	120333354	G	A	8205	0.07	0.02	0.00	0.00	20.26
rs11846826	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	14	62249072	A	G	8205	-0.10	0.02	0.00	0.00	22.26
rs34724586	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	15	25661312	C	G	8205	-0.21	0.05	0.00	0.00	19.55
rs28706671	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	15	100729296	C	T	8205	-0.10	0.02	0.00	0.00	26.73
rs149299	Adenosine 5'- monophosphate (AMP) to aspartate ratio	GCST90200857	16	28473820	C	T	8205	-0.08	0.02	0.00	0.00	24.80

rs6564241	Adenosine 5'-monophosphate (AMP) to aspartate ratio	GCST90200857	16	75230076	C	T	8205	-0.09	0.02	0.00	0.00	21.12
rs41301888	Adenosine 5'-monophosphate (AMP) to aspartate ratio	GCST90200857	17	80431051	T	C	8205	-0.17	0.04	0.00	0.00	21.80
rs11573560	Phosphate to tyrosine ratio	GCST90200858	1	44836152	T	C	8226	0.18	0.04	0.00	0.00	23.37
rs1013972	Phosphate to tyrosine ratio	GCST90200858	2	3829803	C	A	8226	-0.07	0.02	0.00	0.00	21.83
rs147517664	Phosphate to tyrosine ratio	GCST90200858	2	39543689	A	C	8226	0.33	0.07	0.00	0.00	20.80
rs72828860	Phosphate to tyrosine ratio	GCST90200858	2	110741414	T	C	8226	0.19	0.04	0.00	0.00	23.31
rs114933663	Phosphate to tyrosine ratio	GCST90200858	3	46716370	T	C	8226	-0.29	0.06	0.00	0.00	21.60
rs114827754	Phosphate to tyrosine ratio	GCST90200858	3	85794817	T	C	8226	0.38	0.08	0.00	0.00	24.30
rs79090461	Phosphate to tyrosine ratio	GCST90200858	4	75600877	A	G	8226	-0.19	0.04	0.00	0.00	19.77
rs74512066	Phosphate to tyrosine ratio	GCST90200858	4	83553095	C	T	8226	0.13	0.03	0.00	0.00	24.38
rs12513841	Phosphate to tyrosine ratio	GCST90200858	5	99300362	C	T	8226	0.08	0.02	0.00	0.00	19.58
rs113360360	Phosphate to tyrosine ratio	GCST90200858	5	170100476	T	C	8226	-0.31	0.07	0.00	0.00	20.11
rs7710659	Phosphate to tyrosine ratio	GCST90200858	5	175777801	A	G	8226	-0.26	0.06	0.00	0.00	20.53
rs1087287	Phosphate to tyrosine ratio	GCST90200858	6	24237061	G	C	8226	-0.08	0.02	0.00	0.00	22.03
rs4707531	Phosphate to tyrosine ratio	GCST90200858	6	89210091	G	C	8226	-0.21	0.05	0.00	0.00	19.74
rs10457236	Phosphate to tyrosine ratio	GCST90200858	6	111228992	A	G	8226	-0.19	0.02	0.00	0.01	76.46
rs6998846	Phosphate to tyrosine ratio	GCST90200858	8	9335831	A	G	8226	0.09	0.02	0.00	0.00	21.27
rs12677898	Phosphate to tyrosine ratio	GCST90200858	8	27655269	G	A	8226	-0.18	0.04	0.00	0.00	19.87
rs148572321	Phosphate to tyrosine ratio	GCST90200858	8	138283788	A	G	8226	0.29	0.06	0.00	0.00	20.27
rs10977617	Phosphate to tyrosine ratio	GCST90200858	9	934261	C	T	8226	-0.18	0.04	0.00	0.00	23.22
rs7019237	Phosphate to tyrosine ratio	GCST90200858	9	88702025	T	C	8226	0.18	0.04	0.00	0.00	21.64
rs4962113	Phosphate to tyrosine ratio	GCST90200858	9	133252254	C	T	8226	-0.09	0.02	0.00	0.00	28.94
rs2896636	Phosphate to tyrosine ratio	GCST90200858	11	13541061	C	G	8226	0.32	0.07	0.00	0.00	21.63
rs59208114	Phosphate to tyrosine ratio	GCST90200858	11	19293006	T	C	8226	-0.36	0.08	0.00	0.00	20.94
rs10774689	Phosphate to tyrosine ratio	GCST90200858	12	113314285	G	A	8226	0.07	0.02	0.00	0.00	21.76
rs10773809	Phosphate to tyrosine ratio	GCST90200858	12	130674810	A	G	8226	0.07	0.02	0.00	0.00	20.20
rs9317609	Phosphate to tyrosine ratio	GCST90200858	13	66736976	C	T	8226	0.08	0.02	0.00	0.00	20.42
rs137861392	Phosphate to tyrosine ratio	GCST90200858	14	96600248	T	G	8226	0.25	0.05	0.00	0.00	20.98
rs12444040	Phosphate to tyrosine ratio	GCST90200858	16	49864174	G	A	8226	-0.07	0.02	0.00	0.00	19.86
rs45540935	Phosphate to tyrosine ratio	GCST90200858	16	56593729	A	G	8226	0.12	0.03	0.00	0.00	20.50
rs150851429	Phosphate to tyrosine ratio	GCST90200858	16	71591928	C	G	8226	-0.40	0.06	0.00	0.00	40.05
rs12601484	Phosphate to tyrosine ratio	GCST90200858	17	43501506	G	A	8226	0.08	0.02	0.00	0.00	21.91
rs113042158	Phosphate to tyrosine ratio	GCST90200858	18	41551081	C	T	8226	-0.13	0.03	0.00	0.00	20.91
rs147901416	Phosphate to tyrosine ratio	GCST90200858	19	44963535	A	C	8226	0.11	0.02	0.00	0.00	23.35
rs57343506	Phosphate to tyrosine ratio	GCST90200858	20	11390221	A	C	8226	-0.18	0.04	0.00	0.00	21.55

rs117786136	Phosphate to tyrosine ratio Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200858	22	45419097	T	C	8226	0.40	0.09	0.00	0.00	20.01
rs149006118	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	1	7625255	A	G	8188	-0.33	0.07	0.00	0.00	19.92
rs1887539	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	1	78306045	T	C	8188	-0.08	0.02	0.00	0.00	20.40
rs13427484	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	2	125684211	A	G	8188	0.25	0.05	0.00	0.00	24.78
rs114245489	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	2	157628563	T	G	8188	0.18	0.04	0.00	0.00	22.48
rs60110084	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	3	8695451	G	A	8188	-0.15	0.03	0.00	0.00	23.93
rs144253789	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	4	18013967	T	C	8188	0.24	0.05	0.00	0.00	21.24
rs80133753	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	5	7989746	C	G	8188	0.16	0.03	0.00	0.00	21.07
rs10447274	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	5	121874520	T	C	8188	0.07	0.02	0.00	0.00	20.35
rs7765618	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	6	73268203	G	A	8188	-0.08	0.02	0.00	0.00	20.14
rs2728488	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	7	47169956	G	A	8188	-0.08	0.02	0.00	0.00	21.26
rs72650332	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	8	54644586	T	C	8188	0.29	0.06	0.00	0.00	20.79
rs10965280	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	9	22181080	G	A	8188	-0.08	0.02	0.00	0.00	21.43
rs118182258	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	10	60980126	A	G	8188	0.21	0.05	0.00	0.00	19.71
rs75350542	Adenosine 5'-monophosphate (AMP) to asparagine ratio	GCST90200859	12	6295614	A	C	8188	-0.26	0.06	0.00	0.00	20.33

rs76059094	Adenosine 5'- monophosphate (AMP) to asparagine ratio	GCST90200859	12	84746077	T	C	8188	0.13	0.03	0.00	0.00	20.00
rs7490087	Adenosine 5'- monophosphate (AMP) to asparagine ratio	GCST90200859	13	37953200	A	C	8188	-0.08	0.02	0.00	0.00	21.74
rs2282377	Adenosine 5'- monophosphate (AMP) to asparagine ratio	GCST90200859	14	104105483	G	C	8188	-0.23	0.02	0.00	0.01	105.32
rs75039646	Adenosine 5'- monophosphate (AMP) to asparagine ratio	GCST90200859	16	17540208	A	C	8188	0.16	0.03	0.00	0.00	25.80
rs12941798	Adenosine 5'- monophosphate (AMP) to asparagine ratio	GCST90200859	17	55212120	A	G	8188	-0.08	0.02	0.00	0.00	23.71
rs35156498	Adenosine 5'- monophosphate (AMP) to asparagine ratio	GCST90200859	17	75080512	G	T	8188	-0.14	0.03	0.00	0.00	20.16
rs118103311	Adenosine 5'- monophosphate (AMP) to asparagine ratio	GCST90200859	18	74407627	C	T	8188	-0.26	0.06	0.00	0.00	20.41
rs6511061	Adenosine 5'- monophosphate (AMP) to asparagine ratio	GCST90200859	19	19944014	A	G	8188	0.13	0.03	0.00	0.00	21.13
rs6517376	Adenosine 5'- monophosphate (AMP) to asparagine ratio	GCST90200859	21	36703581	C	T	8188	0.26	0.06	0.00	0.00	21.90
rs75978151	Adenosine 5'- monophosphate (AMP) to asparagine ratio	GCST90200859	22	24853317	T	C	8188	-0.13	0.03	0.00	0.00	20.70
rs528513150	Adenosine 5'- monophosphate (AMP) to serine ratio	GCST90200860	1	118569121	T	G	8194	0.35	0.08	0.00	0.00	19.89
rs13427484	Adenosine 5'- monophosphate (AMP) to serine ratio	GCST90200860	2	125684211	A	G	8194	0.23	0.05	0.00	0.00	20.66
rs1047891	Adenosine 5'- monophosphate (AMP) to serine ratio	GCST90200860	2	210675783	A	C	8194	-0.10	0.02	0.00	0.00	36.38
rs60110084	Adenosine 5'- monophosphate (AMP) to serine ratio	GCST90200860	3	8695451	G	A	8194	-0.17	0.03	0.00	0.00	27.73
rs114357703	Adenosine 5'- monophosphate (AMP) to serine ratio	GCST90200860	3	23417793	A	G	8194	0.17	0.04	0.00	0.00	19.94
rs1482384	Adenosine 5'- monophosphate (AMP) to serine ratio	GCST90200860	3	84410531	T	C	8194	-0.07	0.02	0.00	0.00	19.72

rs1378961	Adenosine 5'-monophosphate (AMP) to serine ratio	GCST90200860	4	155124461	T	C	8194	-0.07	0.02	0.00	0.00	20.50
rs148214235	Adenosine 5'-monophosphate (AMP) to serine ratio	GCST90200860	5	104075839	T	C	8194	0.11	0.02	0.00	0.00	21.76
rs7765618	Adenosine 5'-monophosphate (AMP) to serine ratio	GCST90200860	6	73268203	G	A	8194	-0.09	0.02	0.00	0.00	23.24
rs4946601	Adenosine 5'-monophosphate (AMP) to serine ratio	GCST90200860	6	121920807	A	C	8194	0.19	0.04	0.00	0.00	20.98
rs12669623	Adenosine 5'-monophosphate (AMP) to serine ratio	GCST90200860	7	56071486	C	G	8194	-0.09	0.02	0.00	0.00	30.58
rs141302425	Adenosine 5'-monophosphate (AMP) to serine ratio	GCST90200860	8	10152271	A	G	8194	0.39	0.09	0.00	0.00	20.65
rs657152	Adenosine 5'-monophosphate (AMP) to serine ratio	GCST90200860	9	133263862	C	A	8194	0.08	0.02	0.00	0.00	22.22
rs112653031	Adenosine 5'-monophosphate (AMP) to serine ratio	GCST90200860	11	129388354	A	G	8194	-0.34	0.07	0.00	0.00	23.18
rs75039646	Adenosine 5'-monophosphate (AMP) to serine ratio	GCST90200860	16	17540208	A	C	8194	0.15	0.03	0.00	0.00	23.94
rs35156498	Adenosine 5'-monophosphate (AMP) to serine ratio	GCST90200860	17	75080512	G	T	8194	-0.15	0.03	0.00	0.00	21.92
rs174759	Adenosine 5'-monophosphate (AMP) to serine ratio	GCST90200860	22	29295393	T	A	8194	-0.07	0.02	0.00	0.00	19.92
rs12132412	Histidine to phosphate	GCST90200861	1	21493549	G	A	8294	-0.09	0.02	0.00	0.00	31.47
rs1781071	Histidine to phosphate	GCST90200861	1	108028412	C	G	8294	0.08	0.02	0.00	0.00	21.47
rs7543224	Histidine to phosphate	GCST90200861	1	168293051	G	A	8294	0.08	0.02	0.00	0.00	24.38
rs1448977	Histidine to phosphate	GCST90200861	2	14226851	A	G	8294	-0.07	0.02	0.00	0.00	22.79
rs12470341	Histidine to phosphate	GCST90200861	2	128735393	A	C	8294	0.28	0.06	0.00	0.00	19.85
rs715	Histidine to phosphate	GCST90200861	2	210678331	C	T	8294	-0.08	0.02	0.00	0.00	20.62
rs72989284	Histidine to phosphate	GCST90200861	2	235963662	T	C	8294	-0.29	0.06	0.00	0.00	24.34
rs11128705	Histidine to phosphate	GCST90200861	3	14541162	C	T	8294	0.07	0.02	0.00	0.00	19.63
rs7663032	Histidine to phosphate	GCST90200861	4	9992214	T	C	8294	-0.08	0.02	0.00	0.00	20.77
rs6929527	Histidine to phosphate	GCST90200861	6	33740199	T	G	8294	0.14	0.03	0.00	0.00	21.09
rs57266556	Histidine to phosphate	GCST90200861	6	43831244	T	C	8294	0.10	0.02	0.00	0.00	20.38
rs117121230	Histidine to phosphate	GCST90200861	6	74803267	C	T	8294	-0.27	0.06	0.00	0.00	20.28
rs6917240	Histidine to phosphate	GCST90200861	6	169811688	A	C	8294	-0.09	0.02	0.00	0.00	19.62
rs28365095	Histidine to phosphate	GCST90200861	7	99679982	T	C	8294	-0.35	0.08	0.00	0.00	19.61
rs118147724	Histidine to phosphate	GCST90200861	7	141402924	T	C	8294	-0.28	0.06	0.00	0.00	22.11

rs14131146 1	Histidine to phosphate	GCST90200861	8	11583366	A	G	8294	-0.42	0.09	0.00	0.00	23.18
rs73647071	Histidine to phosphate	GCST90200861	9	69084547	G	T	8294	-0.16	0.03	0.00	0.00	19.73
rs3870635	Histidine to phosphate	GCST90200861	11	9580529	C	T	8294	-0.08	0.02	0.00	0.00	23.07
rs14901151 2	Histidine to phosphate	GCST90200861	11	107580213	A	G	8294	-0.21	0.05	0.00	0.00	19.77
rs78317981	Histidine to phosphate	GCST90200861	12	3866333	G	C	8294	-0.22	0.05	0.00	0.00	20.82
rs11063202	Histidine to phosphate	GCST90200861	12	4484524	G	A	8294	-0.12	0.02	0.00	0.00	26.37
rs9317659	Histidine to phosphate	GCST90200861	13	23325465	G	A	8294	0.08	0.02	0.00	0.00	21.22
rs945353	Histidine to phosphate	GCST90200861	14	20998420	C	T	8294	0.35	0.07	0.00	0.00	26.62
rs11071118	Histidine to phosphate	GCST90200861	15	29175402	T	C	8294	-0.08	0.02	0.00	0.00	22.62
rs19230267 3	Histidine to phosphate	GCST90200861	16	85651534	T	C	8294	0.36	0.08	0.00	0.00	21.81
rs62059049	Histidine to phosphate	GCST90200861	17	21085008	A	G	8294	-0.07	0.02	0.00	0.00	23.27
rs14585371 7	Histidine to phosphate	GCST90200861	18	48871248	A	G	8294	-0.29	0.06	0.00	0.00	24.74
rs74272866	Histidine to phosphate	GCST90200861	20	3210726	T	C	8294	-0.16	0.03	0.00	0.00	24.43
rs6037190	Histidine to phosphate	GCST90200861	20	25680270	T	G	8294	-0.07	0.02	0.00	0.00	21.29
rs62219041	Histidine to phosphate	GCST90200861	21	23563436	T	A	8294	0.24	0.05	0.00	0.00	23.68
rs2505722	Adenosine 5'- monophosphat e (AMP) to methionine ratio	GCST90200862	1	22215952	T	G	8194	-0.08	0.02	0.00	0.00	23.41
rs17374803	Adenosine 5'- monophosphat e (AMP) to methionine ratio	GCST90200862	1	60795213	T	C	8194	-0.15	0.03	0.00	0.00	19.88
rs11577810 1	Adenosine 5'- monophosphat e (AMP) to methionine ratio	GCST90200862	1	77732869	C	T	8194	-0.16	0.03	0.00	0.00	20.02
rs4643516	Adenosine 5'- monophosphat e (AMP) to methionine ratio	GCST90200862	2	35330201	G	C	8194	0.08	0.02	0.00	0.00	22.47
rs60110084	Adenosine 5'- monophosphat e (AMP) to methionine ratio	GCST90200862	3	8695451	G	A	8194	-0.15	0.03	0.00	0.00	23.20
rs11435770 3	Adenosine 5'- monophosphat e (AMP) to methionine ratio	GCST90200862	3	23417793	A	G	8194	0.17	0.04	0.00	0.00	19.52
rs6792151	Adenosine 5'- monophosphat e (AMP) to methionine ratio	GCST90200862	3	171812145	G	T	8194	0.11	0.02	0.00	0.00	23.61
rs194493	Adenosine 5'- monophosphat e (AMP) to methionine ratio	GCST90200862	5	73051700	G	T	8194	-0.08	0.02	0.00	0.00	27.79

rs112885835	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	7	105937566	G	C	8194	0.20	0.04	0.00	0.00	20.19
rs11785078	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	8	14941978	A	G	8194	0.07	0.02	0.00	0.00	20.74
rs750622	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	8	16027794	T	C	8194	0.23	0.05	0.00	0.00	19.87
rs6984609	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	8	48677025	G	A	8194	-0.17	0.04	0.00	0.00	19.77
rs146133831	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	9	88286696	T	C	8194	0.39	0.09	0.00	0.00	20.14
rs139721493	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	10	58793279	T	C	8194	0.25	0.05	0.00	0.00	23.78
rs118182258	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	10	60980126	A	G	8194	0.22	0.05	0.00	0.00	20.22
rs676206	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	11	75576830	A	C	8194	0.08	0.02	0.00	0.00	22.67
rs2264772	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	12	116440229	G	C	8194	0.08	0.02	0.00	0.00	21.97
rs552739367	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	17	7885745	A	G	8194	0.11	0.02	0.00	0.00	19.60
rs66781549	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	18	43589445	A	G	8194	-0.16	0.04	0.00	0.00	20.38
rs118103311	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	18	74407627	C	T	8194	-0.28	0.06	0.00	0.00	23.32
rs139392089	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	19	14121969	C	T	8194	0.21	0.05	0.00	0.00	19.84
rs6517376	Adenosine 5'-monophosphate (AMP) to methionine ratio	GCST90200862	21	36703581	C	T	8194	0.26	0.06	0.00	0.00	21.58
rs12132412	Phosphate to serine ratio	GCST90200863	1	21493549	G	A	8226	0.07	0.02	0.00	0.00	21.09
rs1781071	Phosphate to serine ratio	GCST90200863	1	108028412	C	G	8226	-0.08	0.02	0.00	0.00	22.51

rs561931	Phosphate to serine ratio	GCST90200863	1	119711883	G	A	8226	-0.17	0.02	0.00	0.01	112.36
rs2246410	Phosphate to serine ratio	GCST90200863	1	119731832	G	A	8226	0.08	0.02	0.00	0.00	23.12
rs12044765	Phosphate to serine ratio	GCST90200863	1	195283654	T	A	8226	0.16	0.03	0.00	0.00	23.44
rs114192167	Phosphate to serine ratio	GCST90200863	2	13832109	A	G	8226	-0.16	0.04	0.00	0.00	19.54
rs34419239	Phosphate to serine ratio	GCST90200863	2	131847650	T	C	8226	-0.10	0.02	0.00	0.00	21.14
rs1047891	Phosphate to serine ratio	GCST90200863	2	210675783	A	C	8226	-0.18	0.02	0.00	0.01	120.36
rs116753724	Phosphate to serine ratio	GCST90200863	3	60506313	A	G	8226	-0.52	0.12	0.00	0.00	19.90
rs35736225	Phosphate to serine ratio	GCST90200863	3	126266126	T	A	8226	0.07	0.02	0.00	0.00	19.65
rs13136680	Phosphate to serine ratio	GCST90200863	4	28843383	C	T	8226	-0.17	0.04	0.00	0.00	21.02
rs72660350	Phosphate to serine ratio	GCST90200863	4	74867707	A	C	8226	0.24	0.05	0.00	0.00	22.90
rs4704064	Phosphate to serine ratio	GCST90200863	5	73192456	C	T	8226	0.13	0.03	0.00	0.00	21.66
rs72788170	Phosphate to serine ratio	GCST90200863	5	119464619	G	A	8226	-0.08	0.02	0.00	0.00	20.12
rs13203604	Phosphate to serine ratio	GCST90200863	6	110915228	A	G	8226	-0.09	0.02	0.00	0.00	19.96
rs6951810	Phosphate to serine ratio	GCST90200863	7	56008905	C	T	8226	-0.15	0.02	0.00	0.01	70.51
rs73211392	Phosphate to serine ratio	GCST90200863	8	21115293	T	G	8226	0.13	0.03	0.00	0.00	23.23
rs144574120	Phosphate to serine ratio	GCST90200863	10	18646236	T	A	8226	0.26	0.06	0.00	0.00	21.15
rs75618234	Phosphate to serine ratio	GCST90200863	11	61685269	A	G	8226	-0.31	0.07	0.00	0.00	21.82
rs677504	Phosphate to serine ratio	GCST90200863	11	114206356	C	G	8226	-0.08	0.02	0.00	0.00	20.68
rs12280574	Phosphate to serine ratio	GCST90200863	11	126437557	C	T	8226	-0.07	0.02	0.00	0.00	19.70
rs112541646	Phosphate to serine ratio	GCST90200863	16	20827231	G	A	8226	0.17	0.04	0.00	0.00	22.30
rs16963273	Phosphate to serine ratio	GCST90200863	16	84283360	A	C	8226	0.14	0.03	0.00	0.00	20.44
rs75942664	Phosphate to serine ratio	GCST90200863	18	56303775	T	C	8226	0.23	0.05	0.00	0.00	19.80
rs10799691	Methionine to phosphate	GCST90200864	1	21446869	G	C	8291	-0.09	0.02	0.00	0.00	26.06
rs79363713	Methionine to phosphate	GCST90200864	1	237003111	G	C	8291	-0.13	0.03	0.00	0.00	19.53
rs11128705	Methionine to phosphate	GCST90200864	3	14541162	C	T	8291	0.08	0.02	0.00	0.00	20.48
rs142841379	Methionine to phosphate	GCST90200864	3	86213803	A	C	8291	-0.47	0.10	0.00	0.00	22.79
rs6850681	Methionine to phosphate	GCST90200864	4	38235182	C	A	8291	-0.63	0.14	0.00	0.00	20.26
rs139107468	Methionine to phosphate	GCST90200864	4	95416141	T	C	8291	0.23	0.05	0.00	0.00	19.84
rs2763131	Methionine to phosphate	GCST90200864	6	7504065	A	G	8291	-0.38	0.09	0.00	0.00	20.25
rs183031696	Methionine to phosphate	GCST90200864	7	97906140	T	C	8291	-0.24	0.05	0.00	0.00	23.28
rs12684857	Methionine to phosphate	GCST90200864	9	18268384	T	A	8291	-0.07	0.02	0.00	0.00	20.84
rs12777310	Methionine to phosphate	GCST90200864	10	33099727	G	A	8291	0.15	0.03	0.00	0.00	22.36
rs2716479	Methionine to phosphate	GCST90200864	11	24817025	A	C	8291	0.08	0.02	0.00	0.00	25.62
rs2970818	Methionine to phosphate	GCST90200864	12	4497002	A	T	8291	-0.12	0.03	0.00	0.00	21.56
rs62034511	Methionine to phosphate	GCST90200864	16	26038289	C	T	8291	-0.09	0.02	0.00	0.00	19.82
rs9931486	Methionine to phosphate	GCST90200864	16	60323253	T	G	8291	-0.07	0.02	0.00	0.00	20.66
rs117331213	Methionine to phosphate	GCST90200864	18	52365660	C	T	8291	0.40	0.08	0.00	0.00	27.85

rs12958904	Methionine to phosphate	GCST90200864	18	75772431	T	A	8291	-0.07	0.02	0.00	0.00	19.86
rs57785757	Methionine to phosphate	GCST90200864	21	43772173	T	G	8291	0.19	0.04	0.00	0.00	25.04
rs72664200	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	1	54252241	C	T	8180	-0.17	0.04	0.00	0.00	20.76
rs13390128	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	2	125663470	T	C	8180	0.23	0.05	0.00	0.00	21.07
rs1401685	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	2	136179943	C	A	8180	-0.24	0.05	0.00	0.00	21.00
rs114245489	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	2	157628563	T	G	8180	0.17	0.04	0.00	0.00	21.17
rs60110084	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	3	8695451	G	A	8180	-0.14	0.03	0.00	0.00	20.54
rs6792151	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	3	171812145	G	T	8180	0.10	0.02	0.00	0.00	19.84
rs194493	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	5	73051700	G	T	8180	-0.07	0.02	0.00	0.00	23.28
rs13180766	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	5	121922535	G	A	8180	0.08	0.02	0.00	0.00	19.55
rs248477	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	5	141779893	C	A	8180	0.16	0.04	0.00	0.00	20.30
rs141302425	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	8	10152271	A	G	8180	0.39	0.09	0.00	0.00	20.84
rs113819119	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	8	94764898	C	T	8180	-0.08	0.02	0.00	0.00	20.10
rs806032	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	9	4097344	T	C	8180	0.07	0.02	0.00	0.00	19.99
rs139721493	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	10	58793279	T	C	8180	0.27	0.05	0.00	0.00	28.44
rs676206	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	11	75576830	A	C	8180	0.08	0.02	0.00	0.00	21.34
rs12830783	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	12	70920322	T	C	8180	0.10	0.02	0.00	0.00	19.83
rs2264772	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	12	116440229	G	C	8180	0.08	0.02	0.00	0.00	22.15
rs9576403	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	13	37948835	T	A	8180	-0.08	0.02	0.00	0.00	25.12

rs17268898	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	13	46493070	T	C	8180	0.11	0.02	0.00	0.00	21.82
rs75039646	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	16	17540208	A	C	8180	0.15	0.03	0.00	0.00	22.53
rs7193227	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	16	60914047	G	A	8180	-0.09	0.02	0.00	0.00	19.84
rs12941798	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	17	55212120	A	G	8180	-0.07	0.02	0.00	0.00	19.85
rs118103311	Adenosine 5'-monophosphate (AMP) to histidine ratio	GCST90200865	18	74407627	C	T	8180	-0.26	0.06	0.00	0.00	20.02
rs6517376	Adenosine 5'-monophosphate to histidine ratio	GCST90200865	21	36703581	C	T	8180	0.26	0.06	0.00	0.00	20.62
rs4654748	phosphate to asparagine ratio	GCST90200866	1	21459575	T	C	8249	0.09	0.02	0.00	0.00	32.09
rs191699159	phosphate to asparagine ratio	GCST90200866	2	4926460	C	T	8249	0.11	0.02	0.00	0.00	22.22
rs17466952	phosphate to asparagine ratio	GCST90200866	2	15599169	C	T	8249	-0.23	0.05	0.00	0.00	21.27
rs1260326	phosphate to asparagine ratio	GCST90200866	2	27508073	C	T	8249	-0.07	0.02	0.00	0.00	20.12
rs182334074	phosphate to asparagine ratio	GCST90200866	2	140222244	G	C	8249	-0.55	0.12	0.00	0.00	19.83
rs150440064	phosphate to asparagine ratio	GCST90200866	2	158781804	T	C	8249	-0.37	0.08	0.00	0.00	19.52
rs715	phosphate to asparagine ratio	GCST90200866	2	210678331	C	T	8249	0.08	0.02	0.00	0.00	23.15
rs116753724	phosphate to asparagine ratio	GCST90200866	3	60506313	A	G	8249	-0.56	0.11	0.00	0.00	23.97
rs7658893	phosphate to asparagine ratio	GCST90200866	4	38780799	A	G	8249	0.09	0.02	0.00	0.00	23.58
rs112115959	phosphate to asparagine ratio	GCST90200866	4	87910378	T	C	8249	-0.24	0.05	0.00	0.00	21.11
rs142573719	phosphate to asparagine ratio	GCST90200866	4	111103597	T	C	8249	-0.16	0.03	0.00	0.00	22.57
rs2580069	phosphate to asparagine ratio	GCST90200866	4	177128134	G	A	8249	0.07	0.02	0.00	0.00	21.18
rs12652819	phosphate to asparagine ratio	GCST90200866	5	121908825	G	A	8249	0.08	0.02	0.00	0.00	24.67
rs181932085	phosphate to asparagine ratio	GCST90200866	5	162697555	C	G	8249	0.32	0.07	0.00	0.00	19.79
rs12704947	phosphate to asparagine ratio	GCST90200866	7	97860251	T	A	8249	-0.08	0.02	0.00	0.00	21.72
rs2919379	phosphate to asparagine ratio	GCST90200866	8	32710447	G	A	8249	0.10	0.02	0.00	0.00	20.13

rs2282079	phosphate to asparagine ratio	GCST90200866	9	37036250	A	G	8249	0.17	0.04	0.00	0.00	20.02
rs148842136	phosphate to asparagine ratio	GCST90200866	10	37161775	A	G	8249	-0.38	0.08	0.00	0.00	21.03
rs111363018	phosphate to asparagine ratio	GCST90200866	10	115791388	T	C	8249	0.12	0.03	0.00	0.00	22.07
rs72923302	phosphate to asparagine ratio	GCST90200866	11	62431582	T	C	8249	0.13	0.02	0.00	0.00	33.60
rs2970818	phosphate to asparagine ratio	GCST90200866	12	4497002	A	T	8249	0.13	0.03	0.00	0.00	25.73
rs118153019	phosphate to asparagine ratio	GCST90200866	12	105539342	A	G	8249	0.41	0.09	0.00	0.00	20.67
rs116944094	phosphate to asparagine ratio	GCST90200866	12	115566373	A	G	8249	0.29	0.07	0.00	0.00	19.77
rs77677698	phosphate to asparagine ratio	GCST90200866	14	77329705	T	G	8249	0.36	0.08	0.00	0.00	21.71
rs11622552	phosphate to asparagine ratio	GCST90200866	14	103541503	T	C	8249	-0.09	0.02	0.00	0.00	23.58
rs2282377	phosphate to asparagine ratio	GCST90200866	14	104105483	G	C	8249	-0.55	0.02	0.00	0.07	644.29
rs2573611	phosphate to asparagine ratio	GCST90200866	15	99912039	G	A	8249	-0.07	0.02	0.00	0.00	19.74
rs36062074	phosphate to asparagine ratio	GCST90200866	16	69261796	A	G	8249	0.24	0.05	0.00	0.00	20.21
rs117497022	phosphate to asparagine ratio	GCST90200866	20	17704367	A	G	8249	-0.26	0.05	0.00	0.00	28.99
rs6037190	phosphate to asparagine ratio	GCST90200866	20	25680270	T	G	8249	0.07	0.02	0.00	0.00	20.99
rs7279630	phosphate to asparagine ratio	GCST90200866	21	43999012	T	C	8249	-0.09	0.02	0.00	0.00	20.48
rs2744738	Adenosine 5'-monophosphate (AMP) to isoleucine	GCST90200867	1	22225320	C	T	8200	-0.08	0.02	0.00	0.00	24.94
rs9286953	Adenosine 5'-monophosphate (AMP) to isoleucine	GCST90200867	1	34139678	A	T	8200	-0.10	0.02	0.00	0.00	21.52
rs72664200	Adenosine 5'-monophosphate (AMP) to isoleucine	GCST90200867	1	54252241	C	T	8200	-0.17	0.04	0.00	0.00	21.42
rs4643516	Adenosine 5'-monophosphate (AMP) to isoleucine	GCST90200867	2	35330201	G	C	8200	0.08	0.02	0.00	0.00	21.15
rs11690307	Adenosine 5'-monophosphate (AMP) to isoleucine	GCST90200867	2	149821308	C	G	8200	0.07	0.02	0.00	0.00	20.18
rs148882505	Adenosine 5'-monophosphate (AMP) to isoleucine	GCST90200867	3	8799831	T	A	8200	-0.28	0.06	0.00	0.00	22.41
rs76097375	Adenosine 5'-monophosphate (AMP) to isoleucine	GCST90200867	3	169902054	T	A	8200	-0.12	0.03	0.00	0.00	19.55

rs6792151	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	3	171812145	G	T	8200	0.11	0.02	0.00	0.00	23.76
rs16858780	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	3	184386115	C	A	8200	0.09	0.02	0.00	0.00	22.26
rs7013881	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	8	8644061	C	T	8200	-0.07	0.02	0.00	0.00	20.27
rs9407294	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	9	529429	C	G	8200	0.15	0.03	0.00	0.00	22.97
rs14376093 7	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	9	13320685	G	A	8200	-0.30	0.07	0.00	0.00	20.76
rs11790395 9	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	10	60949914	A	C	8200	0.22	0.05	0.00	0.00	20.44
rs72826645	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	10	120977028	T	C	8200	-0.24	0.05	0.00	0.00	20.32
rs676206	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	11	75576830	A	C	8200	0.08	0.02	0.00	0.00	21.67
rs80096665	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	11	116188061	C	T	8200	-1.15	0.26	0.00	0.00	19.67
rs7315921	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	12	4420106	G	A	8200	-0.08	0.02	0.00	0.00	19.61
rs10466932	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	12	116397262	A	G	8200	0.10	0.02	0.00	0.00	20.00
rs9576403	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	13	37948835	T	A	8200	-0.07	0.02	0.00	0.00	20.42
rs12963102	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	18	45019820	T	A	8200	0.22	0.05	0.00	0.00	21.68
rs11810331 1	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	18	74407627	C	T	8200	-0.28	0.06	0.00	0.00	23.76
rs6511061	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	19	19944014	A	G	8200	0.13	0.03	0.00	0.00	20.70
rs11757913 6	Adenosine 5'- monophosphat e (AMP) to isoleucine	GCST90200867	19	55106746	C	T	8200	-0.29	0.06	0.00	0.00	22.14
rs59995039	Isoleucine to phosphate	GCST90200868	2	105497778	C	G	8298	-0.08	0.02	0.00	0.00	19.88
rs707063	Isoleucine to phosphate	GCST90200868	2	154428791	A	T	8298	0.11	0.02	0.00	0.00	22.58
rs77275380	Isoleucine to phosphate	GCST90200868	2	178004749	T	C	8298	0.31	0.07	0.00	0.00	19.90
rs11460025 8	Isoleucine to phosphate	GCST90200868	2	240140390	A	G	8298	0.28	0.06	0.00	0.00	22.47
rs78608855	Isoleucine to phosphate	GCST90200868	3	21629197	G	C	8298	0.28	0.06	0.00	0.00	19.89

rs55672338	Isoleucine to phosphate	GCST90200868	3	181334069	A	T	8298	0.07	0.01	0.00	0.00	20.27
rs10006729	Isoleucine to phosphate	GCST90200868	4	147589644	G	A	8298	-0.07	0.01	0.00	0.00	22.83
rs10059397	Isoleucine to phosphate	GCST90200868	5	11151807	G	C	8298	-0.07	0.01	0.00	0.00	23.95
rs19310965	Isoleucine to phosphate	GCST90200868	5	52369635	A	G	8298	-0.31	0.07	0.00	0.00	21.04
rs19315218	Isoleucine to phosphate	GCST90200868	5	75098186	T	G	8298	0.33	0.08	0.00	0.00	19.51
rs80197269	Isoleucine to phosphate	GCST90200868	6	90795443	G	A	8298	-0.15	0.03	0.00	0.00	21.24
rs10227729	Isoleucine to phosphate	GCST90200868	7	25466138	C	T	8298	0.10	0.02	0.00	0.00	24.08
rs6942431	Isoleucine to phosphate	GCST90200868	7	40976163	G	A	8298	-0.07	0.02	0.00	0.00	19.62
rs7779835	Isoleucine to phosphate	GCST90200868	7	80057667	C	T	8298	0.22	0.05	0.00	0.00	20.45
rs80084508	Isoleucine to phosphate	GCST90200868	8	3615793	T	G	8298	-0.12	0.03	0.00	0.00	20.28
rs78145602	Isoleucine to phosphate	GCST90200868	8	63937862	T	C	8298	-0.18	0.04	0.00	0.00	25.56
rs9643611	Isoleucine to phosphate	GCST90200868	8	69897738	G	T	8298	0.08	0.02	0.00	0.00	20.67
rs75847252	Isoleucine to phosphate	GCST90200868	9	68868565	C	T	8298	0.25	0.05	0.00	0.00	21.95
rs11397903	Isoleucine to phosphate	GCST90200868	9	87880785	A	G	8298	-0.20	0.04	0.00	0.00	28.01
rs17558155	Isoleucine to phosphate	GCST90200868	10	9295413	A	C	8298	0.12	0.02	0.00	0.00	22.17
rs4433560	Isoleucine to phosphate	GCST90200868	11	45232315	A	T	8298	-0.09	0.02	0.00	0.00	22.30
rs11066875	Isoleucine to phosphate	GCST90200868	12	113997043	T	C	8298	0.15	0.03	0.00	0.00	27.42
rs7324755	Isoleucine to phosphate	GCST90200868	13	89538321	C	T	8298	-0.12	0.03	0.00	0.00	19.61
rs2591078	Isoleucine to phosphate	GCST90200868	14	76117432	C	T	8298	-0.07	0.01	0.00	0.00	24.36
rs11626897	Isoleucine to phosphate	GCST90200868	14	102412761	A	G	8298	0.16	0.03	0.00	0.00	23.15
rs12918636	Isoleucine to phosphate	GCST90200868	16	77867247	C	A	8298	0.11	0.02	0.00	0.00	21.94
rs62093367	Isoleucine to phosphate	GCST90200868	18	51374610	A	G	8298	0.10	0.02	0.00	0.00	19.67
rs11661293	Isoleucine to phosphate	GCST90200868	18	67710598	T	C	8298	0.09	0.02	0.00	0.00	21.07
rs56361271	Isoleucine to phosphate	GCST90200868	19	15156339	T	A	8298	-0.25	0.06	0.00	0.00	19.81
rs73271806	Isoleucine to phosphate	GCST90200868	20	51464446	T	C	8298	-0.11	0.02	0.00	0.00	23.82
rs2744738	Adenosine 5'-monophosphate (AMP) to valine ratio	GCST90200869	1	22225320	C	T	8225	-0.07	0.02	0.00	0.00	21.21
rs72664200	Adenosine 5'-monophosphate (AMP) to valine ratio	GCST90200869	1	54252241	C	T	8225	-0.17	0.04	0.00	0.00	20.18
rs54216426	Adenosine 5'-monophosphate (AMP) to valine ratio	GCST90200869	1	77850866	C	T	8225	0.59	0.13	0.00	0.00	19.63
rs34751177	Adenosine 5'-monophosphate (AMP) to valine ratio	GCST90200869	1	112023789	T	G	8225	0.08	0.02	0.00	0.00	20.50
rs1435367	Adenosine 5'-monophosphate (AMP) to valine ratio	GCST90200869	3	5786226	G	A	8225	0.08	0.02	0.00	0.00	22.98
rs14888250	Adenosine 5'-monophosphate (AMP) to valine ratio	GCST90200869	3	8799831	T	A	8225	-0.28	0.06	0.00	0.00	23.68

rs6792151	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	3	171812145	G	T	8225	0.10	0.02	0.00	0.00	22.26
rs16858780	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	3	184386115	C	A	8225	0.10	0.02	0.00	0.00	22.89
rs1902497	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	4	155126451	A	C	8225	-0.07	0.02	0.00	0.00	22.61
rs72875947	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	6	64989069	T	C	8225	-0.16	0.04	0.00	0.00	20.06
rs7013881	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	8	86444061	C	T	8225	-0.07	0.02	0.00	0.00	19.59
rs9407294	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	9	529429	C	G	8225	0.14	0.03	0.00	0.00	22.75
rs118182258	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	10	60980126	A	G	8225	0.23	0.05	0.00	0.00	23.56
rs75350542	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	12	6295614	A	C	8225	-0.25	0.06	0.00	0.00	19.88
rs10466932	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	12	116397262	A	G	8225	0.10	0.02	0.00	0.00	19.73
rs17268898	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	13	46493070	T	C	8225	0.11	0.02	0.00	0.00	19.85
rs62004650	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	15	62787963	G	A	8225	-0.32	0.07	0.00	0.00	20.10
rs12941798	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	17	55212120	A	G	8225	-0.07	0.02	0.00	0.00	21.55
rs118103311	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	18	74407627	C	T	8225	-0.30	0.06	0.00	0.00	26.97
rs112275990	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	19	5450314	A	G	8225	0.22	0.05	0.00	0.00	19.88
rs117579136	Adenosine 5'- monophosphate (AMP) to valine ratio	GCST90200869	19	55106746	C	T	8225	-0.28	0.06	0.00	0.00	21.18
rs28367943	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	1	21278316	G	A	6773	-0.23	0.05	0.00	0.00	20.43
rs115174071	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	1	90048139	A	C	6773	-0.35	0.07	0.00	0.00	24.42

rs58098535	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	1	177165263	G	A	6773	0.12	0.03	0.00	0.00	20.73
rs114887829	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	1	187912731	A	G	6773	-0.20	0.04	0.00	0.00	21.15
rs148493322	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	1	211979437	G	A	6773	0.29	0.06	0.00	0.00	20.00
rs67287809	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	2	6210070	G	A	6773	-0.17	0.04	0.00	0.00	20.67
rs111809385	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	2	50897230	A	T	6773	-0.22	0.05	0.00	0.00	22.63
rs13000477	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	2	62617336	C	A	6773	-0.15	0.03	0.00	0.00	20.17
rs58977389	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	2	82915627	T	C	6773	-0.27	0.06	0.00	0.00	21.13
rs12477962	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	2	84897909	T	C	6773	0.10	0.02	0.00	0.00	19.78
rs115956587	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	2	106803912	C	T	6773	0.44	0.10	0.00	0.00	20.39
rs1022335	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	2	145339215	A	T	6773	-0.08	0.02	0.00	0.00	20.00
rs7607845	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	2	156566154	T	C	6773	0.09	0.02	0.00	0.00	19.84
rs78218388	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	3	67947335	C	G	6773	-0.21	0.05	0.00	0.00	19.66
rs181536848	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	5	23753845	T	C	6773	0.31	0.07	0.00	0.00	19.63
rs10499311	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	6	157679586	T	C	6773	-0.07	0.02	0.00	0.00	19.62

rs28365095	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	7	99679982	T	C	6773	-0.39	0.09	0.00	0.00	19.62
rs28709032	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	9	15527571	A	G	6773	0.08	0.02	0.00	0.00	22.97
rs4531122	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	9	117120421	G	C	6773	-0.08	0.02	0.00	0.00	23.87
rs117830458	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	10	21593335	T	C	6773	-0.25	0.06	0.00	0.00	19.71
rs652299	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	11	61172966	A	G	6773	0.08	0.02	0.00	0.00	19.76
rs2306614	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	11	72697221	T	C	6773	-0.14	0.03	0.00	0.00	22.63
rs77862565	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	12	68267052	A	G	6773	-0.39	0.09	0.00	0.00	21.25
rs145165150	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	12	129989021	T	G	6773	-0.27	0.06	0.00	0.00	19.85
rs79620920	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	13	38099280	C	T	6773	-0.29	0.06	0.00	0.00	24.51
rs66631927	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	13	49021986	A	G	6773	0.15	0.03	0.00	0.00	19.67
rs143984276	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	16	18061854	A	G	6773	0.55	0.12	0.00	0.00	20.08
rs55706563	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	18	62617060	T	C	6773	0.13	0.03	0.00	0.00	23.04
rs117184611	Adenosine 5'- monophosphate (AMP) to acetoacetate ratio	GCST90200870	19	1097093	A	G	6773	0.20	0.05	0.00	0.00	20.43
rs56337840	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	1	10854500	T	G	8177	-0.34	0.07	0.00	0.00	21.42
rs2505722	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	1	22215952	T	G	8177	-0.08	0.02	0.00	0.00	23.69

rs76808529	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	1	179166196	C	T	8177	0.27	0.06	0.00	0.00	19.64
rs12734214	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	1	245460246	A	G	8177	-0.10	0.02	0.00	0.00	21.66
rs191202003	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	2	158330308	T	G	8177	-0.35	0.08	0.00	0.00	21.43
rs1482384	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	3	84410531	T	C	8177	-0.07	0.02	0.00	0.00	22.56
rs4856548	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	3	84792749	C	A	8177	-0.07	0.02	0.00	0.00	20.60
rs76097375	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	3	169902054	T	A	8177	-0.12	0.03	0.00	0.00	21.10
rs6792151	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	3	171812145	G	T	8177	0.10	0.02	0.00	0.00	20.94
rs74797207	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	4	184256292	A	G	8177	0.16	0.03	0.00	0.00	20.86
rs6555312	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	5	4703969	T	A	8177	0.10	0.02	0.00	0.00	22.16
rs139047949	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	5	29898154	A	C	8177	-0.16	0.03	0.00	0.00	20.98
rs77122849	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	6	52726806	A	G	8177	0.18	0.04	0.00	0.00	20.97
rs62488270	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	7	113723188	T	C	8177	-0.19	0.04	0.00	0.00	21.77
rs141302425	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	8	10152271	A	G	8177	0.39	0.08	0.00	0.00	21.28
rs10989500	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	9	101438326	G	A	8177	-0.11	0.02	0.00	0.00	20.78
rs118182258	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	10	60980126	A	G	8177	0.25	0.05	0.00	0.00	28.10
rs2348757	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	10	83097108	C	T	8177	-0.08	0.02	0.00	0.00	21.35
rs78726381	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	11	5724542	C	T	8177	0.32	0.07	0.00	0.00	20.51
rs74481314	Adenosine 5'- monophosphate (AMP) to cysteine ratio	GCST90200871	11	32224841	T	C	8177	-0.22	0.05	0.00	0.00	19.72

rs1783195	Adenosine 5'-monophosphate (AMP) to cysteine ratio	GCST90200871	11	74554934	C	T	8177	-0.10	0.02	0.00	0.00	19.64
rs80096665	Adenosine 5'-monophosphate (AMP) to cysteine ratio	GCST90200871	11	116188061	C	T	8177	-1.16	0.26	0.00	0.00	20.06
rs112368051	Adenosine 5'-monophosphate (AMP) to cysteine ratio	GCST90200871	13	69314269	T	C	8177	0.20	0.04	0.00	0.00	21.85
rs144612973	Adenosine 5'-monophosphate (AMP) to cysteine ratio	GCST90200871	14	44213611	G	A	8177	0.09	0.02	0.00	0.00	22.26
rs11846826	Adenosine 5'-monophosphate (AMP) to cysteine ratio	GCST90200871	14	62249072	A	G	8177	-0.10	0.02	0.00	0.00	20.26
rs75039646	Adenosine 5'-monophosphate (AMP) to cysteine ratio	GCST90200871	16	17540208	A	C	8177	0.15	0.03	0.00	0.00	21.84
rs72885963	Adenosine 5'-monophosphate (AMP) to cysteine ratio	GCST90200871	18	27212172	T	C	8177	0.08	0.02	0.00	0.00	19.93
rs117994291	Adenosine 5'-monophosphate (AMP) to cysteine ratio	GCST90200871	18	48614491	G	C	8177	-0.25	0.06	0.00	0.00	20.14
rs1417898	Phosphate to cysteine ratio	GCST90200872	1	3468663	A	G	8195	0.19	0.04	0.00	0.00	25.91
rs61506820	Phosphate to cysteine ratio	GCST90200872	1	21497422	T	C	8195	-0.09	0.02	0.00	0.00	21.43
rs74087614	Phosphate to cysteine ratio	GCST90200872	1	66796547	C	T	8195	-0.53	0.12	0.00	0.00	20.87
rs475794	Phosphate to cysteine ratio	GCST90200872	1	225597602	G	T	8195	0.11	0.02	0.00	0.00	22.32
rs7608288	Phosphate to cysteine ratio	GCST90200872	2	166335711	C	T	8195	-0.23	0.05	0.00	0.00	21.75
rs6766610	Phosphate to cysteine ratio	GCST90200872	3	11623385	A	C	8195	0.07	0.02	0.00	0.00	21.09
rs13081997	Phosphate to cysteine ratio	GCST90200872	3	178141765	G	A	8195	0.07	0.02	0.00	0.00	20.14
rs72728297	Phosphate to cysteine ratio	GCST90200872	4	141533211	G	A	8195	-0.12	0.03	0.00	0.00	19.87
rs1450383	Phosphate to cysteine ratio	GCST90200872	4	162397239	C	T	8195	-0.17	0.03	0.00	0.00	24.75
rs75900834	Phosphate to cysteine ratio	GCST90200872	6	135572673	T	C	8195	0.12	0.03	0.00	0.00	19.65
rs188729376	Phosphate to cysteine ratio	GCST90200872	7	38050598	G	T	8195	0.42	0.09	0.00	0.00	20.20
rs62487233	Phosphate to cysteine ratio	GCST90200872	7	143518793	G	T	8195	-0.13	0.03	0.00	0.00	20.19
rs75338921	Phosphate to cysteine ratio	GCST90200872	8	40382447	T	C	8195	-0.31	0.06	0.00	0.00	26.13
rs2295925	Phosphate to cysteine ratio	GCST90200872	9	98823710	A	G	8195	-0.07	0.02	0.00	0.00	22.17
rs2225703	Phosphate to cysteine ratio	GCST90200872	10	16265320	T	G	8195	-0.07	0.02	0.00	0.00	19.61
rs80264809	Phosphate to cysteine ratio	GCST90200872	10	30883553	T	G	8195	0.15	0.03	0.00	0.00	20.41
rs16926524	Phosphate to cysteine ratio	GCST90200872	10	52099866	G	A	8195	0.15	0.03	0.00	0.00	24.01
rs4031530	Phosphate to cysteine ratio	GCST90200872	10	85799756	C	T	8195	-0.09	0.02	0.00	0.00	22.51
rs77077698	Phosphate to cysteine ratio	GCST90200872	11	18708534	T	C	8195	-0.23	0.05	0.00	0.00	19.92
rs118176734	Phosphate to cysteine ratio	GCST90200872	12	99002289	A	G	8195	-0.18	0.04	0.00	0.00	20.02
rs73215593	Phosphate to cysteine ratio	GCST90200872	12	118762550	A	G	8195	0.10	0.02	0.00	0.00	20.10

rs7186973	Phosphate to cysteine ratio	GCST90200872	16	54314031	T	C	8195	0.07	0.02	0.00	0.00	22.94
rs7215636	Phosphate to cysteine ratio	GCST90200872	17	11294963	G	C	8195	0.13	0.03	0.00	0.00	20.80
rs56181922	Phosphate to cysteine ratio	GCST90200872	17	73979910	G	T	8195	-0.34	0.07	0.00	0.00	21.97
rs61805851	Cortisol to 4- cholesten-3- one ratio	GCST90200873	1	172002534	A	G	7027	-0.09	0.02	0.00	0.00	22.42
rs12405623	Cortisol to 4- cholesten-3- one ratio	GCST90200873	1	241593880	T	C	7027	0.23	0.05	0.00	0.00	20.24
rs145079316	Cortisol to 4- cholesten-3- one ratio	GCST90200873	2	129774618	A	G	7027	-0.25	0.05	0.00	0.00	21.49
rs113994674	Cortisol to 4- cholesten-3- one ratio	GCST90200873	3	125134656	T	C	7027	0.34	0.08	0.00	0.00	19.73
rs74392348	Cortisol to 4- cholesten-3- one ratio	GCST90200873	3	185143137	C	T	7027	0.31	0.07	0.00	0.00	22.72
rs187249666	Cortisol to 4- cholesten-3- one ratio	GCST90200873	4	83968334	T	G	7027	0.28	0.06	0.00	0.00	22.19
rs518673	Cortisol to 4- cholesten-3- one ratio	GCST90200873	5	6629817	A	G	7027	0.09	0.02	0.00	0.00	23.11
rs2897434	Cortisol to 4- cholesten-3- one ratio	GCST90200873	5	121451230	T	A	7027	0.24	0.05	0.00	0.00	20.64
rs4958083	Cortisol to 4- cholesten-3- one ratio	GCST90200873	5	133244295	T	C	7027	0.12	0.02	0.00	0.00	23.40
rs76300969	Cortisol to 4- cholesten-3- one ratio	GCST90200873	5	178811560	A	G	7027	-0.27	0.06	0.00	0.00	24.59
rs7805983	Cortisol to 4- cholesten-3- one ratio	GCST90200873	7	21733194	G	C	7027	0.09	0.02	0.00	0.00	20.73
rs6480518	Cortisol to 4- cholesten-3- one ratio	GCST90200873	10	51860640	C	T	7027	0.11	0.02	0.00	0.00	19.71
rs2393969	Cortisol to 4- cholesten-3- one ratio	GCST90200873	10	63380680	C	A	7027	0.07	0.02	0.00	0.00	20.77
rs3847845	Cortisol to 4- cholesten-3- one ratio	GCST90200873	12	52568981	T	C	7027	-0.10	0.02	0.00	0.00	21.37
rs35403169	Cortisol to 4- cholesten-3- one ratio	GCST90200873	13	60227339	T	C	7027	-0.55	0.12	0.00	0.00	19.80
rs78629798	Cortisol to 4- cholesten-3- one ratio	GCST90200873	13	62338093	C	T	7027	-0.13	0.03	0.00	0.00	19.66
rs71433014	Cortisol to 4- cholesten-3- one ratio	GCST90200873	13	95323278	A	G	7027	-0.11	0.02	0.00	0.00	20.00
rs8062719	Cortisol to 4- cholesten-3- one ratio	GCST90200873	16	30991343	G	A	7027	0.09	0.02	0.00	0.00	26.94
rs2014236	Cortisol to 4- cholesten-3- one ratio	GCST90200873	16	31004412	A	G	7027	0.51	0.11	0.00	0.00	19.83
rs3855665	Cortisol to 4- cholesten-3- one ratio	GCST90200873	18	29874800	T	C	7027	0.17	0.04	0.00	0.00	20.12
rs73460158	Cortisol to 4- cholesten-3- one ratio	GCST90200873	18	71640298	A	G	7027	-0.14	0.03	0.00	0.00	26.34
rs191800210	Cysteinyglyci ne to taurine ratio	GCST90200874	1	225674940	T	C	8193	0.19	0.04	0.00	0.00	21.20

rs76042374	Cysteinyglyci ne to taurine ratio	GCST90200874	2	10241949	T	C	8193	0.11	0.02	0.00	0.00	21.17
rs139552121	Cysteinyglyci ne to taurine ratio	GCST90200874	2	142947068	A	G	8193	0.38	0.09	0.00	0.00	19.56
rs10166789	Cysteinyglyci ne to taurine ratio	GCST90200874	2	183276498	T	C	8193	-0.11	0.02	0.00	0.00	20.23
rs72933606	Cysteinyglyci ne to taurine ratio	GCST90200874	2	211004196	A	C	8193	0.16	0.03	0.00	0.00	20.26
rs55761850	Cysteinyglyci ne to taurine ratio	GCST90200874	3	111118369	G	T	8193	0.16	0.04	0.00	0.00	19.85
rs6772678	Cysteinyglyci ne to taurine ratio	GCST90200874	3	193079957	C	T	8193	0.10	0.02	0.00	0.00	22.63
rs4692345	Cysteinyglyci ne to taurine ratio	GCST90200874	4	26070760	G	A	8193	-0.08	0.02	0.00	0.00	19.70
rs1027445	Cysteinyglyci ne to taurine ratio	GCST90200874	4	78511102	G	A	8193	0.07	0.02	0.00	0.00	20.49
rs2893067	Cysteinyglyci ne to taurine ratio	GCST90200874	4	123970153	T	C	8193	-0.12	0.02	0.00	0.00	22.28
rs77658160	Cysteinyglyci ne to taurine ratio	GCST90200874	5	29395784	A	C	8193	0.34	0.07	0.00	0.00	20.16
rs59482014	Cysteinyglyci ne to taurine ratio	GCST90200874	6	6323952	T	C	8193	-0.16	0.04	0.00	0.00	19.85
rs145236572	Cysteinyglyci ne to taurine ratio	GCST90200874	6	147576245	G	A	8193	0.25	0.05	0.00	0.00	21.67
rs10274526	Cysteinyglyci ne to taurine ratio	GCST90200874	7	15938008	A	T	8193	-0.08	0.02	0.00	0.00	21.45
rs75334809	Cysteinyglyci ne to taurine ratio	GCST90200874	7	34149728	C	T	8193	-0.22	0.05	0.00	0.00	20.43
rs29698	Cysteinyglyci ne to taurine ratio	GCST90200874	7	41793925	G	A	8193	-0.09	0.02	0.00	0.00	19.94
rs75258377	Cysteinyglyci ne to taurine ratio	GCST90200874	7	129496993	T	G	8193	-0.16	0.04	0.00	0.00	20.27
rs12334851	Cysteinyglyci ne to taurine ratio	GCST90200874	8	73517650	C	T	8193	0.07	0.02	0.00	0.00	20.57
rs118060208	Cysteinyglyci ne to taurine ratio	GCST90200874	10	53284270	T	C	8193	0.17	0.04	0.00	0.00	19.69
rs75871698	Cysteinyglyci ne to taurine ratio	GCST90200874	12	96142019	A	G	8193	-0.29	0.06	0.00	0.00	25.64
rs7973861	Cysteinyglyci ne to taurine ratio	GCST90200874	12	125035131	C	A	8193	0.09	0.02	0.00	0.00	19.56
rs118034930	Cysteinyglyci ne to taurine ratio	GCST90200874	13	40194691	A	G	8193	0.31	0.07	0.00	0.00	19.53
rs17722485	Cysteinyglyci ne to taurine ratio	GCST90200874	13	90061360	A	C	8193	0.11	0.02	0.00	0.00	20.16
rs2062541	Cysteinyglyci ne to taurine ratio	GCST90200874	16	16033378	A	G	8193	0.07	0.02	0.00	0.00	20.78
rs10521293	Cysteinyglyci ne to taurine ratio	GCST90200874	16	53528598	C	T	8193	0.18	0.04	0.00	0.00	20.13

rs258341	Cysteinyglycine to taurine ratio	GCST90200874	16	89624734	C	T	8193	-0.17	0.02	0.00	0.01	115.56
rs2884665	Cysteinyglycine to taurine ratio	GCST90200874	18	43638060	C	T	8193	-0.08	0.02	0.00	0.00	20.35
rs77967813	Cysteinyglycine to taurine ratio	GCST90200874	19	16051495	C	A	8193	0.29	0.06	0.00	0.00	19.51
rs113907785	Cysteinyglycine to taurine ratio	GCST90200874	19	52064070	T	C	8193	0.11	0.02	0.00	0.00	21.56
rs67212852	Cysteinyglycine to taurine ratio	GCST90200874	20	57190719	A	G	8193	-0.07	0.02	0.00	0.00	19.58
rs117262575	Cysteinyglycine to taurine ratio	GCST90200874	21	22789348	T	C	8193	0.50	0.10	0.00	0.00	23.12
rs148881686	Cysteinyglycine to glutamate	GCST90200875	1	52669432	A	G	8197	0.15	0.03	0.00	0.00	19.58
rs148247335	Cysteinyglycine to glutamate	GCST90200875	1	247460444	T	A	8197	-0.35	0.08	0.00	0.00	19.58
rs2041759	Cysteinyglycine to glutamate	GCST90200875	2	40402400	C	T	8197	0.08	0.02	0.00	0.00	21.68
rs1037776	Cysteinyglycine to glutamate	GCST90200875	2	71819349	T	G	8197	0.12	0.03	0.00	0.00	23.35
rs189112462	Cysteinyglycine to glutamate	GCST90200875	2	76822747	A	G	8197	-0.55	0.12	0.00	0.00	22.01
rs3098104	Cysteinyglycine to glutamate	GCST90200875	2	135915108	A	T	8197	0.09	0.02	0.00	0.00	20.09
rs115237943	Cysteinyglycine to glutamate	GCST90200875	2	140597755	C	T	8197	0.19	0.04	0.00	0.00	20.33
rs72876881	Cysteinyglycine to glutamate	GCST90200875	2	167753973	G	A	8197	0.17	0.04	0.00	0.00	20.27
rs80202004	Cysteinyglycine to glutamate	GCST90200875	2	228209392	G	A	8197	-0.15	0.03	0.00	0.00	21.11
rs62354638	Cysteinyglycine to glutamate	GCST90200875	5	36638487	A	G	8197	0.22	0.04	0.00	0.00	26.31
rs79855186	Cysteinyglycine to glutamate	GCST90200875	5	150961427	G	T	8197	0.11	0.02	0.00	0.00	19.83
rs9492323	Cysteinyglycine to glutamate	GCST90200875	6	129432307	G	A	8197	-0.12	0.03	0.00	0.00	20.40
rs146130634	Cysteinyglycine to glutamate	GCST90200875	6	163901350	T	C	8197	0.32	0.07	0.00	0.00	23.58
rs13237860	Cysteinyglycine to glutamate	GCST90200875	7	1218079	T	G	8197	-0.07	0.02	0.00	0.00	19.57
rs112520895	Cysteinyglycine to glutamate	GCST90200875	7	21367197	A	G	8197	-0.32	0.06	0.00	0.00	24.71
rs10225965	Cysteinyglycine to glutamate	GCST90200875	7	92644264	T	C	8197	-0.08	0.02	0.00	0.00	19.53
rs77907794	Cysteinyglycine to glutamate	GCST90200875	8	14554280	C	G	8197	0.32	0.07	0.00	0.00	21.64
rs34655650	Cysteinyglycine to glutamate	GCST90200875	9	15560957	G	A	8197	-0.09	0.02	0.00	0.00	23.16

rs114762092	Cysteinyglycine to glutamate	GCST90200875	11	977386	G	A	8197	-0.33	0.07	0.00	0.00	23.35
rs537614083	Cysteinyglycine to glutamate	GCST90200875	11	21533456	G	A	8197	0.39	0.09	0.00	0.00	19.81
rs12099740	Cysteinyglycine to glutamate	GCST90200875	12	66943059	T	C	8197	0.14	0.03	0.00	0.00	21.34
rs1409514	Cysteinyglycine to glutamate	GCST90200875	13	30036916	C	T	8197	0.07	0.02	0.00	0.00	23.27
rs6565259	Cysteinyglycine to glutamate	GCST90200875	16	28887472	C	T	8197	-0.07	0.02	0.00	0.00	20.24
rs1126464	Cysteinyglycine to glutamate	GCST90200875	16	89637957	C	G	8197	0.14	0.02	0.00	0.01	61.41
rs12449524	Cysteinyglycine to glutamate	GCST90200875	17	17693147	A	C	8197	-0.09	0.02	0.00	0.00	25.94
rs3104441	Cortisone to 4-cholesten-3-one ratio	GCST90200876	1	17191336	C	A	6971	0.08	0.02	0.00	0.00	19.90
rs10493239	Cortisone to 4-cholesten-3-one ratio	GCST90200876	1	58340269	C	T	6971	-0.13	0.03	0.00	0.00	20.17
rs61805851	Cortisone to 4-cholesten-3-one ratio	GCST90200876	1	172002534	A	G	6971	-0.09	0.02	0.00	0.00	24.22
rs1980	Cortisone to 4-cholesten-3-one ratio	GCST90200876	1	205556670	T	C	6971	-0.08	0.02	0.00	0.00	20.74
rs3179673	Cortisone to 4-cholesten-3-one ratio	GCST90200876	2	74557921	G	C	6971	0.11	0.02	0.00	0.00	20.20
rs180916142	Cortisone to 4-cholesten-3-one ratio	GCST90200876	2	221344822	A	G	6971	-1.11	0.24	0.00	0.00	21.41
rs145331450	Cortisone to 4-cholesten-3-one ratio	GCST90200876	3	49841997	T	C	6971	0.64	0.13	0.00	0.00	23.42
rs12491508	Cortisone to 4-cholesten-3-one ratio	GCST90200876	3	111916055	G	A	6971	0.08	0.02	0.00	0.00	22.94
rs2037000	Cortisone to 4-cholesten-3-one ratio	GCST90200876	3	131740231	C	T	6971	-0.08	0.02	0.00	0.00	21.22
rs187249666	Cortisone to 4-cholesten-3-one ratio	GCST90200876	4	83968334	T	G	6971	0.27	0.06	0.00	0.00	20.92
rs518673	Cortisone to 4-cholesten-3-one ratio	GCST90200876	5	6629817	A	G	6971	0.09	0.02	0.00	0.00	28.23
rs2168310	Cortisone to 4-cholesten-3-one ratio	GCST90200876	5	110033614	G	T	6971	-0.12	0.03	0.00	0.00	19.57
rs76300969	Cortisone to 4-cholesten-3-one ratio	GCST90200876	5	178811560	A	G	6971	-0.26	0.05	0.00	0.00	22.62
rs9328035	Cortisone to 4-cholesten-3-one ratio	GCST90200876	6	1097182	C	T	6971	-0.09	0.02	0.00	0.00	19.75
rs7741285	Cortisone to 4-cholesten-3-one ratio	GCST90200876	6	107775325	C	T	6971	0.07	0.02	0.00	0.00	19.99
rs148294287	Cortisone to 4-cholesten-3-one ratio	GCST90200876	6	126169178	T	C	6971	-0.29	0.07	0.00	0.00	19.75
rs2273735	Cortisone to 4-cholesten-3-one ratio	GCST90200876	10	17174420	C	T	6971	-0.08	0.02	0.00	0.00	26.24

rs2673436	Cortisone to 4-cholesten-3-one ratio	GCST90200876	10	77603630	A	G	6971	0.08	0.02	0.00	0.00	22.59
rs117302718	Cortisone to 4-cholesten-3-one ratio	GCST90200876	10	98902844	C	T	6971	-0.32	0.07	0.00	0.00	20.37
rs115096036	Cortisone to 4-cholesten-3-one ratio	GCST90200876	11	2834024	A	G	6971	0.26	0.05	0.00	0.00	22.22
rs117204318	Cortisone to 4-cholesten-3-one ratio	GCST90200876	11	19512378	A	G	6971	-0.45	0.09	0.00	0.00	23.85
rs1540842	Cortisone to 4-cholesten-3-one ratio	GCST90200876	12	19892953	A	G	6971	0.17	0.04	0.00	0.00	19.74
rs7972538	Cortisone to 4-cholesten-3-one ratio	GCST90200876	12	52643007	C	T	6971	-0.09	0.02	0.00	0.00	19.78
rs182273891	Cortisone to 4-cholesten-3-one ratio	GCST90200876	12	97340803	A	T	6971	-0.41	0.09	0.00	0.00	23.48
rs61978604	Cortisone to 4-cholesten-3-one ratio	GCST90200876	14	20849153	C	T	6971	0.10	0.02	0.00	0.00	22.57
rs10483514	Cortisone to 4-cholesten-3-one ratio	GCST90200876	14	40017104	G	A	6971	-0.24	0.05	0.00	0.00	21.84
rs55979739	Cortisone to 4-cholesten-3-one ratio	GCST90200876	16	31037834	G	A	6971	-0.09	0.02	0.00	0.00	25.32
rs1834536	Cortisone to 4-cholesten-3-one ratio	GCST90200876	18	2160387	A	G	6971	0.08	0.02	0.00	0.00	20.32
rs140734346	Cortisone to 4-cholesten-3-one ratio	GCST90200876	18	3192639	A	T	6971	0.29	0.06	0.00	0.00	20.53
rs9961735	Cortisone to 4-cholesten-3-one ratio	GCST90200876	18	71630245	G	A	6971	-0.11	0.02	0.00	0.00	21.39
rs111978658	Cortisone to 4-cholesten-3-one ratio	GCST90200876	19	16988864	A	G	6971	-0.22	0.05	0.00	0.00	19.73
rs5756708	Cortisone to 4-cholesten-3-one ratio	GCST90200876	22	37507571	G	A	6971	0.07	0.02	0.00	0.00	20.50
rs116770889	Taurine to glutamate	GCST90200877	1	116450536	T	C	8220	-0.32	0.07	0.00	0.00	20.07
rs1964459	Taurine to glutamate	GCST90200877	2	136007504	G	C	8220	0.09	0.02	0.00	0.00	20.78
rs78187934	Taurine to glutamate	GCST90200877	2	168011722	T	C	8220	-0.43	0.09	0.00	0.00	21.39
rs13071304	Taurine to glutamate	GCST90200877	3	111742549	C	G	8220	0.13	0.03	0.00	0.00	20.72
rs12486762	Taurine to glutamate	GCST90200877	3	149661396	T	A	8220	-0.09	0.02	0.00	0.00	20.45
rs62291091	Taurine to glutamate	GCST90200877	4	3779023	G	T	8220	0.19	0.04	0.00	0.00	21.49
rs62354638	Taurine to glutamate	GCST90200877	5	36638487	A	G	8220	0.24	0.04	0.00	0.00	33.78
rs117117166	Taurine to glutamate	GCST90200877	6	137240271	C	T	8220	-0.22	0.05	0.00	0.00	20.53
rs62444725	Taurine to glutamate	GCST90200877	7	53928426	A	G	8220	-0.11	0.02	0.00	0.00	23.34
rs117178352	Taurine to glutamate	GCST90200877	7	108677467	G	C	8220	-0.22	0.05	0.00	0.00	21.66
rs7827943	Taurine to glutamate	GCST90200877	8	72493397	G	A	8220	-0.08	0.02	0.00	0.00	19.62
rs1118898	Taurine to glutamate	GCST90200877	13	86339121	C	T	8220	0.14	0.03	0.00	0.00	21.62
rs2476320	Taurine to glutamate	GCST90200877	13	113097027	A	G	8220	-0.09	0.02	0.00	0.00	22.26
rs184697623	Taurine to glutamate	GCST90200877	14	51273141	G	A	8220	-0.32	0.07	0.00	0.00	22.58

rs7149583	Taurine to glutamate	GCST90200877	14	70512526	A	G	8220	-0.20	0.04	0.00	0.00	24.29
rs6498990	Taurine to glutamate	GCST90200877	16	52641140	G	A	8220	0.09	0.02	0.00	0.00	21.01
rs62061198	Taurine to glutamate	GCST90200877	17	7472338	T	C	8220	0.08	0.02	0.00	0.00	20.22
rs16961756	Taurine to glutamate	GCST90200877	17	17456305	G	A	8220	0.12	0.03	0.00	0.00	20.70
rs2677863	Taurine to glutamate	GCST90200877	18	2564045	C	T	8220	-0.08	0.02	0.00	0.00	20.73
rs78777003	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	2	13003970	G	A	7685	0.25	0.06	0.00	0.00	20.55
rs11124607	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	2	37736950	C	G	7685	0.08	0.02	0.00	0.00	20.46
rs10207676	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	2	76647079	C	T	7685	-0.10	0.02	0.00	0.00	19.56
rs62310843	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	4	78870686	A	G	7685	0.18	0.04	0.00	0.00	20.47
rs78185325	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	4	125512217	A	G	7685	0.30	0.07	0.00	0.00	19.95
rs139751888	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	5	299687	T	C	7685	-0.14	0.03	0.00	0.00	21.46
rs4280857	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	5	148593056	A	G	7685	0.18	0.04	0.00	0.00	19.65
rs115351244	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	5	174313030	A	G	7685	-0.38	0.08	0.00	0.00	19.98
rs74753045	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	6	55735891	A	G	7685	0.12	0.03	0.00	0.00	22.21
rs73199406	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	7	86324818	C	A	7685	-0.15	0.03	0.00	0.00	22.95
rs78998770	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	7	89865974	G	A	7685	0.16	0.03	0.00	0.00	20.17
rs13233378	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	7	97343495	T	A	7685	-0.08	0.02	0.00	0.00	20.43
rs2453554	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	9	27561802	T	C	7685	0.09	0.02	0.00	0.00	22.77
rs10826424	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	10	28211483	C	T	7685	0.10	0.02	0.00	0.00	23.41
rs6480930	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	10	79302795	A	G	7685	0.10	0.02	0.00	0.00	23.05
rs1674907	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	10	126149421	A	G	7685	-0.07	0.02	0.00	0.00	19.89

rs747397	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	11	35942914	T	A	7685	-0.08	0.02	0.00	0.00	20.27
rs4930245	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	11	68743016	C	T	7685	0.08	0.02	0.00	0.00	19.55
rs6538971	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	12	100770975	G	C	7685	0.08	0.02	0.00	0.00	23.90
rs141414361	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	13	111852447	T	C	7685	-0.62	0.14	0.00	0.00	19.89
rs58507671	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	14	63045801	G	A	7685	0.17	0.03	0.00	0.00	23.31
rs11656546	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	17	64664702	A	G	7685	0.10	0.02	0.00	0.00	21.06
rs2952307	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	17	68583773	G	C	7685	0.09	0.02	0.00	0.00	23.39
rs35360071	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	19	14800506	C	T	7685	-0.10	0.02	0.00	0.00	23.13
rs149100456	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	19	40690434	A	G	7685	-0.21	0.05	0.00	0.00	20.73
rs17293432	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	20	19585027	A	G	7685	-0.15	0.03	0.00	0.00	26.19
rs117680012	Glutarate (C5-DC) to caprylate (8:0) ratio	GCST90200878	20	46434250	G	A	7685	-0.21	0.05	0.00	0.00	20.49
rs116175622	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	1	53297465	A	G	8213	0.25	0.05	0.00	0.00	22.96
rs34751177	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	1	112023789	T	G	8213	0.08	0.02	0.00	0.00	21.35
rs10753956	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	1	190818540	T	C	8213	-0.12	0.03	0.00	0.00	20.56
rs1460118	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	3	53675824	C	T	8213	0.07	0.02	0.00	0.00	20.48
rs183777831	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	4	60752769	G	C	8213	0.41	0.09	0.00	0.00	22.32
rs2851063	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	4	101062645	C	T	8213	-0.07	0.01	0.00	0.00	24.02
rs4834599	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	4	116942381	T	C	8213	0.09	0.02	0.00	0.00	19.52

rs4587034	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	5	66599365	G	A	8213	0.08	0.02	0.00	0.00	21.29
rs147568733	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	7	1343251	A	G	8213	-0.23	0.05	0.00	0.00	21.56
rs10481008	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	7	50892374	G	A	8213	-0.07	0.01	0.00	0.00	23.57
rs186574557	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	8	68934639	A	T	8213	-1.03	0.21	0.00	0.00	23.04
rs4628307	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	9	9256524	T	C	8213	0.08	0.02	0.00	0.00	22.31
rs10466932	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	12	116397262	A	G	8213	0.11	0.02	0.00	0.00	25.45
rs539843	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	13	46499207	C	T	8213	0.07	0.02	0.00	0.00	20.53
rs143539374	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	14	44437871	G	A	8213	0.22	0.05	0.00	0.00	21.61
rs182907327	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	14	101932418	A	G	8213	-0.29	0.06	0.00	0.00	20.12
rs75240989	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	15	78341747	A	G	8213	-0.20	0.04	0.00	0.00	25.69
rs28706671	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	15	100729296	C	T	8213	-0.09	0.02	0.00	0.00	23.81
rs6564241	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	16	75230076	C	T	8213	-0.09	0.02	0.00	0.00	25.06
rs16958749	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	16	82836504	G	C	8213	-0.11	0.02	0.00	0.00	20.73
rs2424234	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	20	19383335	C	T	8213	-0.10	0.02	0.00	0.00	21.39
rs57209759	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	21	43950686	A	G	8213	0.09	0.02	0.00	0.00	21.47
rs738807	Adenosine 5'-monophosphate (AMP) to glutamate	GCST90200879	22	23892058	T	C	8213	0.10	0.02	0.00	0.00	19.80
rs79666235	Glutarate (C5-DC) to salicylate ratio	GCST90200880	3	2352697	A	G	7684	0.26	0.06	0.00	0.00	20.66
rs112981786	Glutarate (C5-DC) to salicylate ratio	GCST90200880	3	33380659	A	G	7684	-0.26	0.06	0.00	0.00	19.53
rs10461991	Glutarate (C5-DC) to salicylate ratio	GCST90200880	5	38576080	A	G	7684	-0.08	0.02	0.00	0.00	21.05

rs11747295	Glutarate (C5-DC) to salicylate ratio	GCST90200880	5	124060979	G	A	7684	0.08	0.02	0.00	0.00	22.05
rs117967774	Glutarate (C5-DC) to salicylate ratio	GCST90200880	7	70613931	A	G	7684	0.39	0.08	0.00	0.00	22.78
rs6979693	Glutarate (C5-DC) to salicylate ratio	GCST90200880	7	151046954	G	A	7684	-0.15	0.03	0.00	0.00	21.95
rs34876607	Glutarate (C5-DC) to salicylate ratio	GCST90200880	8	392899	G	T	7684	0.13	0.03	0.00	0.00	21.41
rs11996635	Glutarate (C5-DC) to salicylate ratio	GCST90200880	8	112151737	C	G	7684	0.07	0.02	0.00	0.00	19.67
rs118029986	Glutarate (C5-DC) to salicylate ratio	GCST90200880	8	126625442	T	C	7684	0.26	0.06	0.00	0.00	20.88
rs58910473	Glutarate (C5-DC) to salicylate ratio	GCST90200880	9	1279051	C	G	7684	0.29	0.06	0.00	0.00	26.80
rs12342666	Glutarate (C5-DC) to salicylate ratio	GCST90200880	9	19581431	G	C	7684	-0.11	0.02	0.00	0.00	21.79
rs113433442	Glutarate (C5-DC) to salicylate ratio	GCST90200880	11	24073767	A	G	7684	0.32	0.07	0.00	0.00	20.39
rs113387398	Glutarate (C5-DC) to salicylate ratio	GCST90200880	11	112726166	G	A	7684	0.09	0.02	0.00	0.00	21.62
rs146691572	Glutarate (C5-DC) to salicylate ratio	GCST90200880	11	122941343	T	C	7684	0.52	0.11	0.00	0.00	23.92
rs111588163	Glutarate (C5-DC) to salicylate ratio	GCST90200880	12	21382259	G	A	7684	-0.18	0.04	0.00	0.00	21.24
rs6538971	Glutarate (C5-DC) to salicylate ratio	GCST90200880	12	100770975	G	C	7684	0.07	0.02	0.00	0.00	20.38
rs116137513	Glutarate (C5-DC) to salicylate ratio	GCST90200880	15	86557989	A	G	7684	0.30	0.07	0.00	0.00	20.14
rs144746688	Glutarate (C5-DC) to salicylate ratio	GCST90200880	16	84730353	G	A	7684	0.27	0.06	0.00	0.00	21.49
rs143499999	Glutarate (C5-DC) to salicylate ratio	GCST90200880	17	61391398	A	G	7684	0.45	0.10	0.00	0.00	21.39
rs62086681	Glutarate (C5-DC) to salicylate ratio	GCST90200880	17	74629500	A	G	7684	-0.20	0.04	0.00	0.00	24.24
rs12978426	Glutarate (C5-DC) to salicylate ratio	GCST90200880	19	43985876	A	G	7684	0.31	0.07	0.00	0.00	20.52
rs56368330	Aspartate to N-acetylglucosamine to N-acetylglucosamine	GCST90200881	1	17154039	C	T	7899	-0.22	0.05	0.00	0.00	22.39
rs1354034	Aspartate to N-acetylglucosamine to N-acetylglucosamine	GCST90200881	3	56815721	C	T	7899	0.16	0.02	0.00	0.01	108.05
rs2777823	Aspartate to N-acetylglucosamine to N-acetylglucosamine	GCST90200881	4	129069588	C	T	7899	0.11	0.02	0.00	0.01	47.14
rs1995931	Aspartate to N-acetylglucosamine to N-acetylglucosamine	GCST90200881	4	143419407	C	T	7899	-0.07	0.02	0.00	0.00	21.73

rs35127	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	5	6037610	A	G	7899	0.07	0.02	0.00	0.00	21.58
rs62354638	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	5	36638487	A	G	7899	-0.19	0.04	0.00	0.00	19.86
rs11739775	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	5	154643559	G	A	7899	0.07	0.02	0.00	0.00	19.81
rs9968918	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	6	127207868	C	G	7899	0.07	0.01	0.00	0.00	20.48
rs2076007	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	6	167294271	T	C	7899	-0.25	0.02	0.00	0.01	115.78
rs18735454 7	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	10	49090884	T	C	7899	0.26	0.06	0.00	0.00	20.44
rs36002494	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	10	71661272	T	C	7899	0.09	0.02	0.00	0.00	20.91
rs7112236	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	11	26631555	A	G	7899	0.08	0.02	0.00	0.00	23.05
rs19975458 2	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	11	29386047	G	A	7899	0.12	0.03	0.00	0.00	19.77
rs14092456 8	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	11	62543654	T	C	7899	-0.29	0.06	0.00	0.00	19.88
rs34530439	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	11	103773337	G	A	7899	-0.16	0.04	0.00	0.00	19.92
rs73151376	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	12	72816776	G	A	7899	0.15	0.03	0.00	0.00	22.27
rs18973246 4	Aspartate to N- acetylglucosa mine to N- acetylglucosa Aspartate to N-	GCST90200881	12	119006510	T	C	7899	0.47	0.10	0.00	0.00	20.56
rs72705132	Aspartate to N- acetylglucosa mine to N- acetylglucosa	GCST90200881	15	35461509	C	T	7899	0.10	0.02	0.00	0.00	20.43

rs4965804	Aspartate to N-acetylglucosamine to N-acetylglactos Aspartate to N-	GCST90200881	15	101175474	T	C	7899	0.08	0.02	0.00	0.00	20.37
rs77027761	Aspartate to N-acetylglucosamine to N-acetylglactos Aspartate to N-	GCST90200881	16	76390004	T	C	7899	0.54	0.12	0.00	0.00	19.95
rs4796029	Aspartate to N-acetylglucosamine to N-acetylglactos Aspartate to N-	GCST90200881	17	27755761	T	G	7899	0.11	0.02	0.00	0.00	19.95
rs138298731	Aspartate to N-acetylglucosamine to N-acetylglactos Aspartate to N-	GCST90200881	18	1144748	A	G	7899	0.13	0.03	0.00	0.00	19.51
rs45458192	Aspartate to N-acetylglucosamine to N-acetylglactos Aspartate to N-	GCST90200881	19	19640013	T	C	7899	-0.07	0.02	0.00	0.00	22.45
rs363514	Aspartate to N-acetylglucosamine to N-acetylglactos Aspartate to mannose ratio	GCST90200881	21	29670941	T	C	7899	0.09	0.02	0.00	0.00	20.35
rs2789540	Aspartate to mannose ratio	GCST90200882	1	111488068	G	C	8162	0.10	0.02	0.00	0.00	23.29
rs7424130	Aspartate to mannose ratio	GCST90200882	2	16109441	C	A	8162	-0.08	0.02	0.00	0.00	21.62
rs4665972	Aspartate to mannose ratio	GCST90200882	2	27375230	C	T	8162	-0.19	0.02	0.00	0.02	151.11
rs6719648	Aspartate to mannose ratio	GCST90200882	2	107019516	A	C	8162	-0.09	0.02	0.00	0.00	25.20
rs78198652	Aspartate to mannose ratio	GCST90200882	2	233574735	A	C	8162	-0.11	0.02	0.00	0.00	23.02
rs115600225	Aspartate to mannose ratio	GCST90200882	3	55004379	A	C	8162	-0.26	0.06	0.00	0.00	20.28
rs1354034	Aspartate to mannose ratio	GCST90200882	3	56815721	C	T	8162	0.13	0.02	0.00	0.01	72.63
rs114726275	Aspartate to mannose ratio	GCST90200882	4	181487824	T	C	8162	0.24	0.05	0.00	0.00	26.04
rs1501319	Aspartate to mannose ratio	GCST90200882	5	8639725	G	T	8162	0.37	0.08	0.00	0.00	20.30
rs17185061	Aspartate to mannose ratio	GCST90200882	5	77843412	C	T	8162	-0.08	0.02	0.00	0.00	22.27
rs145754459	Aspartate to mannose ratio	GCST90200882	6	7615218	G	C	8162	0.19	0.04	0.00	0.00	25.47
rs113430033	Aspartate to mannose ratio	GCST90200882	6	44085297	G	A	8162	0.21	0.04	0.00	0.00	22.58
rs113511554	Aspartate to mannose ratio	GCST90200882	7	35263002	A	G	8162	0.23	0.05	0.00	0.00	19.66
rs147834125	Aspartate to mannose ratio	GCST90200882	7	122383588	T	C	8162	0.31	0.07	0.00	0.00	21.43
rs4251689	Aspartate to mannose ratio	GCST90200882	8	144515746	T	C	8162	0.09	0.02	0.00	0.00	32.51
rs7898267	Aspartate to mannose ratio	GCST90200882	10	103638990	A	G	8162	-0.12	0.03	0.00	0.00	22.90
rs117937772	Aspartate to mannose ratio	GCST90200882	11	70033382	A	G	8162	0.31	0.07	0.00	0.00	20.90
rs148543917	Aspartate to mannose ratio	GCST90200882	11	84355007	T	C	8162	0.26	0.06	0.00	0.00	20.42
rs150170008	Aspartate to mannose ratio	GCST90200882	13	108684091	T	G	8162	0.17	0.03	0.00	0.00	25.05
rs183062528	Aspartate to mannose ratio	GCST90200882	14	98582405	T	C	8162	-0.45	0.10	0.00	0.00	20.02
rs12102586	Aspartate to mannose ratio	GCST90200882	16	27366732	T	C	8162	0.13	0.03	0.00	0.00	24.47
rs12451679	Aspartate to mannose ratio	GCST90200882	17	35479527	A	G	8162	-0.20	0.04	0.00	0.00	26.26

rs53876022 2	Aspartate to mannose ratio Phosphate to	GCST90200882	19	5863514	C	T	8162	0.29	0.07	0.00	0.00	19.52
rs2480413	acetoacetate ratio Phosphate to	GCST90200883	1	56966455	C	T	6791	-0.08	0.02	0.00	0.00	20.30
rs11228026 1	acetoacetate ratio Phosphate to	GCST90200883	3	135233570	G	A	6791	0.18	0.04	0.00	0.00	20.21
rs14478105 1	acetoacetate ratio Phosphate to	GCST90200883	3	136181035	T	C	6791	-0.36	0.08	0.00	0.00	20.06
rs14207036 6	acetoacetate ratio Phosphate to	GCST90200883	5	165383035	A	T	6791	0.32	0.07	0.00	0.00	19.98
rs2523853	acetoacetate ratio Phosphate to	GCST90200883	6	31054780	A	G	6791	-0.12	0.03	0.00	0.00	21.32
rs11153053	acetoacetate ratio Phosphate to	GCST90200883	6	107161531	T	G	6791	0.10	0.02	0.00	0.00	21.11
rs35230136	acetoacetate ratio Phosphate to	GCST90200883	6	115175576	T	C	6791	-0.18	0.04	0.00	0.00	19.57
rs76821212	acetoacetate ratio Phosphate to	GCST90200883	6	165508129	C	T	6791	0.18	0.04	0.00	0.00	21.86
rs7782383	acetoacetate ratio Phosphate to	GCST90200883	7	8697688	G	A	6791	-0.22	0.04	0.00	0.00	25.63
rs4732545	acetoacetate ratio Phosphate to	GCST90200883	7	84116655	T	C	6791	-0.09	0.02	0.00	0.00	23.01
rs10952495	acetoacetate ratio Phosphate to	GCST90200883	7	154564876	G	A	6791	-0.12	0.03	0.00	0.00	20.23
rs9650348	acetoacetate ratio Phosphate to	GCST90200883	8	13604889	A	G	6791	0.08	0.02	0.00	0.00	22.41
rs14974560 2	acetoacetate ratio Phosphate to	GCST90200883	8	26914827	C	G	6791	-0.34	0.07	0.00	0.00	21.80
rs14273474 2	acetoacetate ratio Phosphate to	GCST90200883	8	58930374	C	T	6791	-0.46	0.10	0.00	0.00	20.08
rs11778032 5	acetoacetate ratio Phosphate to	GCST90200883	8	132477519	T	A	6791	-0.32	0.07	0.00	0.00	19.58
rs13292869	acetoacetate ratio Phosphate to	GCST90200883	9	117120721	G	A	6791	-0.08	0.02	0.00	0.00	23.36
rs18719583 8	acetoacetate ratio Phosphate to	GCST90200883	10	21624520	A	T	6791	-0.32	0.06	0.00	0.00	27.19
rs11687299 4	acetoacetate ratio Phosphate to	GCST90200883	10	127377019	G	A	6791	-0.57	0.12	0.00	0.00	22.14
rs14428471 5	acetoacetate ratio Phosphate to	GCST90200883	11	115912499	A	G	6791	0.28	0.06	0.00	0.00	21.05
rs76783341	acetoacetate ratio Phosphate to	GCST90200883	13	91568891	A	G	6791	0.13	0.03	0.00	0.00	20.59
rs72774946	acetoacetate ratio Phosphate to	GCST90200883	16	7576845	A	G	6791	0.27	0.06	0.00	0.00	22.91
rs4798161	acetoacetate ratio Phosphate to	GCST90200883	18	4062986	T	A	6791	-0.08	0.02	0.00	0.00	21.58
rs12959780	acetoacetate ratio Phosphate to	GCST90200883	18	68508425	T	C	6791	0.09	0.02	0.00	0.00	22.62
rs11718461 1	acetoacetate ratio	GCST90200883	19	1097093	A	G	6791	0.20	0.05	0.00	0.00	20.07

rs8109199	Phosphate to acetoacetate ratio	GCST90200883	19	51577090	T	C	6791	0.08	0.02	0.00	0.00	20.00
rs149095400	Phosphate to acetoacetate ratio	GCST90200883	21	29922164	A	C	6791	0.29	0.06	0.00	0.00	24.91
rs146955465	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	1	218204192	T	C	7907	0.19	0.04	0.00	0.00	21.47
rs116060042	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	1	236440661	T	C	7907	-0.31	0.07	0.00	0.00	20.44
rs10754714	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	1	240699393	G	C	7907	-0.08	0.02	0.00	0.00	19.63
rs1260326	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	2	27508073	C	T	7907	0.20	0.02	0.00	0.02	159.23
rs72803946	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	2	45325984	T	C	7907	-0.28	0.06	0.00	0.00	21.47
rs60430060	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	3	126158926	T	C	7907	0.18	0.04	0.00	0.00	20.40
rs1437241	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	3	154223371	C	T	7907	-0.08	0.02	0.00	0.00	19.57
rs317903	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	4	16136542	T	C	7907	0.07	0.02	0.00	0.00	21.93
rs35050010	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	4	25747797	C	T	7907	0.32	0.07	0.00	0.00	22.38
rs530686	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	4	129118729	G	A	7907	0.15	0.02	0.00	0.01	91.52
rs79873086	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	5	63366868	C	T	7907	-0.23	0.05	0.00	0.00	24.46
rs957545	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	5	99669875	A	C	7907	-0.07	0.02	0.00	0.00	19.63
rs73311414	Mannose to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200884	5	159878187	A	G	7907	-0.15	0.03	0.00	0.00	21.26

rs6911453	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	6	16401279	C	T	7907	-0.31	0.07	0.00	0.00	21.92
rs75472991	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	6	71904801	A	C	7907	-0.34	0.08	0.00	0.00	20.24
rs2076007	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	6	167294271	T	C	7907	-0.30	0.02	0.00	0.02	151.55
rs117132843	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	7	101442781	T	C	7907	-0.34	0.07	0.00	0.00	23.86
rs140735171	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	9	113497470	A	G	7907	0.46	0.10	0.00	0.00	21.69
rs138416692	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	10	114529236	C	T	7907	-0.11	0.02	0.00	0.00	21.41
rs10832993	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	11	18823629	G	T	7907	0.08	0.02	0.00	0.00	23.75
rs79405811	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	13	31551799	A	G	7907	0.27	0.05	0.00	0.00	28.78
rs77634594	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	13	100931029	T	C	7907	-0.91	0.20	0.00	0.00	19.96
rs143359510	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	14	45401607	T	C	7907	0.30	0.06	0.00	0.00	21.56
rs34924807	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	15	69037283	A	G	7907	0.07	0.02	0.00	0.00	21.00
rs73995789	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	17	72776394	G	A	7907	-0.17	0.04	0.00	0.00	21.53
rs6013418	Mannose to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200884	20	52254398	C	T	7907	0.13	0.03	0.00	0.00	22.35
rs72675902	Phenylpyruvate to citrate ratio	GCST90200885	1	79028530	T	C	8177	-0.14	0.03	0.00	0.00	22.34
rs79142765	Phenylpyruvate to citrate ratio	GCST90200885	1	181976198	C	G	8177	-0.12	0.03	0.00	0.00	21.11
rs187413789	Phenylpyruvate to citrate ratio	GCST90200885	1	194843201	G	A	8177	0.56	0.12	0.00	0.00	20.28

rs35184711	Phenylpyruvate to citrate ratio	GCST90200885	2	53228839	G	A	8177	0.24	0.05	0.00	0.00	21.09
rs1447241	Phenylpyruvate to citrate ratio	GCST90200885	2	115938858	T	C	8177	0.08	0.02	0.00	0.00	26.49
rs11706290	Phenylpyruvate to citrate ratio	GCST90200885	3	99711553	A	G	8177	0.25	0.05	0.00	0.00	21.23
rs114315505	Phenylpyruvate to citrate ratio	GCST90200885	3	168794639	C	T	8177	0.15	0.03	0.00	0.00	19.51
rs76226838	Phenylpyruvate to citrate ratio	GCST90200885	4	61300225	C	T	8177	0.19	0.04	0.00	0.00	19.72
rs9762022	Phenylpyruvate to citrate ratio	GCST90200885	4	164548569	G	C	8177	0.07	0.02	0.00	0.00	20.12
rs12659456	Phenylpyruvate to citrate ratio	GCST90200885	5	129316544	T	C	8177	0.17	0.04	0.00	0.00	19.69
rs76268396	Phenylpyruvate to citrate ratio	GCST90200885	5	163808215	A	G	8177	-0.31	0.07	0.00	0.00	19.88
rs138866361	Phenylpyruvate to citrate ratio	GCST90200885	6	111305193	A	G	8177	0.34	0.07	0.00	0.00	25.71
rs3008057	Phenylpyruvate to citrate ratio	GCST90200885	6	165658091	G	T	8177	0.10	0.02	0.00	0.00	21.57
rs1622820	Phenylpyruvate to citrate ratio	GCST90200885	8	643977	T	C	8177	0.07	0.02	0.00	0.00	21.33
rs140681246	Phenylpyruvate to citrate ratio	GCST90200885	8	141215862	C	T	8177	0.34	0.08	0.00	0.00	20.41
rs10809860	Phenylpyruvate to citrate ratio	GCST90200885	9	12914346	A	C	8177	-0.07	0.02	0.00	0.00	21.36
rs2997922	Phenylpyruvate to citrate ratio	GCST90200885	9	128818465	T	C	8177	0.11	0.02	0.00	0.01	47.25
rs17616507	Phenylpyruvate to citrate ratio	GCST90200885	10	123774403	C	A	8177	0.13	0.03	0.00	0.00	23.47
rs192142793	Phenylpyruvate to citrate ratio	GCST90200885	11	101164120	T	A	8177	-0.38	0.08	0.00	0.00	23.11
rs937475	Phenylpyruvate to citrate ratio	GCST90200885	12	102854494	G	A	8177	-0.08	0.02	0.00	0.00	25.05
rs12313350	Phenylpyruvate to citrate ratio	GCST90200885	12	127668975	A	G	8177	-0.08	0.02	0.00	0.00	22.95
rs7320670	Phenylpyruvate to citrate ratio	GCST90200885	13	86518575	G	A	8177	0.08	0.02	0.00	0.00	25.37
rs4778829	Phenylpyruvate to citrate ratio	GCST90200885	15	80584267	A	G	8177	0.09	0.02	0.00	0.00	21.08
rs1473206	Phenylpyruvate to citrate ratio	GCST90200885	16	58737529	A	G	8177	-0.09	0.01	0.00	0.00	36.36
rs145528457	Phenylpyruvate to citrate ratio	GCST90200885	17	71173726	C	G	8177	-0.25	0.05	0.00	0.00	21.48
rs10775444	Phenylpyruvate to citrate ratio	GCST90200885	18	8924412	A	G	8177	-0.07	0.02	0.00	0.00	20.00
rs12985193	Phenylpyruvate to citrate ratio	GCST90200885	19	48791502	C	T	8177	0.16	0.03	0.00	0.00	22.00

rs117048185	Phenylpyruvate to citrate ratio	GCST90200885	19	48806519	C	G	8177	-0.28	0.06	0.00	0.00	20.03
rs35666081	Phenylpyruvate to citrate ratio	GCST90200885	20	46961659	A	G	8177	0.07	0.02	0.00	0.00	20.84
rs807669	Phenylpyruvate to citrate ratio	GCST90200885	22	19167009	C	T	8177	0.08	0.02	0.00	0.00	26.42
rs142856889	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	1	51242823	C	G	7829	-0.35	0.08	0.00	0.00	19.82
rs184719628	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	1	102316490	G	A	7829	-0.35	0.08	0.00	0.00	20.75
rs980937	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	1	158170415	A	G	7829	0.08	0.02	0.00	0.00	25.49
rs141721937	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	1	228997303	C	T	7829	0.29	0.06	0.00	0.00	21.71
rs1520339	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	2	155895409	C	T	7829	-0.08	0.02	0.00	0.00	19.98
rs72965904	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	2	226696508	C	T	7829	0.12	0.03	0.00	0.00	20.32
rs62248800	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	3	42483033	T	C	7829	0.19	0.04	0.00	0.00	23.19
rs73123899	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	3	64888770	G	A	7829	-0.38	0.09	0.00	0.00	19.61
rs74511064	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	4	88678661	T	G	7829	0.43	0.10	0.00	0.00	19.58
rs16897463	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	6	65910018	T	C	7829	0.12	0.03	0.00	0.00	20.90
rs9478673	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	6	155691683	T	C	7829	0.07	0.02	0.00	0.00	19.94
rs150523721	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	9	2517904	T	C	7829	0.28	0.06	0.00	0.00	24.06
rs148902919	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	9	38615632	A	G	7829	-0.27	0.06	0.00	0.00	22.72
rs59972926	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	10	31117023	T	C	7829	0.15	0.03	0.00	0.00	19.63
rs34712994	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	10	61575108	T	A	7829	-0.31	0.06	0.00	0.00	24.64
rs640620	Phenylpyruvate to 4-hydroxyphenylluvate ratio	GCST90200886	11	85731760	G	T	7829	-0.08	0.02	0.00	0.00	22.25

rs4579940	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	11	134474038	C	T	7829	-0.07	0.02	0.00	0.00	19.68
rs17842947	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	12	102912772	G	A	7829	-0.09	0.02	0.00	0.00	19.52
rs10840627	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	12	121869674	G	A	7829	0.19	0.02	0.00	0.01	64.41
rs9526782	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	13	51587833	T	C	7829	0.14	0.03	0.00	0.00	21.58
rs2093075	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	14	28562426	C	G	7829	-0.07	0.02	0.00	0.00	19.66
rs143843231	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	14	50605394	A	T	7829	0.25	0.05	0.00	0.00	21.11
rs847280	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	14	72216599	A	T	7829	-0.20	0.04	0.00	0.00	25.94
rs4784972	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	16	58694011	T	C	7829	0.11	0.02	0.00	0.00	20.66
rs113760949	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	16	78904323	T	C	7829	0.13	0.03	0.00	0.00	21.42
rs74577983	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	17	5489471	G	A	7829	-0.21	0.05	0.00	0.00	19.60
rs12453866	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	17	68780261	T	C	7829	-0.12	0.03	0.00	0.00	19.55
rs138080127	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	21	16128299	C	G	7829	-0.23	0.05	0.00	0.00	19.82
rs140305329	Phenylpyruvate to 4-hydroxyphenylpyruvate ratio	GCST90200886	22	26216604	A	C	7829	0.30	0.07	0.00	0.00	19.77
rs11577722	Cholesterol to cortisol ratio	GCST90200887	1	236495063	A	G	8211	0.07	0.02	0.00	0.00	20.23
rs139656343	Cholesterol to cortisol ratio	GCST90200887	4	24069604	T	C	8211	0.34	0.07	0.00	0.00	21.78
rs114887889	Cholesterol to cortisol ratio	GCST90200887	5	111261229	C	T	8211	-0.28	0.06	0.00	0.00	22.03
rs803428	Cholesterol to cortisol ratio	GCST90200887	6	150808516	C	T	8211	-0.29	0.06	0.00	0.00	22.67
rs388557	Cholesterol to cortisol ratio	GCST90200887	7	108198193	A	C	8211	0.11	0.02	0.00	0.00	19.89
rs138297249	Cholesterol to cortisol ratio	GCST90200887	8	36187530	A	G	8211	-0.20	0.04	0.00	0.00	21.32
rs150826265	Cholesterol to cortisol ratio	GCST90200887	8	120898433	G	A	8211	-0.10	0.02	0.00	0.00	19.92
rs72685431	Cholesterol to cortisol ratio	GCST90200887	8	141458034	A	G	8211	-0.09	0.02	0.00	0.00	19.84
rs576580271	Cholesterol to cortisol ratio	GCST90200887	9	86162028	G	A	8211	0.20	0.04	0.00	0.00	20.77
rs2788443	Cholesterol to cortisol ratio	GCST90200887	10	29199761	A	C	8211	0.13	0.03	0.00	0.00	20.04
rs10830953	Cholesterol to cortisol ratio	GCST90200887	11	92885247	T	G	8211	-0.07	0.02	0.00	0.00	20.28

rs4356265	Cholesterol to cortisol ratio	GCST90200887	11	117431102	T	C	8211	0.11	0.02	0.00	0.00	21.11
rs11789174 9	Cholesterol to cortisol ratio	GCST90200887	12	89507093	C	A	8211	0.31	0.07	0.00	0.00	19.52
rs9989237	Cholesterol to cortisol ratio	GCST90200887	14	94328865	T	C	8211	-0.12	0.02	0.00	0.01	45.24
rs45582031	Cholesterol to cortisol ratio	GCST90200887	16	52530729	G	T	8211	-0.38	0.08	0.00	0.00	20.50
rs11727882 7	Cholesterol to cortisol ratio	GCST90200887	17	2663472	T	C	8211	0.25	0.06	0.00	0.00	19.81
rs5994430	Cholesterol to cortisol ratio	GCST90200887	22	31808648	T	C	8211	-0.10	0.02	0.00	0.00	22.22
rs14840385 2	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	1	42569554	C	T	7851	0.24	0.05	0.00	0.00	20.48
rs11576745	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	1	84774563	T	C	7851	-0.08	0.02	0.00	0.00	21.84
rs11401898 7	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	1	205370373	T	G	7851	0.30	0.06	0.00	0.00	22.74
rs11305718 2	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	3	6451878	A	G	7851	0.34	0.07	0.00	0.00	21.06
rs15067640 5	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	3	73960482	G	T	7851	0.31	0.07	0.00	0.00	20.34
rs11595457 9	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	4	126027338	G	A	7851	-0.29	0.06	0.00	0.00	20.78
rs9358752	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	6	24159408	T	G	7851	0.10	0.02	0.00	0.00	22.39
rs12208357	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	6	160122116	T	C	7851	-0.14	0.03	0.00	0.00	21.06
rs4728838	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	7	89881430	A	G	7851	-0.08	0.02	0.00	0.00	26.11
rs11186208 2	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	7	140478754	T	C	7851	-0.09	0.02	0.00	0.00	20.62
rs14926998 6	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	8	128700933	G	A	7851	-0.28	0.06	0.00	0.00	20.38
rs11736173 4	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	8	141148835	C	T	7851	-0.39	0.08	0.00	0.00	22.43
rs71456122	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	11	63529325	A	G	7851	-0.31	0.07	0.00	0.00	20.90
rs2453486	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	12	48783330	G	T	7851	0.08	0.02	0.00	0.00	19.89
rs1154510	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	12	121857429	C	T	7851	0.15	0.02	0.00	0.00	39.43
rs11391463 3	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	16	67335723	A	C	7851	-0.08	0.02	0.00	0.00	19.66
rs79528728	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	19	43589637	C	T	7851	-0.18	0.04	0.00	0.00	23.17
rs807669	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	22	19167009	C	T	7851	-0.09	0.02	0.00	0.00	33.23
rs78543713	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	22	27524391	T	C	7851	-0.11	0.03	0.00	0.00	19.57
rs14384073 0	Citrate to 4- hydroxypheny lpyruvate ratio	GCST90200888	22	45848869	G	A	7851	-0.23	0.05	0.00	0.00	23.44

rs116782815	Cholesterol to taurocholate ratio	GCST90200889	2	11163130	T	C	7611	-0.33	0.08	0.00	0.00	19.78
rs16830742	Cholesterol to taurocholate ratio	GCST90200889	3	179707074	G	A	7611	0.15	0.03	0.00	0.00	20.43
rs2196815	Cholesterol to taurocholate ratio	GCST90200889	4	160436278	A	C	7611	0.08	0.02	0.00	0.00	20.50
rs114121344	Cholesterol to taurocholate ratio	GCST90200889	5	34775983	A	G	7611	0.30	0.07	0.00	0.00	19.88
rs141336372	Cholesterol to taurocholate ratio	GCST90200889	5	35825444	T	A	7611	0.35	0.07	0.00	0.00	22.25
rs16900411	Cholesterol to taurocholate ratio	GCST90200889	6	69002815	G	A	7611	-0.20	0.05	0.00	0.00	19.89
rs150033131	Cholesterol to taurocholate ratio	GCST90200889	6	102980285	G	C	7611	-0.45	0.10	0.00	0.00	22.49
rs149858266	Cholesterol to taurocholate ratio	GCST90200889	6	153546418	T	A	7611	0.39	0.09	0.00	0.00	19.62
rs79931337	Cholesterol to taurocholate ratio	GCST90200889	7	110842497	G	C	7611	-0.29	0.06	0.00	0.00	23.67
rs151115088	Cholesterol to taurocholate ratio	GCST90200889	11	13353033	G	A	7611	0.28	0.06	0.00	0.00	19.58
rs907638	Cholesterol to taurocholate ratio	GCST90200889	11	62002116	C	T	7611	-0.08	0.02	0.00	0.00	21.40
rs188255354	Cholesterol to taurocholate ratio	GCST90200889	11	121181254	T	C	7611	-0.39	0.09	0.00	0.00	21.30
rs1904238	Cholesterol to taurocholate ratio	GCST90200889	12	12020363	A	G	7611	-0.08	0.02	0.00	0.00	22.77
rs75877954	Cholesterol to taurocholate ratio	GCST90200889	12	77192900	T	G	7611	0.43	0.09	0.00	0.00	21.83
rs142436924	Cholesterol to taurocholate ratio	GCST90200889	12	108943244	A	G	7611	1.07	0.24	0.00	0.00	19.82
rs10848050	Cholesterol to taurocholate ratio	GCST90200889	12	130242234	G	A	7611	0.08	0.02	0.00	0.00	20.85
rs2325219	Cholesterol to taurocholate ratio	GCST90200889	13	69015109	T	C	7611	-0.08	0.02	0.00	0.00	20.56
rs73540111	Cholesterol to taurocholate ratio	GCST90200889	13	75165556	G	A	7611	-0.13	0.03	0.00	0.00	20.34
rs77763397	Cholesterol to taurocholate ratio	GCST90200889	14	99414735	C	T	7611	-0.21	0.05	0.00	0.00	20.47
rs16962867	Cholesterol to taurocholate ratio	GCST90200889	15	49754660	A	T	7611	-0.18	0.04	0.00	0.00	20.34
rs393284	Cholesterol to taurocholate ratio	GCST90200889	16	62613206	C	G	7611	-0.10	0.02	0.00	0.00	23.40
rs113867701	Cholesterol to taurocholate ratio	GCST90200889	16	64529200	G	C	7611	-0.32	0.07	0.00	0.00	21.98
rs76149982	Cholesterol to taurocholate ratio	GCST90200889	17	10808360	A	C	7611	0.15	0.03	0.00	0.00	23.66
rs279804	Cholesterol to taurocholate ratio	GCST90200889	19	21282297	T	C	7611	0.24	0.05	0.00	0.00	20.87

rs11740942 1	Cholesterol to taurocholate ratio	GCST90200889	19	52505874	G	A	7611	0.22	0.05	0.00	0.00	23.74
rs8120082	Cholesterol to taurocholate ratio	GCST90200889	20	31852196	G	A	7611	0.19	0.04	0.00	0.00	27.72
rs2426643	Cholesterol to taurocholate ratio	GCST90200889	20	56717423	G	A	7611	0.07	0.02	0.00	0.00	20.11
rs11102515	Cortisol to taurocholate ratio	GCST90200890	1	108829252	T	G	7610	-0.08	0.02	0.00	0.00	20.64
rs11240076	Cortisol to taurocholate ratio	GCST90200890	1	147530196	C	T	7610	-0.08	0.02	0.00	0.00	20.25
rs11678281 5	Cortisol to taurocholate ratio	GCST90200890	2	11163130	T	C	7610	-0.34	0.07	0.00	0.00	20.00
rs2269349	Cortisol to taurocholate ratio	GCST90200890	3	39411566	T	C	7610	-0.08	0.02	0.00	0.00	22.60
rs19124537 0	Cortisol to taurocholate ratio	GCST90200890	3	134416433	C	T	7610	0.25	0.05	0.00	0.00	23.12
rs76965031	Cortisol to taurocholate ratio	GCST90200890	4	48044534	A	T	7610	0.10	0.02	0.00	0.00	21.24
rs15003313 1	Cortisol to taurocholate ratio	GCST90200890	6	102980285	G	C	7610	-0.44	0.10	0.00	0.00	21.75
rs79931337	Cortisol to taurocholate ratio	GCST90200890	7	110842497	G	C	7610	-0.27	0.06	0.00	0.00	20.15
rs4731512	Cortisol to taurocholate ratio	GCST90200890	7	128733480	A	G	7610	-0.19	0.03	0.00	0.00	30.17
rs11773328	Cortisol to taurocholate ratio	GCST90200890	7	148578598	T	C	7610	0.09	0.02	0.00	0.00	21.90
rs11292942 0	Cortisol to taurocholate ratio	GCST90200890	8	8848917	T	A	7610	-0.18	0.04	0.00	0.00	21.82
rs73245653	Cortisol to taurocholate ratio	GCST90200890	8	60237961	G	A	7610	-0.32	0.07	0.00	0.00	20.07
rs14601472 4	Cortisol to taurocholate ratio	GCST90200890	9	6056699	T	C	7610	-0.31	0.07	0.00	0.00	19.63
rs11007851	Cortisol to taurocholate ratio	GCST90200890	10	30003668	T	C	7610	-0.08	0.02	0.00	0.00	21.71
rs18825535 4	Cortisol to taurocholate ratio	GCST90200890	11	121181254	T	C	7610	-0.39	0.09	0.00	0.00	20.89
rs11806959 8	Cortisol to taurocholate ratio	GCST90200890	13	90035289	G	A	7610	-0.25	0.06	0.00	0.00	19.74
rs9520439	Cortisol to taurocholate ratio	GCST90200890	13	107427186	C	A	7610	0.09	0.02	0.00	0.00	21.45
rs16962867	Cortisol to taurocholate ratio	GCST90200890	15	49754660	A	T	7610	-0.19	0.04	0.00	0.00	22.34
rs13313479	Cortisol to taurocholate ratio	GCST90200890	15	57879513	A	G	7610	-0.07	0.02	0.00	0.00	19.93
rs11386770 1	Cortisol to taurocholate ratio	GCST90200890	16	64529200	G	C	7610	-0.33	0.07	0.00	0.00	23.30
rs76149982	Cortisol to taurocholate ratio	GCST90200890	17	10808360	A	C	7610	0.15	0.03	0.00	0.00	23.92

rs72987247	Cortisol to taurocholate ratio	GCST90200890	18	76980534	T	C	7610	0.32	0.07	0.00	0.00	21.45
rs117409421	Cortisol to taurocholate ratio	GCST90200890	19	52505874	G	A	7610	0.21	0.05	0.00	0.00	22.12
rs144794974	Cortisol to taurocholate ratio	GCST90200890	20	619598	T	C	7610	0.32	0.07	0.00	0.00	19.88
rs563341119	Salicylate to caprylate (8:0) ratio	GCST90200891	1	1456890	T	G	8068	0.19	0.04	0.00	0.00	20.49
rs11811261	Salicylate to caprylate (8:0) ratio	GCST90200891	1	21785485	C	T	8068	-0.12	0.03	0.00	0.00	21.20
rs17247169	Salicylate to caprylate (8:0) ratio	GCST90200891	2	2366744	T	C	8068	-0.26	0.06	0.00	0.00	20.66
rs4479449	Salicylate to caprylate (8:0) ratio	GCST90200891	2	75853785	G	A	8068	0.11	0.02	0.00	0.00	21.80
rs6857170	Salicylate to caprylate (8:0) ratio	GCST90200891	4	5832283	C	T	8068	-0.17	0.04	0.00	0.00	20.84
rs145530615	Salicylate to caprylate (8:0) ratio	GCST90200891	4	15351780	A	C	8068	-0.32	0.07	0.00	0.00	21.13
rs12110006	Salicylate to caprylate (8:0) ratio	GCST90200891	5	16963042	T	C	8068	0.07	0.02	0.00	0.00	19.90
rs13186733	Salicylate to caprylate (8:0) ratio	GCST90200891	5	178333351	G	A	8068	0.29	0.06	0.00	0.00	19.94
rs169519	Salicylate to caprylate (8:0) ratio	GCST90200891	6	89037035	G	C	8068	0.09	0.02	0.00	0.00	19.90
rs142565734	Salicylate to caprylate (8:0) ratio	GCST90200891	7	4540357	A	G	8068	0.39	0.09	0.00	0.00	19.60
rs77920420	Salicylate to caprylate (8:0) ratio	GCST90200891	8	18604757	T	C	8068	0.31	0.07	0.00	0.00	19.79
rs11996635	Salicylate to caprylate (8:0) ratio	GCST90200891	8	112151737	C	G	8068	-0.07	0.02	0.00	0.00	20.14
rs58910473	Salicylate to caprylate (8:0) ratio	GCST90200891	9	1279051	C	G	8068	-0.24	0.05	0.00	0.00	20.94
rs12347873	Salicylate to caprylate (8:0) ratio	GCST90200891	9	19585407	A	G	8068	0.13	0.03	0.00	0.00	26.16
rs2502738	Salicylate to caprylate (8:0) ratio	GCST90200891	9	133695649	T	G	8068	0.08	0.02	0.00	0.00	21.83
rs10891433	Salicylate to caprylate (8:0) ratio	GCST90200891	11	112771486	T	A	8068	-0.08	0.02	0.00	0.00	19.61
rs1767403	Salicylate to caprylate (8:0) ratio	GCST90200891	14	85220382	A	G	8068	0.07	0.02	0.00	0.00	21.06
rs11636443	Salicylate to caprylate (8:0) ratio	GCST90200891	15	52027499	A	G	8068	-0.07	0.02	0.00	0.00	20.80
rs117998877	Salicylate to caprylate (8:0) ratio	GCST90200891	16	6830470	A	G	8068	-0.43	0.09	0.00	0.00	21.39
rs7499358	Salicylate to caprylate (8:0) ratio	GCST90200891	16	20546312	T	A	8068	0.25	0.05	0.00	0.00	23.52
rs8058168	Salicylate to caprylate (8:0) ratio	GCST90200891	16	83940461	A	G	8068	0.08	0.02	0.00	0.00	20.43

rs112709016	Salicylate to caprylate (8:0) ratio	GCST90200891	18	22978515	G	T	8068	-0.20	0.05	0.00	0.00	20.51
rs35766299	Salicylate to caprylate (8:0) ratio	GCST90200891	18	55084814	A	G	8068	-0.12	0.02	0.00	0.00	23.21
rs6033654	Salicylate to caprylate (8:0) ratio	GCST90200891	20	13266853	A	C	8068	0.07	0.02	0.00	0.00	23.20
rs12481814	Salicylate to caprylate (8:0) ratio	GCST90200891	21	44599768	A	G	8068	0.08	0.02	0.00	0.00	20.14
rs6683715	Hypotaurine to taurine	GCST90200892	1	41571095	A	T	8157	-0.10	0.02	0.00	0.00	20.85
rs16864042	Hypotaurine to taurine	GCST90200892	1	171109864	T	G	8157	0.09	0.01	0.00	0.00	34.15
rs79463988	Hypotaurine to taurine	GCST90200892	2	44237743	G	A	8157	-0.17	0.04	0.00	0.00	19.52
rs34400101	Hypotaurine to taurine	GCST90200892	2	75430691	C	G	8157	0.10	0.02	0.00	0.00	25.57
rs7583290	Hypotaurine to taurine	GCST90200892	2	77734024	T	C	8157	-0.20	0.04	0.00	0.00	21.82
rs13034178	Hypotaurine to taurine	GCST90200892	2	151046087	T	A	8157	-0.07	0.02	0.00	0.00	19.56
rs72993560	Hypotaurine to taurine	GCST90200892	3	1416269	A	G	8157	-0.12	0.02	0.00	0.00	22.58
rs141147436	Hypotaurine to taurine	GCST90200892	3	157427264	A	G	8157	-0.14	0.03	0.00	0.00	25.62
rs1982203	Hypotaurine to taurine	GCST90200892	4	138098202	T	C	8157	-0.10	0.02	0.00	0.01	43.15
rs1366463	Hypotaurine to taurine	GCST90200892	5	115713487	T	C	8157	-0.08	0.01	0.00	0.00	30.85
rs13191296	Hypotaurine to taurine	GCST90200892	6	25684378	T	C	8157	-0.13	0.03	0.00	0.00	22.54
rs143233558	Hypotaurine to taurine	GCST90200892	7	64330243	A	G	8157	-0.11	0.02	0.00	0.00	20.29
rs139370396	Hypotaurine to taurine	GCST90200892	7	129523200	G	T	8157	0.26	0.06	0.00	0.00	20.05
rs118158393	Hypotaurine to taurine	GCST90200892	12	14082000	A	G	8157	0.13	0.03	0.00	0.00	19.65
rs2250010	Hypotaurine to taurine	GCST90200892	12	46800035	T	C	8157	0.08	0.02	0.00	0.00	19.72
rs71460781	Hypotaurine to taurine	GCST90200892	12	127318428	A	G	8157	-0.14	0.03	0.00	0.00	20.16
rs35592995	Hypotaurine to taurine	GCST90200892	14	66850505	A	G	8157	0.09	0.02	0.00	0.00	20.58
rs4984688	Hypotaurine to taurine	GCST90200892	16	735717	C	T	8157	0.07	0.01	0.00	0.00	20.45
rs1126464	Hypotaurine to taurine	GCST90200892	16	89637957	C	G	8157	0.08	0.02	0.00	0.00	20.71
rs11656171	Hypotaurine to taurine	GCST90200892	17	81410288	G	C	8157	0.11	0.02	0.00	0.00	25.70
rs12450996	Hypotaurine to taurine	GCST90200892	17	82336233	A	G	8157	-0.08	0.02	0.00	0.00	24.78
rs118094815	Hypotaurine to taurine	GCST90200892	18	38745868	C	T	8157	-0.42	0.10	0.00	0.00	19.83
rs141874203	Hypotaurine to taurine	GCST90200892	19	5783702	A	G	8157	0.19	0.04	0.00	0.00	21.12
rs34938040	Hypotaurine to taurine	GCST90200892	19	46797915	G	A	8157	-0.08	0.02	0.00	0.00	20.76
rs13050817	Hypotaurine to taurine	GCST90200892	21	40786633	A	G	8157	-0.13	0.03	0.00	0.00	19.52
rs142825162	Hypotaurine to taurine	GCST90200892	22	17804720	T	C	8157	0.34	0.08	0.00	0.00	20.12
rs11573587	Taurine to cysteine ratio	GCST90200893	1	44827646	A	G	8186	0.25	0.05	0.00	0.00	22.38
rs72684396	Taurine to cysteine ratio	GCST90200893	1	47276001	G	A	8186	-0.19	0.04	0.00	0.00	22.94
rs12123500	Taurine to cysteine ratio	GCST90200893	1	70535113	C	T	8186	-0.21	0.05	0.00	0.00	20.92
rs13017903	Taurine to cysteine ratio	GCST90200893	2	133584044	A	G	8186	0.07	0.02	0.00	0.00	19.59
rs72933606	Taurine to cysteine ratio	GCST90200893	2	211004196	A	C	8186	-0.15	0.03	0.00	0.00	19.71

rs4692346	Taurine to cysteine ratio	GCST90200893	4	26070963	G	A	8186	0.09	0.02	0.00	0.00	24.82
rs18343427 9	Taurine to cysteine ratio	GCST90200893	4	94656103	G	A	8186	-0.30	0.06	0.00	0.00	22.82
rs78311040	Taurine to cysteine ratio	GCST90200893	4	104474462	G	A	8186	-0.33	0.07	0.00	0.00	20.93
rs17396015	Taurine to cysteine ratio	GCST90200893	5	104165077	A	G	8186	-0.07	0.02	0.00	0.00	20.28
rs76244048	Taurine to cysteine ratio	GCST90200893	5	177228077	A	G	8186	-0.24	0.05	0.00	0.00	19.81
rs10263444	Taurine to cysteine ratio	GCST90200893	7	111683743	T	C	8186	-0.17	0.04	0.00	0.00	19.83
rs14341007 8	Taurine to cysteine ratio	GCST90200893	9	22705569	G	A	8186	0.29	0.06	0.00	0.00	20.56
rs14706383 4	Taurine to cysteine ratio	GCST90200893	9	78431799	T	C	8186	-0.19	0.04	0.00	0.00	19.92
rs11012699	Taurine to cysteine ratio	GCST90200893	10	21435084	A	G	8186	-0.48	0.10	0.00	0.00	23.62
rs72812102	Taurine to cysteine ratio	GCST90200893	10	78828919	T	C	8186	-0.09	0.02	0.00	0.00	20.06
rs61928477	Taurine to cysteine ratio	GCST90200893	12	21825839	G	C	8186	-0.18	0.04	0.00	0.00	22.18
rs7159478	Taurine to cysteine ratio	GCST90200893	14	36635592	A	C	8186	0.07	0.02	0.00	0.00	22.92
rs9926812	Taurine to cysteine ratio	GCST90200893	16	88745010	T	C	8186	-0.07	0.02	0.00	0.00	21.18
rs11656146	Taurine to cysteine ratio	GCST90200893	17	39677309	T	C	8186	-0.12	0.03	0.00	0.00	20.48
rs8070023	Taurine to cysteine ratio	GCST90200893	17	78376598	A	C	8186	0.13	0.03	0.00	0.00	21.03
rs575509	Taurine to cysteine ratio	GCST90200893	18	6027926	G	C	8186	-0.09	0.02	0.00	0.00	19.64
rs15112989 0	Taurine to cysteine ratio	GCST90200893	18	25085751	T	C	8186	-0.21	0.05	0.00	0.00	21.23
rs11888171	theophylline ratio Inosine to	GCST90200894	2	200978534	G	A	4662	0.12	0.03	0.00	0.00	20.69
rs74499498	theophylline ratio Inosine to	GCST90200894	3	26596283	A	G	4662	-0.36	0.08	0.00	0.00	19.78
rs14772531 7	theophylline ratio Inosine to	GCST90200894	3	196657705	T	C	4662	0.25	0.06	0.00	0.00	21.14
rs2713876	theophylline ratio Inosine to	GCST90200894	4	105410103	T	C	4662	0.10	0.02	0.00	0.00	20.08
rs6873298	theophylline ratio Inosine to	GCST90200894	5	155024053	C	T	4662	0.11	0.02	0.00	0.00	21.71
rs79678096	theophylline ratio Inosine to	GCST90200894	6	36277021	T	C	4662	-0.25	0.05	0.00	0.00	22.84
rs9457187	theophylline ratio Inosine to	GCST90200894	6	166587114	G	A	4662	-0.10	0.02	0.00	0.00	20.14
rs14067376 2	theophylline ratio Inosine to	GCST90200894	7	67368157	T	G	4662	-0.40	0.08	0.00	0.00	22.58
rs62481887	theophylline ratio Inosine to	GCST90200894	7	128628281	T	C	4662	0.33	0.07	0.00	0.00	21.98
rs18599917 9	theophylline ratio Inosine to	GCST90200894	8	102911701	T	C	4662	0.31	0.07	0.00	0.00	19.87
rs7862804	theophylline ratio Inosine to	GCST90200894	9	20001784	A	C	4662	0.09	0.02	0.00	0.00	19.66
rs75461123	theophylline ratio Inosine to	GCST90200894	10	90775339	A	G	4662	-0.42	0.09	0.00	0.00	22.99
rs12819428	theophylline ratio	GCST90200894	12	31628268	C	G	4662	-0.15	0.03	0.00	0.00	21.06

rs11808601 2	Inosine to theophylline ratio	GCST90200894	12	124821074	T	C	4662	-0.40	0.09	0.00	0.00	19.67
rs17237860	Inosine to theophylline ratio	GCST90200894	13	39879243	G	A	4662	-0.30	0.07	0.00	0.00	21.66
rs1158176	Inosine to theophylline ratio	GCST90200894	13	87958722	G	A	4662	0.10	0.02	0.00	0.00	19.56
rs4306374	Inosine to theophylline ratio	GCST90200894	13	111356631	A	G	4662	-0.12	0.02	0.00	0.01	25.25
rs12902607	Inosine to theophylline ratio	GCST90200894	15	26016949	T	C	4662	0.10	0.02	0.00	0.00	19.85
rs15105251 2	Inosine to theophylline ratio	GCST90200894	16	74196296	C	A	4662	-0.40	0.08	0.00	0.01	24.96
rs13856213 8	Inosine to theophylline ratio	GCST90200894	17	2668276	G	A	4662	-0.36	0.08	0.00	0.00	20.86
rs10426452	Inosine to theophylline ratio	GCST90200894	19	49404433	A	G	4662	0.10	0.02	0.00	0.00	19.74
rs13958477 0	Inosine to theophylline ratio	GCST90200894	22	35372606	C	G	4662	0.43	0.09	0.00	0.00	20.15
rs17372813	Hypotaurine to cysteine	GCST90200895	1	41673722	T	C	8134	-0.09	0.02	0.00	0.00	20.79
rs12059956	Hypotaurine to cysteine	GCST90200895	1	171094121	A	G	8134	0.08	0.02	0.00	0.00	27.84
rs12124755	Hypotaurine to cysteine	GCST90200895	1	188485751	T	C	8134	0.27	0.06	0.00	0.00	20.21
rs75244750	Hypotaurine to cysteine	GCST90200895	1	192389487	C	T	8134	0.22	0.05	0.00	0.00	21.05
rs74722116	Hypotaurine to cysteine	GCST90200895	2	157696772	C	T	8134	-0.34	0.08	0.00	0.00	19.52
rs715	Hypotaurine to cysteine	GCST90200895	2	210678331	C	T	8134	-0.08	0.02	0.00	0.00	26.23
rs73048024	Hypotaurine to cysteine	GCST90200895	3	25507759	A	G	8134	-0.17	0.03	0.00	0.00	30.06
rs12631666	Hypotaurine to cysteine	GCST90200895	3	63445101	A	T	8134	-0.13	0.03	0.00	0.00	21.27
rs1595693	Hypotaurine to cysteine	GCST90200895	4	138122498	C	T	8134	-0.12	0.02	0.00	0.01	55.71
rs18733561 1	Hypotaurine to cysteine	GCST90200895	5	30232752	A	C	8134	-0.32	0.07	0.00	0.00	19.83
rs1366463	Hypotaurine to cysteine	GCST90200895	5	115713487	T	C	8134	-0.10	0.02	0.00	0.00	40.65
rs18803663 6	Hypotaurine to cysteine	GCST90200895	5	150479410	T	C	8134	-0.17	0.04	0.00	0.00	20.82
rs75330210	Hypotaurine to cysteine	GCST90200895	6	15102345	C	A	8134	0.23	0.05	0.00	0.00	21.07
rs13212936	Hypotaurine to cysteine	GCST90200895	6	25588587	T	C	8134	-0.13	0.03	0.00	0.00	23.28
rs13859516 3	Hypotaurine to cysteine	GCST90200895	6	42629935	A	G	8134	-0.29	0.06	0.00	0.00	20.81
rs14462047 6	Hypotaurine to cysteine	GCST90200895	6	166156563	T	C	8134	-0.48	0.10	0.00	0.00	21.90
rs28522611	Hypotaurine to cysteine	GCST90200895	7	63831998	G	A	8134	-0.09	0.02	0.00	0.00	20.54
rs11455893 3	Hypotaurine to cysteine	GCST90200895	7	111609554	T	C	8134	-0.13	0.03	0.00	0.00	25.76
rs71543398	Hypotaurine to cysteine	GCST90200895	7	141188395	C	T	8134	0.23	0.04	0.00	0.00	25.96
rs4994332	Hypotaurine to cysteine	GCST90200895	9	134225348	T	C	8134	-0.08	0.02	0.00	0.00	24.56
rs745263	Hypotaurine to cysteine	GCST90200895	10	129211876	G	C	8134	-0.08	0.02	0.00	0.00	21.71
rs34320979	Hypotaurine to cysteine	GCST90200895	11	98917669	A	G	8134	-0.22	0.05	0.00	0.00	19.54
rs7973936	Hypotaurine to cysteine	GCST90200895	12	63939865	A	G	8134	0.08	0.02	0.00	0.00	26.14

rs74900748	Hypotaurine to cysteine	GCST90200895	12	114828299	A	G	8134	-0.11	0.02	0.00	0.00	20.16
rs9658480	Hypotaurine to cysteine	GCST90200895	12	117241797	A	G	8134	0.22	0.05	0.00	0.00	22.34
rs61740027	Hypotaurine to cysteine	GCST90200895	14	20439113	A	G	8134	-0.15	0.03	0.00	0.00	26.51
rs56210827	Hypotaurine to cysteine	GCST90200895	14	66336744	C	A	8134	0.11	0.03	0.00	0.00	19.72
rs17580	Hypotaurine to cysteine	GCST90200895	14	94380925	A	T	8134	0.18	0.03	0.00	0.00	28.16
rs17145645	Hypotaurine to cysteine	GCST90200895	16	8283470	G	C	8134	0.34	0.07	0.00	0.00	22.11
rs1126464	Hypotaurine to cysteine	GCST90200895	16	89637957	C	G	8134	0.10	0.02	0.00	0.00	30.33
rs12969232	Hypotaurine to cysteine	GCST90200895	18	12902632	C	G	8134	-0.08	0.02	0.00	0.00	21.68
rs8091251	Hypotaurine to cysteine	GCST90200895	18	43362831	G	A	8134	0.08	0.02	0.00	0.00	20.51
rs8090864	Hypotaurine to cysteine	GCST90200895	18	79404056	A	G	8134	0.08	0.02	0.00	0.00	21.98
rs8105903	Hypotaurine to cysteine	GCST90200895	19	46784893	A	C	8134	-0.07	0.02	0.00	0.00	21.06
rs3766309	Inosine to EDTA ratio	GCST90200896	1	17650883	T	C	4926	0.11	0.03	0.00	0.00	19.79
rs11682827	Inosine to EDTA ratio	GCST90200896	2	4114137	C	G	4926	0.35	0.07	0.00	0.00	23.25
rs6726582	Inosine to EDTA ratio	GCST90200896	2	136283796	G	C	4926	-0.12	0.03	0.00	0.00	20.94
rs7596030	Inosine to EDTA ratio	GCST90200896	2	205663162	A	C	4926	-0.10	0.02	0.00	0.01	25.34
rs73172901	Inosine to EDTA ratio	GCST90200896	3	166135721	T	C	4926	-0.12	0.03	0.00	0.00	20.60
rs80100103	Inosine to EDTA ratio	GCST90200896	4	13644813	T	C	4926	0.31	0.07	0.00	0.00	21.05
rs114028426	Inosine to EDTA ratio	GCST90200896	4	180679966	A	G	4926	-0.41	0.09	0.00	0.00	20.04
rs62397980	Inosine to EDTA ratio	GCST90200896	6	10539744	C	T	4926	-0.10	0.02	0.00	0.00	22.39
rs72653740	Inosine to EDTA ratio	GCST90200896	6	16282772	G	A	4926	0.17	0.03	0.00	0.01	27.77
rs2517664	Inosine to EDTA ratio	GCST90200896	6	30105482	T	C	4926	0.12	0.03	0.00	0.00	21.06
rs12214786	Inosine to EDTA ratio	GCST90200896	6	49589641	T	C	4926	0.11	0.02	0.00	0.00	22.76
rs79673300	Inosine to EDTA ratio	GCST90200896	7	15189577	G	A	4926	-0.44	0.10	0.00	0.00	19.54
rs17439165	Inosine to EDTA ratio	GCST90200896	7	27396485	G	A	4926	-0.19	0.04	0.00	0.00	23.89
rs79198642	Inosine to EDTA ratio	GCST90200896	7	156577494	C	G	4926	0.39	0.09	0.00	0.00	20.00
rs142835591	Inosine to EDTA ratio	GCST90200896	8	37640264	T	C	4926	-0.32	0.07	0.00	0.00	22.42
rs117963789	Inosine to EDTA ratio	GCST90200896	8	100585312	G	A	4926	0.25	0.06	0.00	0.00	20.12
rs16875079	Inosine to EDTA ratio	GCST90200896	8	106778867	T	G	4926	-0.13	0.03	0.00	0.00	20.43
rs10095211	Inosine to EDTA ratio	GCST90200896	8	121481894	T	C	4926	0.10	0.02	0.00	0.00	22.08
rs77625359	Inosine to EDTA ratio	GCST90200896	11	2595154	C	T	4926	0.23	0.05	0.00	0.00	22.24
rs4763701	Inosine to EDTA ratio	GCST90200896	12	11535063	T	C	4926	0.14	0.03	0.00	0.00	22.31
rs74690685	Inosine to EDTA ratio	GCST90200896	12	25103490	A	C	4926	0.17	0.04	0.00	0.00	23.52
rs117251877	Inosine to EDTA ratio	GCST90200896	14	66094144	A	G	4926	-0.19	0.04	0.00	0.00	20.85
rs117828795	Inosine to EDTA ratio	GCST90200896	15	62036652	C	T	4926	-0.38	0.08	0.00	0.00	21.22
rs17199565	Inosine to EDTA ratio	GCST90200896	16	23262383	G	A	4926	0.15	0.03	0.00	0.00	20.15
rs112275990	Inosine to EDTA ratio	GCST90200896	19	5450314	A	G	4926	0.33	0.06	0.00	0.01	25.92
rs991783	Theophylline to EDTA ratio	GCST90200897	3	60488210	C	T	7867	0.16	0.03	0.00	0.00	20.37

rs75723819	Theophylline to EDTA ratio	GCST90200897	3	120099185	A	C	7867	-0.22	0.05	0.00	0.00	21.59
rs115356927	Theophylline to EDTA ratio	GCST90200897	4	36572660	C	G	7867	-0.32	0.07	0.00	0.00	22.81
rs7724490	Theophylline to EDTA ratio	GCST90200897	5	60186987	C	A	7867	-0.16	0.03	0.00	0.00	20.19
rs118105917	Theophylline to EDTA ratio	GCST90200897	6	159627396	T	C	7867	-0.39	0.09	0.00	0.00	20.28
rs799968	Theophylline to EDTA ratio	GCST90200897	7	80449281	A	T	7867	-0.09	0.02	0.00	0.00	21.93
rs117829526	Theophylline to EDTA ratio	GCST90200897	7	87131806	G	T	7867	-0.29	0.06	0.00	0.00	22.71
rs7823928	Theophylline to EDTA ratio	GCST90200897	8	10039531	C	T	7867	0.08	0.02	0.00	0.00	21.79
rs116935726	Theophylline to EDTA ratio	GCST90200897	8	37171401	A	T	7867	-0.21	0.05	0.00	0.00	21.51
rs72712651	Theophylline to EDTA ratio	GCST90200897	9	26048982	C	T	7867	-0.22	0.05	0.00	0.00	21.76
rs12259905	Theophylline to EDTA ratio	GCST90200897	10	28920494	T	C	7867	0.15	0.03	0.00	0.00	23.73
rs76003278	Theophylline to EDTA ratio	GCST90200897	11	120694584	C	T	7867	0.37	0.08	0.00	0.00	21.06
rs115520044	Theophylline to EDTA ratio	GCST90200897	14	49488289	A	G	7867	0.31	0.06	0.00	0.00	25.16
rs75095637	Theophylline to EDTA ratio	GCST90200897	15	24913444	C	A	7867	0.14	0.03	0.00	0.00	20.61
rs116971383	Theophylline to EDTA ratio	GCST90200897	20	47779118	C	G	7867	0.19	0.04	0.00	0.00	19.64
rs76925306	Citrulline to phosphate	GCST90200898	1	18244228	G	A	8294	-0.16	0.03	0.00	0.00	24.77
rs461020	Citrulline to phosphate	GCST90200898	1	30275972	T	C	8294	-0.10	0.02	0.00	0.00	22.62
rs61787386	Citrulline to phosphate	GCST90200898	1	110398221	T	C	8294	-0.13	0.03	0.00	0.00	19.60
rs10465525	Citrulline to phosphate	GCST90200898	1	225086134	A	T	8294	0.30	0.07	0.00	0.00	19.95
rs115418061	Citrulline to phosphate	GCST90200898	1	245367442	T	C	8294	0.22	0.05	0.00	0.00	22.14
rs114731706	Citrulline to phosphate	GCST90200898	2	19412192	T	G	8294	-0.16	0.03	0.00	0.00	22.52
rs2033821	Citrulline to phosphate	GCST90200898	2	54866520	A	G	8294	0.08	0.02	0.00	0.00	25.22
rs7590684	Citrulline to phosphate	GCST90200898	2	73477752	A	T	8294	0.41	0.09	0.00	0.00	20.55
rs77710513	Citrulline to phosphate	GCST90200898	2	112657650	T	C	8294	-0.19	0.04	0.00	0.00	20.77
rs149442214	Citrulline to phosphate	GCST90200898	2	171869119	G	A	8294	-0.23	0.05	0.00	0.00	21.51
rs7580046	Citrulline to phosphate	GCST90200898	2	210490648	A	G	8294	0.10	0.02	0.00	0.00	41.23
rs3774166	Citrulline to phosphate	GCST90200898	3	10377161	A	C	8294	0.07	0.02	0.00	0.00	20.47
rs9862524	Citrulline to phosphate	GCST90200898	3	83215150	G	A	8294	-0.09	0.02	0.00	0.00	20.86
rs2567340	Citrulline to phosphate	GCST90200898	3	197559840	T	A	8294	0.07	0.02	0.00	0.00	21.63
rs148805603	Citrulline to phosphate	GCST90200898	4	189980384	G	A	8294	-0.35	0.08	0.00	0.00	20.40
rs9332731	Citrulline to phosphate	GCST90200898	6	31926522	T	C	8294	-0.28	0.06	0.00	0.00	22.72
rs9469578	Citrulline to phosphate	GCST90200898	6	33738702	T	C	8294	0.14	0.03	0.00	0.00	21.04
rs75413175	Citrulline to phosphate	GCST90200898	7	12023605	G	A	8294	-0.17	0.04	0.00	0.00	20.95
rs697518	Citrulline to phosphate	GCST90200898	7	16719483	T	C	8294	-0.13	0.03	0.00	0.00	22.01
rs55925913	Citrulline to phosphate	GCST90200898	8	141287805	A	G	8294	-0.08	0.02	0.00	0.00	20.18
rs10977114	Citrulline to phosphate	GCST90200898	9	8450882	G	A	8294	0.07	0.02	0.00	0.00	20.97
rs145260966	Citrulline to phosphate	GCST90200898	9	27352813	A	G	8294	0.30	0.06	0.00	0.00	24.40
rs1932651	Citrulline to phosphate	GCST90200898	9	84161286	C	T	8294	0.10	0.02	0.00	0.00	25.38

rs34369402	Citrulline to phosphate	GCST90200898	9	130426532	A	G	8294	0.08	0.02	0.00	0.00	24.44
rs868339	Citrulline to phosphate	GCST90200898	9	135373031	T	G	8294	0.07	0.02	0.00	0.00	21.98
rs17676071	Citrulline to phosphate	GCST90200898	10	19730963	G	T	8294	0.24	0.05	0.00	0.00	27.70
rs1223581	Citrulline to phosphate	GCST90200898	10	93985836	T	C	8294	-0.07	0.02	0.00	0.00	19.80
rs2722764	Citrulline to phosphate	GCST90200898	11	11324748	T	G	8294	-0.12	0.03	0.00	0.00	20.80
rs72938517	Citrulline to phosphate	GCST90200898	11	66299479	C	G	8294	-0.14	0.03	0.00	0.00	23.74
rs4760552	Citrulline to phosphate	GCST90200898	12	128998144	G	A	8294	-0.09	0.02	0.00	0.00	20.37
rs2654631	Citrulline to phosphate	GCST90200898	15	100487654	G	A	8294	-0.12	0.02	0.00	0.00	22.60
rs34186827	Citrulline to phosphate	GCST90200898	16	8583166	G	C	8294	0.09	0.02	0.00	0.00	21.25
rs4789685	Citrulline to phosphate	GCST90200898	17	82323887	G	A	8294	0.11	0.02	0.00	0.00	22.09
rs16954191	Citrulline to phosphate	GCST90200898	18	8797891	G	A	8294	0.13	0.03	0.00	0.00	22.26
rs76873439	Citrulline to ornithine ratio	GCST90200899	2	6566366	A	G	8225	0.16	0.03	0.00	0.00	19.99
rs4141635	Citrulline to ornithine ratio	GCST90200899	2	178419285	A	G	8225	0.09	0.02	0.00	0.00	20.08
rs6744406	Citrulline to ornithine ratio	GCST90200899	2	237646878	T	A	8225	-0.08	0.02	0.00	0.00	21.36
rs113431933	Citrulline to ornithine ratio	GCST90200899	3	12327093	G	T	8225	-0.45	0.10	0.00	0.00	20.26
rs11919855	Citrulline to ornithine ratio	GCST90200899	3	126399718	G	A	8225	0.14	0.03	0.00	0.00	23.63
rs142792299	Citrulline to ornithine ratio	GCST90200899	3	162202445	C	T	8225	-0.38	0.09	0.00	0.00	19.54
rs150985196	Citrulline to ornithine ratio	GCST90200899	4	140643742	A	G	8225	0.35	0.07	0.00	0.00	24.52
rs13173296	Citrulline to ornithine ratio	GCST90200899	5	57592200	T	C	8225	0.09	0.02	0.00	0.00	26.39
rs140931154	Citrulline to ornithine ratio	GCST90200899	5	141697333	C	T	8225	0.21	0.05	0.00	0.00	20.37
rs17788484	Citrulline to ornithine ratio	GCST90200899	6	131573218	T	C	8225	-0.36	0.06	0.00	0.01	41.68
rs142172167	Citrulline to ornithine ratio	GCST90200899	7	69585145	T	C	8225	-0.34	0.07	0.00	0.00	21.24
rs6465468	Citrulline to ornithine ratio	GCST90200899	7	95540202	T	G	8225	0.08	0.02	0.00	0.00	24.90
rs79240790	Citrulline to ornithine ratio	GCST90200899	8	4312039	C	T	8225	0.15	0.03	0.00	0.00	20.80
rs2244851	Citrulline to ornithine ratio	GCST90200899	8	14745646	T	C	8225	-0.07	0.02	0.00	0.00	21.17
rs35623763	Citrulline to ornithine ratio	GCST90200899	9	14472170	G	A	8225	0.49	0.10	0.00	0.00	23.20
rs72757070	Citrulline to ornithine ratio	GCST90200899	9	110291373	T	A	8225	-0.11	0.03	0.00	0.00	19.54
rs12685110	Citrulline to ornithine ratio	GCST90200899	9	130451348	A	G	8225	0.09	0.02	0.00	0.00	26.00
rs2933243	Citrulline to ornithine ratio	GCST90200899	12	56466793	A	G	8225	-0.09	0.02	0.00	0.00	21.75
rs77036109	Citrulline to ornithine ratio	GCST90200899	13	113401689	G	C	8225	0.15	0.03	0.00	0.00	23.80
rs117100762	Citrulline to ornithine ratio	GCST90200899	14	32279997	C	G	8225	-0.09	0.02	0.00	0.00	22.41
rs1530883	Citrulline to ornithine ratio	GCST90200899	16	8264554	A	G	8225	0.08	0.02	0.00	0.00	21.54
rs4381598	Citrulline to ornithine ratio	GCST90200899	16	68319761	A	G	8225	-0.08	0.02	0.00	0.00	23.53
rs118158533	Citrulline to ornithine ratio	GCST90200899	16	78686494	C	G	8225	-0.32	0.07	0.00	0.00	20.32
rs645159	Citrulline to ornithine ratio	GCST90200899	17	815679	G	A	8225	0.07	0.02	0.00	0.00	19.65
rs9912135	Citrulline to ornithine ratio	GCST90200899	17	1558100	G	A	8225	0.15	0.03	0.00	0.00	23.74
rs3729708	Citrulline to ornithine ratio	GCST90200899	19	55157480	C	G	8225	-0.14	0.03	0.00	0.00	22.40

rs9305454	Citrulline to ornithine ratio	GCST90200899	21	31168732	G	A	8225	-0.12	0.03	0.00	0.00	20.48
rs78541932	Citrulline to ornithine ratio	GCST90200899	22	45600075	G	C	8225	-0.36	0.07	0.00	0.00	23.83
rs7555577	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2]	GCST90200900	1	62568692	C	A	7992	-0.11	0.02	0.00	0.01	46.93
rs4665710	ratio Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2]	GCST90200900	2	20998163	C	A	7992	-0.10	0.02	0.00	0.00	26.62
rs4665972	ratio Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2]	GCST90200900	2	27375230	C	T	7992	0.09	0.02	0.00	0.00	30.87
rs1901263	ratio Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2]	GCST90200900	2	46591447	T	C	7992	0.07	0.02	0.00	0.00	21.30
rs76184175	ratio Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2]	GCST90200900	2	85150901	T	C	7992	0.21	0.04	0.00	0.00	22.15
rs6773745	ratio Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2]	GCST90200900	3	29472715	T	C	7992	0.10	0.02	0.00	0.00	23.58
rs9853714	ratio Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2]	GCST90200900	3	55038664	G	A	7992	-0.10	0.02	0.00	0.00	23.21
rs14311322 7	ratio Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2]	GCST90200900	5	104053824	T	C	7992	0.21	0.05	0.00	0.00	20.91
rs4397267	ratio Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2]	GCST90200900	6	31344793	C	T	7992	-0.09	0.02	0.00	0.00	24.87
rs14183260 2	ratio Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2]	GCST90200900	6	150295749	A	G	7992	-0.32	0.06	0.00	0.00	25.14
rs11749025 3	ratio linoleoyl- glycerol (18:1 to 18:2) [2]	GCST90200900	7	16248763	A	G	7992	-0.37	0.08	0.00	0.00	22.13

rs71541991	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200900	7	50176594	A	G	7992	0.26	0.06	0.00	0.00	20.01
rs62466318	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200900	7	73627755	T	C	7992	0.10	0.02	0.00	0.00	27.81
rs12535013	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200900	7	87917940	C	A	7992	0.25	0.05	0.00	0.00	21.33
rs3208305	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200900	8	19966137	T	A	7992	0.10	0.02	0.00	0.00	34.22
rs4324945	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200900	8	118472630	A	G	7992	0.08	0.02	0.00	0.00	24.27
rs6477397	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200900	9	9494451	T	C	7992	0.08	0.02	0.00	0.00	19.60
rs56261935 3	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200900	9	33807854	T	A	7992	0.41	0.09	0.00	0.00	19.64
rs11139073	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200900	9	81207970	T	A	7992	-0.22	0.05	0.00	0.00	21.69
rs76891180	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200900	10	75011129	G	T	7992	-0.20	0.04	0.00	0.00	21.98
rs76755938	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200900	10	110217983	A	C	7992	-0.15	0.03	0.00	0.00	22.39
rs10501670	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200900	11	88566116	G	A	7992	0.08	0.02	0.00	0.00	20.72
rs964184	Phosphate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200900	11	116778201	C	G	7992	0.25	0.02	0.00	0.01	117.25

rs149543295	Phosphate to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200900	12	72326336	C	G	7992	0.24	0.05	0.00	0.00	19.59
rs7309088	Phosphate to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200900	12	103700355	T	C	7992	0.08	0.02	0.00	0.00	24.62
rs35021804	Phosphate to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200900	12	114577375	T	G	7992	-0.25	0.06	0.00	0.00	20.35
rs17093174	Phosphate to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200900	14	55531629	G	A	7992	0.23	0.05	0.00	0.00	22.17
rs75715461	Phosphate to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200900	15	60308383	C	G	7992	-0.19	0.04	0.00	0.00	19.83
rs72837186	Phosphate to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200900	17	66206675	A	C	7992	-0.11	0.03	0.00	0.00	19.52
rs4890948	Phosphate to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200900	18	77514943	T	C	7992	-0.12	0.03	0.00	0.00	20.06
rs116843064	Phosphate to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200900	19	8364439	A	G	7992	0.35	0.05	0.00	0.01	44.33
rs59007384	Phosphate to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200900	19	44893408	T	G	7992	-0.13	0.02	0.00	0.01	48.15
rs12740648	Ornithine to phosphate	GCST90200901	1	21434287	T	C	8295	-0.12	0.02	0.00	0.00	31.46
rs72611951	Ornithine to phosphate	GCST90200901	2	115012706	C	T	8295	-0.13	0.03	0.00	0.00	19.71
rs6704575	Ornithine to phosphate	GCST90200901	2	218724871	C	T	8295	-0.07	0.02	0.00	0.00	19.65
rs7626752	Ornithine to phosphate	GCST90200901	3	29061127	A	G	8295	-0.07	0.02	0.00	0.00	20.87
rs56297003	Ornithine to phosphate	GCST90200901	4	25792485	C	A	8295	-0.07	0.02	0.00	0.00	21.95
rs1891456	Ornithine to phosphate	GCST90200901	6	110812573	C	T	8295	0.10	0.02	0.00	0.00	20.55
rs17788484	Ornithine to phosphate	GCST90200901	6	131573218	T	C	8295	0.35	0.05	0.00	0.00	40.95
rs79240790	Ornithine to phosphate	GCST90200901	8	4312039	C	T	8295	-0.15	0.03	0.00	0.00	24.46
rs116976262	Ornithine to phosphate	GCST90200901	8	17530115	C	T	8295	0.15	0.03	0.00	0.00	19.88
rs16880329	Ornithine to phosphate	GCST90200901	8	33087986	A	G	8295	0.10	0.02	0.00	0.00	22.51

rs34117361	Ornithine to phosphate	GCST90200901	9	80242136	A	C	8295	-0.29	0.06	0.00	0.00	20.87
rs10992628	Ornithine to phosphate	GCST90200901	9	93091953	T	C	8295	-0.09	0.02	0.00	0.00	23.55
rs72992610	Ornithine to phosphate	GCST90200901	11	75042073	G	A	8295	0.13	0.03	0.00	0.00	19.57
rs2708081	Ornithine to phosphate	GCST90200901	12	121025485	C	T	8295	-0.07	0.02	0.00	0.00	19.73
rs117631149	Ornithine to phosphate	GCST90200901	17	57850855	C	G	8295	0.34	0.07	0.00	0.00	22.04
rs13042122	Ornithine to phosphate	GCST90200901	20	14470243	C	T	8295	0.07	0.02	0.00	0.00	20.25
rs4428007	Phosphate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2]	GCST90200902	2	62496967	C	A	7649	-0.09	0.02	0.00	0.00	21.61
rs13394956	ratio Phosphate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2]	GCST90200902	2	149931220	T	C	7649	-0.30	0.07	0.00	0.00	20.05
rs201949698	ratio Phosphate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2]	GCST90200902	3	21204231	A	G	7649	-0.10	0.02	0.00	0.00	21.08
rs9838178	ratio Phosphate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2]	GCST90200902	3	109480510	A	G	7649	0.08	0.02	0.00	0.00	23.50
rs1597070	ratio Phosphate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2]	GCST90200902	3	126253228	T	C	7649	-0.15	0.03	0.00	0.00	27.99
rs4374638	ratio Phosphate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2]	GCST90200902	4	12425965	C	T	7649	-0.08	0.02	0.00	0.00	21.71
rs139010197	ratio Phosphate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2]	GCST90200902	4	67944628	C	T	7649	-0.23	0.05	0.00	0.00	20.65
rs1651059	ratio Phosphate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2]	GCST90200902	5	31674119	G	A	7649	-0.17	0.03	0.00	0.00	34.47
rs1820058	ratio Phosphate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2]	GCST90200902	5	113511974	T	A	7649	0.30	0.07	0.00	0.00	19.86
rs58844626	ratio Phosphate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2]	GCST90200902	5	123140888	T	A	7649	-0.16	0.04	0.00	0.00	20.46

rs2799359	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	6	46176515	T	G	7649	-0.24	0.05	0.00	0.00	19.61
rs12523836	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	6	107845952	T	C	7649	0.07	0.02	0.00	0.00	19.87
rs6993475	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	8	1233071	T	C	7649	0.23	0.05	0.00	0.00	19.53
rs174564	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	11	61820833	G	A	7649	0.31	0.02	0.00	0.04	346.80
rs61899030	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	11	84662453	G	T	7649	-0.08	0.02	0.00	0.00	19.69
rs2077334	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	11	116635693	A	C	7649	0.12	0.02	0.00	0.00	26.70
rs12271636	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	11	126638825	G	A	7649	0.26	0.06	0.00	0.00	20.98
rs12425298	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	12	25564271	T	C	7649	-0.23	0.05	0.00	0.00	19.82
rs12583306	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	13	92135236	C	A	7649	-0.08	0.02	0.00	0.00	19.79
rs2043082	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	15	58382109	A	G	7649	-0.09	0.02	0.00	0.00	29.68
rs1077835	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	15	58431227	G	A	7649	-0.09	0.02	0.00	0.00	21.88
rs11333971 9	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	16	54979497	C	G	7649	-0.25	0.06	0.00	0.00	19.87

rs7191595	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	16	77508440	C	T	7649	0.09	0.02	0.00	0.00	27.60
rs854785	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	17	18135949	T	A	7649	-0.08	0.02	0.00	0.00	20.12
rs80291295	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	18	69420027	C	T	7649	0.27	0.06	0.00	0.00	20.44
rs17216588	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	19	19553268	T	C	7649	0.18	0.03	0.00	0.00	36.86
rs438811	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200902	19	44913484	T	C	7649	-0.18	0.02	0.00	0.01	88.57
rs61782954	Phosphate to glycerol ratio	GCST90200903	1	46155787	C	T	8179	-0.19	0.04	0.00	0.00	20.26
rs78606233	Phosphate to glycerol ratio	GCST90200903	2	73838471	A	T	8179	0.13	0.03	0.00	0.00	20.93
rs11172402 6	Phosphate to glycerol ratio	GCST90200903	2	217053703	A	G	8179	0.15	0.03	0.00	0.00	22.85
rs712527	Phosphate to glycerol ratio	GCST90200903	3	112761025	G	A	8179	-0.07	0.01	0.00	0.00	20.50
rs61621666	Phosphate to glycerol ratio	GCST90200903	4	38981993	G	A	8179	-0.15	0.03	0.00	0.00	23.31
rs11515479 5	Phosphate to glycerol ratio	GCST90200903	5	14813052	A	G	8179	0.31	0.07	0.00	0.00	21.69
rs6866110	Phosphate to glycerol ratio	GCST90200903	5	149646839	G	A	8179	-0.12	0.03	0.00	0.00	20.29
rs11344921 1	Phosphate to glycerol ratio	GCST90200903	5	155958896	G	A	8179	-0.13	0.03	0.00	0.00	20.22
rs59829244	Phosphate to glycerol ratio	GCST90200903	6	148469185	G	A	8179	0.11	0.02	0.00	0.00	24.72
rs62493774	Phosphate to glycerol ratio	GCST90200903	8	19189104	A	C	8179	-0.10	0.02	0.00	0.00	20.18
rs7899673	Phosphate to glycerol ratio	GCST90200903	10	24520752	A	G	8179	0.11	0.02	0.00	0.00	20.13
rs78045544	Phosphate to glycerol ratio	GCST90200903	11	34211243	A	G	8179	-0.14	0.03	0.00	0.00	20.21
rs14895169 1	Phosphate to glycerol ratio	GCST90200903	12	25390853	C	T	8179	-0.27	0.06	0.00	0.00	20.02
rs14219380 2	Phosphate to glycerol ratio	GCST90200903	12	29671278	T	C	8179	-0.28	0.06	0.00	0.00	20.55
rs11766847 3	Phosphate to glycerol ratio	GCST90200903	13	114038582	A	G	8179	-0.15	0.03	0.00	0.00	20.27
rs75970283	Phosphate to glycerol ratio	GCST90200903	14	37561895	G	C	8179	0.15	0.03	0.00	0.00	19.56
rs8061003	Phosphate to glycerol ratio	GCST90200903	16	26231990	G	A	8179	-0.07	0.01	0.00	0.00	21.49
rs7241147	Phosphate to glycerol ratio	GCST90200903	18	61632432	C	G	8179	0.14	0.03	0.00	0.00	22.33
rs1168041	linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	1	62494579	C	T	7623	-0.08	0.02	0.00	0.00	23.20

rs74775676	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	2	134367966	G	A	7623	-0.10	0.02	0.00	0.00	19.75
rs10164484	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	2	136285296	G	A	7623	-0.08	0.02	0.00	0.00	21.90
rs4675525	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	2	205480027	C	T	7623	-0.08	0.02	0.00	0.00	20.83
rs58212877	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	4	186045928	T	C	7623	-0.12	0.02	0.00	0.00	22.43
rs2122624	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	7	37827450	G	A	7623	-0.07	0.02	0.00	0.00	20.26
rs34121855	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	7	73626484	G	T	7623	0.09	0.02	0.00	0.00	19.53
rs56024619	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	7	155883015	T	A	7623	-0.11	0.02	0.00	0.00	24.60
rs1983529	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	8	1356567	T	C	7623	0.08	0.02	0.00	0.00	19.87
rs61150920	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	9	107040082	C	A	7623	-0.28	0.06	0.00	0.00	19.90
rs78719789	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	9	114472814	T	C	7623	-0.20	0.04	0.00	0.00	22.64
rs41284258	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	10	97065528	A	G	7623	0.26	0.06	0.00	0.00	20.51
rs72848733	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	11	420011	A	G	7623	-0.14	0.03	0.00	0.00	20.27

rs28456	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	11	61822009	G	A	7623	0.30	0.02	0.00	0.04	313.90
rs964184	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	11	116778201	C	G	7623	0.12	0.02	0.00	0.00	23.76
rs7131189	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	11	126623561	A	G	7623	0.26	0.06	0.00	0.00	19.88
rs9519271	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	13	104288418	T	C	7623	-0.08	0.02	0.00	0.00	21.81
rs261290	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	15	58386521	C	T	7623	0.09	0.02	0.00	0.00	26.95
rs7214253	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	17	78283456	A	G	7623	0.09	0.02	0.00	0.00	20.07
rs18431826 8	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	18	7553790	A	G	7623	0.29	0.06	0.00	0.00	22.23
rs17216525	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	19	19551411	T	C	7623	0.20	0.03	0.00	0.01	42.89
rs483082	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	19	44912921	T	G	7623	-0.18	0.02	0.00	0.01	87.23
rs75216879	Phosphate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200904	22	26314661	A	G	7623	-0.41	0.09	0.00	0.00	20.43
rs72720588	Glucose to glycerol ratio	GCST90200905	1	85113057	T	C	8160	0.25	0.06	0.00	0.00	20.29
rs12472539	Glucose to glycerol ratio	GCST90200905	2	75480329	C	T	8160	0.07	0.01	0.00	0.00	20.45
rs7613178	Glucose to glycerol ratio	GCST90200905	3	9315816	G	A	8160	0.21	0.05	0.00	0.00	19.59
rs77092128	Glucose to glycerol ratio	GCST90200905	3	112736910	T	C	8160	-0.16	0.03	0.00	0.00	21.98
rs58781231	Glucose to glycerol ratio	GCST90200905	4	152046270	C	G	8160	-0.09	0.02	0.00	0.00	19.54
rs18944417 0	Glucose to glycerol ratio	GCST90200905	5	27054267	A	G	8160	0.25	0.06	0.00	0.00	20.18
rs34166097	Glucose to glycerol ratio	GCST90200905	5	151567567	A	G	8160	0.14	0.03	0.00	0.00	20.32

rs2396256	Glucose to glycerol ratio	GCST90200905	6	44515204	G	A	8160	0.07	0.01	0.00	0.00	19.83
rs138956078	Glucose to glycerol ratio	GCST90200905	6	74460911	A	C	8160	0.17	0.04	0.00	0.00	21.14
rs2517099	Glucose to glycerol ratio	GCST90200905	8	17461254	T	G	8160	0.11	0.02	0.00	0.00	24.85
rs79507970	Glucose to glycerol ratio	GCST90200905	12	24993537	C	G	8160	-0.23	0.05	0.00	0.00	22.94
rs142193802	Glucose to glycerol ratio	GCST90200905	12	29671278	T	C	8160	-0.28	0.06	0.00	0.00	21.41
rs11107955	Glucose to glycerol ratio	GCST90200905	12	95256176	T	C	8160	0.11	0.02	0.00	0.00	22.93
rs12019484	Glucose to glycerol ratio	GCST90200905	13	101311737	C	T	8160	0.07	0.01	0.00	0.00	20.40
rs1829257	Glucose to glycerol ratio	GCST90200905	15	24186656	A	G	8160	-0.08	0.02	0.00	0.00	20.45
rs291035	Glucose to glycerol ratio	GCST90200905	15	95095723	A	C	8160	-0.09	0.02	0.00	0.00	22.07
rs7241147	Glucose to glycerol ratio	GCST90200905	18	61632432	C	G	8160	0.13	0.03	0.00	0.00	22.18
rs28827208	Glucose to glycerol ratio	GCST90200905	21	24506489	C	T	8160	0.12	0.03	0.00	0.00	20.11
rs883555	deoxyuridine to cvtidine 2'-	GCST90200906	1	115839697	G	A	7410	-0.12	0.03	0.00	0.00	20.89
rs112300176	deoxyuridine to cvtidine 2'-	GCST90200906	1	119549665	A	G	7410	0.15	0.03	0.00	0.00	21.08
rs56159502	deoxyuridine to cvtidine 2'-	GCST90200906	1	161648755	A	G	7410	0.11	0.02	0.00	0.00	21.87
rs141476650	deoxyuridine to cvtidine 2'-	GCST90200906	2	64245084	G	T	7410	-0.32	0.07	0.00	0.00	23.19
rs116556966	deoxyuridine to cvtidine 2'-	GCST90200906	2	76437833	G	T	7410	-0.17	0.04	0.00	0.00	21.42
rs72854220	deoxyuridine to cvtidine 2'-	GCST90200906	2	126097352	C	T	7410	0.10	0.02	0.00	0.00	21.00
rs111782287	deoxyuridine to cvtidine 2'-	GCST90200906	3	37023678	T	A	7410	0.22	0.05	0.00	0.00	20.60
rs138880106	deoxyuridine to cvtidine 2'-	GCST90200906	3	107352442	G	C	7410	-0.29	0.07	0.00	0.00	20.38
rs10008952	deoxyuridine to cvtidine 2'-	GCST90200906	4	113409459	T	G	7410	-0.08	0.02	0.00	0.00	19.88
rs6823417	deoxyuridine to cvtidine 2'-	GCST90200906	4	138664419	T	C	7410	0.09	0.02	0.00	0.00	23.36
rs192597	deoxyuridine to cvtidine 2'-	GCST90200906	5	74076415	T	C	7410	-0.09	0.02	0.00	0.00	21.40
rs28534801	deoxyuridine to cvtidine 2'-	GCST90200906	5	84030509	A	C	7410	0.08	0.02	0.00	0.00	19.93
rs16881066	deoxyuridine to cvtidine 2'-	GCST90200906	6	35804945	G	A	7410	0.16	0.03	0.00	0.00	23.25
rs194883	deoxyuridine to cvtidine 2'-	GCST90200906	6	81705227	A	T	7410	-0.07	0.02	0.00	0.00	19.58
rs3101237	deoxyuridine to cvtidine 2'-	GCST90200906	8	104955161	C	T	7410	-0.33	0.07	0.00	0.00	20.17
rs7387417	deoxyuridine to cvtidine 2'-	GCST90200906	8	141348524	T	C	7410	-0.10	0.02	0.00	0.00	22.32
rs3912457	deoxyuridine to cvtidine	GCST90200906	9	4693707	A	G	7410	0.13	0.03	0.00	0.00	20.89

rs17600621	2'- deoxyuridine to cvtidine	GCST90200906	10	51365421	G	A	7410	-0.27	0.06	0.00	0.00	21.45
rs151297248	2'- deoxyuridine to cvtidine	GCST90200906	10	122747563	T	C	7410	-0.28	0.06	0.00	0.00	19.71
rs117823060	2'- deoxyuridine to cytidine	GCST90200906	11	5004329	A	C	7410	-0.37	0.08	0.00	0.00	23.28
rs116906001	2'- deoxyuridine to cvtidine	GCST90200906	11	121769149	A	G	7410	0.44	0.10	0.00	0.00	20.64
rs61921560	2'- deoxyuridine to cvtidine	GCST90200906	12	65674396	T	A	7410	0.26	0.06	0.00	0.00	20.85
rs11113828	2'- deoxyuridine to cvtidine	GCST90200906	12	108345029	A	C	7410	-0.07	0.02	0.00	0.00	20.17
rs145761741	2'- deoxyuridine to cytidine	GCST90200906	12	123976966	A	G	7410	0.28	0.06	0.00	0.00	22.41
rs2255671	2'- deoxyuridine to cvtidine	GCST90200906	13	100956356	C	G	7410	-0.07	0.02	0.00	0.00	19.91
rs72754978	2'- deoxyuridine to cvtidine	GCST90200906	15	84961789	C	T	7410	0.20	0.03	0.00	0.00	34.82
rs12913954	2'- deoxyuridine to cvtidine	GCST90200906	15	95335001	C	T	7410	-0.33	0.07	0.00	0.00	20.87
rs2654984	2'- deoxyuridine to cytidine	GCST90200906	15	99028325	G	T	7410	0.25	0.05	0.00	0.00	24.36
rs113355690	2'- deoxyuridine to cvtidine	GCST90200906	16	549283	T	C	7410	-0.36	0.08	0.00	0.00	22.06
rs143134280	2'- deoxyuridine to cvtidine	GCST90200906	16	84039141	T	G	7410	0.36	0.08	0.00	0.00	20.26
rs131794	2'- deoxyuridine to cvtidine	GCST90200906	22	50533323	C	A	7410	-0.18	0.02	0.00	0.01	91.00
rs116282697	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200907	2	13920859	G	A	7617	-0.19	0.04	0.00	0.00	19.57
rs2365842	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200907	2	31365422	A	T	7617	0.09	0.02	0.00	0.00	23.69
rs10164484	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200907	2	136285296	G	A	7617	-0.08	0.02	0.00	0.00	20.08
rs13085675	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1]	GCST90200907	3	24525140	T	C	7617	-0.08	0.02	0.00	0.00	24.94

rs71336055	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	3	136301612	T	C	7617	0.11	0.02	0.00	0.00	19.74
rs7685427	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	4	11308317	T	C	7617	-0.08	0.02	0.00	0.00	21.56
rs77851382	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	4	56637166	T	C	7617	0.19	0.04	0.00	0.00	19.67
rs13901019 7	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	4	67944628	C	T	7617	-0.24	0.05	0.00	0.00	22.40
rs951918	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	5	123906442	A	G	7617	0.11	0.02	0.00	0.00	20.50
rs2486410	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	6	149070997	A	G	7617	0.15	0.03	0.00	0.00	21.72
rs80083638	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	7	148908343	C	T	7617	0.21	0.05	0.00	0.00	19.70
rs14794239 9	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	8	8673522	A	G	7617	0.40	0.08	0.00	0.00	23.19
rs2001846	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	8	125466208	C	T	7617	0.08	0.02	0.00	0.00	25.43
rs41284258	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	10	97065528	A	G	7617	0.28	0.06	0.00	0.00	22.97

rs28456	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	11	61822009	G	A	7617	0.28	0.02	0.00	0.03	273.53
rs964184	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	11	116778201	C	G	7617	0.14	0.02	0.00	0.00	34.17
rs14703769 6	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	12	72233750	A	G	7617	0.34	0.08	0.00	0.00	20.38
rs12581831	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	12	91413310	A	T	7617	0.07	0.02	0.00	0.00	20.83
rs14495937 2	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	13	110744956	C	T	7617	0.38	0.08	0.00	0.00	20.19
rs175505	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	14	75062916	T	C	7617	-0.07	0.02	0.00	0.00	20.71
rs12923844	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	16	18925135	A	G	7617	-0.16	0.04	0.00	0.00	19.79
rs11801304 8	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	18	4031763	C	T	7617	0.34	0.07	0.00	0.00	21.93
rs58542926	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	19	19268740	T	C	7617	0.23	0.03	0.00	0.01	53.75
rs483082	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200907	19	44912921	T	G	7617	-0.18	0.02	0.00	0.01	89.43

rs76245239	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	1	72726230	T	C	7668	0.39	0.08	0.00	0.00	22.44
rs13966735 5	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	2	174205313	C	T	7668	-0.31	0.07	0.00	0.00	20.40
rs11439588 1	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	2	184994575	C	T	7668	0.20	0.05	0.00	0.00	20.11
rs4374638	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	4	12425965	C	T	7668	-0.08	0.02	0.00	0.00	19.78
rs13901019 7	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	4	67944628	C	T	7668	-0.24	0.05	0.00	0.00	21.88
rs1651059	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	5	31674119	G	A	7668	-0.15	0.03	0.00	0.00	27.08
rs11263196 2	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	5	77622503	T	C	7668	-0.33	0.07	0.00	0.00	20.29
rs758935	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	7	31899885	C	T	7668	-0.10	0.02	0.00	0.00	20.43
rs6973834	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	7	89483494	G	A	7668	-0.08	0.02	0.00	0.00	19.53
rs14388430 3	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	7	128987669	A	C	7668	-0.33	0.07	0.00	0.00	22.71

rs28601761	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	8	125487789	G	C	7668	0.07	0.02	0.00	0.00	19.63
rs116861171	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	9	19910912	C	A	7668	0.19	0.04	0.00	0.00	22.92
rs117269638	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	9	116962169	C	T	7668	-0.38	0.08	0.00	0.00	21.04
rs102275	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	11	61790331	C	T	7668	0.31	0.02	0.00	0.04	353.86
rs964184	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	11	116778201	C	G	7668	0.12	0.02	0.00	0.00	27.70
rs17761184	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	12	13760402	T	C	7668	0.07	0.02	0.00	0.00	19.99
rs12425298	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	12	25564271	T	C	7668	-0.25	0.05	0.00	0.00	23.02
rs73235331	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	13	76693599	A	T	7668	-0.34	0.08	0.00	0.00	20.19
rs2043082	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	15	58382109	A	G	7668	-0.08	0.02	0.00	0.00	21.76
rs13329556	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	15	85846685	G	A	7668	-0.15	0.03	0.00	0.00	25.58

rs62059189	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	17	7272525	T	C	7668	-0.13	0.03	0.00	0.00	21.66
rs80291295	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	18	69420027	C	T	7668	0.27	0.06	0.00	0.00	20.60
rs58542926	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	19	19268740	T	C	7668	0.21	0.03	0.00	0.01	44.30
rs483082	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	19	44912921	T	G	7668	-0.18	0.02	0.00	0.01	92.63
rs18276459 1	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	19	51181540	C	G	7668	-0.34	0.07	0.00	0.00	21.20
rs11742097 6	Retinol (Vitamin A) to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2]	GCST90200908	21	25389789	A	G	7668	0.31	0.07	0.00	0.00	19.75
rs839859	ratio Uridine to 2'- deoxyuridine	GCST90200909	1	108927563	C	T	7873	-0.09	0.02	0.00	0.00	27.02
rs14953734 7	ratio Uridine to 2'- deoxyuridine	GCST90200909	1	211696392	A	T	7873	0.34	0.07	0.00	0.00	22.00
rs13015234	ratio Uridine to 2'- deoxyuridine	GCST90200909	2	23389651	T	C	7873	0.08	0.02	0.00	0.00	21.53
rs73174314	ratio Uridine to 2'- deoxyuridine	GCST90200909	3	169481316	A	G	7873	0.21	0.05	0.00	0.00	21.41
rs18333390 9	ratio Uridine to 2'- deoxyuridine	GCST90200909	4	160181008	C	A	7873	-0.27	0.06	0.00	0.00	19.69
rs17580372	ratio Uridine to 2'- deoxyuridine	GCST90200909	5	29903693	T	C	7873	0.28	0.06	0.00	0.00	19.62
rs41502044	ratio Uridine to 2'- deoxyuridine	GCST90200909	6	6659105	T	G	7873	-0.08	0.02	0.00	0.00	22.98
rs34873323	ratio Uridine to 2'- deoxyuridine	GCST90200909	6	31209952	T	C	7873	-0.08	0.02	0.00	0.00	20.92
rs6909158	ratio Uridine to 2'- deoxyuridine	GCST90200909	6	149979828	C	T	7873	0.09	0.02	0.00	0.00	20.75
rs13228276	ratio Uridine to 2'- deoxyuridine	GCST90200909	7	48101202	T	G	7873	-0.09	0.02	0.00	0.00	29.47

rs76474224	Uridine to 2'-deoxyuridine ratio	GCST90200909	8	15002662	T	G	7873	0.12	0.03	0.00	0.00	20.03
rs1481022	Uridine to 2'-deoxyuridine ratio	GCST90200909	8	105421326	G	A	7873	-0.18	0.04	0.00	0.00	21.23
rs74697098	Uridine to 2'-deoxyuridine ratio	GCST90200909	8	139419475	C	G	7873	0.14	0.03	0.00	0.00	25.91
rs142576313	Uridine to 2'-deoxyuridine ratio	GCST90200909	9	7900799	A	G	7873	-0.27	0.06	0.00	0.00	19.62
rs72745014	Uridine to 2'-deoxyuridine ratio	GCST90200909	9	83383500	T	C	7873	0.09	0.02	0.00	0.00	20.60
rs139206044	Uridine to 2'-deoxyuridine ratio	GCST90200909	9	128339929	A	G	7873	-0.39	0.08	0.00	0.00	24.22
rs10827956	Uridine to 2'-deoxyuridine ratio	GCST90200909	10	20076433	T	C	7873	-0.11	0.02	0.00	0.00	21.42
rs6584402	Uridine to 2'-deoxyuridine ratio	GCST90200909	10	81903459	A	G	7873	0.08	0.02	0.00	0.00	19.75
rs2284452	Uridine to 2'-deoxyuridine ratio	GCST90200909	11	4134876	A	G	7873	0.07	0.02	0.00	0.00	20.57
rs139074399	Uridine to 2'-deoxyuridine ratio	GCST90200909	11	69422825	G	A	7873	-0.17	0.04	0.00	0.00	20.21
rs35694510	Uridine to 2'-deoxyuridine ratio	GCST90200909	13	46298516	T	G	7873	-0.14	0.03	0.00	0.00	20.93
rs117182843	Uridine to 2'-deoxyuridine ratio	GCST90200909	14	46405650	G	A	7873	-0.14	0.03	0.00	0.00	19.77
rs8054745	Uridine to 2'-deoxyuridine ratio	GCST90200909	16	83906316	G	A	7873	0.35	0.08	0.00	0.00	20.55
rs11647077	Uridine to 2'-deoxyuridine ratio	GCST90200909	16	84454125	C	T	7873	0.33	0.07	0.00	0.00	20.30
rs4792607	Uridine to 2'-deoxyuridine ratio	GCST90200909	17	15422269	G	C	7873	-0.13	0.02	0.00	0.00	27.41
rs117510770	Uridine to 2'-deoxyuridine ratio	GCST90200909	17	28584186	T	C	7873	-0.29	0.06	0.00	0.00	21.34
rs2684829	Uridine to 2'-deoxyuridine ratio	GCST90200909	18	47255056	G	C	7873	-0.13	0.03	0.00	0.00	20.58
rs9798544	Uridine to 2'-deoxyuridine ratio	GCST90200909	20	49341093	C	T	7873	0.09	0.02	0.00	0.00	22.48
rs1966316	Uridine to 2'-deoxyuridine ratio	GCST90200909	22	21012345	G	A	7873	0.09	0.02	0.00	0.00	19.60
rs140522	Uridine to 2'-deoxyuridine ratio	GCST90200909	22	50532837	C	T	7873	0.17	0.02	0.00	0.01	105.14
rs1168041	Retinol (Vitamin A) to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2]	GCST90200910	1	62494579	C	T	7981	-0.10	0.02	0.00	0.00	32.73
rs114923704	Retinol (Vitamin A) to oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2]	GCST90200910	1	107546828	T	C	7981	0.25	0.05	0.00	0.00	22.06

rs673548	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	2	21014672	A	G	7981	0.09	0.02	0.00	0.00	21.74
rs4953387	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	2	46485399	G	A	7981	0.08	0.02	0.00	0.00	22.20
rs12328399	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	2	51732229	C	T	7981	-0.20	0.04	0.00	0.00	21.47
rs11683273	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	2	109060158	T	C	7981	0.08	0.02	0.00	0.00	19.92
rs12473718	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	2	234223859	A	G	7981	0.07	0.02	0.00	0.00	19.98
rs4675855	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	2	240909904	C	T	7981	0.08	0.02	0.00	0.00	23.09
rs14234754 1	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	3	10522906	C	T	7981	-0.31	0.07	0.00	0.00	20.32
rs7680904	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	4	36149557	A	C	7981	-0.18	0.04	0.00	0.00	20.74
rs11143569 4	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	5	58847427	A	G	7981	0.25	0.06	0.00	0.00	19.51
rs2859487	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	5	123912879	T	C	7981	0.11	0.02	0.00	0.00	23.23

rs2523454	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	6	31400088	A	G	7981	0.09	0.02	0.00	0.00	30.71
rs9353802	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	6	91136611	G	A	7981	0.09	0.02	0.00	0.00	28.47
rs72997972	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	6	151548653	A	G	7981	-0.27	0.06	0.00	0.00	19.60
rs17552742	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	7	11375883	G	A	7981	0.32	0.07	0.00	0.00	19.63
rs13247874	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	7	73596112	T	C	7981	0.10	0.02	0.00	0.00	24.79
rs2119690	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	8	20002028	A	G	7981	0.10	0.02	0.00	0.00	37.18
rs76457858	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	9	14149994	C	A	7981	-0.11	0.02	0.00	0.00	19.82
rs79721685	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	9	16651288	T	A	7981	-0.27	0.06	0.00	0.00	22.00
rs11736638 6	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	9	31739999	A	G	7981	-0.19	0.04	0.00	0.00	20.20
rs14133903 7	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	10	28062656	C	T	7981	-0.49	0.11	0.00	0.00	20.21

rs76755938	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	10	110217983	A	C	7981	-0.17	0.03	0.00	0.00	28.13
rs174533	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	11	61781553	A	G	7981	-0.09	0.02	0.00	0.00	32.87
rs1912515	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	11	88554283	T	C	7981	0.08	0.02	0.00	0.00	20.04
rs10894685	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	11	100276461	T	C	7981	-0.08	0.02	0.00	0.00	21.03
rs964184	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	11	116778201	C	G	7981	0.27	0.02	0.00	0.02	136.81
rs14703769 6	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	12	72233750	A	G	7981	0.33	0.07	0.00	0.00	19.94
rs75497300	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	12	121188562	C	G	7981	0.28	0.06	0.00	0.00	20.89
rs16955393	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	17	6042655	A	G	7981	0.09	0.02	0.00	0.00	20.98
rs11684306 4	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	19	8364439	A	G	7981	0.31	0.05	0.00	0.00	32.36
rs58542926	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	19	19268740	T	C	7981	0.15	0.03	0.00	0.00	24.16

rs483082	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	19	44912921	T	G	7981	-0.12	0.02	0.00	0.01	40.33
rs2207132	Retinol (Vitamin A) to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200910	20	40513876	A	G	7981	-0.22	0.04	0.00	0.00	26.53
rs9724646	Tryptophan to pyruvate ratio	GCST90200911	1	241244562	A	T	8224	0.07	0.02	0.00	0.00	20.09
rs11894506	Tryptophan to pyruvate ratio	GCST90200911	2	18007657	A	G	8224	0.10	0.02	0.00	0.00	22.13
rs13403975	Tryptophan to pyruvate ratio	GCST90200911	2	36715676	G	A	8224	-0.13	0.03	0.00	0.00	20.96
rs6742589	Tryptophan to pyruvate ratio	GCST90200911	2	40413021	T	C	8224	-0.09	0.02	0.00	0.00	23.02
rs1598516	Tryptophan to pyruvate ratio	GCST90200911	2	137810476	T	C	8224	0.09	0.02	0.00	0.00	20.19
rs7648958	Tryptophan to pyruvate ratio	GCST90200911	3	15579636	A	G	8224	-0.11	0.02	0.00	0.00	20.91
rs14926031 7	Tryptophan to pyruvate ratio	GCST90200911	5	58462787	C	T	8224	0.38	0.08	0.00	0.00	20.70
rs12518773	Tryptophan to pyruvate ratio	GCST90200911	5	59267481	C	A	8224	0.08	0.02	0.00	0.00	19.87
rs17223255	Tryptophan to pyruvate ratio	GCST90200911	5	142662039	C	A	8224	-0.09	0.02	0.00	0.00	20.23
rs72821888	Tryptophan to pyruvate ratio	GCST90200911	6	11873850	T	C	8224	0.22	0.05	0.00	0.00	21.68
rs62493411	Tryptophan to pyruvate ratio	GCST90200911	7	157302698	G	A	8224	0.08	0.02	0.00	0.00	22.60
rs16928054	Tryptophan to pyruvate ratio	GCST90200911	9	1356019	G	C	8224	0.11	0.02	0.00	0.00	21.87
rs7036384	Tryptophan to pyruvate ratio	GCST90200911	9	18306564	G	T	8224	-0.08	0.02	0.00	0.00	25.17
rs76004074	Tryptophan to pyruvate ratio	GCST90200911	11	7303666	G	A	8224	0.45	0.09	0.00	0.00	23.58
rs10768189	Tryptophan to pyruvate ratio	GCST90200911	11	36132572	A	G	8224	0.07	0.02	0.00	0.00	20.20
rs77170467	Tryptophan to pyruvate ratio	GCST90200911	12	113742585	T	C	8224	0.53	0.11	0.00	0.00	22.55
rs9562615	Tryptophan to pyruvate ratio	GCST90200911	13	45751018	C	G	8224	0.07	0.02	0.00	0.00	20.31
rs67028282	Tryptophan to pyruvate ratio	GCST90200911	13	65715504	A	G	8224	0.08	0.02	0.00	0.00	19.84
rs28506007	Tryptophan to pyruvate ratio	GCST90200911	14	105114670	A	T	8224	0.08	0.02	0.00	0.00	20.56
rs14849684 8	Tryptophan to pyruvate ratio	GCST90200911	15	90177859	G	A	8224	0.35	0.08	0.00	0.00	21.38
rs76873272	Tryptophan to pyruvate ratio	GCST90200911	16	31679763	A	G	8224	0.23	0.05	0.00	0.00	19.94
rs28524560	Tryptophan to pyruvate ratio	GCST90200911	16	79186116	T	C	8224	0.08	0.02	0.00	0.00	23.58
rs2358972	Tryptophan to pyruvate ratio	GCST90200911	17	1487886	G	A	8224	0.08	0.02	0.00	0.00	24.46
rs2453583	Tryptophan to pyruvate ratio	GCST90200911	17	19538723	T	A	8224	0.07	0.02	0.00	0.00	19.88
rs79381373	Tryptophan to pyruvate ratio	GCST90200911	17	65851368	G	A	8224	0.28	0.06	0.00	0.00	24.83
rs17087925	Tryptophan to pyruvate ratio	GCST90200911	18	73595531	T	C	8224	0.07	0.02	0.00	0.00	21.43
rs11120709	tryptophan to tyrosine ratio	GCST90200912	1	216003633	T	C	8226	-0.07	0.02	0.00	0.00	21.60
rs79823475	tryptophan to tyrosine ratio	GCST90200912	2	53393609	C	T	8226	0.24	0.05	0.00	0.00	23.21
rs9834292	tryptophan to tyrosine ratio	GCST90200912	3	21816463	A	T	8226	-0.16	0.03	0.00	0.00	22.45
rs73232771	tryptophan to tyrosine ratio	GCST90200912	3	142886607	T	A	8226	-0.25	0.05	0.00	0.00	24.71

rs17838916	tryptophan to tyrosine ratio	GCST90200912	4	8556126	A	G	8226	0.24	0.05	0.00	0.00	24.33
rs139751958	tryptophan to tyrosine ratio	GCST90200912	4	94869493	A	G	8226	0.48	0.10	0.00	0.00	25.41
rs10009978	tryptophan to tyrosine ratio	GCST90200912	4	136733702	T	C	8226	-0.11	0.03	0.00	0.00	20.08
rs147388342	tryptophan to tyrosine ratio	GCST90200912	4	153447421	G	C	8226	-0.31	0.06	0.00	0.00	26.62
rs113778185	tryptophan to tyrosine ratio	GCST90200912	5	508892	C	T	8226	0.36	0.08	0.00	0.00	19.87
rs116497096	tryptophan to tyrosine ratio	GCST90200912	5	30975592	T	A	8226	0.19	0.04	0.00	0.00	19.93
rs12212085	tryptophan to tyrosine ratio	GCST90200912	6	111094633	C	A	8226	-0.12	0.02	0.00	0.00	32.16
rs72774053	tryptophan to tyrosine ratio	GCST90200912	10	5686985	A	G	8226	-0.34	0.08	0.00	0.00	19.59
rs10900054	tryptophan to tyrosine ratio	GCST90200912	10	44507172	A	C	8226	-0.08	0.02	0.00	0.00	20.84
rs1176456	tryptophan to tyrosine ratio	GCST90200912	10	130692127	C	T	8226	-0.07	0.02	0.00	0.00	21.77
rs61876075	tryptophan to tyrosine ratio	GCST90200912	11	23758605	G	A	8226	0.17	0.04	0.00	0.00	20.22
rs2454663	tryptophan to tyrosine ratio	GCST90200912	11	57590610	C	T	8226	-0.11	0.02	0.00	0.00	33.81
rs66532723	tryptophan to tyrosine ratio	GCST90200912	12	81406206	A	G	8226	-0.25	0.05	0.00	0.00	21.39
rs1134464	tryptophan to tyrosine ratio	GCST90200912	12	120968771	A	C	8226	0.08	0.02	0.00	0.00	21.16
rs77268855	tryptophan to tyrosine ratio	GCST90200912	13	22285126	A	G	8226	-0.15	0.03	0.00	0.00	19.64
rs117958383	tryptophan to tyrosine ratio	GCST90200912	14	75631656	C	T	8226	-0.25	0.05	0.00	0.00	24.38
rs77295416	tryptophan to tyrosine ratio	GCST90200912	16	12268422	G	C	8226	0.21	0.04	0.00	0.00	21.27
rs146254089	tryptophan to tyrosine ratio	GCST90200912	16	69931252	A	G	8226	0.31	0.06	0.00	0.00	24.99
rs150851429	tryptophan to tyrosine ratio	GCST90200912	16	71591928	C	G	8226	-0.38	0.06	0.00	0.00	37.21
rs55775622	tryptophan to tyrosine ratio	GCST90200912	18	35586006	G	T	8226	0.07	0.02	0.00	0.00	19.79
rs77521810	tryptophan to tyrosine ratio	GCST90200912	19	13419491	G	A	8226	-0.12	0.03	0.00	0.00	19.75
rs41523449	tryptophan to tyrosine ratio	GCST90200912	19	35046802	A	G	8226	0.11	0.02	0.00	0.00	22.69
rs2064508	tryptophan to tyrosine ratio	GCST90200912	20	10867433	C	T	8226	0.26	0.06	0.00	0.00	20.23
rs6101562	tryptophan to tyrosine ratio	GCST90200912	20	39468072	G	C	8226	-0.07	0.02	0.00	0.00	20.98
rs195721	Glucose to sucrose ratio	GCST90200913	1	24461489	T	C	7695	0.08	0.02	0.00	0.00	21.31
rs114806857	Glucose to sucrose ratio	GCST90200913	1	64956975	C	T	7695	0.37	0.08	0.00	0.00	23.32
rs72836171	Glucose to sucrose ratio	GCST90200913	2	119036389	C	G	7695	0.22	0.05	0.00	0.00	21.09
rs184879286	Glucose to sucrose ratio	GCST90200913	2	148713519	A	T	7695	-0.22	0.05	0.00	0.00	21.62
rs73088173	Glucose to sucrose ratio	GCST90200913	2	218345162	C	G	7695	-0.14	0.03	0.00	0.00	22.06
rs6737422	Glucose to sucrose ratio	GCST90200913	2	227944103	A	G	7695	-0.08	0.02	0.00	0.00	21.27
rs115141604	Glucose to sucrose ratio	GCST90200913	3	47209901	G	A	7695	0.18	0.04	0.00	0.00	23.11
rs1320071	Glucose to sucrose ratio	GCST90200913	4	7926464	G	A	7695	-0.07	0.02	0.00	0.00	21.10
rs181103119	Glucose to sucrose ratio	GCST90200913	4	52275925	A	G	7695	0.16	0.03	0.00	0.00	20.02
rs182168805	Glucose to sucrose ratio	GCST90200913	4	91403201	C	G	7695	0.41	0.09	0.00	0.00	19.63
rs2453328	Glucose to sucrose ratio	GCST90200913	5	38120326	G	A	7695	-0.16	0.03	0.00	0.00	21.78
rs598064	Glucose to sucrose ratio	GCST90200913	6	96002323	G	A	7695	0.09	0.02	0.00	0.00	20.02
rs3750046	Glucose to sucrose ratio	GCST90200913	7	77330498	G	A	7695	0.08	0.02	0.00	0.00	21.14

rs6963314	Glucose to sucrose ratio	GCST90200913	7	125823663	G	A	7695	-0.11	0.02	0.00	0.00	22.51
rs6478447	Glucose to sucrose ratio	GCST90200913	9	119960562	T	A	7695	-0.07	0.02	0.00	0.00	19.51
rs80028211	Glucose to sucrose ratio	GCST90200913	10	20156372	T	C	7695	-0.19	0.04	0.00	0.00	19.78
rs11101578	Glucose to sucrose ratio	GCST90200913	10	133141050	T	C	7695	-0.11	0.02	0.00	0.00	20.01
rs112553975	Glucose to sucrose ratio	GCST90200913	11	103719733	G	A	7695	-0.18	0.04	0.00	0.00	20.54
rs76418662	Glucose to sucrose ratio	GCST90200913	13	100937467	G	T	7695	-1.07	0.22	0.00	0.00	24.11
rs380471	Glucose to sucrose ratio	GCST90200913	14	36573059	A	G	7695	0.08	0.02	0.00	0.00	20.11
rs113389716	Glucose to sucrose ratio	GCST90200913	19	23277779	T	C	7695	-0.29	0.06	0.00	0.00	20.29
rs188637439	Glucose to sucrose ratio	GCST90200913	20	17637995	A	T	7695	0.27	0.06	0.00	0.00	19.54
rs10483247	Glucose to sucrose ratio	GCST90200913	22	49533884	T	C	7695	-0.51	0.10	0.00	0.00	27.60
rs17546126	Tyrosine to pyruvate ratio	GCST90200914	1	219625159	G	A	8220	0.21	0.05	0.00	0.00	20.82
rs2459150	Tyrosine to pyruvate ratio	GCST90200914	1	234869544	G	A	8220	-0.09	0.02	0.00	0.00	20.15
rs1260326	Tyrosine to pyruvate ratio	GCST90200914	2	27508073	C	T	8220	0.09	0.02	0.00	0.00	29.98
rs4670600	Tyrosine to pyruvate ratio	GCST90200914	2	36752369	G	A	8220	0.11	0.02	0.00	0.00	21.69
rs72954931	Tyrosine to pyruvate ratio	GCST90200914	2	221363745	T	G	8220	0.12	0.03	0.00	0.00	20.45
rs17044761	Tyrosine to pyruvate ratio	GCST90200914	3	75392	G	C	8220	-0.08	0.02	0.00	0.00	20.81
rs12633341	Tyrosine to pyruvate ratio	GCST90200914	3	13494559	T	C	8220	0.17	0.04	0.00	0.00	20.15
rs78222532	Tyrosine to pyruvate ratio	GCST90200914	3	29911442	A	G	8220	-0.23	0.05	0.00	0.00	19.87
rs59581928	Tyrosine to pyruvate ratio	GCST90200914	3	186632506	T	C	8220	0.08	0.02	0.00	0.00	20.56
rs13101575	Tyrosine to pyruvate ratio	GCST90200914	4	122696406	G	A	8220	0.08	0.02	0.00	0.00	20.20
rs11732838	Tyrosine to pyruvate ratio	GCST90200914	4	177826991	T	C	8220	-0.11	0.02	0.00	0.00	21.01
rs463332	Tyrosine to pyruvate ratio	GCST90200914	5	103535229	A	C	8220	-0.08	0.02	0.00	0.00	20.63
rs369361	Tyrosine to pyruvate ratio	GCST90200914	6	111218558	G	A	8220	-0.10	0.02	0.00	0.00	38.58
rs74460063	Tyrosine to pyruvate ratio	GCST90200914	7	149409337	T	C	8220	-0.58	0.13	0.00	0.00	21.16
rs16890980	Tyrosine to pyruvate ratio	GCST90200914	8	41989023	G	A	8220	0.14	0.03	0.00	0.00	20.68
rs3924761	Tyrosine to pyruvate ratio	GCST90200914	9	18331118	C	G	8220	-0.07	0.02	0.00	0.00	21.27
rs4977256	Tyrosine to pyruvate ratio	GCST90200914	9	20464020	G	A	8220	-0.08	0.02	0.00	0.00	22.85
rs74116316	Tyrosine to pyruvate ratio	GCST90200914	10	5803098	G	A	8220	0.08	0.02	0.00	0.00	19.91
rs11010624	Tyrosine to pyruvate ratio	GCST90200914	10	36339153	G	A	8220	-0.25	0.05	0.00	0.00	20.97
rs11199191	Tyrosine to pyruvate ratio	GCST90200914	10	120159510	C	A	8220	-0.24	0.05	0.00	0.00	21.23
rs77508856	Tyrosine to pyruvate ratio	GCST90200914	14	59170103	C	A	8220	-0.19	0.04	0.00	0.00	20.23
rs150851429	Tyrosine to pyruvate ratio	GCST90200914	16	71591928	C	G	8220	0.38	0.06	0.00	0.00	35.97
rs79888339	Tyrosine to pyruvate ratio	GCST90200914	17	35349522	T	C	8220	0.31	0.07	0.00	0.00	22.67
rs8120450	Tyrosine to pyruvate ratio	GCST90200914	20	58378781	C	A	8220	-0.11	0.02	0.00	0.00	20.03
rs190698958	Glucose to fructose ratio	GCST90200915	1	13577107	A	G	8214	-0.43	0.10	0.00	0.00	19.92
rs150071634	Glucose to fructose ratio	GCST90200915	1	235424954	G	T	8214	0.32	0.07	0.00	0.00	23.44
rs10165166	Glucose to fructose ratio	GCST90200915	2	69949411	T	C	8214	0.14	0.03	0.00	0.00	25.94

rs13405066	Glucose to fructose ratio	GCST90200915	2	147611235	T	C	8214	0.08	0.02	0.00	0.00	21.54
rs60262967	Glucose to fructose ratio	GCST90200915	2	237882913	C	T	8214	0.08	0.02	0.00	0.00	21.85
rs56180505	Glucose to fructose ratio	GCST90200915	6	37745880	A	G	8214	-0.09	0.02	0.00	0.00	19.55
rs9385926	Glucose to fructose ratio	GCST90200915	6	140953846	T	C	8214	0.07	0.02	0.00	0.00	20.94
rs77046718	Glucose to fructose ratio	GCST90200915	6	158872861	A	G	8214	0.27	0.06	0.00	0.00	21.76
rs2735975	Glucose to fructose ratio	GCST90200915	8	126441367	G	T	8214	0.18	0.04	0.00	0.00	20.08
rs1793210	Glucose to fructose ratio	GCST90200915	11	85346787	G	A	8214	0.13	0.03	0.00	0.00	20.67
rs9941121	Glucose to fructose ratio	GCST90200915	16	87524168	A	T	8214	-0.11	0.02	0.00	0.00	19.85
rs7208546	Glucose to fructose ratio	GCST90200915	17	34641390	A	G	8214	-0.09	0.02	0.00	0.00	20.45
rs12974297	Glucose to fructose ratio	GCST90200915	19	7828045	C	T	8214	-0.08	0.02	0.00	0.00	21.53
rs77501708	Glucose to fructose ratio	GCST90200915	20	22589599	G	A	8214	-0.23	0.05	0.00	0.00	19.91
rs62142450	Fructose to sucrose ratio	GCST90200916	2	35129649	T	C	7719	0.08	0.02	0.00	0.00	22.18
rs11897064	Fructose to sucrose ratio	GCST90200916	2	43681550	C	T	7719	0.07	0.02	0.00	0.00	19.78
rs13021032	Fructose to sucrose ratio	GCST90200916	2	218338516	C	T	7719	-0.09	0.02	0.00	0.00	19.53
rs145315010	Fructose to sucrose ratio	GCST90200916	3	34924666	T	G	7719	0.27	0.06	0.00	0.00	22.15
rs62268006	Fructose to sucrose ratio	GCST90200916	3	140327947	G	A	7719	0.15	0.03	0.00	0.00	20.86
rs73795762	Fructose to sucrose ratio	GCST90200916	4	6152383	G	A	7719	0.23	0.05	0.00	0.00	20.03
rs17083333	Fructose to sucrose ratio	GCST90200916	4	53705899	T	G	7719	0.08	0.02	0.00	0.00	23.57
rs6534650	Fructose to sucrose ratio	GCST90200916	4	79920263	C	T	7719	0.07	0.02	0.00	0.00	21.08
rs1519227	Fructose to sucrose ratio	GCST90200916	4	124050576	G	A	7719	-0.08	0.02	0.00	0.00	20.41
rs145207838	Fructose to sucrose ratio	GCST90200916	4	126149884	T	C	7719	0.14	0.03	0.00	0.00	20.57
rs76531408	Fructose to sucrose ratio	GCST90200916	4	162262821	G	A	7719	0.36	0.08	0.00	0.00	21.92
rs78262847	Fructose to sucrose ratio	GCST90200916	8	133872435	T	A	7719	0.16	0.03	0.00	0.00	23.04
rs117714976	Fructose to sucrose ratio	GCST90200916	8	143537129	C	T	7719	-0.27	0.06	0.00	0.00	19.79
rs2147070	Fructose to sucrose ratio	GCST90200916	9	9790306	G	C	7719	-0.12	0.03	0.00	0.00	20.59
rs10759321	Fructose to sucrose ratio	GCST90200916	9	108848492	G	T	7719	0.09	0.02	0.00	0.00	19.57
rs61871554	Fructose to sucrose ratio	GCST90200916	10	120332540	G	A	7719	0.19	0.04	0.00	0.00	21.70
rs61918360	Fructose to sucrose ratio	GCST90200916	11	102129894	T	C	7719	-0.07	0.02	0.00	0.00	19.78
rs1564374	Fructose to sucrose ratio	GCST90200916	12	57616380	G	A	7719	0.09	0.02	0.00	0.00	30.59
rs11619258	Fructose to sucrose ratio	GCST90200916	13	75986121	C	T	7719	-0.07	0.02	0.00	0.00	19.61
rs186559149	Fructose to sucrose ratio	GCST90200916	15	69781304	A	G	7719	0.29	0.07	0.00	0.00	19.94
rs72755425	Fructose to sucrose ratio	GCST90200916	15	70514772	T	C	7719	-0.22	0.05	0.00	0.00	20.60
rs17742148	Fructose to sucrose ratio	GCST90200916	16	80435756	G	A	7719	-0.15	0.03	0.00	0.00	24.89
rs2974272	Fructose to sucrose ratio	GCST90200916	18	37506122	C	T	7719	0.16	0.04	0.00	0.00	20.30
rs6110293	Fructose to sucrose ratio	GCST90200916	20	14443935	C	G	7719	0.09	0.02	0.00	0.00	28.48
rs1635062	Fructose to sucrose ratio	GCST90200916	21	14003928	G	T	7719	0.08	0.02	0.00	0.00	19.67

rs71656866	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	1	75928834	A	G	8133	0.11	0.03	0.00	0.00	19.54
rs563588	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	1	93061781	A	G	8133	-0.07	0.02	0.00	0.00	19.67
rs13388164	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	2	77018182	T	C	8133	-0.41	0.09	0.00	0.00	20.44
rs744927	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	2	119490335	G	A	8133	0.09	0.02	0.00	0.00	20.61
rs200986045	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	3	36373844	A	C	8133	-0.58	0.13	0.00	0.00	19.51
rs17385872	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	4	10176544	A	C	8133	0.08	0.02	0.00	0.00	22.11
rs113466620	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	4	16871434	A	G	8133	0.22	0.05	0.00	0.00	19.95
rs10014755	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	4	88302352	G	A	8133	-0.12	0.02	0.00	0.01	60.56
rs62395160	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	5	179471681	G	C	8133	0.14	0.03	0.00	0.00	22.08
rs1895645	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	6	5389650	T	C	8133	-0.07	0.02	0.00	0.00	19.84
rs117578810	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	7	8692011	A	G	8133	-0.27	0.06	0.00	0.00	19.98
rs142941968	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	7	138433910	A	G	8133	0.27	0.06	0.00	0.00	20.28
rs1638751	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	7	157770557	G	A	8133	0.13	0.03	0.00	0.00	20.06
rs75716985	Alpha- ketobutyrate to 3-methyl-2- oxobutyrate ratio	GCST90200917	8	122551934	A	C	8133	0.24	0.05	0.00	0.00	20.38

rs4736695	Alpha-ketobutyrate to 3-methyl-2-oxobutyrate ratio	GCST90200917	8	133544509	G	A	8133	-0.09	0.02	0.00	0.00	26.71
rs11142690	Alpha-ketobutyrate to 3-methyl-2-oxobutyrate ratio	GCST90200917	9	71099743	G	A	8133	0.21	0.05	0.00	0.00	20.03
rs59974919	Alpha-ketobutyrate to 3-methyl-2-oxobutyrate ratio	GCST90200917	10	80809233	G	A	8133	0.20	0.04	0.00	0.00	26.09
rs1811676	Alpha-ketobutyrate to 3-methyl-2-oxobutyrate ratio	GCST90200917	10	108163382	G	A	8133	-0.10	0.02	0.00	0.00	19.72
rs77137219	Alpha-ketobutyrate to 3-methyl-2-oxobutyrate ratio	GCST90200917	11	4756861	C	G	8133	0.40	0.09	0.00	0.00	21.08
rs11605120	Alpha-ketobutyrate to 3-methyl-2-oxobutyrate ratio	GCST90200917	11	44069019	G	A	8133	-0.10	0.02	0.00	0.00	19.66
rs148703016	Alpha-ketobutyrate to 3-methyl-2-oxobutyrate ratio	GCST90200917	11	126339078	C	G	8133	-0.23	0.05	0.00	0.00	20.91
rs117170005	Alpha-ketobutyrate to 3-methyl-2-oxobutyrate ratio	GCST90200917	15	33547623	G	A	8133	0.37	0.08	0.00	0.00	22.24
rs8054514	Alpha-ketobutyrate to 3-methyl-2-oxobutyrate ratio	GCST90200917	16	543277	G	T	8133	-0.10	0.02	0.00	0.00	20.87
rs118135994	Alpha-ketobutyrate to 3-methyl-2-oxobutyrate ratio	GCST90200917	18	79948761	T	A	8133	-0.20	0.04	0.00	0.00	19.96
rs115053472	(d18:1 to 16:0) N-palmitoyl-sphingosine to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	1	30088154	A	G	8155	-0.38	0.07	0.00	0.00	26.33
rs6673706	(d18:1 to 16:0) N-palmitoyl-sphingosine to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	1	44497393	C	T	8155	-0.15	0.03	0.00	0.00	20.97
rs77953932	(d18:1 to 16:0) N-palmitoyl-sphingosine to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	1	117481395	A	G	8155	0.24	0.06	0.00	0.00	19.52

rs67639666	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	1	188687391	T	C	8155	0.22	0.05	0.00	0.00	21.38
rs72769473	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	1	244903261	C	G	8155	0.13	0.03	0.00	0.00	20.41
rs58441356	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	4	46836354	A	T	8155	-0.36	0.08	0.00	0.00	20.75
rs112297723	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	5	170696152	T	C	8155	0.33	0.07	0.00	0.00	19.53
rs222325	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	7	10197647	T	C	8155	0.07	0.02	0.00	0.00	22.28
rs3898821	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	7	154017986	A	G	8155	-0.19	0.04	0.00	0.00	25.08
rs13248085	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	8	34224137	G	T	8155	0.12	0.03	0.00	0.00	19.98
rs13253183	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	8	61739380	A	G	8155	-0.21	0.04	0.00	0.00	23.22
rs1370746	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	8	64350532	C	T	8155	0.08	0.02	0.00	0.00	22.92
rs7969196	N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	12	120939853	T	G	8155	-0.08	0.02	0.00	0.00	29.05

rs17101394	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	14	63765668	A	G	8155	0.19	0.02	0.00	0.01	85.11
rs1948788	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	15	37839160	A	G	8155	0.08	0.02	0.00	0.00	20.20
rs118013756	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	18	45553451	C	A	8155	-0.20	0.05	0.00	0.00	19.74
rs9964511	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	18	70229905	C	T	8155	0.14	0.03	0.00	0.00	20.10
rs1065853	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	19	44909976	T	G	8155	-0.18	0.03	0.00	0.01	41.01
rs6081692	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	20	19638872	C	T	8155	-0.08	0.02	0.00	0.00	23.78
rs55845370	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	20	34845826	G	A	8155	-0.08	0.02	0.00	0.00	26.71
rs9615402	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200918	22	46682831	T	C	8155	-0.09	0.02	0.00	0.00	27.25
rs924849	Caffeine to theophylline ratio	GCST90200919	1	57311266	T	C	7756	-0.23	0.04	0.00	0.00	27.22
rs72753409	Caffeine to theophylline ratio	GCST90200919	1	204975977	A	G	7756	-0.21	0.05	0.00	0.00	19.76
rs7587266	Caffeine to theophylline ratio	GCST90200919	2	11717187	G	A	7756	-0.09	0.02	0.00	0.00	20.44
rs2890665	Caffeine to theophylline ratio	GCST90200919	2	142511656	T	A	7756	-0.10	0.02	0.00	0.00	19.61
rs10168692	Caffeine to theophylline ratio	GCST90200919	2	152514677	G	C	7756	0.08	0.02	0.00	0.00	21.90
rs17450665	Caffeine to theophylline ratio	GCST90200919	2	204718889	A	G	7756	0.44	0.10	0.00	0.00	20.24

rs115563076	Caffeine to theophylline ratio	GCST90200919	4	153293863	T	C	7756	-0.33	0.07	0.00	0.00	20.44
rs2042449	Caffeine to theophylline ratio	GCST90200919	5	1416531	A	G	7756	-0.09	0.02	0.00	0.00	20.35
rs114987985	Caffeine to theophylline ratio	GCST90200919	5	40907034	C	T	7756	-0.21	0.05	0.00	0.00	20.02
rs62354498	Caffeine to theophylline ratio	GCST90200919	5	68997120	C	T	7756	0.16	0.04	0.00	0.00	19.55
rs113402031	Caffeine to theophylline ratio	GCST90200919	5	150342933	T	C	7756	-0.15	0.03	0.00	0.00	24.40
rs11970340	Caffeine to theophylline ratio	GCST90200919	6	63345318	A	G	7756	-0.19	0.04	0.00	0.00	24.25
rs143665472	Caffeine to theophylline ratio	GCST90200919	6	86006872	G	A	7756	0.11	0.03	0.00	0.00	19.58
rs2760226	Caffeine to theophylline ratio	GCST90200919	6	117934922	A	G	7756	-0.07	0.02	0.00	0.00	19.77
rs145924060	Caffeine to theophylline ratio	GCST90200919	6	139504440	G	T	7756	-0.22	0.05	0.00	0.00	22.26
rs10232703	Caffeine to theophylline ratio	GCST90200919	7	4296845	A	G	7756	0.10	0.02	0.00	0.00	21.15
rs117325880	Caffeine to theophylline ratio	GCST90200919	8	31188777	A	C	7756	0.17	0.03	0.00	0.00	25.80
rs117392095	Caffeine to theophylline ratio	GCST90200919	8	63285400	T	C	7756	-0.33	0.07	0.00	0.00	24.17
rs141663192	Caffeine to theophylline ratio	GCST90200919	8	105580586	A	G	7756	-0.33	0.07	0.00	0.00	20.50
rs113496861	Caffeine to theophylline ratio	GCST90200919	9	100603193	G	A	7756	0.41	0.09	0.00	0.00	20.70
rs566916669	Caffeine to theophylline ratio	GCST90200919	9	131591604	T	C	7756	-0.30	0.07	0.00	0.00	19.75
rs11012548	Caffeine to theophylline ratio	GCST90200919	10	21157104	T	G	7756	-0.11	0.02	0.00	0.00	20.52
rs34601	Caffeine to theophylline ratio	GCST90200919	12	96162041	A	G	7756	0.08	0.02	0.00	0.00	19.55
rs7154824	Caffeine to theophylline ratio	GCST90200919	14	62685670	A	G	7756	-0.18	0.04	0.00	0.00	22.78
rs117044200	Caffeine to theophylline ratio	GCST90200919	14	69225614	A	T	7756	0.26	0.06	0.00	0.00	20.35
rs2467341	Caffeine to theophylline ratio	GCST90200919	15	36469805	C	T	7756	0.29	0.06	0.00	0.00	20.64
rs74611383	Caffeine to theophylline ratio	GCST90200919	16	65130494	T	C	7756	0.19	0.04	0.00	0.00	20.05
rs977143	Caffeine to theophylline ratio	GCST90200919	18	40448201	A	G	7756	-0.08	0.02	0.00	0.00	26.53
rs1260326	Mannose to glycerol ratio	GCST90200920	2	27508073	C	T	8168	0.16	0.01	0.00	0.02	136.23
rs56899732	Mannose to glycerol ratio	GCST90200920	2	138336669	T	C	8168	-0.13	0.03	0.00	0.00	19.85
rs6719381	Mannose to glycerol ratio	GCST90200920	2	152932234	C	T	8168	-0.08	0.02	0.00	0.00	22.95
rs147892962	Mannose to glycerol ratio	GCST90200920	3	3281687	G	T	8168	-0.23	0.05	0.00	0.00	22.76

rs79544365	Mannose to glycerol ratio	GCST90200920	3	9194491	C	T	8168	0.18	0.04	0.00	0.00	20.32
rs361170	Mannose to glycerol ratio	GCST90200920	4	151864466	T	C	8168	0.07	0.01	0.00	0.00	22.95
rs28542382	Mannose to glycerol ratio	GCST90200920	4	188040343	A	T	8168	0.13	0.03	0.00	0.00	20.37
rs10474906	Mannose to glycerol ratio	GCST90200920	5	1115283	T	C	8168	0.08	0.02	0.00	0.00	23.29
rs18930594 5	Mannose to glycerol ratio	GCST90200920	7	6988630	A	G	8168	0.56	0.12	0.00	0.00	22.33
rs62493774	Mannose to glycerol ratio	GCST90200920	8	19189104	A	C	8168	-0.09	0.02	0.00	0.00	20.21
rs10812038	Mannose to glycerol ratio	GCST90200920	9	2432800	A	G	8168	0.08	0.02	0.00	0.00	22.23
rs474137	Mannose to glycerol ratio	GCST90200920	11	96312834	C	T	8168	0.07	0.01	0.00	0.00	20.01
rs79507970	Mannose to glycerol ratio	GCST90200920	12	24993537	C	G	8168	-0.23	0.05	0.00	0.00	23.36
rs14219380 2	Mannose to glycerol ratio	GCST90200920	12	29671278	T	C	8168	-0.31	0.06	0.00	0.00	28.39
rs11385658 5	Mannose to glycerol ratio	GCST90200920	13	35353615	A	G	8168	0.33	0.07	0.00	0.00	19.89
rs11755876 2	Mannose to glycerol ratio	GCST90200920	13	48971430	G	A	8168	0.22	0.05	0.00	0.00	21.88
rs1829257	Mannose to glycerol ratio	GCST90200920	15	24186656	A	G	8168	-0.08	0.02	0.00	0.00	20.39
rs11867870	Mannose to glycerol ratio	GCST90200920	17	65378537	A	G	8168	0.10	0.02	0.00	0.00	22.48
rs14094319 1	Mannose to glycerol ratio	GCST90200920	17	69219924	C	T	8168	-0.32	0.07	0.00	0.00	19.87
rs7241147	Mannose to glycerol ratio	GCST90200920	18	61632432	C	G	8168	0.15	0.03	0.00	0.00	28.78
rs12610482	Mannose to glycerol ratio	GCST90200920	19	38234776	C	T	8168	-0.09	0.02	0.00	0.00	22.66
rs6123872	Mannose to glycerol ratio	GCST90200920	20	59267419	G	A	8168	0.08	0.02	0.00	0.00	22.80
rs11346189 7	Mannose to mannitol to sorbitol ratio	GCST90200921	1	38461511	A	T	8208	-0.26	0.06	0.00	0.00	20.21
rs1926230	Mannose to mannitol to sorbitol ratio	GCST90200921	1	198634049	A	G	8208	-0.09	0.02	0.00	0.00	27.31
rs780094	Mannose to mannitol to sorbitol ratio	GCST90200921	2	27518370	C	T	8208	0.09	0.02	0.00	0.00	34.60
rs10070717	Mannose to mannitol to sorbitol ratio	GCST90200921	5	9834108	A	G	8208	-0.13	0.03	0.00	0.00	24.67
rs2963859	Mannose to mannitol to sorbitol ratio	GCST90200921	5	175579005	G	A	8208	0.09	0.02	0.00	0.00	20.37
rs18434721 7	Mannose to mannitol to sorbitol ratio	GCST90200921	6	37770449	G	A	8208	0.29	0.06	0.00	0.00	20.45
rs78134040	Mannose to mannitol to sorbitol ratio	GCST90200921	7	12538912	T	A	8208	0.19	0.04	0.00	0.00	20.00
rs18379493 8	Mannose to mannitol to sorbitol ratio	GCST90200921	8	100220549	A	G	8208	0.18	0.04	0.00	0.00	21.88
rs11784833	Mannose to mannitol to sorbitol ratio	GCST90200921	8	143989244	C	T	8208	-0.07	0.02	0.00	0.00	20.20
rs11729978 4	Mannose to mannitol to sorbitol ratio	GCST90200921	11	99695607	A	G	8208	0.24	0.05	0.00	0.00	19.63
rs10772031	Mannose to mannitol to sorbitol ratio	GCST90200921	12	33103859	G	A	8208	0.14	0.03	0.00	0.00	20.20
rs14718369 0	Mannose to mannitol to sorbitol ratio	GCST90200921	12	64914043	T	C	8208	-0.36	0.08	0.00	0.00	20.85

rs2007264	Mannose to mannitol to sorbitol ratio	GCST90200921	13	28096524	T	C	8208	0.09	0.02	0.00	0.00	19.89
rs79104320	Mannose to mannitol to sorbitol ratio	GCST90200921	13	42877186	T	C	8208	0.11	0.02	0.00	0.00	21.54
rs2265152	Mannose to mannitol to sorbitol ratio	GCST90200921	13	113504585	T	C	8208	-0.08	0.02	0.00	0.00	20.80
rs3209531	Mannose to mannitol to sorbitol ratio	GCST90200921	14	20286553	A	G	8208	-0.11	0.02	0.00	0.00	20.86
rs7186512	Mannose to mannitol to sorbitol ratio	GCST90200921	16	50386912	C	A	8208	0.10	0.02	0.00	0.00	19.97
rs11792651 1	Mannose to mannitol to sorbitol ratio	GCST90200921	16	61708280	T	C	8208	0.18	0.04	0.00	0.00	24.57
rs4620955	Mannose to mannitol to sorbitol ratio	GCST90200921	16	90028089	T	C	8208	-0.12	0.03	0.00	0.00	19.93
rs67860080	Mannose to mannitol to sorbitol ratio	GCST90200921	18	5265849	A	G	8208	0.09	0.02	0.00	0.00	20.21
rs80183220	Mannose to mannitol to sorbitol ratio	GCST90200921	19	53549330	T	C	8208	-0.21	0.05	0.00	0.00	20.39
rs2723073	Alpha-ketobutyrate to pyruvate	GCST90200922	2	65039318	C	T	8129	0.10	0.02	0.00	0.00	22.56
rs10175956	Alpha-ketobutyrate to pyruvate	GCST90200922	2	229699615	T	C	8129	0.08	0.02	0.00	0.00	20.52
rs73095477	Alpha-ketobutyrate to pyruvate	GCST90200922	3	68205146	C	T	8129	-0.16	0.03	0.00	0.00	22.26
rs2643184	Alpha-ketobutyrate to pyruvate	GCST90200922	3	164686504	G	A	8129	-0.07	0.02	0.00	0.00	19.94
rs11458687 1	Alpha-ketobutyrate to pyruvate	GCST90200922	5	146390477	C	G	8129	-0.26	0.06	0.00	0.00	19.78
rs1761945	Alpha-ketobutyrate to pyruvate	GCST90200922	6	147436618	C	A	8129	0.17	0.04	0.00	0.00	19.94
rs917938	Alpha-ketobutyrate to pyruvate	GCST90200922	7	7756539	G	C	8129	0.13	0.03	0.00	0.00	22.54
rs11295781 1	Alpha-ketobutyrate to pyruvate	GCST90200922	7	145011415	T	C	8129	0.12	0.03	0.00	0.00	20.91
rs60592272	Alpha-ketobutyrate to pyruvate	GCST90200922	7	157343000	G	T	8129	-0.16	0.04	0.00	0.00	20.76
rs7464795	Alpha-ketobutyrate to pyruvate	GCST90200922	8	2626385	C	A	8129	-0.09	0.02	0.00	0.00	22.75
rs1715284	Alpha-ketobutyrate to pyruvate	GCST90200922	11	20665751	T	G	8129	0.09	0.02	0.00	0.00	20.44
rs2074039	Alpha-ketobutyrate to pyruvate	GCST90200922	11	44071330	T	C	8129	-0.10	0.02	0.00	0.00	20.03
rs61962718	Alpha-ketobutyrate to pyruvate	GCST90200922	13	78606312	C	G	8129	-0.19	0.04	0.00	0.00	19.67
rs322544	Alpha-ketobutyrate to pyruvate	GCST90200922	18	51616298	G	A	8129	0.07	0.02	0.00	0.00	19.93
rs78422675	Alpha-ketobutyrate to pyruvate	GCST90200922	18	72567505	T	C	8129	0.51	0.11	0.00	0.00	19.73

rs33999061	Alpha-ketobutyrate to pyruvate	GCST90200922	20	20140848	C	T	8129	-0.09	0.02	0.00	0.00	22.33
rs9980156	Alpha-ketobutyrate to pyruvate	GCST90200922	21	30212761	C	G	8129	-0.20	0.04	0.00	0.00	22.01
rs10913276	Glycerol to sorbitol ratio	GCST90200923	1	176915130	C	T	8153	0.14	0.03	0.00	0.00	21.93
rs1052240	Glycerol to sorbitol ratio	GCST90200923	1	198665685	A	C	8153	-0.07	0.02	0.00	0.00	21.35
rs2581076	Glycerol to sorbitol ratio	GCST90200923	2	11946572	G	A	8153	0.10	0.02	0.00	0.00	20.91
rs13029087	Glycerol to sorbitol ratio	GCST90200923	2	65770906	T	C	8153	0.13	0.03	0.00	0.00	21.11
rs73952154	Glycerol to sorbitol ratio	GCST90200923	2	123551835	G	A	8153	0.12	0.03	0.00	0.00	23.29
rs115323029	Glycerol to mannitol to sorbitol ratio	GCST90200923	3	107701544	A	G	8153	0.27	0.06	0.00	0.00	21.32
rs9314051	Glycerol to mannitol to sorbitol ratio	GCST90200923	5	165050300	A	C	8153	0.08	0.02	0.00	0.00	21.59
rs2963859	Glycerol to mannitol to sorbitol ratio	GCST90200923	5	175579005	G	A	8153	0.09	0.02	0.00	0.00	21.06
rs73104508	Glycerol to mannitol to sorbitol ratio	GCST90200923	7	32151985	G	A	8153	-0.28	0.06	0.00	0.00	24.89
rs150849984	Glycerol to mannitol to sorbitol ratio	GCST90200923	7	107308618	C	T	8153	-0.28	0.06	0.00	0.00	21.77
rs10960835	Glycerol to mannitol to sorbitol ratio	GCST90200923	9	12917731	T	C	8153	0.08	0.02	0.00	0.00	24.78
rs45540538	Glycerol to mannitol to sorbitol ratio	GCST90200923	9	116373428	C	A	8153	0.14	0.03	0.00	0.00	20.05
rs11011771	Glycerol to mannitol to sorbitol ratio	GCST90200923	10	20065579	A	T	8153	0.09	0.02	0.00	0.00	23.15
rs77060453	Glycerol to mannitol to sorbitol ratio	GCST90200923	11	34229300	G	A	8153	0.33	0.07	0.00	0.00	19.66
rs150455888	Glycerol to mannitol to sorbitol ratio	GCST90200923	11	63002350	T	C	8153	-0.33	0.07	0.00	0.00	20.98
rs4544011	Glycerol to mannitol to sorbitol ratio	GCST90200923	11	120786157	A	G	8153	-0.08	0.02	0.00	0.00	24.14
rs11067600	Glycerol to mannitol to sorbitol ratio	GCST90200923	12	115439972	C	T	8153	0.26	0.06	0.00	0.00	21.61
rs4943345	Glycerol to mannitol to sorbitol ratio	GCST90200923	13	35873773	G	A	8153	-0.08	0.02	0.00	0.00	23.64
rs113013161	Glycerol to mannitol to sorbitol ratio	GCST90200923	14	56767755	C	T	8153	0.11	0.02	0.00	0.00	20.83
rs189592920	Glycerol to mannitol to sorbitol ratio	GCST90200923	15	60132516	A	G	8153	-0.64	0.15	0.00	0.00	19.59
rs8038367	Glycerol to mannitol to sorbitol ratio	GCST90200923	15	82224928	T	A	8153	-0.13	0.03	0.00	0.00	19.69
rs141950209	Glycerol to mannitol to sorbitol ratio	GCST90200923	16	31582740	G	A	8153	-0.35	0.08	0.00	0.00	20.21

rs7186512	Glycerol to mannitol to sorbitol ratio	GCST90200923	16	50386912	C	A	8153	0.10	0.02	0.00	0.00	20.89
rs12937941	Glycerol to mannitol to sorbitol ratio	GCST90200923	17	62828511	C	T	8153	0.08	0.02	0.00	0.00	24.16
rs6082394	Glycerol to mannitol to sorbitol ratio	GCST90200923	20	2207751	C	G	8153	0.18	0.04	0.00	0.00	22.26
rs5992678	Glycerol to mannitol to sorbitol ratio	GCST90200923	22	17378818	G	A	8153	-0.27	0.06	0.00	0.00	20.95
rs72671189	Alpha-tocopherol to glycerol ratio	GCST90200924	1	69575434	T	C	8158	0.31	0.07	0.00	0.00	20.29
rs149698990	Alpha-tocopherol to glycerol ratio	GCST90200924	1	104428668	G	A	8158	-0.31	0.07	0.00	0.00	22.87
rs112993924	Alpha-tocopherol to glycerol ratio	GCST90200924	1	110704843	G	A	8158	0.20	0.04	0.00	0.00	20.71
rs12090754	Alpha-tocopherol to glycerol ratio	GCST90200924	1	164774010	A	G	8158	-0.07	0.01	0.00	0.00	21.17
rs143713348	Alpha-tocopherol to glycerol ratio	GCST90200924	2	221885849	T	C	8158	-0.26	0.06	0.00	0.00	19.68
rs2581209	Alpha-tocopherol to glycerol ratio	GCST90200924	3	10907241	C	T	8158	0.08	0.02	0.00	0.00	20.18
rs138560872	Alpha-tocopherol to glycerol ratio	GCST90200924	3	176295298	C	T	8158	-0.33	0.07	0.00	0.00	20.16
rs6818156	Alpha-tocopherol to glycerol ratio	GCST90200924	4	8309316	G	A	8158	-0.07	0.02	0.00	0.00	19.73
rs9761637	Alpha-tocopherol to glycerol ratio	GCST90200924	4	38748564	G	A	8158	-0.07	0.02	0.00	0.00	19.68
rs72999543	Alpha-tocopherol to glycerol ratio	GCST90200924	4	173263113	T	C	8158	-0.19	0.04	0.00	0.00	20.92
rs75803569	Alpha-tocopherol to glycerol ratio	GCST90200924	5	19553625	T	G	8158	0.16	0.03	0.00	0.00	24.43
rs9655918	Alpha-tocopherol to glycerol ratio	GCST90200924	7	82786999	A	G	8158	-0.07	0.02	0.00	0.00	21.62
rs10812038	Alpha-tocopherol to glycerol ratio	GCST90200924	9	2432800	A	G	8158	0.08	0.02	0.00	0.00	19.57
rs77711613	Alpha-tocopherol to glycerol ratio	GCST90200924	10	81923981	C	T	8158	0.19	0.04	0.00	0.00	20.46
rs6484808	Alpha-tocopherol to glycerol ratio	GCST90200924	11	35989394	T	C	8158	-0.07	0.01	0.00	0.00	19.99
rs78101093	Alpha-tocopherol to glycerol ratio	GCST90200924	12	11549152	A	C	8158	-0.15	0.03	0.00	0.00	19.94
rs10859848	Alpha-tocopherol to glycerol ratio	GCST90200924	12	95202116	A	G	8158	0.11	0.02	0.00	0.00	22.42
rs8061003	Alpha-tocopherol to glycerol ratio	GCST90200924	16	26231990	G	A	8158	-0.07	0.02	0.00	0.00	20.94
rs17820003	Alpha-tocopherol to glycerol ratio	GCST90200924	17	56269535	G	C	8158	-0.11	0.03	0.00	0.00	19.83
rs191961760	Alpha-tocopherol to glycerol ratio	GCST90200924	18	11533245	T	C	8158	0.40	0.08	0.00	0.00	25.55

rs6101181	Alpha-tocopherol to glycerol ratio	GCST90200924	20	61016278	T	C	8158	-0.07	0.01	0.00	0.00	21.69
rs35840213	Alpha-tocopherol to glycerol ratio	GCST90200924	21	21275137	C	T	8158	0.09	0.02	0.00	0.00	20.72
rs180936402	Alpha-tocopherol to glycerol ratio	GCST90200924	21	39891441	T	C	8158	0.13	0.03	0.00	0.00	19.90
rs141421782	Caffeine to theobromine ratio	GCST90200925	1	57153198	A	G	7952	0.33	0.07	0.00	0.00	20.46
rs149105458	Caffeine to theobromine ratio	GCST90200925	1	202161992	A	G	7952	0.27	0.06	0.00	0.00	24.48
rs193063521	Caffeine to theobromine ratio	GCST90200925	2	20059463	C	T	7952	-0.36	0.08	0.00	0.00	19.72
rs262499	Caffeine to theobromine ratio	GCST90200925	2	63627399	G	A	7952	0.09	0.02	0.00	0.00	24.30
rs71418517	Caffeine to theobromine ratio	GCST90200925	2	114753461	G	A	7952	-0.16	0.03	0.00	0.00	28.17
rs17720954	Caffeine to theobromine ratio	GCST90200925	2	193357519	T	C	7952	-0.21	0.05	0.00	0.00	20.72
rs114116422	Caffeine to theobromine ratio	GCST90200925	4	115301902	C	T	7952	-0.42	0.09	0.00	0.00	20.07
rs141546969	Caffeine to theobromine ratio	GCST90200925	4	158374059	G	T	7952	0.32	0.07	0.00	0.00	19.79
rs112218163	Caffeine to theobromine ratio	GCST90200925	6	163183102	A	G	7952	0.20	0.04	0.00	0.00	19.96
rs74740765	Caffeine to theobromine ratio	GCST90200925	7	12456758	A	G	7952	-0.11	0.02	0.00	0.00	21.58
rs75708732	Caffeine to theobromine ratio	GCST90200925	8	142771532	A	G	7952	0.15	0.03	0.00	0.00	23.32
rs10977491	Caffeine to theobromine ratio	GCST90200925	9	9098794	T	A	7952	0.12	0.03	0.00	0.00	22.37
rs10119593	Caffeine to theobromine ratio	GCST90200925	9	115573266	T	C	7952	-0.07	0.02	0.00	0.00	19.64
rs150345888	Caffeine to theobromine ratio	GCST90200925	9	131786042	A	G	7952	-0.36	0.08	0.00	0.00	21.41
rs147232190	Caffeine to theobromine ratio	GCST90200925	11	66383397	T	C	7952	0.46	0.10	0.00	0.00	19.60
rs114245980	Caffeine to theobromine ratio	GCST90200925	14	22302351	A	G	7952	0.37	0.08	0.00	0.00	24.48
rs73242456	Caffeine to theobromine ratio	GCST90200925	14	33843907	A	G	7952	-0.09	0.02	0.00	0.00	19.81
rs7200999	Caffeine to theobromine ratio	GCST90200925	16	5857239	T	G	7952	0.07	0.02	0.00	0.00	19.91
rs73588406	Caffeine to theobromine ratio	GCST90200925	16	65801763	A	G	7952	0.12	0.03	0.00	0.00	19.71
rs36102671	Caffeine to theobromine ratio	GCST90200925	17	40325109	A	G	7952	-0.12	0.03	0.00	0.00	19.79
rs4940420	Caffeine to theobromine ratio	GCST90200925	18	58679955	G	A	7952	-0.07	0.02	0.00	0.00	19.92

rs889092	Caffeine to theobromine ratio	GCST90200925	19	55637591	A	G	7952	0.07	0.02	0.00	0.00	19.62
rs15125888	Caffeine to theobromine ratio	GCST90200925	20	3167098	A	G	7952	-0.33	0.07	0.00	0.00	23.77
rs113666924	Caffeine to theobromine ratio	GCST90200925	22	40846014	A	G	7952	0.20	0.04	0.00	0.00	21.01
rs72702813	N-stearoyl- sphingosine (d18:1 to 18:0) to N- palmitoyl- sphinganine (d18:0 to 16:0)	GCST90200926	1	152628378	T	G	8159	-0.19	0.04	0.00	0.00	20.56
rs139516793	N-stearoyl- sphingosine (d18:1 to 18:0) to N- palmitoyl- sphinganine (d18:0 to 16:0)	GCST90200926	2	7551475	G	T	8159	-0.32	0.07	0.00	0.00	21.58
rs74936842	N-stearoyl- sphingosine (d18:1 to 18:0) to N- palmitoyl- sphinganine (d18:0 to 16:0)	GCST90200926	2	37446535	A	G	8159	-0.39	0.09	0.00	0.00	19.83
rs148254301	N-stearoyl- sphingosine (d18:1 to 18:0) to N- palmitoyl- sphinganine (d18:0 to 16:0)	GCST90200926	2	50772900	T	C	8159	0.22	0.05	0.00	0.00	20.18
rs114805834	N-stearoyl- sphingosine (d18:1 to 18:0) to N- palmitoyl- sphinganine (d18:0 to 16:0)	GCST90200926	2	177313720	A	T	8159	-0.32	0.06	0.00	0.00	24.75
rs57979273	N-stearoyl- sphingosine (d18:1 to 18:0) to N- palmitoyl- sphinganine (d18:0 to 16:0)	GCST90200926	3	177784768	T	C	8159	0.19	0.04	0.00	0.00	20.23
rs56273473	N-stearoyl- sphingosine (d18:1 to 18:0) to N- palmitoyl- sphinganine (d18:0 to 16:0)	GCST90200926	4	94318241	C	T	8159	-0.30	0.06	0.00	0.00	24.01
rs55749156	N-stearoyl- sphingosine (d18:1 to 18:0) to N- palmitoyl- sphinganine (d18:0 to 16:0)	GCST90200926	5	11334665	T	G	8159	-0.13	0.03	0.00	0.00	20.06
rs9688819	N-stearoyl- sphingosine (d18:1 to 18:0) to N- palmitoyl- sphinganine (d18:0 to 16:0)	GCST90200926	6	900207	C	T	8159	-0.09	0.02	0.00	0.00	22.82

rs34055450	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0) N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200926	6	94750112	A	T	8159	-0.15	0.03	0.00	0.00	20.40
rs78713405	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0) N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200926	7	98486212	A	G	8159	0.26	0.05	0.00	0.00	27.63
rs147581760	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0) N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200926	7	101509373	C	G	8159	-0.31	0.07	0.00	0.00	21.07
rs2947375	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0) N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200926	8	12992824	G	A	8159	0.09	0.02	0.00	0.00	19.90
rs140949143	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0) N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200926	8	25673447	A	G	8159	0.26	0.06	0.00	0.00	20.62
rs4742982	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0) N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200926	9	106016734	A	G	8159	0.07	0.02	0.00	0.00	21.92
rs7897470	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0) N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200926	10	63156304	T	G	8159	-0.09	0.02	0.00	0.00	19.74
rs11040405	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0) N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200926	11	6043734	G	A	8159	-0.07	0.02	0.00	0.00	20.08
rs75517884	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0) N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200926	11	22587640	C	T	8159	0.27	0.06	0.00	0.00	22.91
rs1903727	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	11	42406303	G	A	8159	0.09	0.02	0.00	0.00	24.45

rs142344125	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	12	54736615	A	G	8159	-0.22	0.05	0.00	0.00	20.10
rs139281953	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	12	87523257	T	A	8159	-0.37	0.08	0.00	0.00	23.40
rs2464190	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	12	120977587	C	T	8159	-0.10	0.02	0.00	0.00	36.88
rs2297701	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	13	101454113	T	C	8159	-0.12	0.02	0.00	0.00	23.86
rs8019525	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	14	48559203	T	C	8159	0.08	0.02	0.00	0.00	21.82
rs7160525	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	14	63765502	A	G	8159	0.22	0.02	0.00	0.01	117.09
rs113759588	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	15	29131516	G	A	8159	0.23	0.05	0.00	0.00	23.02
rs149328022	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	17	9866811	C	T	8159	-0.23	0.05	0.00	0.00	21.00
rs11543269	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	18	57646765	T	C	8159	-0.12	0.02	0.00	0.00	24.61
rs1466448	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	19	8224635	A	C	8159	0.16	0.02	0.00	0.01	70.51

rs1065853	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	19	44909976	T	G	8159	-0.16	0.03	0.00	0.00	32.51
rs141888003	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	20	56589546	C	T	8159	-0.44	0.09	0.00	0.00	23.35
rs17821649	N-stearoyl-sphingosine (d18:1 to 18:0) to N-palmitoyl-sphinganine (d18:0 to 16:0)	GCST90200926	22	46654490	A	G	8159	-0.11	0.02	0.00	0.01	45.81
rs2609117	Theophylline to theobromine	GCST90200927	2	6050973	C	A	7858	-0.09	0.02	0.00	0.00	20.58
rs998043	Theophylline to theobromine	GCST90200927	2	63732401	G	A	7858	-0.09	0.02	0.00	0.00	23.11
rs13123211	Theophylline to theobromine	GCST90200927	4	67237368	T	A	7858	0.08	0.02	0.00	0.00	27.80
rs6884431	Theophylline to theobromine	GCST90200927	5	11111659	G	A	7858	0.08	0.02	0.00	0.00	23.16
rs112413825	Theophylline to theobromine	GCST90200927	5	169058320	T	C	7858	0.27	0.06	0.00	0.00	20.19
rs78609198	Theophylline to theobromine	GCST90200927	6	18475357	G	T	7858	0.21	0.04	0.00	0.00	21.47
rs117241143	Theophylline to theobromine	GCST90200927	6	133659481	T	C	7858	-0.14	0.03	0.00	0.00	22.83
rs112218163	Theophylline to theobromine	GCST90200927	6	163183102	A	G	7858	0.20	0.04	0.00	0.00	21.13
rs17428030	Theophylline to theobromine	GCST90200927	9	84338706	G	A	7858	0.15	0.03	0.00	0.00	23.94
rs10838483	Theophylline to theobromine	GCST90200927	11	45525211	C	T	7858	0.08	0.02	0.00	0.00	22.01
rs201559376	Theophylline to theobromine	GCST90200927	11	123325326	T	A	7858	0.20	0.04	0.00	0.00	20.01
rs114245980	Theophylline to theobromine	GCST90200927	14	22302351	A	G	7858	0.36	0.08	0.00	0.00	22.46
rs117404834	Theophylline to theobromine	GCST90200927	14	58262448	T	C	7858	0.28	0.06	0.00	0.00	20.83
rs1025207	Theophylline to theobromine	GCST90200927	18	38545387	C	G	7858	0.08	0.02	0.00	0.00	19.88
rs111874138	Theophylline to theobromine	GCST90200927	18	75166094	A	G	7858	-0.16	0.04	0.00	0.00	19.67
rs56113850	Theophylline to theobromine	GCST90200927	19	40847202	C	T	7858	0.08	0.02	0.00	0.00	27.50
rs1007144	Theophylline to theobromine	GCST90200927	20	16561784	A	G	7858	-0.11	0.02	0.00	0.00	20.97

rs2601094	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90200928	2	168438641	G	A	8191	-0.08	0.02	0.00	0.00	24.55
rs4395533	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90200928	4	120560795	A	G	8191	-0.08	0.02	0.00	0.00	24.53
rs114368138	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90200928	4	180386176	C	T	8191	-0.19	0.04	0.00	0.00	22.79
rs73739677	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90200928	6	33070101	A	G	8191	0.09	0.02	0.00	0.00	20.61
rs1318150	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90200928	6	82662608	A	G	8191	0.07	0.02	0.00	0.00	22.05
rs12707122	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90200928	7	133832556	C	A	8191	-0.09	0.02	0.00	0.00	24.23
rs3107061	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90200928	8	95832388	C	T	8191	0.08	0.02	0.00	0.00	24.95
rs7095949	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90200928	10	17548138	G	T	8191	0.08	0.02	0.00	0.00	20.06
rs34577247	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90200928	12	57184890	A	G	8191	-0.25	0.05	0.00	0.00	21.17
rs55834942	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90200928	12	120999311	A	G	8191	-0.09	0.02	0.00	0.00	21.61

rs9533318	N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200928	13	42949022	A	G	8191	-0.08	0.02	0.00	0.00	19.84
rs139127256	ratio N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200928	13	104939514	G	A	8191	-0.32	0.07	0.00	0.00	19.79
rs118118765	ratio N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200928	14	37447534	G	A	8191	0.31	0.07	0.00	0.00	21.88
rs8008068	ratio N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200928	14	63766999	G	A	8191	-0.13	0.02	0.00	0.00	36.65
rs144530677	ratio N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200928	15	62201743	A	G	8191	-0.18	0.04	0.00	0.00	20.53
rs35098479	ratio N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200928	17	67486986	T	C	8191	0.15	0.03	0.00	0.00	19.84
rs11543269	ratio N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200928	18	57646765	T	C	8191	0.11	0.02	0.00	0.00	20.23
rs1466448	ratio N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200928	19	8224635	A	C	8191	-0.27	0.02	0.00	0.02	187.27
rs364585	ratio N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200928	20	12982070	G	A	8191	0.14	0.02	0.00	0.01	72.07
rs9615396	ratio N-palmitoyl-sphingosine (d18:1 to 16:0) to N-stearoyl-sphingosine (d18:1 to 18:0)	GCST90200928	22	46625329	G	A	8191	0.09	0.02	0.00	0.00	29.06
rs116820418	ratio Glycerol to carnitine ratio	GCST90200929	1	112080080	T	C	8235	0.23	0.05	0.00	0.00	22.46
rs75960481	ratio Glycerol to carnitine ratio	GCST90200929	1	181508125	A	G	8235	0.25	0.05	0.00	0.00	21.98

rs72819866	Glycerol to carnitine ratio	GCST90200929	2	81695047	C	T	8235	0.12	0.03	0.00	0.00	19.68
rs2596837	Glycerol to carnitine ratio	GCST90200929	3	10786082	C	G	8235	-0.07	0.02	0.00	0.00	21.46
rs61621666	Glycerol to carnitine ratio	GCST90200929	4	38981993	G	A	8235	0.15	0.03	0.00	0.00	23.17
rs184286424	Glycerol to carnitine ratio	GCST90200929	4	64674682	A	C	8235	-0.22	0.05	0.00	0.00	19.98
rs12505581	Glycerol to carnitine ratio	GCST90200929	4	152027660	G	A	8235	0.11	0.02	0.00	0.00	23.37
rs10001311	Glycerol to carnitine ratio	GCST90200929	4	171888443	C	G	8235	0.07	0.02	0.00	0.00	21.72
rs78819701	Glycerol to carnitine ratio	GCST90200929	5	82284971	C	T	8235	0.17	0.04	0.00	0.00	23.04
rs7705826	Glycerol to carnitine ratio	GCST90200929	5	132396764	G	T	8235	-0.10	0.02	0.00	0.00	28.24
rs117127331	Glycerol to carnitine ratio	GCST90200929	6	148467923	T	C	8235	-0.09	0.02	0.00	0.00	20.68
rs117760808	Glycerol to carnitine ratio	GCST90200929	6	158353986	G	C	8235	0.11	0.02	0.00	0.00	20.63
rs146885651	Glycerol to carnitine ratio	GCST90200929	7	62743104	T	C	8235	1.75	0.39	0.00	0.00	20.58
rs2299168	Glycerol to carnitine ratio	GCST90200929	7	82293797	C	T	8235	0.22	0.05	0.00	0.00	20.30
rs1888859	Glycerol to carnitine ratio	GCST90200929	9	12921645	G	T	8235	0.06	0.01	0.00	0.00	20.22
rs1171616	Glycerol to carnitine ratio	GCST90200929	10	59708831	T	G	8235	-0.12	0.02	0.00	0.01	52.77
rs79507970	Glycerol to carnitine ratio	GCST90200929	12	24993537	C	G	8235	0.23	0.05	0.00	0.00	22.52
rs11107955	Glycerol to carnitine ratio	GCST90200929	12	95256176	T	C	8235	-0.11	0.02	0.00	0.00	24.68
rs7327786	Glycerol to carnitine ratio	GCST90200929	13	31005430	G	A	8235	0.10	0.02	0.00	0.00	20.59
rs35298690	Glycerol to carnitine ratio	GCST90200929	15	24205574	C	T	8235	0.08	0.02	0.00	0.00	25.04
rs2229322	Glycerol to carnitine ratio	GCST90200929	16	10922188	T	C	8235	0.10	0.02	0.00	0.00	19.77
rs13335139	Glycerol to carnitine ratio	GCST90200929	16	19971439	G	A	8235	0.78	0.16	0.00	0.00	22.86
rs8061003	Glycerol to carnitine ratio	GCST90200929	16	26231990	G	A	8235	0.07	0.01	0.00	0.00	21.63
rs7241147	Glycerol to carnitine ratio	GCST90200929	18	61632432	C	G	8235	-0.15	0.03	0.00	0.00	30.75
rs62116851	Glycerol to carnitine ratio	GCST90200929	19	16077000	G	A	8235	-0.11	0.02	0.00	0.00	20.98
rs116867824	Glycerol to carnitine ratio	GCST90200929	20	3391979	C	G	8235	0.18	0.04	0.00	0.00	19.95
rs34437475	Glycerol to carnitine ratio	GCST90200929	21	26902493	A	G	8235	0.08	0.02	0.00	0.00	20.32
rs10212037	Glycerol to carnitine ratio	GCST90200929	22	26042141	A	G	8235	0.14	0.03	0.00	0.00	19.91
rs146064637	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	1	28767548	A	G	8206	-0.25	0.05	0.00	0.00	21.44
rs199685	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	1	77019818	T	C	8206	0.08	0.02	0.00	0.00	20.17
rs66669018	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	1	241527811	A	G	8206	0.22	0.05	0.00	0.00	20.14
rs4233731	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	2	28938144	A	G	8206	0.14	0.03	0.00	0.00	20.64
rs112845131	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	3	144385482	T	A	8206	-0.32	0.07	0.00	0.00	22.89
rs61795297	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	4	35952210	T	C	8206	-0.31	0.07	0.00	0.00	20.25
rs29757	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	5	31664285	A	G	8206	-0.08	0.02	0.00	0.00	20.09

rs6860806	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	5	132304843	G	A	8206	0.07	0.02	0.00	0.00	21.93
rs150229874	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	6	52267843	C	T	8206	0.27	0.06	0.00	0.00	20.92
rs13243809	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	7	135309816	G	A	8206	-0.10	0.02	0.00	0.00	22.13
rs114798927	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	8	9363866	C	T	8206	0.12	0.02	0.00	0.00	23.99
rs7027525	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	9	25616029	T	G	8206	-0.08	0.02	0.00	0.00	23.25
rs16937003	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	10	79178742	A	G	8206	0.25	0.05	0.00	0.00	22.07
rs2960679	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	10	115846461	G	T	8206	0.08	0.02	0.00	0.00	20.21
rs12370475	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	12	66094209	T	C	8206	0.07	0.02	0.00	0.00	21.18
rs59682729	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	13	79231903	G	T	8206	0.26	0.06	0.00	0.00	19.92
rs56034414	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	18	4060551	G	A	8206	-0.11	0.02	0.00	0.00	20.49
rs34555756	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	20	62675279	A	G	8206	0.10	0.02	0.00	0.00	19.57
rs4823981	Carnitine to acetylcarnitine (C2) ratio	GCST90200930	22	49052352	T	G	8206	0.07	0.02	0.00	0.00	19.51
rs142156573	Glycerol to sulfate ratio	GCST90200931	1	8849188	C	A	8176	-0.30	0.06	0.00	0.00	26.11
rs56040563	Glycerol to sulfate ratio	GCST90200931	3	132984079	T	C	8176	0.11	0.02	0.00	0.00	23.70
rs6790404	Glycerol to sulfate ratio	GCST90200931	3	172648857	T	G	8176	0.20	0.04	0.00	0.00	20.12
rs10008293	Glycerol to sulfate ratio	GCST90200931	4	32350080	A	T	8176	0.07	0.02	0.00	0.00	20.01
rs282729	Glycerol to sulfate ratio	GCST90200931	4	58614902	C	A	8176	0.08	0.02	0.00	0.00	23.71
rs139079920	Glycerol to sulfate ratio	GCST90200931	4	140689987	A	G	8176	-0.25	0.06	0.00	0.00	19.80
rs7662677	Glycerol to sulfate ratio	GCST90200931	4	181644540	G	A	8176	0.06	0.01	0.00	0.00	19.78
rs114376408	Glycerol to sulfate ratio	GCST90200931	5	16576764	A	G	8176	-0.11	0.03	0.00	0.00	19.51
rs79800012	Glycerol to sulfate ratio	GCST90200931	6	114872536	C	T	8176	-0.42	0.09	0.00	0.00	21.36
rs10272463	Glycerol to sulfate ratio	GCST90200931	7	82799588	G	C	8176	0.07	0.01	0.00	0.00	21.76
rs35408848	Glycerol to sulfate ratio	GCST90200931	8	9951532	A	G	8176	0.09	0.02	0.00	0.00	21.63
rs112873937	Glycerol to sulfate ratio	GCST90200931	8	18458395	A	G	8176	0.15	0.03	0.00	0.00	20.38
rs118041812	Glycerol to sulfate ratio	GCST90200931	8	75362588	G	A	8176	0.31	0.06	0.00	0.00	23.55
rs10960835	Glycerol to sulfate ratio	GCST90200931	9	12917731	T	C	8176	0.06	0.01	0.00	0.00	19.67
rs55928195	Glycerol to sulfate ratio	GCST90200931	9	131395339	C	G	8176	-0.33	0.07	0.00	0.00	19.58
rs116874771	Glycerol to sulfate ratio	GCST90200931	10	83175982	A	C	8176	0.19	0.04	0.00	0.00	20.53
rs2846070	Glycerol to sulfate ratio	GCST90200931	11	76293717	A	C	8176	-0.10	0.02	0.00	0.00	20.60
rs11176065	Glycerol to sulfate ratio	GCST90200931	12	66158118	T	C	8176	-0.07	0.01	0.00	0.00	22.56
rs2306885	Glycerol to sulfate ratio	GCST90200931	12	95262746	C	A	8176	-0.12	0.02	0.00	0.00	24.08

rs61942622	Glycerol to sulfate ratio	GCST90200931	12	110572837	G	T	8176	-0.12	0.03	0.00	0.00	21.07
rs1632215	Glycerol to sulfate ratio	GCST90200931	13	26737109	A	G	8176	-0.07	0.02	0.00	0.00	21.25
rs7496008	Glycerol to sulfate ratio	GCST90200931	15	70545339	G	C	8176	-0.07	0.01	0.00	0.00	22.82
rs62018653	Glycerol to sulfate ratio	GCST90200931	15	94969290	C	T	8176	0.14	0.03	0.00	0.00	21.26
rs7241147	Glycerol to sulfate ratio	GCST90200931	18	61632432	C	G	8176	-0.15	0.03	0.00	0.00	25.84
rs114273476	Glycerol to sulfate ratio	GCST90200931	19	17105486	A	C	8176	0.40	0.09	0.00	0.00	21.30
rs34437475	Glycerol to sulfate ratio	GCST90200931	21	26902493	A	G	8176	0.08	0.02	0.00	0.00	20.19
rs116820418	palmitoylcarnitine (C16) Glycerol to	GCST90200932	1	112080080	T	C	8165	0.26	0.05	0.00	0.00	27.00
rs74743345	palmitoylcarnitine (C16) Glycerol to	GCST90200932	1	221451603	C	T	8165	-0.15	0.03	0.00	0.00	25.20
rs2885451	palmitoylcarnitine (C16) Glycerol to	GCST90200932	3	55422785	A	G	8165	0.06	0.01	0.00	0.00	20.25
rs7651677	palmitoylcarnitine (C16) Glycerol to	GCST90200932	3	150334813	T	G	8165	-0.08	0.02	0.00	0.00	23.03
rs6790404	palmitoylcarnitine (C16) Glycerol to	GCST90200932	3	172648857	T	G	8165	0.20	0.04	0.00	0.00	20.77
rs7672535	palmitoylcarnitine (C16) Glycerol to	GCST90200932	4	82646969	A	T	8165	-0.09	0.02	0.00	0.00	24.73
rs4069756	palmitoylcarnitine (C16) Glycerol to	GCST90200932	4	181639936	T	A	8165	0.06	0.01	0.00	0.00	21.03
rs419291	palmitoylcarnitine (C16) Glycerol to	GCST90200932	5	132297662	C	T	8165	0.10	0.01	0.00	0.01	47.98
rs12210538	palmitoylcarnitine (C16) Glycerol to	GCST90200932	6	110438805	G	A	8165	0.10	0.02	0.00	0.00	37.97
rs13214415	palmitoylcarnitine (C16) Glycerol to	GCST90200932	6	129691125	G	A	8165	-0.19	0.04	0.00	0.00	22.17
rs1285909	palmitoylcarnitine (C16) Glycerol to	GCST90200932	7	141913413	T	G	8165	-0.13	0.03	0.00	0.00	20.46
rs10812038	palmitoylcarnitine (C16) Glycerol to	GCST90200932	9	2432800	A	G	8165	-0.08	0.02	0.00	0.00	20.83
rs6560353	palmitoylcarnitine (C16) Glycerol to	GCST90200932	9	73760628	G	T	8165	0.08	0.02	0.00	0.00	20.13
rs1597028	palmitoylcarnitine (C16) Glycerol to	GCST90200932	11	95114049	A	G	8165	0.15	0.03	0.00	0.00	20.81
rs9739398	palmitoylcarnitine (C16) Glycerol to	GCST90200932	12	95236288	T	C	8165	-0.10	0.02	0.00	0.00	19.56
rs2755213	palmitoylcarnitine (C16) Glycerol to	GCST90200932	13	40572164	C	T	8165	0.11	0.02	0.00	0.00	20.50
rs74031879	palmitoylcarnitine (C16) Glycerol to	GCST90200932	15	98289607	C	T	8165	0.11	0.02	0.00	0.00	21.63
rs62116851	palmitoylcarnitine (C16) Glycerol to	GCST90200932	19	16077000	G	A	8165	-0.13	0.02	0.00	0.00	27.67
rs162077	palmitoylcarnitine (C16) Glycerol to	GCST90200932	20	48156227	T	C	8165	0.08	0.02	0.00	0.00	20.63
rs7510412	palmitoylcarnitine (C16)	GCST90200932	21	20534934	G	C	8165	-0.10	0.02	0.00	0.00	20.49

rs11783298 2	Glycerol to palmitoylcarni tine (C16)	GCST90200932	21	28341688	C	G	8165	0.16	0.03	0.00	0.00	21.76
rs62235456	Glycerol to palmitoylcarni tine (C16)	GCST90200932	21	39897591	C	G	8165	0.13	0.03	0.00	0.00	20.95
rs72708158	Alpha- ketoglutarate to proline	GCST90200933	1	149908803	G	A	8273	-0.13	0.03	0.00	0.00	19.96
rs79326406	Alpha- ketoglutarate to proline	GCST90200933	2	14094959	T	C	8273	0.11	0.02	0.00	0.00	19.56
rs715	Alpha- ketoglutarate to proline	GCST90200933	2	210678331	C	T	8273	0.07	0.02	0.00	0.00	20.27
rs62286863	Alpha- ketoglutarate to proline	GCST90200933	3	184722069	G	A	8273	0.08	0.02	0.00	0.00	20.51
rs759084	Alpha- ketoglutarate to proline	GCST90200933	4	54543979	T	C	8273	-0.13	0.03	0.00	0.00	21.09
rs15130459 5	Alpha- ketoglutarate to proline	GCST90200933	4	185471787	A	C	8273	-0.39	0.07	0.00	0.00	30.47
rs28730660	Alpha- ketoglutarate to proline	GCST90200933	6	43178516	A	G	8273	0.44	0.09	0.00	0.00	22.00
rs28540963	Alpha- ketoglutarate to proline	GCST90200933	8	124681860	C	T	8273	0.07	0.02	0.00	0.00	20.17
rs11156496 4	Alpha- ketoglutarate to proline	GCST90200933	9	108075697	C	T	8273	-0.29	0.06	0.00	0.00	21.12
rs11195703	Alpha- ketoglutarate to proline	GCST90200933	10	111741277	G	A	8273	0.08	0.02	0.00	0.00	20.13
rs61871184	Alpha- ketoglutarate to proline	GCST90200933	11	2919477	C	G	8273	0.10	0.02	0.00	0.00	21.78
rs3741841	Alpha- ketoglutarate to proline	GCST90200933	12	21542650	G	A	8273	0.10	0.02	0.00	0.00	19.88
rs7321479	Alpha- ketoglutarate to proline	GCST90200933	13	44735777	T	C	8273	0.12	0.03	0.00	0.00	20.21
rs8041822	Alpha- ketoglutarate to proline	GCST90200933	15	60813358	C	T	8273	-0.18	0.04	0.00	0.00	24.97
rs18607997 8	Alpha- ketoglutarate to proline	GCST90200933	16	69287443	A	G	8273	0.33	0.07	0.00	0.00	22.42
rs7190437	Alpha- ketoglutarate to proline	GCST90200933	16	84258961	C	A	8273	0.09	0.02	0.00	0.00	25.30
rs181533	Alpha- ketoglutarate to proline	GCST90200933	17	8906515	C	T	8273	0.07	0.02	0.00	0.00	20.17
rs11799093 4	Alpha- ketoglutarate to proline	GCST90200933	17	36702678	C	G	8273	0.26	0.06	0.00	0.00	22.08
rs11809827 0	Alpha- ketoglutarate to proline	GCST90200933	17	72374071	A	G	8273	0.25	0.05	0.00	0.00	26.48
rs75937275	Alpha- ketoglutarate to proline	GCST90200933	18	63516320	A	C	8273	0.18	0.04	0.00	0.00	20.15
rs6066009	Alpha- ketoglutarate to proline	GCST90200933	20	46535855	C	T	8273	-0.09	0.02	0.00	0.00	21.27
rs6124830	Alpha- ketoglutarate to proline	GCST90200933	20	46608139	C	T	8273	0.13	0.02	0.00	0.01	42.25

rs2540640	Alpha-ketoglutarate to proline	GCST90200933	22	18972067	C	G	8273	-0.34	0.03	0.00	0.02	171.21
rs13433658	Alpha-ketoglutarate to proline	GCST90200933	22	19028734	G	C	8273	0.12	0.02	0.00	0.00	33.19
rs14449596	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	1	31323572	T	C	8200	-0.23	0.05	0.00	0.00	20.61
rs14317066	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	2	223902487	A	C	8200	-0.22	0.05	0.00	0.00	22.95
rs539570	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	6	23950678	T	C	8200	0.08	0.02	0.00	0.00	21.12
rs62440901	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	6	160148036	T	C	8200	0.10	0.02	0.00	0.00	23.96
rs4719620	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	7	20598136	T	G	8200	0.07	0.02	0.00	0.00	19.66
rs6965360	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	7	89351740	G	A	8200	-0.12	0.03	0.00	0.00	19.56
rs76335191	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	8	64478484	A	T	8200	0.16	0.04	0.00	0.00	19.65
rs35186631	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	8	131330949	C	T	8200	-0.37	0.08	0.00	0.00	20.13
rs74981086	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	9	26798495	A	G	8200	0.20	0.04	0.00	0.00	22.16
rs2680322	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	10	55155537	T	A	8200	0.22	0.05	0.00	0.00	22.31
rs37629478	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	11	48861375	T	A	8200	0.31	0.07	0.00	0.00	19.91
rs17504675	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	11	110866783	A	G	8200	0.24	0.05	0.00	0.00	21.78
rs672901	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	11	114144393	G	A	8200	0.09	0.02	0.00	0.00	19.52
rs7308808	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	12	130122909	G	C	8200	-0.11	0.02	0.00	0.00	20.25
rs2150795	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	13	56769219	T	C	8200	-0.09	0.02	0.00	0.00	23.75
rs14502587	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	13	100381667	A	G	8200	-0.53	0.07	0.00	0.01	54.66
rs12879834	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	14	95029254	A	G	8200	0.08	0.02	0.00	0.00	23.55

rs79383808	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	15	93649377	A	G	8200	-0.22	0.05	0.00	0.00	22.28
rs77587745	Acetylcarnitine (C2) to propionylcarnitine (C3) ratio	GCST90200934	18	32134565	G	A	8200	-0.19	0.04	0.00	0.00	20.41
rs6753112	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	2	231322443	T	C	8185	-0.07	0.02	0.00	0.00	21.55
rs76054555	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	3	22365026	C	T	8185	-0.27	0.05	0.00	0.00	28.03
rs6775269	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	3	151187852	G	A	8185	0.31	0.07	0.00	0.00	22.13
rs73168929	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	3	151881896	A	C	8185	0.17	0.04	0.00	0.00	20.55
rs2330728	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	5	31601908	A	T	8185	0.09	0.02	0.00	0.00	19.54
rs79816298	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	5	35881404	T	G	8185	-0.21	0.05	0.00	0.00	19.75
rs4705857	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	5	132401338	T	C	8185	-0.10	0.02	0.00	0.00	40.06
rs56065170	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	6	2673010	G	A	8185	0.10	0.02	0.00	0.00	22.23
rs62424470	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	6	80650414	C	T	8185	-0.10	0.02	0.00	0.00	20.84
rs80254170	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	6	160093251	G	A	8185	0.14	0.03	0.00	0.00	23.51
rs662138	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	6	160143444	G	C	8185	0.18	0.02	0.00	0.01	82.36
rs117204970	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	7	90850651	A	G	8185	-0.33	0.07	0.00	0.00	20.31
rs80329585	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	8	33912188	C	A	8185	0.34	0.07	0.00	0.00	22.34
rs139859957	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	8	47154486	G	A	8185	-0.37	0.08	0.00	0.00	21.87
rs117529773	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	9	75441161	G	T	8185	-0.15	0.03	0.00	0.00	19.74
rs28421011	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	9	110285347	A	G	8185	0.08	0.02	0.00	0.00	23.40
rs2637645	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	10	132136737	C	G	8185	0.08	0.02	0.00	0.00	23.60
rs7114344	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	11	9357791	A	G	8185	0.09	0.02	0.00	0.00	21.49
rs145025874	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	13	100381667	A	G	8185	-0.65	0.07	0.00	0.01	80.35
rs74434001	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	14	93913272	A	G	8185	-0.11	0.03	0.00	0.00	19.84
rs668570	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	15	33581456	T	C	8185	0.09	0.02	0.00	0.00	22.56
rs59871056	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	17	46761320	T	G	8185	-0.27	0.06	0.00	0.00	21.72

rs77587745	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	18	32134565	G	A	8185	-0.21	0.04	0.00	0.00	26.26
rs79436195	Carnitine to propionylcarnitine (C3) ratio	GCST90200935	20	24709141	T	C	8185	0.20	0.04	0.00	0.00	19.54
rs1448625	Succinate to proline ratio	GCST90200936	2	2992582	A	G	8209	0.07	0.02	0.00	0.00	19.54
rs13402361	Succinate to proline ratio	GCST90200936	2	157244395	C	T	8209	-0.07	0.02	0.00	0.00	21.25
rs78939401	Succinate to proline ratio	GCST90200936	3	14382191	A	G	8209	0.12	0.03	0.00	0.00	21.16
rs13090664	Succinate to proline ratio	GCST90200936	3	67726395	G	A	8209	-0.11	0.02	0.00	0.00	20.95
rs78623173	Succinate to proline ratio	GCST90200936	3	70298696	T	C	8209	-0.25	0.06	0.00	0.00	20.61
rs9845362	Succinate to proline ratio	GCST90200936	3	115658187	G	A	8209	0.08	0.02	0.00	0.00	19.57
rs182552243	Succinate to proline ratio	GCST90200936	4	185115519	C	G	8209	0.36	0.08	0.00	0.00	21.96
rs72806479	Succinate to proline ratio	GCST90200936	5	145123879	T	C	8209	0.24	0.05	0.00	0.00	20.29
rs118001555	Succinate to proline ratio	GCST90200936	5	179639867	A	G	8209	0.38	0.08	0.00	0.00	20.35
rs75835129	Succinate to proline ratio	GCST90200936	9	72061325	G	A	8209	0.13	0.03	0.00	0.00	24.15
rs73435204	Succinate to proline ratio	GCST90200936	11	25674279	T	G	8209	-0.13	0.03	0.00	0.00	20.23
rs11176426	Succinate to proline ratio	GCST90200936	12	66783645	T	C	8209	0.11	0.03	0.00	0.00	19.56
rs11836076	Succinate to proline ratio	GCST90200936	12	125916428	T	C	8209	-0.07	0.02	0.00	0.00	19.54
rs76271555	Succinate to proline ratio	GCST90200936	13	63688682	T	C	8209	0.23	0.05	0.00	0.00	19.98
rs28538466	Succinate to proline ratio	GCST90200936	15	67339968	G	C	8209	-0.16	0.04	0.00	0.00	19.63
rs2518804	Succinate to proline ratio	GCST90200936	22	18987991	C	A	8209	-0.26	0.03	0.00	0.01	107.32
rs2355455	Alpha-ketoglutarate to trans-4-hydroxyproline ratio	GCST90200937	1	17947107	A	G	8272	-0.07	0.02	0.00	0.00	20.84
rs114943260	Alpha-ketoglutarate to trans-4-hydroxyproline ratio	GCST90200937	1	48126367	T	C	8272	0.24	0.05	0.00	0.00	21.91
rs116063091	Alpha-ketoglutarate to trans-4-hydroxyproline ratio	GCST90200937	1	240611032	C	T	8272	0.18	0.04	0.00	0.00	20.20
rs76333088	Alpha-ketoglutarate to trans-4-hydroxyproline ratio	GCST90200937	2	34599620	G	C	8272	0.12	0.03	0.00	0.00	23.39
rs73071921	Alpha-ketoglutarate to trans-4-hydroxyproline ratio	GCST90200937	2	216840458	G	A	8272	-0.16	0.03	0.00	0.00	25.41
rs61743824	Alpha-ketoglutarate to trans-4-hydroxyproline ratio	GCST90200937	3	143855951	T	C	8272	-0.40	0.09	0.00	0.00	20.34
rs2079169	Alpha-ketoglutarate to trans-4-hydroxyproline ratio	GCST90200937	4	7683802	A	G	8272	0.09	0.02	0.00	0.00	29.68

rs6887306	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	5	57601716	G	A	8272	-0.08	0.02	0.00	0.00	21.83
rs18117820 2	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	7	29334748	G	C	8272	-0.18	0.04	0.00	0.00	21.28
rs73324068	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	7	40453595	C	G	8272	-0.22	0.05	0.00	0.00	20.57
rs3818712	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	9	16215730	G	T	8272	-0.10	0.02	0.00	0.00	22.00
rs1327542	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	9	110324928	T	A	8272	-0.07	0.02	0.00	0.00	20.00
rs14341299 6	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	12	19504488	T	C	8272	-0.31	0.07	0.00	0.00	21.07
rs74463630	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	12	116338442	G	C	8272	0.21	0.05	0.00	0.00	19.75
rs9546480	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	13	83682286	C	T	8272	-0.25	0.05	0.00	0.00	24.00
rs15055541 7	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	17	12237476	G	A	8272	-0.30	0.06	0.00	0.00	21.95
rs67568198	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	18	11034285	T	A	8272	0.11	0.02	0.00	0.00	20.39
rs11769374 8	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	18	52209231	G	C	8272	0.41	0.09	0.00	0.00	20.54
rs3761097	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	19	35800075	T	C	8272	-0.21	0.03	0.00	0.00	39.68
rs6124830	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	20	46608139	C	T	8272	0.10	0.02	0.00	0.00	25.31
rs57055004 0	Alpha- ketoglutarate to trans-4- hydroxyprolin e ratio	GCST90200937	21	17877028	T	C	8272	0.37	0.08	0.00	0.00	19.69
rs66853464	Alpha- ketoglutarate to alanine	GCST90200938	1	55568444	C	T	8272	-0.23	0.05	0.00	0.00	20.38

rs10207972	Alpha-ketoglutarate to alanine	GCST90200938	2	64056213	T	A	8272	-0.30	0.06	0.00	0.00	21.99
rs73121385	Alpha-ketoglutarate to alanine	GCST90200938	2	235316147	C	T	8272	-0.20	0.04	0.00	0.00	22.71
rs138060003	Alpha-ketoglutarate to alanine	GCST90200938	2	235697291	G	A	8272	0.40	0.08	0.00	0.00	22.25
rs73113815	Alpha-ketoglutarate to alanine	GCST90200938	3	10827487	T	C	8272	0.11	0.03	0.00	0.00	20.71
rs7645538	Alpha-ketoglutarate to alanine	GCST90200938	3	133757483	C	T	8272	-0.08	0.02	0.00	0.00	22.23
rs76007926	Alpha-ketoglutarate to alanine	GCST90200938	4	11921296	C	T	8272	-0.26	0.05	0.00	0.00	22.19
rs568362030	Alpha-ketoglutarate to alanine	GCST90200938	5	21751653	T	A	8272	-0.31	0.07	0.00	0.00	19.89
rs2039684	Alpha-ketoglutarate to alanine	GCST90200938	6	129930729	C	T	8272	0.09	0.02	0.00	0.00	21.47
rs17654729	Alpha-ketoglutarate to alanine	GCST90200938	7	17494190	A	T	8272	-0.07	0.02	0.00	0.00	21.74
rs74431981	Alpha-ketoglutarate to alanine	GCST90200938	7	98553727	C	T	8272	-0.37	0.08	0.00	0.00	22.55
rs392212	Alpha-ketoglutarate to alanine	GCST90200938	11	2905265	G	A	8272	-0.10	0.02	0.00	0.00	19.84
rs2450252	Alpha-ketoglutarate to alanine	GCST90200938	11	69619504	T	C	8272	0.15	0.03	0.00	0.00	21.88
rs61921560	Alpha-ketoglutarate to alanine	GCST90200938	12	65674396	T	A	8272	-0.24	0.05	0.00	0.00	19.92
rs117918960	Alpha-ketoglutarate to alanine	GCST90200938	13	61294012	A	T	8272	-0.50	0.11	0.00	0.00	21.67
rs1828633	Alpha-ketoglutarate to alanine	GCST90200938	13	83251577	G	A	8272	0.07	0.02	0.00	0.00	20.60
rs11638648	Alpha-ketoglutarate to alanine	GCST90200938	15	97351060	G	A	8272	0.07	0.02	0.00	0.00	22.67
rs7191110	Alpha-ketoglutarate to alanine	GCST90200938	16	84259070	A	G	8272	0.08	0.02	0.00	0.00	20.19
rs2661610	Alpha-ketoglutarate to alanine	GCST90200938	17	73711538	T	A	8272	0.09	0.02	0.00	0.00	20.93
rs4941126	Alpha-ketoglutarate to alanine	GCST90200938	18	62330496	C	G	8272	0.07	0.02	0.00	0.00	19.85
rs62128848	Alpha-ketoglutarate to alanine	GCST90200938	19	1266472	T	G	8272	-0.22	0.05	0.00	0.00	23.42
rs6124830	Alpha-ketoglutarate to alanine	GCST90200938	20	46608139	C	T	8272	0.15	0.02	0.00	0.01	58.00
rs11585117	trans-4-hydroxyproline ratio	GCST90200939	1	168997425	A	G	8194	0.14	0.03	0.00	0.00	20.21
rs17091682	Proline to trans-4-hydroxyproline ratio	GCST90200939	2	1442624	G	T	8194	0.19	0.04	0.00	0.00	19.89

rs759456	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	2	64967168	G	T	8194	0.07	0.02	0.00	0.00	19.68
rs12692690	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	2	163432469	T	C	8194	-0.22	0.05	0.00	0.00	19.74
rs9868827	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	3	7317050	T	C	8194	-0.33	0.07	0.00	0.00	20.03
rs3775116	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	4	903210	G	A	8194	0.09	0.02	0.00	0.00	20.55
rs77925265	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	4	24694785	A	C	8194	-0.23	0.05	0.00	0.00	19.86
rs9312682	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	4	57193186	C	T	8194	0.08	0.02	0.00	0.00	24.34
rs78965863	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	4	121987950	C	T	8194	-0.26	0.06	0.00	0.00	21.65
rs73029551	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	6	158491194	T	C	8194	0.22	0.05	0.00	0.00	19.55
rs35757923	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	6	161417319	A	G	8194	0.11	0.02	0.00	0.00	20.52
rs56364647	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	7	8952143	G	C	8194	-0.23	0.05	0.00	0.00	23.15
rs11695980 8	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	7	78959452	G	T	8194	0.27	0.06	0.00	0.00	21.07
rs11765725 3	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	11	13909299	A	G	8194	0.29	0.06	0.00	0.00	20.59
rs7133203	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	12	48489882	T	C	8194	0.18	0.04	0.00	0.00	20.75
rs18924052 6	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	13	82669669	G	A	8194	0.13	0.03	0.00	0.00	23.21
rs6571966	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	14	39836794	G	C	8194	0.08	0.02	0.00	0.00	20.93
rs61992844	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	14	85800278	C	T	8194	0.07	0.02	0.00	0.00	21.43
rs75072041	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	16	3493734	G	C	8194	0.25	0.06	0.00	0.00	19.81
rs80099381	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	16	10179679	T	G	8194	-0.14	0.03	0.00	0.00	21.41

rs190181858	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	18	1636360	C	T	8194	-0.24	0.05	0.00	0.00	24.05
rs73010255	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	19	20658159	A	G	8194	-0.13	0.03	0.00	0.00	21.11
rs146774300	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	19	31126655	T	C	8194	0.29	0.06	0.00	0.00	19.61
rs55962597	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	20	46343504	T	C	8194	0.15	0.03	0.00	0.00	20.82
rs2518814	Proline to trans-4- hydroxyprolin e ratio	GCST90200939	22	18973132	T	C	8194	0.25	0.03	0.00	0.01	87.96
rs12130095	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	1	48236268	T	C	4563	0.21	0.05	0.00	0.00	19.92
rs7547892	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	1	84192908	A	G	4563	-0.09	0.02	0.00	0.00	19.93
rs116974459	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	1	162376534	A	C	4563	-0.39	0.08	0.00	0.00	21.69
rs80332390	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	2	234191055	C	A	4563	0.31	0.06	0.00	0.01	25.75
rs111793337	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	3	7937629	A	G	4563	0.26	0.06	0.00	0.00	20.32
rs9683165	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	3	10297453	T	C	4563	-0.10	0.02	0.00	0.00	20.51
rs113592495	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	3	49109223	G	T	4563	0.13	0.03	0.00	0.00	20.14
rs142622373	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	3	118567183	T	C	4563	-0.16	0.04	0.00	0.00	20.31
rs145408181	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	3	133410310	C	T	4563	0.28	0.06	0.00	0.00	19.60
rs10236510	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	7	119632797	A	G	4563	-0.13	0.03	0.00	0.00	21.95
rs10503585	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	8	16856688	C	T	4563	-0.09	0.02	0.00	0.00	19.62
rs35646721	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	8	64262496	C	T	4563	-0.13	0.03	0.00	0.00	20.01
rs7829662	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	8	100846652	G	T	4563	-0.14	0.03	0.00	0.01	23.82

rs12003375	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	9	29378733	G	A	4563	0.11	0.02	0.00	0.00	22.30
rs72777711	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	10	11975968	C	A	4563	-0.19	0.04	0.00	0.00	20.81
rs17111843	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	11	110809840	A	T	4563	0.39	0.08	0.00	0.00	20.79
rs11771777 5	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	12	5278207	T	C	4563	-0.36	0.07	0.00	0.01	23.20
rs11173371	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	12	60221195	A	G	4563	-0.09	0.02	0.00	0.00	19.76
rs11811028 5	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	12	76187259	C	T	4563	-0.38	0.08	0.00	0.01	24.59
rs18892062 9	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	12	88777645	C	G	4563	0.64	0.14	0.00	0.00	19.58
rs9567062	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	13	42896966	C	G	4563	0.10	0.02	0.00	0.00	19.68
rs17089550	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	13	72581855	T	C	4563	-0.16	0.04	0.00	0.00	20.19
rs11773952 2	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	13	83396878	G	T	4563	0.37	0.08	0.00	0.00	22.60
rs2181066	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	14	95684913	T	C	4563	0.10	0.02	0.00	0.00	21.44
rs10468503	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	17	54661426	G	A	4563	0.13	0.03	0.00	0.00	21.52
rs76209394	Adenosine 5'- diphosphate (ADP) to EDTA ratio	GCST90200940	21	42119054	T	C	4563	-0.21	0.05	0.00	0.00	19.51
rs11693249	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	2	19581137	A	G	8198	0.09	0.02	0.00	0.00	22.73
rs77188442	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	2	34634757	A	G	8198	0.11	0.02	0.00	0.00	20.51
rs7604550	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	2	44262592	T	C	8198	-0.09	0.02	0.00	0.00	22.84
rs62180878	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	2	239373877	T	C	8198	0.08	0.02	0.00	0.00	21.74
rs6773257	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	3	115653313	G	A	8198	0.08	0.02	0.00	0.00	19.61

rs55988996	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	5	38414925	T	C	8198	0.10	0.02	0.00	0.00	22.19
rs55784833	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	6	93191612	G	A	8198	0.13	0.03	0.00	0.00	21.82
rs11799359 7	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	7	41327918	C	T	8198	-0.31	0.07	0.00	0.00	20.38
rs74563685	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	9	7592809	C	A	8198	0.19	0.04	0.00	0.00	19.89
rs18761898 3	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	10	125249263	G	A	8198	-0.80	0.18	0.00	0.00	20.16
rs2406753	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	12	87360805	G	A	8198	-0.17	0.03	0.00	0.00	33.25
rs2992901	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	13	95420339	A	T	8198	0.07	0.02	0.00	0.00	21.59
rs7152046	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	14	33729313	C	T	8198	0.08	0.02	0.00	0.00	23.27
rs12446182	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	16	5875551	T	C	8198	0.09	0.02	0.00	0.00	21.62
rs14180100 8	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	19	10264276	T	C	8198	-0.37	0.08	0.00	0.00	21.63
rs80303896	Succinate to trans-4- hydroxyprolin e ratio	GCST90200941	19	35782308	C	A	8198	-0.16	0.04	0.00	0.00	21.21
rs79831608	Glutamate to pyruvate ratio	GCST90200942	2	14961754	C	T	8188	-0.09	0.02	0.00	0.00	22.78
rs6724569	Glutamate to pyruvate ratio	GCST90200942	2	135759400	A	G	8188	-0.09	0.02	0.00	0.00	20.69
rs11352284 3	Glutamate to pyruvate ratio	GCST90200942	2	215555683	A	G	8188	-0.33	0.07	0.00	0.00	20.69
rs5186	Glutamate to pyruvate ratio	GCST90200942	3	148742201	C	A	8188	0.07	0.02	0.00	0.00	19.59
rs7686257	Glutamate to pyruvate ratio	GCST90200942	4	40677709	C	G	8188	-0.07	0.02	0.00	0.00	22.38
rs7682527	Glutamate to pyruvate ratio	GCST90200942	4	170969252	T	A	8188	-0.14	0.03	0.00	0.00	21.37
rs62354638	Glutamate to pyruvate ratio	GCST90200942	5	36638487	A	G	8188	-0.23	0.04	0.00	0.00	28.62
rs62371852	Glutamate to pyruvate ratio	GCST90200942	5	83001819	T	C	8188	-0.10	0.02	0.00	0.00	22.07
rs11949089	Glutamate to pyruvate ratio	GCST90200942	5	150960393	G	A	8188	-0.10	0.02	0.00	0.00	19.94
rs2242416	Glutamate to pyruvate ratio	GCST90200942	6	43305866	G	A	8188	0.07	0.01	0.00	0.00	19.59
rs77196322	Glutamate to pyruvate ratio	GCST90200942	6	80626883	C	A	8188	0.12	0.03	0.00	0.00	21.52
rs4437512	Glutamate to pyruvate ratio	GCST90200942	6	120722793	T	C	8188	-0.24	0.05	0.00	0.00	19.53
rs995207	Glutamate to pyruvate ratio	GCST90200942	6	135713539	G	A	8188	0.07	0.02	0.00	0.00	21.19
rs11457191 8	Glutamate to pyruvate ratio	GCST90200942	6	144540514	T	C	8188	0.32	0.07	0.00	0.00	20.19
rs11252089 5	Glutamate to pyruvate ratio	GCST90200942	7	21367197	A	G	8188	0.30	0.06	0.00	0.00	22.06

rs28571765	Glutamate to pyruvate ratio	GCST90200942	8	54536721	C	T	8188	0.09	0.02	0.00	0.00	21.90
rs11146486	Glutamate to pyruvate ratio	GCST90200942	10	132737657	A	C	8188	-0.29	0.06	0.00	0.00	19.87
rs146456494	Glutamate to pyruvate ratio	GCST90200942	11	69963621	C	T	8188	0.29	0.06	0.00	0.00	22.66
rs1330056	Glutamate to pyruvate ratio	GCST90200942	13	85888450	A	G	8188	-0.08	0.02	0.00	0.00	22.17
rs9516359	Glutamate to pyruvate ratio	GCST90200942	13	94149312	C	G	8188	0.13	0.03	0.00	0.00	21.04
rs3011524	Glutamate to pyruvate ratio	GCST90200942	13	113018038	C	A	8188	0.10	0.02	0.00	0.00	19.53
rs7149583	Glutamate to pyruvate ratio	GCST90200942	14	70512526	A	G	8188	0.20	0.04	0.00	0.00	22.55
rs113975894	Glutamate to pyruvate ratio	GCST90200942	18	56819765	A	G	8188	-0.32	0.07	0.00	0.00	19.88
rs113395448	Glutamate to pyruvate ratio	GCST90200942	20	5804262	T	C	8188	-0.48	0.10	0.00	0.00	21.14
rs78350689	Glutamate to pyruvate ratio	GCST90200942	20	18599724	C	T	8188	0.13	0.03	0.00	0.00	21.66
rs928309	Glutamate to pyruvate ratio	GCST90200942	21	44985082	G	A	8188	0.09	0.02	0.00	0.00	25.27
rs135586	Glutamate to pyruvate ratio	GCST90200942	22	47602335	G	T	8188	-0.07	0.01	0.00	0.00	19.58
rs12132412	Phosphate to EDTA ratio	GCST90200943	1	21493549	G	A	8225	0.07	0.02	0.00	0.00	22.53
rs17378118	Phosphate to EDTA ratio	GCST90200943	1	61647589	T	C	8225	0.22	0.05	0.00	0.00	20.02
rs1777451	Phosphate to EDTA ratio	GCST90200943	1	108035560	A	G	8225	0.08	0.02	0.00	0.00	28.48
rs75563574	Phosphate to EDTA ratio	GCST90200943	2	195436162	A	G	8225	0.25	0.05	0.00	0.00	20.04
rs78613266	Phosphate to EDTA ratio	GCST90200943	2	212695652	C	T	8225	0.10	0.02	0.00	0.00	23.58
rs28588878	Phosphate to EDTA ratio	GCST90200943	4	130301983	T	C	8225	0.25	0.05	0.00	0.00	22.03
rs1450383	Phosphate to EDTA ratio	GCST90200943	4	162397239	C	T	8225	-0.15	0.03	0.00	0.00	21.27
rs954689	Phosphate to EDTA ratio	GCST90200943	5	40529552	T	C	8225	0.13	0.03	0.00	0.00	20.00
rs138125831	Phosphate to EDTA ratio	GCST90200943	7	91057930	G	C	8225	0.08	0.02	0.00	0.00	20.96
rs73211395	Phosphate to EDTA ratio	GCST90200943	8	21119122	A	G	8225	0.11	0.02	0.00	0.00	20.79
rs10758909	Phosphate to EDTA ratio	GCST90200943	9	7852939	A	G	8225	0.09	0.02	0.00	0.00	20.24
rs28550603	Phosphate to EDTA ratio	GCST90200943	9	88748689	C	A	8225	0.08	0.02	0.00	0.00	20.72
rs140412810	Phosphate to EDTA ratio	GCST90200943	10	87205358	A	G	8225	0.19	0.04	0.00	0.00	21.50
rs11594462	Phosphate to EDTA ratio	GCST90200943	10	104418069	C	T	8225	-0.10	0.02	0.00	0.00	25.68
rs150215836	Phosphate to EDTA ratio	GCST90200943	11	108352269	G	T	8225	-0.44	0.10	0.00	0.00	20.77
rs12888546	Phosphate to EDTA ratio	GCST90200943	14	34207929	A	T	8225	-0.08	0.02	0.00	0.00	20.41
rs2729582	Phosphate to EDTA ratio	GCST90200943	16	1112013	A	C	8225	0.08	0.02	0.00	0.00	20.66
rs9319580	Phosphate to EDTA ratio	GCST90200943	16	82931749	G	T	8225	-0.10	0.02	0.00	0.00	19.56
rs600730	Phosphate to EDTA ratio	GCST90200943	19	50244171	A	G	8225	-0.10	0.02	0.00	0.00	24.15
rs6017943	Phosphate to EDTA ratio	GCST90200943	20	37349094	T	C	8225	0.08	0.02	0.00	0.00	20.89
rs135237	Phosphate to EDTA ratio	GCST90200943	22	49122304	C	T	8225	-0.07	0.01	0.00	0.00	22.07
rs7565970	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	2	384221	C	G	8272	0.17	0.04	0.00	0.00	21.14
rs76201901	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	2	67946531	G	A	8272	0.16	0.03	0.00	0.00	20.75

rs10169127	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	2	239645640	T	C	8272	-0.27	0.06	0.00	0.00	21.78
rs144067701	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	3	36509326	T	C	8272	0.13	0.02	0.00	0.00	27.08
rs9836544	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	3	171464636	C	G	8272	0.07	0.02	0.00	0.00	20.40
rs2048070	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	4	11187350	A	G	8272	0.07	0.02	0.00	0.00	23.25
rs58238824	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	4	136496654	C	G	8272	0.08	0.02	0.00	0.00	21.71
rs79273016	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	4	187661414	C	T	8272	0.17	0.04	0.00	0.00	22.01
rs115877358	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	5	119364316	G	A	8272	0.33	0.06	0.00	0.00	27.46
rs642168	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	7	51853969	A	G	8272	0.07	0.02	0.00	0.00	19.99
rs187375676	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	7	98633957	C	T	8272	-0.30	0.06	0.00	0.00	21.40
rs73189207	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	7	108363351	A	G	8272	0.54	0.12	0.00	0.00	20.71
rs11139018	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	9	81083149	C	G	8272	0.10	0.02	0.00	0.00	19.83
rs4414376	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	13	46935182	T	A	8272	-0.07	0.02	0.00	0.00	19.61
rs114243909	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	15	25780547	T	C	8272	0.19	0.04	0.00	0.00	20.01
rs35893636	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	17	39057696	G	A	8272	-0.18	0.04	0.00	0.00	23.17
rs6124830	Alpha-ketoglutarate to pyruvate ratio	GCST90200944	20	46608139	C	T	8272	0.17	0.02	0.00	0.01	73.34
rs11205832	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	1	51331971	A	G	8179	-0.22	0.05	0.00	0.00	20.75
rs4643516	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	2	35330201	G	C	8179	0.09	0.02	0.00	0.00	26.58
rs191202003	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	2	158330308	T	G	8179	-0.35	0.08	0.00	0.00	21.84

rs75008620	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	2	233082285	T	C	8179	-0.26	0.06	0.00	0.00	20.42
rs60110084	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	3	8695451	G	A	8179	-0.14	0.03	0.00	0.00	20.21
rs189803762	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	3	23563455	T	A	8179	-0.47	0.10	0.00	0.00	19.96
rs9327365	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	5	125714753	A	G	8179	-0.07	0.02	0.00	0.00	19.83
rs248477	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	5	141779893	C	A	8179	0.16	0.04	0.00	0.00	20.29
rs2395568	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	6	34517343	G	A	8179	-0.23	0.05	0.00	0.00	21.96
rs9497167	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	6	144999331	G	A	8179	-0.12	0.03	0.00	0.00	19.53
rs144521401	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	10	27033031	T	C	8179	0.19	0.04	0.00	0.00	19.82
rs2264772	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	12	116440229	G	C	8179	0.08	0.02	0.00	0.00	19.60
rs7490087	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	13	37953200	A	C	8179	-0.08	0.02	0.00	0.00	24.40
rs75039646	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	16	17540208	A	C	8179	0.14	0.03	0.00	0.00	20.38
rs2914354	Adenosine 5'-monophosphate (AMP) to EDTA ratio	GCST90200945	19	53276343	C	A	8179	-0.07	0.02	0.00	0.00	19.61
rs77879039	Glutamate to alanine ratio	GCST90200946	2	14191132	A	C	8172	-0.11	0.02	0.00	0.00	20.62
rs60253740	Glutamate to alanine ratio	GCST90200946	2	135814282	T	G	8172	-0.10	0.02	0.00	0.00	24.81
rs79200035	Glutamate to alanine ratio	GCST90200946	2	168076910	G	C	8172	0.27	0.06	0.00	0.00	20.28
rs6808123	Glutamate to alanine ratio	GCST90200946	3	61100523	G	A	8172	0.07	0.02	0.00	0.00	19.79
rs62291492	Glutamate to alanine ratio	GCST90200946	3	132602398	T	G	8172	-0.23	0.05	0.00	0.00	20.29
rs2071703	Glutamate to alanine ratio	GCST90200946	4	3239686	C	A	8172	-0.07	0.02	0.00	0.00	21.69
rs7696613	Glutamate to alanine ratio	GCST90200946	4	40676065	T	C	8172	-0.07	0.02	0.00	0.00	24.00
rs62354638	Glutamate to alanine ratio	GCST90200946	5	36638487	A	G	8172	-0.26	0.04	0.00	0.00	37.38
rs299378	Glutamate to alanine ratio	GCST90200946	5	135009239	G	C	8172	0.14	0.03	0.00	0.00	21.68
rs112520895	Glutamate to alanine ratio	GCST90200946	7	21367197	A	G	8172	0.28	0.06	0.00	0.00	19.53
rs6963576	Glutamate to alanine ratio	GCST90200946	7	40884765	T	C	8172	0.18	0.04	0.00	0.00	20.47
rs117386835	Glutamate to alanine ratio	GCST90200946	8	124348564	C	G	8172	-0.35	0.08	0.00	0.00	20.63
rs111904790	Glutamate to alanine ratio	GCST90200946	10	80539754	A	G	8172	0.32	0.07	0.00	0.00	20.58

rs72896032	Glutamate to alanine ratio	GCST90200946	11	32345847	C	T	8172	0.23	0.05	0.00	0.00	19.85
rs11228838	Glutamate to alanine ratio	GCST90200946	11	56910511	C	A	8172	0.11	0.02	0.00	0.00	23.91
rs7934281	Glutamate to alanine ratio	GCST90200946	11	98969352	G	A	8172	0.07	0.02	0.00	0.00	19.70
rs79927930	Glutamate to alanine ratio	GCST90200946	15	53259237	T	C	8172	0.21	0.05	0.00	0.00	20.67
rs6498990	Glutamate to alanine ratio	GCST90200946	16	52641140	G	A	8172	-0.10	0.02	0.00	0.00	23.29
rs13331697	Glutamate to alanine ratio	GCST90200946	16	81877235	A	G	8172	0.17	0.04	0.00	0.00	20.30
rs16961756	Glutamate to alanine ratio	GCST90200946	17	17456305	G	A	8172	-0.15	0.03	0.00	0.00	27.72
rs13418036	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	2	141477532	G	C	4581	-0.09	0.02	0.00	0.00	20.68
rs80332390	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	2	234191055	C	A	4581	0.30	0.06	0.00	0.01	23.29
rs76793825	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	4	90118051	A	G	4581	-0.13	0.03	0.00	0.00	19.80
rs12154017	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	6	10974455	A	G	4581	0.12	0.03	0.00	0.00	20.42
rs10236510	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	7	119632797	A	G	4581	-0.13	0.03	0.00	0.01	24.18
rs75357232	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	8	20583937	G	A	4581	-0.18	0.04	0.00	0.00	20.05
rs7829662	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	8	100846652	G	T	4581	-0.15	0.03	0.00	0.01	25.98
rs4490854	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	8	143435722	A	G	4581	-0.17	0.04	0.00	0.00	19.95
rs12003375	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	9	29378733	G	A	4581	0.11	0.02	0.00	0.01	23.96
rs77761367	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	10	24742356	A	G	4581	0.26	0.06	0.00	0.00	20.56
rs11784790	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	11	121728732	T	C	4581	-0.41	0.09	0.00	0.00	21.57
6												
rs3741975	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	12	1591768	A	G	4581	-0.40	0.08	0.00	0.01	23.50
rs1461567	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	12	43770886	A	G	4581	-0.10	0.02	0.00	0.00	19.76
rs1426466	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	12	107378790	C	T	4581	-0.12	0.03	0.00	0.00	20.15
rs61951313	Adenosine 5'-diphosphate (ADP) to glucose ratio	GCST90200947	12	132760645	C	T	4581	0.18	0.04	0.00	0.00	21.97

rs11849211	Adenosine 5'- diphosphate (ADP) to glucose ratio	GCST90200947	14	95335809	A	G	4581	-0.13	0.03	0.00	0.00	21.39
rs2181066	Adenosine 5'- diphosphate (ADP) to glucose ratio	GCST90200947	14	95684913	T	C	4581	0.10	0.02	0.00	0.00	20.25
rs10468503	Adenosine 5'- diphosphate (ADP) to glucose ratio	GCST90200947	17	54661426	G	A	4581	0.14	0.03	0.00	0.01	24.31
rs587449	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	1	181477189	C	G	4566	0.25	0.05	0.00	0.01	23.73
rs1998843	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	1	198663227	T	C	4566	-0.10	0.02	0.00	0.00	20.07
rs37707799 3	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	2	64257521	T	C	4566	-0.25	0.05	0.00	0.01	23.08
rs1961702	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	2	167974511	A	T	4566	-0.09	0.02	0.00	0.00	19.55
rs14285681 6	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	2	183494626	T	C	4566	0.43	0.09	0.00	0.00	21.87
rs4852102	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	2	239672054	G	A	4566	0.10	0.02	0.00	0.00	22.33
rs79237419	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	3	114439871	G	T	4566	-0.21	0.05	0.00	0.00	21.79
rs14185644 5	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	3	130914962	A	G	4566	0.44	0.10	0.00	0.00	21.27
rs224945	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	5	82418644	T	C	4566	0.20	0.04	0.00	0.00	20.85
rs11723248 3	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	7	144387050	C	T	4566	0.32	0.07	0.00	0.00	19.64
rs2623702	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	8	3737384	C	T	4566	0.19	0.04	0.00	0.00	20.82
rs10738651	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio	GCST90200948	9	23110427	C	G	4566	-0.11	0.02	0.00	0.00	20.96

rs78633935	Adenosine 5'- diphosphate (ADP) to mannitol to sorbitol ratio Adenosine 5'- diphosphate	GCST90200948	10	3690265	A	T	4566	0.59	0.12	0.00	0.00	22.52
rs78335536	(ADP) to mannitol to sorbitol ratio Adenosine 5'- diphosphate	GCST90200948	10	33610738	G	T	4566	0.14	0.03	0.00	0.00	19.68
rs2083631	(ADP) to mannitol to sorbitol ratio Adenosine 5'- diphosphate	GCST90200948	11	13806805	T	C	4566	-0.10	0.02	0.00	0.01	23.21
rs2509958	(ADP) to mannitol to sorbitol ratio Adenosine 5'- diphosphate	GCST90200948	11	62465111	G	T	4566	0.26	0.06	0.00	0.00	20.85
rs34908850	(ADP) to mannitol to sorbitol ratio Adenosine 5'- diphosphate	GCST90200948	14	23003750	G	A	4566	0.11	0.02	0.00	0.00	19.87
rs79911460	(ADP) to mannitol to sorbitol ratio Adenosine 5'- diphosphate	GCST90200948	14	37280945	G	A	4566	-0.22	0.05	0.00	0.00	20.03
rs35104864	(ADP) to mannitol to sorbitol ratio Adenosine 5'- diphosphate	GCST90200948	17	79717779	G	A	4566	0.14	0.03	0.00	0.00	20.46
rs74496934	(ADP) to mannitol to sorbitol ratio Adenosine 5'- diphosphate	GCST90200948	18	22528863	T	C	4566	0.23	0.05	0.00	0.00	20.60
rs14344715 7	(ADP) to mannitol to sorbitol ratio Adenosine 5'- diphosphate	GCST90200948	18	45557035	T	C	4566	0.36	0.08	0.00	0.00	19.89
rs2011040	(ADP) to mannitol to sorbitol ratio Adenosine 5'- diphosphate	GCST90200948	18	75640379	C	T	4566	0.13	0.03	0.00	0.00	21.20
rs35540647	(ADP) to N- acetylneurami nate ratio Adenosine 5'- diphosphate	GCST90200949	1	170010689	C	G	4553	0.26	0.05	0.00	0.01	27.32
rs73045704	(ADP) to N- acetylneurami nate ratio Adenosine 5'- diphosphate	GCST90200949	1	182996504	T	C	4553	-0.59	0.09	0.00	0.01	40.93
rs11695023	(ADP) to N- acetylneurami nate ratio Adenosine 5'- diphosphate	GCST90200949	2	85442398	A	C	4553	0.09	0.02	0.00	0.00	20.07
rs1837253	(ADP) to N- acetylneurami nate ratio	GCST90200949	5	111066174	C	T	4553	-0.12	0.02	0.00	0.01	24.62

rs12195587	Adenosine 5'- diphosphate (ADP) to N- acetylneurami nate ratio	GCST90200949	6	10989709	A	G	4553	0.13	0.03	0.00	0.00	21.71
rs12207179	Adenosine 5'- diphosphate (ADP) to N- acetylneurami nate ratio	GCST90200949	6	36758526	T	G	4553	-0.13	0.03	0.00	0.00	22.20
rs11309888 7	Adenosine 5'- diphosphate (ADP) to N- acetylneurami nate ratio	GCST90200949	6	83844353	A	C	4553	0.41	0.09	0.00	0.00	21.38
rs18226189 3	Adenosine 5'- diphosphate (ADP) to N- acetylneurami nate ratio	GCST90200949	9	81798236	C	A	4553	-0.71	0.16	0.00	0.00	19.96
rs11771777 5	Adenosine 5'- diphosphate (ADP) to N- acetylneurami nate ratio	GCST90200949	12	5278207	T	C	4553	-0.35	0.08	0.00	0.00	21.47
rs11811028 5	Adenosine 5'- diphosphate (ADP) to N- acetylneurami nate ratio	GCST90200949	12	76187259	C	T	4553	-0.35	0.08	0.00	0.00	20.74
rs11645759	Adenosine 5'- diphosphate (ADP) to N- acetylneurami nate ratio	GCST90200949	16	4400990	T	C	4553	0.33	0.07	0.00	0.00	20.35
rs11203639 4	Adenosine 5'- diphosphate (ADP) to N- acetylneurami nate ratio	GCST90200949	16	4812786	C	T	4553	-0.14	0.03	0.00	0.01	24.64
rs3213876	Adenosine 5'- diphosphate (ADP) to N- acetylneurami nate ratio	GCST90200949	18	75472023	C	T	4553	-0.11	0.02	0.00	0.01	23.29
rs14267909 5	Adenosine 5'- diphosphate (ADP) to N- acetylneurami nate ratio	GCST90200949	19	10470821	T	G	4553	0.37	0.08	0.00	0.00	19.96
rs6094799	Adenosine 5'- diphosphate (ADP) to N- acetylneurami nate ratio	GCST90200949	20	47740904	A	G	4553	-0.26	0.06	0.00	0.00	19.88
rs18324559 9	Adenosine 5'- diphosphate (ADP) to N- acetylneurami nate ratio	GCST90200949	22	36143601	C	T	4553	0.33	0.07	0.00	0.00	20.61
rs72686493	Glucose to mannitol to sorbitol ratio	GCST90200950	1	45478527	G	A	8254	0.13	0.03	0.00	0.00	21.61
rs12047480	Glucose to mannitol to sorbitol ratio	GCST90200950	1	198666127	G	A	8254	-0.08	0.02	0.00	0.00	25.62
rs2037033	Glucose to mannitol to sorbitol ratio	GCST90200950	2	123624786	C	T	8254	-0.09	0.02	0.00	0.00	21.59
rs11133511 9	Glucose to mannitol to sorbitol ratio	GCST90200950	2	159985603	T	C	8254	0.36	0.08	0.00	0.00	20.34

rs75415613	Glucose to mannitol to sorbitol ratio	GCST90200950	3	32081402	A	G	8254	0.23	0.05	0.00	0.00	19.76
rs11733003	Glucose to mannitol to sorbitol ratio	GCST90200950	4	163757520	T	C	8254	-0.23	0.05	0.00	0.00	21.39
rs10042053	Glucose to mannitol to sorbitol ratio	GCST90200950	5	9835391	C	T	8254	-0.12	0.03	0.00	0.00	21.28
rs2963859	Glucose to mannitol to sorbitol ratio	GCST90200950	5	175579005	G	A	8254	0.10	0.02	0.00	0.00	23.08
rs73104508	Glucose to mannitol to sorbitol ratio	GCST90200950	7	32151985	G	A	8254	-0.25	0.06	0.00	0.00	20.15
rs73221998	Glucose to mannitol to sorbitol ratio	GCST90200950	7	95244465	C	G	8254	0.12	0.03	0.00	0.00	20.93
rs7841560	Glucose to mannitol to sorbitol ratio	GCST90200950	8	126577109	C	T	8254	-0.08	0.02	0.00	0.00	20.45
rs192946539	Glucose to mannitol to sorbitol ratio	GCST90200950	8	143328582	A	G	8254	-0.33	0.07	0.00	0.00	21.44
rs11030081	Glucose to mannitol to sorbitol ratio	GCST90200950	11	27618296	T	G	8254	-0.21	0.05	0.00	0.00	21.44
rs147183690	Glucose to mannitol to sorbitol ratio	GCST90200950	12	64914043	T	C	8254	-0.38	0.08	0.00	0.00	24.13
rs79104320	Glucose to mannitol to sorbitol ratio	GCST90200950	13	42877186	T	C	8254	0.10	0.02	0.00	0.00	20.39
rs3209531	Glucose to mannitol to sorbitol ratio	GCST90200950	14	20286553	A	G	8254	-0.11	0.02	0.00	0.00	22.98
rs113013161	Glucose to mannitol to sorbitol ratio	GCST90200950	14	56767755	C	T	8254	0.12	0.03	0.00	0.00	22.78
rs4923799	Glucose to mannitol to sorbitol ratio	GCST90200950	15	38522176	C	G	8254	-0.11	0.02	0.00	0.00	21.27
rs189592920	Glucose to mannitol to sorbitol ratio	GCST90200950	15	60132516	A	G	8254	-0.70	0.15	0.00	0.00	22.44
rs79643948	Glucose to mannitol to sorbitol ratio	GCST90200950	16	31878681	C	T	8254	0.24	0.05	0.00	0.00	20.02
rs117926511	Glucose to mannitol to sorbitol ratio	GCST90200950	16	61708280	T	C	8254	0.17	0.04	0.00	0.00	23.34
rs4620955	Glucose to mannitol to sorbitol ratio	GCST90200950	16	90028089	T	C	8254	-0.12	0.03	0.00	0.00	19.51
rs12937941	Glucose to mannitol to sorbitol ratio	GCST90200950	17	62828511	C	T	8254	0.08	0.02	0.00	0.00	22.15
rs67860080	Glucose to mannitol to sorbitol ratio	GCST90200950	18	5265849	A	G	8254	0.10	0.02	0.00	0.00	23.70
rs142856666	Glucose to mannitol to sorbitol ratio	GCST90200950	18	21650201	T	A	8254	0.31	0.07	0.00	0.00	19.99
rs79290735	Glucose to mannitol to sorbitol ratio	GCST90200950	19	10641576	G	A	8254	-0.19	0.04	0.00	0.00	19.69
rs150071634	Mannose to fructose ratio	GCST90200951	1	235424954	G	T	8202	0.31	0.07	0.00	0.00	22.24
rs1260326	Mannose to fructose ratio	GCST90200951	2	27508073	C	T	8202	0.10	0.02	0.00	0.00	40.21
rs60262967	Mannose to fructose ratio	GCST90200951	2	237882913	C	T	8202	0.08	0.02	0.00	0.00	21.15
rs116683076	Mannose to fructose ratio	GCST90200951	4	7139272	T	C	8202	-0.21	0.05	0.00	0.00	20.19

rs4241918	Mannose to fructose ratio	GCST90200951	4	138711821	C	T	8202	-0.08	0.02	0.00	0.00	24.26
rs114726275	Mannose to fructose ratio	GCST90200951	4	181487824	T	C	8202	-0.21	0.05	0.00	0.00	20.42
rs4703405	Mannose to fructose ratio	GCST90200951	5	34388320	T	C	8202	-0.07	0.02	0.00	0.00	21.89
rs7703176	Mannose to fructose ratio	GCST90200951	5	135266018	C	A	8202	-0.07	0.02	0.00	0.00	21.99
rs9492067	Mannose to fructose ratio	GCST90200951	6	128738518	C	T	8202	0.11	0.02	0.00	0.00	21.10
rs77046718	Mannose to fructose ratio	GCST90200951	6	158872861	A	G	8202	0.27	0.06	0.00	0.00	21.03
rs10956699	Mannose to fructose ratio	GCST90200951	8	133276340	A	G	8202	-0.07	0.02	0.00	0.00	20.13
rs79405811	Mannose to fructose ratio	GCST90200951	13	31551799	A	G	8202	0.28	0.05	0.00	0.00	29.82
rs79544279	Mannose to fructose ratio	GCST90200951	13	97173521	C	T	8202	0.25	0.06	0.00	0.00	19.52
rs28445375	Mannose to fructose ratio	GCST90200951	14	77810588	C	T	8202	-0.29	0.06	0.00	0.00	20.56
rs1563654	Mannose to fructose ratio	GCST90200951	16	81470843	C	G	8202	-0.08	0.02	0.00	0.00	19.60
rs2779188	Mannose to fructose ratio	GCST90200951	17	15937180	T	C	8202	0.09	0.02	0.00	0.00	20.80
rs4790980	Mannose to fructose ratio	GCST90200951	17	67442936	C	G	8202	-0.10	0.02	0.00	0.00	22.72
rs76809903	Mannose to fructose ratio	GCST90200951	22	45519777	T	C	8202	-0.18	0.04	0.00	0.00	21.46
rs77838954	Adenosine 5'-diphosphate (ADP) to cytidine ratio	GCST90200952	1	115334455	G	A	4350	0.14	0.03	0.00	0.00	21.39
rs116240720	Adenosine 5'-diphosphate (ADP) to cytidine ratio	GCST90200952	3	150175031	T	C	4350	0.32	0.07	0.00	0.00	20.29
rs6825567	Adenosine 5'-diphosphate (ADP) to cytidine ratio	GCST90200952	4	31301938	A	G	4350	0.21	0.05	0.00	0.00	19.87
rs34685900	Adenosine 5'-diphosphate (ADP) to cytidine ratio	GCST90200952	5	1295688	C	T	4350	0.31	0.07	0.00	0.00	20.01
rs2040797	Adenosine 5'-diphosphate (ADP) to cytidine ratio	GCST90200952	7	10792950	A	G	4350	0.33	0.07	0.00	0.00	19.97
rs117492315	Adenosine 5'-diphosphate (ADP) to cytidine ratio	GCST90200952	7	45684691	T	C	4350	-0.28	0.06	0.00	0.00	20.05
rs1552734	Adenosine 5'-diphosphate (ADP) to cytidine ratio	GCST90200952	7	154526956	C	T	4350	-0.09	0.02	0.00	0.00	19.56
rs79684485	Adenosine 5'-diphosphate (ADP) to cytidine ratio	GCST90200952	8	18382372	A	G	4350	0.39	0.09	0.00	0.00	20.34
rs117571011	Adenosine 5'-diphosphate (ADP) to cytidine ratio	GCST90200952	8	69134758	T	C	4350	0.40	0.08	0.00	0.01	25.23
rs34324388	Adenosine 5'-diphosphate (ADP) to cytidine ratio	GCST90200952	8	85995729	G	A	4350	-0.13	0.03	0.00	0.00	20.72
rs78206273	Adenosine 5'-diphosphate (ADP) to cytidine ratio	GCST90200952	10	29193906	C	T	4350	-0.16	0.04	0.00	0.00	20.56

rs14515517 6	Adenosine 5'- diphosphate (ADP) to cytidine ratio	GCST90200952	11	132263588	T	G	4350	-0.48	0.11	0.00	0.00	19.64
rs1159197	Adenosine 5'- diphosphate (ADP) to cytidine ratio	GCST90200952	13	86348637	T	C	4350	0.10	0.02	0.00	0.00	19.67
rs35901414	Adenosine 5'- diphosphate (ADP) to cytidine ratio	GCST90200952	15	92738839	C	T	4350	-0.16	0.03	0.00	0.00	20.41
rs62054724	Adenosine 5'- diphosphate (ADP) to cytidine ratio	GCST90200952	16	73302646	G	A	4350	-0.17	0.03	0.00	0.01	26.21
rs72796085	Adenosine 5'- diphosphate (ADP) to cytidine ratio	GCST90200952	16	78386564	G	A	4350	-0.18	0.04	0.00	0.00	19.89
rs28635726	Adenosine 5'- diphosphate (ADP) to cytidine ratio	GCST90200952	19	36892796	T	A	4350	-0.54	0.12	0.00	0.00	20.04
rs2281566	Adenosine 5'- diphosphate (ADP) to cytidine ratio	GCST90200952	20	63261160	A	C	4350	-0.11	0.02	0.00	0.01	23.28
rs5763226	Adenosine 5'- diphosphate (ADP) to cytidine ratio	GCST90200952	22	29424241	G	A	4350	0.12	0.03	0.00	0.00	19.99
rs75139539	Glucose-to- mannose ratio	GCST90200953	1	43375311	T	C	8191	-0.22	0.05	0.00	0.00	21.07
rs1260815	Glucose-to- mannose ratio	GCST90200953	1	64036423	G	A	8191	-0.08	0.02	0.00	0.00	19.60
rs4143117	Glucose-to- mannose ratio	GCST90200953	2	20729364	C	T	8191	-0.08	0.02	0.00	0.00	19.71
rs1260326	Glucose-to- mannose ratio	GCST90200953	2	27508073	C	T	8191	-0.28	0.02	0.00	0.04	335.87
rs1434218	Glucose-to- mannose ratio	GCST90200953	2	79328221	G	A	8191	0.08	0.02	0.00	0.00	20.56
rs1868856	Glucose-to- mannose ratio	GCST90200953	2	118807686	G	C	8191	-0.07	0.02	0.00	0.00	20.31
rs74833360	Glucose-to- mannose ratio	GCST90200953	4	121525504	T	C	8191	0.12	0.03	0.00	0.00	23.65
rs13151496	Glucose-to- mannose ratio	GCST90200953	4	177427379	G	A	8191	0.13	0.03	0.00	0.00	21.40
rs56243479	Glucose-to- mannose ratio	GCST90200953	5	38298619	T	C	8191	0.21	0.04	0.00	0.00	21.53
rs10487783	Glucose-to- mannose ratio	GCST90200953	7	14840246	G	T	8191	-0.19	0.04	0.00	0.00	19.96
rs73430632	Glucose-to- mannose ratio	GCST90200953	7	125783917	C	G	8191	-0.24	0.05	0.00	0.00	20.28
rs14489789 7	Glucose-to- mannose ratio	GCST90200953	8	10363964	T	C	8191	0.35	0.08	0.00	0.00	20.20
rs7818895	Glucose-to- mannose ratio	GCST90200953	8	13621800	T	A	8191	-0.07	0.02	0.00	0.00	20.07
rs14643471 1	Glucose-to- mannose ratio	GCST90200953	10	132362470	A	G	8191	-0.29	0.07	0.00	0.00	19.64
rs2897514	Glucose-to- mannose ratio	GCST90200953	11	98936250	A	G	8191	-0.07	0.02	0.00	0.00	20.02
rs977895	Glucose-to- mannose ratio	GCST90200953	12	20138912	C	T	8191	-0.15	0.03	0.00	0.00	20.22
rs11183167	Glucose-to- mannose ratio	GCST90200953	12	45692313	G	A	8191	-0.11	0.02	0.00	0.00	21.86
rs11147164	Glucose-to- mannose ratio	GCST90200953	12	132921288	G	A	8191	0.14	0.03	0.00	0.00	21.80
rs79405811	Glucose-to- mannose ratio	GCST90200953	13	31551799	A	G	8191	-0.23	0.05	0.00	0.00	21.78
rs14069813 9	Glucose-to- mannose ratio	GCST90200953	14	28238027	C	G	8191	0.49	0.11	0.00	0.00	19.96
rs14422687 6	Glucose-to- mannose ratio	GCST90200953	14	92732567	C	T	8191	0.32	0.07	0.00	0.00	20.58

rs11076008	Glucose-to-mannose ratio	GCST90200953	16	53893411	A	G	8191	0.09	0.02	0.00	0.00	19.72
rs8049404	Glucose-to-mannose ratio	GCST90200953	16	86783440	G	A	8191	0.08	0.02	0.00	0.00	22.36
rs172482	Glucose-to-mannose ratio	GCST90200953	17	34500767	G	C	8191	-0.07	0.02	0.00	0.00	19.88
rs60314390	Glucose-to-mannose ratio	GCST90200953	19	57156864	G	C	8191	-0.12	0.03	0.00	0.00	20.91
rs407109	Glucose-to-mannose ratio	GCST90200953	21	14490263	A	G	8191	-0.13	0.03	0.00	0.00	22.50
rs14134104 2	Glucose-to-mannose ratio	GCST90200953	22	49529496	T	G	8191	-0.41	0.09	0.00	0.00	20.50
rs4970565	Cytidine to N-acetylneuraminate ratio	GCST90200954	1	38933975	A	C	7683	-0.08	0.02	0.00	0.00	21.21
rs1577131	Cytidine to N-acetylneuraminate ratio	GCST90200954	1	183161987	G	A	7683	-0.34	0.07	0.00	0.00	24.04
rs14147665 0	Cytidine to N-acetylneuraminate ratio	GCST90200954	2	64245084	G	T	7683	0.31	0.07	0.00	0.00	20.61
rs11693221	Cytidine to N-acetylneuraminate ratio	GCST90200954	2	66572854	T	C	7683	-0.19	0.04	0.00	0.00	22.70
rs14305285 6	Cytidine to N-acetylneuraminate ratio	GCST90200954	2	172125632	C	G	7683	0.20	0.04	0.00	0.00	26.01
rs14903774 3	Cytidine to N-acetylneuraminate ratio	GCST90200954	3	25452009	G	A	7683	-0.25	0.05	0.00	0.00	23.26
rs78599735	Cytidine to N-acetylneuraminate ratio	GCST90200954	3	86326444	G	C	7683	0.10	0.02	0.00	0.00	21.62
rs73210748	Cytidine to N-acetylneuraminate ratio	GCST90200954	4	5943284	A	G	7683	-0.14	0.03	0.00	0.00	24.07
rs4326181	Cytidine to N-acetylneuraminate ratio	GCST90200954	5	160540654	A	G	7683	-0.07	0.02	0.00	0.00	20.03
rs6924385	Cytidine to N-acetylneuraminate ratio	GCST90200954	6	157838120	C	T	7683	-0.08	0.02	0.00	0.00	21.41
rs11708787 4	Cytidine to N-acetylneuraminate ratio	GCST90200954	7	145047208	G	T	7683	-0.21	0.05	0.00	0.00	19.85
rs6992425	Cytidine to N-acetylneuraminate ratio	GCST90200954	8	108536537	T	C	7683	-0.13	0.03	0.00	0.00	20.13
rs305300	Cytidine to N-acetylneuraminate ratio	GCST90200954	8	136659578	G	A	7683	-0.20	0.04	0.00	0.00	22.80
rs7387417	Cytidine to N-acetylneuraminate ratio	GCST90200954	8	141348524	T	C	7683	0.09	0.02	0.00	0.00	20.74
rs1572141	Cytidine to N-acetylneuraminate ratio	GCST90200954	9	119795190	G	A	7683	0.08	0.02	0.00	0.00	19.56
rs3780709	Cytidine to N-acetylneuraminate ratio	GCST90200954	9	130173717	C	G	7683	0.07	0.02	0.00	0.00	20.53
rs12254596	Cytidine to N-acetylneuraminate ratio	GCST90200954	10	13002844	G	C	7683	-0.09	0.02	0.00	0.00	22.52
rs10994144	Cytidine to N-acetylneuraminate ratio	GCST90200954	10	50722333	C	T	7683	-0.09	0.02	0.00	0.00	21.39
rs4980263	Cytidine to N-acetylneuraminate ratio	GCST90200954	10	123122997	A	G	7683	0.12	0.03	0.00	0.00	20.63
rs11712224 0	Cytidine to N-acetylneuraminate ratio	GCST90200954	11	70533977	G	A	7683	0.20	0.04	0.00	0.00	21.00

rs78788136	Cytidine to N-acetylneuraminate ratio	GCST90200954	13	64098012	C	T	7683	0.32	0.07	0.00	0.00	19.78
rs4771501	Cytidine to N-acetylneuraminate ratio	GCST90200954	13	105701875	A	G	7683	-0.09	0.02	0.00	0.00	23.38
rs55990066	Cytidine to N-acetylneuraminate ratio	GCST90200954	15	84955430	C	T	7683	-0.25	0.03	0.00	0.01	56.82
rs8054783	Cytidine to N-acetylneuraminate ratio	GCST90200954	16	13960223	A	G	7683	0.10	0.02	0.00	0.00	21.34
rs72796085	Cytidine to N-acetylneuraminate ratio	GCST90200954	16	78386564	G	A	7683	0.14	0.03	0.00	0.00	20.37
rs117541431	Cytidine to N-acetylneuraminate ratio	GCST90200954	17	74945588	G	C	7683	-0.27	0.06	0.00	0.00	20.61
rs35869548	Cytidine to N-acetylneuraminate ratio	GCST90200954	18	13086495	T	C	7683	0.17	0.04	0.00	0.00	20.18
rs11876110	Cytidine to N-acetylneuraminate ratio	GCST90200954	18	27049395	C	T	7683	0.09	0.02	0.00	0.00	19.53
rs150494941	Cytidine to N-acetylneuraminate ratio	GCST90200954	19	53790243	A	G	7683	0.30	0.06	0.00	0.00	21.06
rs72650873	Adenosine 5'-diphosphate (ADP) to choline phosphate	GCST90200955	1	20691302	G	A	4560	-0.27	0.06	0.00	0.00	22.44
rs898978	Adenosine 5'-diphosphate (ADP) to choline phosphate	GCST90200955	1	38202032	G	T	4560	0.10	0.02	0.00	0.00	21.54
rs35540647	Adenosine 5'-diphosphate (ADP) to choline phosphate	GCST90200955	1	170010689	C	G	4560	0.23	0.05	0.00	0.00	20.38
rs6442990	Adenosine 5'-diphosphate (ADP) to choline phosphate	GCST90200955	3	5784696	T	G	4560	0.12	0.03	0.00	0.00	20.67
rs142622373	Adenosine 5'-diphosphate (ADP) to choline phosphate	GCST90200955	3	118567183	T	C	4560	-0.16	0.04	0.00	0.00	19.64
rs1834709	Adenosine 5'-diphosphate (ADP) to choline phosphate	GCST90200955	4	31376100	A	G	4560	-0.10	0.02	0.00	0.00	21.97
rs182137031	Adenosine 5'-diphosphate (ADP) to choline phosphate	GCST90200955	4	83547453	A	C	4560	-0.45	0.09	0.00	0.00	22.48
rs66582641	Adenosine 5'-diphosphate (ADP) to choline phosphate	GCST90200955	5	62907947	C	T	4560	-0.15	0.03	0.00	0.00	20.32
rs17146662	Adenosine 5'-diphosphate (ADP) to choline phosphate	GCST90200955	5	120475959	G	A	4560	0.13	0.03	0.00	0.00	22.04

rs66628241	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	9	7908256	T	C	4560	0.17	0.04	0.00	0.00	21.61
rs12003375	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	9	29378733	G	A	4560	0.11	0.02	0.00	0.01	24.32
rs10766713	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	11	20699653	C	T	4560	-0.10	0.02	0.00	0.00	19.59
rs10899251	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	11	76677557	G	A	4560	-0.14	0.03	0.00	0.00	19.69
rs11771777 5	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	12	5278207	T	C	4560	-0.37	0.08	0.00	0.01	23.99
rs1461567	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	12	43770886	A	G	4560	-0.11	0.02	0.00	0.01	23.58
rs11810697 2	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	15	42141510	T	C	4560	0.56	0.12	0.00	0.00	21.21
rs11203639 4	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	16	4812786	C	T	4560	-0.14	0.03	0.00	0.00	22.25
rs2322969	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	17	13787437	G	A	4560	-0.09	0.02	0.00	0.00	19.71
rs9913005	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	17	54662205	T	C	4560	0.14	0.03	0.00	0.00	22.07
rs17058444	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	18	75882512	A	C	4560	-0.13	0.02	0.00	0.01	26.14
rs13879552 1	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	19	37799018	A	G	4560	-0.36	0.08	0.00	0.00	19.86
rs14799860 6	Adenosine 5'- diphosphate (ADP) to choline phosphate	GCST90200955	20	43842629	C	T	4560	0.33	0.07	0.00	0.00	21.50
rs12122586	Cytidine to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200956	1	75527093	T	C	7427	-0.17	0.04	0.00	0.00	20.37

rs828476	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	1	230393698	A	G	7427	-0.13	0.03	0.00	0.00	20.05
rs11693221	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	2	66572854	T	C	7427	-0.18	0.04	0.00	0.00	20.91
rs79676729	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	3	179821851	C	T	7427	0.26	0.05	0.00	0.00	23.10
rs4693933	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	4	88217850	T	C	7427	0.08	0.02	0.00	0.00	20.64
rs6886821	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	5	5588539	T	G	7427	-0.16	0.03	0.00	0.00	22.59
rs117768583	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	6	69250628	T	C	7427	-0.39	0.08	0.00	0.00	21.09
rs9497679	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	6	146980266	G	A	7427	-0.07	0.02	0.00	0.00	19.80
rs9478997	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	6	151263638	T	G	7427	-0.15	0.03	0.00	0.00	27.00
rs2076007	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	6	167294271	T	C	7427	-0.17	0.03	0.00	0.01	44.14
rs12544099	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	8	3092515	T	C	7427	-0.31	0.07	0.00	0.00	19.85
rs6992425	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	8	108536537	T	C	7427	-0.14	0.03	0.00	0.00	22.95
rs10787780	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	10	117611109	C	T	7427	-0.07	0.02	0.00	0.00	19.79
rs11040982	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	11	6716748	C	T	7427	0.13	0.03	0.00	0.00	20.24
rs189940211	Cytidine to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200956	13	46029729	T	A	7427	-0.32	0.07	0.00	0.00	19.54

rs71442627	Cytidine to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200956	13	64241286	A	G	7427	0.33	0.07	0.00	0.00	19.62
rs72754978	Cytidine to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200956	15	84961789	C	T	7427	-0.26	0.03	0.00	0.01	57.90
rs12051198	Cytidine to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200956	16	82795871	T	A	7427	-0.07	0.02	0.00	0.00	21.39
rs111292736	Cytidine to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200956	17	77611140	C	G	7427	0.19	0.04	0.00	0.00	19.64
rs10221489	Cytidine to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200956	19	18716165	T	C	7427	0.08	0.02	0.00	0.00	20.86
rs10425645	Cytidine to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200956	19	31328924	A	C	7427	0.11	0.02	0.00	0.00	20.19
rs145900102	N-acetylneuraminate to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200957	1	58350806	G	A	7988	-0.15	0.03	0.00	0.00	19.89
rs3014836	N-acetylneuraminate to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200957	1	153458724	C	T	7988	-0.10	0.02	0.00	0.00	20.22
rs6704003	N-acetylneuraminate to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200957	1	182808231	A	G	7988	-0.15	0.03	0.00	0.00	24.82
rs147824896	N-acetylneuraminate to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200957	1	182959122	C	A	7988	0.56	0.07	0.00	0.01	62.32
rs871085	N-acetylneuraminate to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200957	3	44983641	C	T	7988	-0.08	0.02	0.00	0.00	24.02
rs1354034	N-acetylneuraminate to N-acetylglucosamine to N-acetylglactosamine ratio	GCST90200957	3	56815721	C	T	7988	0.09	0.02	0.00	0.00	28.27

rs283017	N- acetylneurami nate to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200957	4	16729634	C	T	7988	-0.07	0.02	0.00	0.00	20.59
rs17051010	N- acetylneurami nate to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200957	4	120556360	T	A	7988	-0.14	0.03	0.00	0.00	20.59
rs1709422	N- acetylneurami nate to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200957	4	129143723	A	C	7988	0.21	0.02	0.00	0.02	155.03
rs72782911	N- acetylneurami nate to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200957	5	125354639	C	T	7988	0.15	0.03	0.00	0.00	20.12
rs2076007	N- acetylneurami nate to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200957	6	167294271	T	C	7988	-0.38	0.02	0.00	0.03	240.90
rs11365062 1	N- acetylneurami nate to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200957	7	78262859	T	C	7988	0.34	0.08	0.00	0.00	19.84
rs62496919	N- acetylneurami nate to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200957	8	6605467	A	G	7988	-0.15	0.03	0.00	0.00	20.33
rs2565064	N- acetylneurami nate to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200957	8	27470324	G	C	7988	0.08	0.02	0.00	0.00	20.13
rs61397561	N- acetylneurami nate to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200957	11	22107382	A	G	7988	-0.12	0.03	0.00	0.00	20.71
rs17329975	N- acetylneurami nate to N- acetylglucosa mine to N- acetylgalactos amine ratio	GCST90200957	12	25246038	T	C	7988	0.15	0.03	0.00	0.00	20.10

rs761944	N-acetylneuraminate to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200957	14	68585183	G	T	7988	-0.10	0.02	0.00	0.00	21.07
rs10145116	N-acetylneuraminate to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200957	14	95479282	A	G	7988	-0.24	0.05	0.00	0.00	26.56
rs58319566	N-acetylneuraminate to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200957	16	70296041	T	G	7988	-1.33	0.30	0.00	0.00	19.66
rs16959247	N-acetylneuraminate to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200957	19	46396673	A	G	7988	-0.45	0.09	0.00	0.00	23.44
rs34563588	N-acetylneuraminate to N-acetylglucosamine to N-acetylgalactosamine ratio	GCST90200957	20	34268247	C	A	7988	-0.26	0.06	0.00	0.00	21.96
rs35540647	Adenosine 5'-diphosphate (ADP) to choline ratio	GCST90200958	1	170010689	C	G	4560	0.23	0.05	0.00	0.00	21.09
rs35804355	Adenosine 5'-diphosphate (ADP) to choline ratio	GCST90200958	2	140538324	A	G	4560	-0.19	0.04	0.00	0.00	21.02
rs80332390	Adenosine 5'-diphosphate (ADP) to choline ratio	GCST90200958	2	234191055	C	A	4560	0.29	0.06	0.00	0.01	23.17
rs78479492	Adenosine 5'-diphosphate (ADP) to choline ratio	GCST90200958	3	118600849	T	C	4560	-0.17	0.04	0.00	0.00	20.44
rs114175471	Adenosine 5'-diphosphate (ADP) to choline ratio	GCST90200958	4	31309559	T	G	4560	0.22	0.05	0.00	0.00	22.66
rs78257855	Adenosine 5'-diphosphate (ADP) to choline ratio	GCST90200958	5	120473229	T	C	4560	0.14	0.03	0.00	0.00	20.68
rs12195587	Adenosine 5'-diphosphate (ADP) to choline ratio	GCST90200958	6	10989709	A	G	4560	0.13	0.03	0.00	0.00	21.02
rs10236510	Adenosine 5'-diphosphate (ADP) to choline ratio	GCST90200958	7	119632797	A	G	4560	-0.12	0.03	0.00	0.00	21.19
rs143062081	Adenosine 5'-diphosphate (ADP) to choline ratio	GCST90200958	8	26940389	A	G	4560	0.33	0.07	0.00	0.00	20.17

rs66628241	Adenosine 5'- diphosphate (ADP) to choline ratio	GCST90200958	9	7908256	T	C	4560	0.17	0.04	0.00	0.00	20.60
rs56263424 3	Adenosine 5'- diphosphate (ADP) to choline ratio	GCST90200958	10	53553588	G	T	4560	0.71	0.16	0.00	0.00	20.67
rs4869	Adenosine 5'- diphosphate (ADP) to choline ratio	GCST90200958	10	86970555	C	T	4560	0.09	0.02	0.00	0.00	20.61
rs77506352	Adenosine 5'- diphosphate (ADP) to choline ratio	GCST90200958	10	122384116	T	C	4560	-0.20	0.04	0.00	0.01	25.79
rs4754374	Adenosine 5'- diphosphate (ADP) to choline ratio	GCST90200958	11	109035092	C	G	4560	-0.26	0.06	0.00	0.00	20.15
rs4765831	Adenosine 5'- diphosphate (ADP) to choline ratio	GCST90200958	12	1612638	T	C	4560	0.11	0.02	0.00	0.00	22.27
rs11203639 4	Adenosine 5'- diphosphate (ADP) to choline ratio	GCST90200958	16	4812786	C	T	4560	-0.14	0.03	0.00	0.01	24.90
rs14930318 2	Adenosine 5'- diphosphate (ADP) to choline ratio	GCST90200958	17	5573526	T	G	4560	-0.29	0.06	0.00	0.00	20.05
rs10468503	Adenosine 5'- diphosphate (ADP) to choline ratio	GCST90200958	17	54661426	G	A	4560	0.14	0.03	0.00	0.01	24.94
rs76209394	Adenosine 5'- diphosphate (ADP) to choline ratio	GCST90200958	21	42119054	T	C	4560	-0.22	0.05	0.00	0.01	23.07
rs79369357	Adenosine 5'- diphosphate (ADP) to choline ratio	GCST90200958	22	47566825	T	G	4560	-0.40	0.09	0.00	0.00	20.85
rs1697421	Choline phosphate to choline ratio	GCST90200959	1	21496799	T	C	8196	0.11	0.01	0.00	0.01	59.58
rs2275370	Choline phosphate to choline ratio	GCST90200959	1	21573927	G	A	8196	0.11	0.02	0.00	0.00	39.84
rs9919279	Choline phosphate to choline ratio	GCST90200959	1	239257666	T	C	8196	-0.22	0.05	0.00	0.00	20.47
rs37334017 0	Choline phosphate to choline ratio	GCST90200959	2	134053333	T	A	8196	-0.27	0.05	0.00	0.00	24.40
rs78447471	Choline phosphate to choline ratio	GCST90200959	2	153717986	C	G	8196	0.17	0.03	0.00	0.00	22.98
rs14643236 3	Choline phosphate to choline ratio	GCST90200959	2	241185600	A	T	8196	0.10	0.02	0.00	0.00	20.86
rs55812124	Choline phosphate to choline ratio	GCST90200959	3	45350004	G	C	8196	0.20	0.04	0.00	0.00	23.97
rs17777649	Choline phosphate to choline ratio	GCST90200959	3	66573574	C	T	8196	0.08	0.02	0.00	0.00	21.19
rs12488813	Choline phosphate to choline ratio	GCST90200959	3	172843270	A	G	8196	0.52	0.11	0.00	0.00	21.80
rs79603020	Choline phosphate to choline ratio	GCST90200959	4	53190098	C	T	8196	0.35	0.07	0.00	0.00	24.61

rs14795888 2	Choline phosphate to choline ratio Choline	GCST90200959	4	179158276	T	G	8196	0.19	0.04	0.00	0.00	19.97
rs18716368 1	phosphate to choline ratio Choline	GCST90200959	7	100053999	T	C	8196	-0.43	0.09	0.00	0.00	23.08
rs2732900	phosphate to choline ratio Choline	GCST90200959	7	134963698	A	G	8196	0.08	0.02	0.00	0.00	22.27
rs823608	phosphate to choline ratio Choline	GCST90200959	8	16930194	C	G	8196	-0.17	0.04	0.00	0.00	20.38
rs15034857 1	phosphate to choline ratio Choline	GCST90200959	8	83714329	A	C	8196	0.28	0.06	0.00	0.00	19.57
rs260224	phosphate to choline ratio Choline	GCST90200959	9	110055206	C	A	8196	0.07	0.02	0.00	0.00	20.17
rs35818823	phosphate to choline ratio Choline	GCST90200959	10	18707035	T	C	8196	0.10	0.02	0.00	0.00	20.18
rs4945386	phosphate to choline ratio Choline	GCST90200959	11	79937336	A	G	8196	0.11	0.02	0.00	0.00	19.71
rs79632452	phosphate to choline ratio Choline	GCST90200959	13	93254829	C	T	8196	-0.28	0.06	0.00	0.00	21.39
rs4796066	phosphate to choline ratio Choline	GCST90200959	17	35253261	T	G	8196	-0.08	0.02	0.00	0.00	19.94
rs14079155 1	phosphate to choline ratio Choline	GCST90200959	18	6985934	C	T	8196	-0.19	0.04	0.00	0.00	20.23
rs7254202	phosphate to choline ratio Choline	GCST90200959	19	53944071	C	T	8196	-0.15	0.03	0.00	0.00	27.91
rs387073	phosphate to choline ratio Choline	GCST90200959	20	14865394	G	T	8196	-0.10	0.02	0.00	0.00	23.01
rs12484381	phosphate to choline ratio Choline	GCST90200959	22	24181153	C	G	8196	-0.14	0.03	0.00	0.00	27.23
rs1887539	phosphate to phosphoethan olamine ratio Choline	GCST90200960	1	78306045	T	C	8213	0.08	0.02	0.00	0.00	20.14
rs20050138 6	phosphate to phosphoethan olamine ratio Choline	GCST90200960	1	212914061	A	G	8213	-0.07	0.02	0.00	0.00	21.11
rs17026724	phosphate to phosphoethan olamine ratio Choline	GCST90200960	2	40832668	C	T	8213	-0.11	0.02	0.00	0.00	22.09
rs11681164	phosphate to phosphoethan olamine ratio Choline	GCST90200960	2	238012346	G	C	8213	0.25	0.06	0.00	0.00	20.01
rs931678	phosphate to phosphoethan olamine ratio Choline	GCST90200960	3	217774	G	C	8213	-0.13	0.03	0.00	0.00	20.31
rs14492767 7	phosphate to phosphoethan olamine ratio Choline	GCST90200960	3	70938282	G	T	8213	0.43	0.10	0.00	0.00	19.77
rs11610473 2	phosphate to phosphoethan olamine ratio Choline	GCST90200960	4	5945058	G	A	8213	0.14	0.03	0.00	0.00	21.35
rs74766539	phosphate to phosphoethan olamine ratio	GCST90200960	4	25663616	C	T	8213	-0.39	0.08	0.00	0.00	22.30

rs184286424	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	4	64674682	A	C	8213	0.25	0.06	0.00	0.00	19.87
rs28791572	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	4	86238331	G	T	8213	-0.16	0.03	0.00	0.00	20.39
rs149377099	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	4	127874555	C	T	8213	-0.35	0.08	0.00	0.00	19.55
rs78293932	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	4	184217948	T	C	8213	0.32	0.05	0.00	0.00	35.22
rs7798565	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	7	76211003	G	A	8213	-0.09	0.02	0.00	0.00	19.70
rs73152628	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	7	136268925	T	C	8213	-0.34	0.07	0.00	0.00	21.06
rs55699506	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	8	140543541	A	G	8213	0.34	0.07	0.00	0.00	20.36
rs77485980	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	9	26632965	C	T	8213	-0.37	0.08	0.00	0.00	21.48
rs62565062	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	9	92204969	T	C	8213	-0.24	0.05	0.00	0.00	20.28
rs111717891	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	9	133575081	T	G	8213	-0.12	0.03	0.00	0.00	21.65
rs2398238	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	10	5293569	G	T	8213	0.07	0.02	0.00	0.00	19.60
rs45466995	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	10	18675066	A	G	8213	0.14	0.03	0.00	0.00	19.92
rs4558053	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	10	63643614	C	G	8213	-0.07	0.02	0.00	0.00	21.77
rs116886509	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	10	120120512	C	A	8213	0.35	0.07	0.00	0.00	23.14
rs118031971	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	11	68052933	G	A	8213	-0.18	0.03	0.00	0.00	28.97
rs113677037	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	11	86285847	T	C	8213	-0.17	0.04	0.00	0.00	19.84
rs74371575	Choline phosphate to phosphoethanolamine ratio Choline	GCST90200960	12	22618750	C	G	8213	-0.09	0.02	0.00	0.00	25.69
rs10506728	phosphate to phosphoethanolamine ratio	GCST90200960	12	77103301	G	C	8213	-0.09	0.02	0.00	0.00	19.53

rs11630743	Choline phosphate to phosphoethan olamine ratio Choline	GCST90200960	15	51458412	T	C	8213	-0.07	0.02	0.00	0.00	20.41
rs77034446	phosphate to phosphoethan olamine ratio Choline	GCST90200960	15	82113624	G	C	8213	0.14	0.03	0.00	0.00	21.82
rs1943065	phosphate to phosphoethan olamine ratio Choline	GCST90200960	16	75051674	T	C	8213	0.14	0.03	0.00	0.00	20.25
rs7210486	phosphate to phosphoethan olamine ratio Choline	GCST90200960	17	55209539	C	T	8213	0.07	0.02	0.00	0.00	20.44
rs5992967	phosphate to phosphoethan olamine ratio Choline	GCST90200960	22	18012407	T	G	8213	-0.07	0.02	0.00	0.00	21.49
rs75787092	phosphate to phosphoethan olamine ratio Adenosine 5'-	GCST90200960	22	24093236	A	T	8213	-0.25	0.04	0.00	0.00	37.43
rs41297593	diphosphate (ADP) to ornithine ratio Adenosine 5'-	GCST90200961	1	39896111	C	G	4566	-0.12	0.03	0.00	0.00	20.16
rs11697445 9	diphosphate (ADP) to ornithine ratio Adenosine 5'-	GCST90200961	1	162376534	A	C	4566	-0.41	0.09	0.00	0.00	22.75
rs18373829 2	diphosphate (ADP) to ornithine ratio Adenosine 5'-	GCST90200961	2	20508507	T	C	4566	-0.43	0.09	0.00	0.00	20.33
rs80332390	diphosphate (ADP) to ornithine ratio Adenosine 5'-	GCST90200961	2	234191055	C	A	4566	0.32	0.06	0.00	0.01	26.48
rs11359249 5	diphosphate (ADP) to ornithine ratio Adenosine 5'-	GCST90200961	3	49109223	G	T	4566	0.13	0.03	0.00	0.00	19.85
rs4689157	diphosphate (ADP) to ornithine ratio Adenosine 5'-	GCST90200961	4	7728665	A	G	4566	-0.14	0.03	0.00	0.00	20.21
rs62319264	diphosphate (ADP) to ornithine ratio Adenosine 5'-	GCST90200961	4	130625492	A	G	4566	0.49	0.10	0.00	0.00	21.98
rs2914532	diphosphate (ADP) to ornithine ratio Adenosine 5'-	GCST90200961	5	103965712	G	C	4566	0.10	0.02	0.00	0.00	20.01
rs10236510	diphosphate (ADP) to ornithine ratio Adenosine 5'-	GCST90200961	7	119632797	A	G	4566	-0.14	0.03	0.00	0.01	25.52
rs66628241	diphosphate (ADP) to ornithine ratio Adenosine 5'-	GCST90200961	9	7908256	T	C	4566	0.17	0.04	0.00	0.00	20.16
rs18226189 3	diphosphate (ADP) to ornithine ratio Adenosine 5'-	GCST90200961	9	81798236	C	A	4566	-0.72	0.16	0.00	0.00	20.30
rs77761367	diphosphate (ADP) to ornithine ratio	GCST90200961	10	24742356	A	G	4566	0.26	0.06	0.00	0.00	20.10

rs61864607	Adenosine 5'- diphosphate (ADP) to ornithine ratio	GCST90200961	10	131047257	A	G	4566	-0.17	0.04	0.00	0.00	20.19
rs12804793	Adenosine 5'- diphosphate (ADP) to ornithine ratio	GCST90200961	11	122772575	T	G	4566	-0.13	0.03	0.00	0.00	19.77
rs3741975	Adenosine 5'- diphosphate (ADP) to ornithine ratio	GCST90200961	12	1591768	A	G	4566	-0.38	0.08	0.00	0.00	20.78
rs1461567	Adenosine 5'- diphosphate (ADP) to ornithine ratio	GCST90200961	12	43770886	A	G	4566	-0.11	0.02	0.00	0.01	23.08
rs11811028 5	Adenosine 5'- diphosphate (ADP) to ornithine ratio	GCST90200961	12	76187259	C	T	4566	-0.39	0.08	0.00	0.01	26.31
rs75716582	Adenosine 5'- diphosphate (ADP) to ornithine ratio	GCST90200961	12	118007313	T	C	4566	0.13	0.03	0.00	0.00	20.06
rs14346418 1	Adenosine 5'- diphosphate (ADP) to ornithine ratio	GCST90200961	12	131247556	T	C	4566	-0.26	0.06	0.00	0.00	19.69
rs11203639 4	Adenosine 5'- diphosphate (ADP) to ornithine ratio	GCST90200961	16	4812786	C	T	4566	-0.13	0.03	0.00	0.00	21.38
rs62060283	Adenosine 5'- diphosphate (ADP) to ornithine ratio	GCST90200961	16	48656395	T	G	4566	-0.43	0.09	0.00	0.00	22.06
rs1530382	Adenosine 5'- diphosphate (ADP) to ornithine ratio	GCST90200961	17	54664475	A	T	4566	0.14	0.03	0.00	0.00	21.95
rs14292208 4	Adenosine 5'- diphosphate (ADP) to ornithine ratio	GCST90200961	22	25772890	T	C	4566	-0.42	0.10	0.00	0.00	19.60
rs5761565	Adenosine 5'- diphosphate (ADP) to ornithine ratio	GCST90200961	22	26498297	C	T	4566	-0.20	0.04	0.00	0.00	22.31
rs11695023	Adenosine 5'- diphosphate (ADP) to glutamine	GCST90200962	2	85442398	A	C	4569	0.09	0.02	0.00	0.00	19.63
rs80332390	Adenosine 5'- diphosphate (ADP) to glutamine	GCST90200962	2	234191055	C	A	4569	0.31	0.06	0.00	0.01	24.95
rs11359249 5	Adenosine 5'- diphosphate (ADP) to glutamine	GCST90200962	3	49109223	G	T	4569	0.13	0.03	0.00	0.00	19.99
rs1834709	Adenosine 5'- diphosphate (ADP) to glutamine	GCST90200962	4	31376100	A	G	4569	-0.10	0.02	0.00	0.00	20.20
rs80165985	Adenosine 5'- diphosphate (ADP) to glutamine	GCST90200962	5	3312611	C	T	4569	-0.37	0.08	0.00	0.00	20.30
rs12195587	Adenosine 5'- diphosphate (ADP) to glutamine	GCST90200962	6	10989709	A	G	4569	0.12	0.03	0.00	0.00	19.90

rs10236510	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	7	119632797	A	G	4569	-0.13	0.03	0.00	0.01	23.58
rs10503585	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	8	16856688	C	T	4569	-0.09	0.02	0.00	0.00	19.68
rs7829662	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	8	100846652	G	T	4569	-0.15	0.03	0.00	0.01	25.15
rs66628241	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	9	7908256	T	C	4569	0.17	0.04	0.00	0.00	21.74
rs12003375	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	9	29378733	G	A	4569	0.10	0.02	0.00	0.00	19.66
rs11791745	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	9	119571181	C	T	4569	-0.10	0.02	0.00	0.00	19.83
rs11591530	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	10	78256774	T	G	4569	0.12	0.03	0.00	0.00	20.96
rs2299639	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	11	17419838	T	C	4569	-0.12	0.03	0.00	0.00	21.55
rs117717775	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	12	5278207	T	C	4569	-0.35	0.08	0.00	0.00	21.46
rs1461567	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	12	43770886	A	G	4569	-0.11	0.02	0.00	0.00	20.84
rs118110285	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	12	76187259	C	T	4569	-0.36	0.08	0.00	0.00	21.54
rs143464181	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	12	131247556	T	C	4569	-0.26	0.06	0.00	0.00	20.23
rs112036394	Adenosine 5'-diphosphate (ADP) to glutamine Adenosine 5'-diphosphate (ADP) to glutamine	GCST90200962	16	4812786	C	T	4569	-0.13	0.03	0.00	0.00	20.71
rs1530382	Adenosine 5'-diphosphate (ADP) to glutamine Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200962	17	54664475	A	T	4569	0.13	0.03	0.00	0.00	21.24
rs144569618	Inosine 5'-monophosphate (IMP) to urate ratio Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	2	29071373	A	G	4598	0.31	0.07	0.00	0.00	20.21
rs56007616	Inosine 5'-monophosphate (IMP) to urate ratio Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	3	119276112	G	A	4598	0.14	0.03	0.00	0.00	19.72
rs4679696	Inosine 5'-monophosphate (IMP) to urate ratio Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	3	152987124	C	G	4598	-0.19	0.04	0.00	0.00	22.63
rs6449213	Inosine 5'-monophosphate (IMP) to urate ratio Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	4	9992591	T	C	4598	-0.13	0.03	0.00	0.01	25.63

rs116823115	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	4	37760539	A	G	4598	-0.45	0.10	0.00	0.00	21.58
rs67208054	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	4	175064750	A	G	4598	0.13	0.03	0.00	0.00	19.93
rs72773085	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	5	81701196	A	C	4598	0.14	0.03	0.00	0.00	20.36
rs140233494	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	6	5452946	C	T	4598	0.31	0.06	0.00	0.01	27.38
rs116025241	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	6	35196172	A	T	4598	-0.29	0.06	0.00	0.00	21.44
rs2410498	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	8	17681820	C	T	4598	-0.09	0.02	0.00	0.00	20.98
rs7014448	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	8	126978588	G	T	4598	0.10	0.02	0.00	0.00	22.14
rs11002991	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	10	79455601	C	T	4598	0.17	0.04	0.00	0.00	22.11
rs7081686	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	10	93578837	C	T	4598	0.11	0.02	0.00	0.00	20.08
rs2126620	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	12	78848938	G	T	4598	-0.09	0.02	0.00	0.00	19.61
rs34403863	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	12	103022239	A	C	4598	0.11	0.02	0.00	0.01	24.83
rs7991806	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	13	61345110	C	T	4598	0.10	0.02	0.00	0.00	19.77
rs9932908	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	16	62965579	G	A	4598	-0.14	0.03	0.00	0.00	20.46
rs17827108	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	17	31737385	T	G	4598	-0.12	0.03	0.00	0.00	20.10
rs142611895	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	19	20066493	C	T	4598	0.46	0.10	0.00	0.00	21.37
rs142472898	Inosine 5'-monophosphate (IMP) to urate ratio	GCST90200963	22	23346001	G	C	4598	-0.37	0.08	0.00	0.00	20.05
rs80332390	Adenosine 5'-diphosphate (ADP) to 5-oxoproline ratio	GCST90200964	2	234191055	C	A	4570	0.32	0.06	0.00	0.01	26.52
rs12642294	Adenosine 5'-diphosphate (ADP) to 5-oxoproline ratio	GCST90200964	4	131018374	A	G	4570	0.11	0.02	0.00	0.01	24.68

rs75494963	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	4	169209063	T	G	4570	-0.30	0.07	0.00	0.00	19.93
rs80165985	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	5	3312611	C	T	4570	-0.38	0.08	0.00	0.00	20.77
rs7829662	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	8	100846652	G	T	4570	-0.15	0.03	0.00	0.01	26.42
rs3935209	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	8	144058338	G	T	4570	0.24	0.04	0.00	0.01	41.84
rs66628241	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	9	7908256	T	C	4570	0.17	0.04	0.00	0.00	20.86
rs72777711	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	10	11975968	C	A	4570	-0.19	0.04	0.00	0.00	20.75
rs117717775	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	12	5278207	T	C	4570	-0.34	0.07	0.00	0.00	21.26
rs118110285	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	12	76187259	C	T	4570	-0.38	0.08	0.00	0.01	24.30
rs2181066	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	14	95684913	T	C	4570	0.10	0.02	0.00	0.00	20.49
rs150342914	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	16	4773171	T	C	4570	-0.29	0.06	0.00	0.00	22.55
rs11652787	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	17	17424179	A	G	4570	0.11	0.02	0.00	0.00	22.52
rs1530382	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	17	54664475	A	T	4570	0.14	0.03	0.00	0.01	25.06
rs138795521	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	19	37799018	A	G	4570	-0.35	0.08	0.00	0.00	19.90
rs60105249	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	21	16278182	G	A	4570	0.55	0.12	0.00	0.00	21.87

rs76209394	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	21	42119054	T	C	4570	-0.22	0.05	0.00	0.00	21.22
rs79369357	Adenosine 5'- diphosphate (ADP) to 5- oxoproline ratio	GCST90200964	22	47566825	T	G	4570	-0.39	0.09	0.00	0.00	19.76
rs309147	Glutamate to 5-oxoproline ratio	GCST90200965	2	135939750	T	C	8171	-0.10	0.02	0.00	0.00	25.59
rs113476987	Glutamate to 5-oxoproline ratio	GCST90200965	4	109197290	T	C	8171	-0.21	0.05	0.00	0.00	19.79
rs114780333	Glutamate to 5-oxoproline ratio	GCST90200965	4	113004330	G	T	8171	-0.25	0.05	0.00	0.00	20.74
rs62354638	Glutamate to 5-oxoproline ratio	GCST90200965	5	36638487	A	G	8171	-0.27	0.04	0.00	0.00	40.68
rs10038788	Glutamate to 5-oxoproline ratio	GCST90200965	5	62073767	C	G	8171	0.10	0.02	0.00	0.00	20.29
rs117117166	Glutamate to 5-oxoproline ratio	GCST90200965	6	137240271	C	T	8171	0.25	0.05	0.00	0.00	23.85
rs38156	Glutamate to 5-oxoproline ratio	GCST90200965	7	20004405	T	C	8171	0.25	0.06	0.00	0.00	20.79
rs1421326	Glutamate to 5-oxoproline ratio	GCST90200965	7	155386987	A	G	8171	-0.09	0.02	0.00	0.00	19.76
rs6991671	Glutamate to 5-oxoproline ratio	GCST90200965	8	15295417	A	G	8171	-0.11	0.02	0.00	0.00	20.23
rs117698037	Glutamate to 5-oxoproline ratio	GCST90200965	8	28150431	A	C	8171	0.18	0.04	0.00	0.00	23.33
rs144476525	Glutamate to 5-oxoproline ratio	GCST90200965	8	36773555	C	G	8171	0.54	0.12	0.00	0.00	21.49
rs55916375	Glutamate to 5-oxoproline ratio	GCST90200965	8	144058080	T	C	8171	0.30	0.03	0.00	0.01	120.98
rs12684730	Glutamate to 5-oxoproline ratio	GCST90200965	9	130976371	A	G	8171	-0.09	0.02	0.00	0.00	20.83
rs932504	Glutamate to 5-oxoproline ratio	GCST90200965	11	32349512	G	T	8171	0.24	0.05	0.00	0.00	20.32
rs12275211	Glutamate to 5-oxoproline ratio	GCST90200965	11	69874698	T	C	8171	0.20	0.04	0.00	0.00	23.50
rs2775278	Glutamate to 5-oxoproline ratio	GCST90200965	14	28023375	A	C	8171	-0.11	0.02	0.00	0.00	19.57
rs7149583	Glutamate to 5-oxoproline ratio	GCST90200965	14	70512526	A	G	8171	0.19	0.04	0.00	0.00	20.26
rs6498990	Glutamate to 5-oxoproline ratio	GCST90200965	16	52641140	G	A	8171	-0.09	0.02	0.00	0.00	21.35
rs75229831	Glutamate to 5-oxoproline ratio	GCST90200965	16	82085795	T	C	8171	0.20	0.04	0.00	0.00	21.59
rs1020696	Glutamate to 5-oxoproline ratio	GCST90200965	17	17505170	C	T	8171	0.12	0.02	0.00	0.00	26.61
rs144647217	Glutamate to 5-oxoproline ratio	GCST90200965	17	45192996	A	G	8171	-0.10	0.02	0.00	0.00	19.81

rs11357722 4	Glutamate to 5-oxoproline ratio	GCST90200965	18	68903847	G	A	8171	-0.16	0.04	0.00	0.00	21.07
rs78350689	Glutamate to 5-oxoproline ratio	GCST90200965	20	18599724	C	T	8171	0.13	0.03	0.00	0.00	20.90
rs12130095	Adenosine 5'- diphosphate (ADP) to	GCST90200966	1	48236268	T	C	4565	0.23	0.05	0.00	0.01	23.04
rs12154017	uridine ratio Adenosine 5'- diphosphate (ADP) to	GCST90200966	6	10974455	A	G	4565	0.14	0.03	0.00	0.01	25.61
rs11534087	uridine ratio Adenosine 5'- diphosphate (ADP) to	GCST90200966	7	75790818	T	C	4565	0.17	0.04	0.00	0.00	20.97
rs10236510	uridine ratio Adenosine 5'- diphosphate (ADP) to	GCST90200966	7	119632797	A	G	4565	-0.12	0.03	0.00	0.00	20.20
rs6995916	uridine ratio Adenosine 5'- diphosphate (ADP) to	GCST90200966	8	16858648	C	T	4565	0.10	0.02	0.00	0.00	19.55
rs14306208 1	uridine ratio Adenosine 5'- diphosphate (ADP) to	GCST90200966	8	26940389	A	G	4565	0.33	0.07	0.00	0.00	20.13
rs7829662	uridine ratio Adenosine 5'- diphosphate (ADP) to	GCST90200966	8	100846652	G	T	4565	-0.13	0.03	0.00	0.00	19.98
rs16873402	uridine ratio Adenosine 5'- diphosphate (ADP) to	GCST90200966	8	105577019	T	C	4565	-0.12	0.02	0.00	0.01	26.40
rs4869	uridine ratio Adenosine 5'- diphosphate (ADP) to	GCST90200966	10	86970555	C	T	4565	0.09	0.02	0.00	0.00	19.91
rs4754047	uridine ratio Adenosine 5'- diphosphate (ADP) to	GCST90200966	11	102563571	G	C	4565	-0.13	0.03	0.00	0.00	19.74
rs1461567	uridine ratio Adenosine 5'- diphosphate (ADP) to	GCST90200966	12	43770886	A	G	4565	-0.11	0.02	0.00	0.00	20.53
rs11652787	uridine ratio Adenosine 5'- diphosphate (ADP) to	GCST90200966	17	17424179	A	G	4565	0.10	0.02	0.00	0.00	20.87
rs1865423	uridine ratio Adenosine 5'- diphosphate (ADP) to	GCST90200966	17	54261536	C	T	4565	-0.09	0.02	0.00	0.00	21.17
rs14878560 5	uridine ratio Phosphate to	GCST90200967	1	21600863	T	A	8204	0.14	0.03	0.00	0.00	22.56
rs14469943 8	urine ratio Phosphate to	GCST90200967	2	36102583	T	C	8204	-0.30	0.06	0.00	0.00	26.86
rs15080960 0	urine ratio Phosphate to	GCST90200967	2	61729105	G	C	8204	0.46	0.09	0.00	0.00	25.26
rs56242159	urine ratio Phosphate to	GCST90200967	2	212127247	A	C	8204	-0.06	0.01	0.00	0.00	20.80
rs12485725	urine ratio Phosphate to	GCST90200967	3	7960983	A	G	8204	-0.09	0.02	0.00	0.00	23.32
rs9857109	urine ratio Phosphate to	GCST90200967	3	83055199	T	C	8204	0.08	0.02	0.00	0.00	20.15
rs16853945	urine ratio Phosphate to	GCST90200967	3	107884915	T	C	8204	-0.07	0.02	0.00	0.00	20.92
rs7616869	urine ratio Phosphate to	GCST90200967	3	197586064	G	A	8204	-0.07	0.01	0.00	0.00	20.29

rs4529048	Phosphate to urate ratio	GCST90200967	4	9995488	A	C	8204	-0.22	0.02	0.00	0.02	187.98
rs2231142	Phosphate to urate ratio	GCST90200967	4	88131171	T	G	8204	-0.11	0.02	0.00	0.00	23.88
rs10433994	Phosphate to urate ratio	GCST90200967	4	105564037	G	A	8204	0.08	0.02	0.00	0.00	19.90
rs78112251	Phosphate to urate ratio	GCST90200967	4	170153079	T	C	8204	-0.13	0.03	0.00	0.00	19.76
rs6907305	Phosphate to urate ratio	GCST90200967	6	21397406	G	A	8204	-0.08	0.02	0.00	0.00	21.69
rs57303110	Phosphate to urate ratio	GCST90200967	6	33738382	A	G	8204	-0.12	0.03	0.00	0.00	21.32
rs9472482	Phosphate to urate ratio	GCST90200967	6	45390692	T	G	8204	0.16	0.03	0.00	0.00	26.69
rs17790499	Phosphate to urate ratio	GCST90200967	6	75120692	A	T	8204	-0.15	0.03	0.00	0.00	23.99
rs7768837	Phosphate to urate ratio	GCST90200967	6	165371996	A	C	8204	0.07	0.01	0.00	0.00	21.51
rs74880448	Phosphate to urate ratio	GCST90200967	8	35493201	A	C	8204	-0.25	0.05	0.00	0.00	24.62
rs2469511	Phosphate to urate ratio	GCST90200967	8	132131739	G	A	8204	-0.07	0.01	0.00	0.00	22.53
rs72752754	Phosphate to urate ratio	GCST90200967	9	86570762	A	T	8204	0.22	0.05	0.00	0.00	21.73
rs142691305	Phosphate to urate ratio	GCST90200967	10	25391111	T	C	8204	0.18	0.04	0.00	0.00	21.26
rs1414990	Phosphate to urate ratio	GCST90200967	10	33497360	T	C	8204	0.07	0.01	0.00	0.00	22.71
rs11231845	Phosphate to urate ratio	GCST90200967	11	64639947	A	G	8204	0.08	0.02	0.00	0.00	25.16
rs7306848	Phosphate to urate ratio	GCST90200967	12	4562445	G	C	8204	0.08	0.02	0.00	0.00	29.05
rs10843328	Phosphate to urate ratio	GCST90200967	12	29135094	G	A	8204	-0.07	0.01	0.00	0.00	22.68
rs56370068	Phosphate to urate ratio	GCST90200967	12	114065154	A	G	8204	0.24	0.05	0.00	0.00	20.09
rs73154060	Phosphate to urate ratio	GCST90200967	13	26945507	G	A	8204	0.29	0.06	0.00	0.00	24.76
rs144830467	Phosphate to urate ratio	GCST90200967	13	90844825	A	G	8204	-0.30	0.07	0.00	0.00	21.01
rs9583107	Phosphate to urate ratio	GCST90200967	13	106667264	G	T	8204	0.08	0.02	0.00	0.00	21.22
rs76744815	Phosphate to urate ratio	GCST90200967	15	37817024	G	A	8204	-0.34	0.08	0.00	0.00	20.04
rs35396136	Phosphate to urate ratio	GCST90200967	15	97996971	T	C	8204	-0.11	0.03	0.00	0.00	19.59
rs8059901	Phosphate to urate ratio	GCST90200967	16	9489299	C	G	8204	-0.35	0.07	0.00	0.00	24.40
rs55815014	Phosphate to urate ratio	GCST90200967	16	77534006	G	A	8204	0.37	0.08	0.00	0.00	20.84
rs75607471	Phosphate to urate ratio	GCST90200967	16	78190524	T	C	8204	-0.21	0.05	0.00	0.00	19.90
rs8051748	Phosphate to urate ratio	GCST90200967	16	83654040	A	G	8204	0.07	0.02	0.00	0.00	20.54
rs76483991	Phosphate to urate ratio	GCST90200967	20	12916948	G	A	8204	-0.14	0.03	0.00	0.00	21.70
rs6057728	Phosphate to urate ratio	GCST90200967	20	33127562	C	T	8204	-0.07	0.02	0.00	0.00	19.70
rs12132412	5-oxoproline ratio	GCST90200968	1	21493549	G	A	8217	0.07	0.02	0.00	0.00	19.78
rs608450	5-oxoproline ratio	GCST90200968	1	38643053	G	T	8217	-0.08	0.02	0.00	0.00	23.16
rs41515251	5-oxoproline ratio	GCST90200968	1	201568585	A	G	8217	0.21	0.05	0.00	0.00	22.03
rs13074215	5-oxoproline ratio	GCST90200968	3	198115	C	G	8217	-0.11	0.03	0.00	0.00	19.78
rs74569520	5-oxoproline ratio	GCST90200968	3	80042190	C	T	8217	-0.20	0.04	0.00	0.00	20.37

rs188589393	Phosphate to 5-oxoproline ratio	GCST90200968	3	143167024	C	T	8217	0.33	0.07	0.00	0.00	20.21
rs140507467	Phosphate to 5-oxoproline ratio	GCST90200968	4	112189689	C	T	8217	-0.23	0.05	0.00	0.00	20.38
rs146002937	Phosphate to 5-oxoproline ratio	GCST90200968	5	87565637	G	T	8217	0.22	0.05	0.00	0.00	20.85
rs73799815	Phosphate to 5-oxoproline ratio	GCST90200968	5	162811388	C	G	8217	0.19	0.04	0.00	0.00	20.11
rs190355588	Phosphate to 5-oxoproline ratio	GCST90200968	6	53434601	T	C	8217	0.41	0.08	0.00	0.00	28.27
rs17638578	Phosphate to 5-oxoproline ratio	GCST90200968	7	41764938	G	A	8217	-0.09	0.02	0.00	0.00	19.94
rs78685540	Phosphate to 5-oxoproline ratio	GCST90200968	8	3117893	T	C	8217	-0.23	0.05	0.00	0.00	23.57
rs3935209	Phosphate to 5-oxoproline ratio	GCST90200968	8	144058338	G	T	8217	0.67	0.03	0.00	0.07	660.30
rs1024708	Phosphate to 5-oxoproline ratio	GCST90200968	9	119531630	C	T	8217	0.07	0.02	0.00	0.00	21.18
rs11251083	Phosphate to 5-oxoproline ratio	GCST90200968	10	2183870	T	G	8217	0.08	0.02	0.00	0.00	22.67
rs112773067	Phosphate to 5-oxoproline ratio	GCST90200968	11	58988835	T	A	8217	-0.15	0.03	0.00	0.00	20.30
rs117942731	Phosphate to 5-oxoproline ratio	GCST90200968	11	70688395	G	C	8217	0.28	0.06	0.00	0.00	20.28
rs2638314	Phosphate to 5-oxoproline ratio	GCST90200968	12	56472550	A	T	8217	0.11	0.02	0.00	0.00	35.52
rs11106204	Phosphate to 5-oxoproline ratio	GCST90200968	12	91593828	A	G	8217	-0.10	0.02	0.00	0.00	21.54
rs118189088	Phosphate to 5-oxoproline ratio	GCST90200968	15	87994585	T	C	8217	0.18	0.04	0.00	0.00	22.30
rs11647364	Phosphate to 5-oxoproline ratio	GCST90200968	16	57969200	A	G	8217	0.08	0.02	0.00	0.00	22.15
rs144683036	Phosphate to 5-oxoproline ratio	GCST90200968	19	32268241	A	G	8217	-0.18	0.04	0.00	0.00	20.75
rs117659896	Phosphate to 5-oxoproline ratio	GCST90200968	19	42664846	A	C	8217	-0.28	0.06	0.00	0.00	25.01
rs73195437	Phosphate to 5-oxoproline ratio	GCST90200968	21	32024330	A	G	8217	-0.08	0.02	0.00	0.00	20.39
rs7276418	Phosphate to 5-oxoproline ratio	GCST90200968	21	39608311	G	A	8217	0.09	0.02	0.00	0.00	19.94
rs2744738	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	1	22225320	C	T	8188	-0.07	0.02	0.00	0.00	19.68
rs79417575	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	1	34739467	G	T	8188	-0.23	0.05	0.00	0.00	20.91

rs146632455	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	1	37421462	A	G	8188	0.21	0.05	0.00	0.00	19.96
rs11208009	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	1	62730021	T	C	8188	-0.07	0.02	0.00	0.00	20.07
rs16822334	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	1	184020181	G	A	8188	0.09	0.02	0.00	0.00	20.17
rs60633729	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	2	84912530	C	T	8188	0.14	0.03	0.00	0.00	19.94
rs138959835	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	3	41773029	A	G	8188	-0.29	0.06	0.00	0.00	24.68
rs9815886	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	3	72344161	C	A	8188	0.08	0.02	0.00	0.00	23.05
rs6792151	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	3	171812145	G	T	8188	0.10	0.02	0.00	0.00	22.74
rs13165721	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	5	82483124	G	A	8188	-0.08	0.02	0.00	0.00	19.84
rs144722112	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	6	111051863	T	C	8188	0.31	0.07	0.00	0.00	22.76
rs11971790	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	7	1015946	G	T	8188	-0.07	0.02	0.00	0.00	21.53

rs117203190	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	8	37936905	T	C	8188	-0.20	0.04	0.00	0.00	19.76
rs7896518	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	10	63344740	G	A	8188	0.07	0.02	0.00	0.00	22.77
rs199724135	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	11	44878877	A	G	8188	0.25	0.05	0.00	0.00	21.69
rs676206	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	11	75576830	A	C	8188	0.08	0.02	0.00	0.00	19.93
rs79966895	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	12	33224824	G	C	8188	-0.17	0.04	0.00	0.00	19.68
rs10466932	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	12	116397262	A	G	8188	0.11	0.02	0.00	0.00	23.77
rs76500183	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	14	49532930	G	A	8188	0.29	0.07	0.00	0.00	19.86
rs2854437	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	15	45065212	G	T	8188	0.12	0.02	0.00	0.00	24.42
rs146385339	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	15	62743748	T	C	8188	0.36	0.08	0.00	0.00	21.28
rs191591925	Adenosine 5'-monophosphate (AMP) to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200969	17	75925202	T	C	8188	0.49	0.10	0.00	0.00	26.50

rs456984	Adenosine 5'- monophosphat e (AMP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200969	18	57715262	T	A	8188	-0.07	0.02	0.00	0.00	20.54
rs280498	Adenosine 5'- monophosphat e (AMP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200969	19	10372023	C	A	8188	-0.08	0.02	0.00	0.00	20.70
rs11698492	Adenosine 5'- monophosphat e (AMP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200969	20	49178532	A	T	8188	0.14	0.03	0.00	0.00	20.64
rs11228247 1	Adenosine 5'- monophosphat e (AMP) to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90200969	20	59055575	T	C	8188	0.26	0.06	0.00	0.00	20.81
rs2744738	Adenosine 5'- monophosphat e (AMP) to leucine ratio	GCST90200970	1	22225320	C	T	8201	-0.08	0.02	0.00	0.00	26.99
rs11424548 9	Adenosine 5'- monophosphat e (AMP) to leucine ratio	GCST90200970	2	157628563	T	G	8201	0.17	0.04	0.00	0.00	20.24
rs1435367	Adenosine 5'- monophosphat e (AMP) to leucine ratio	GCST90200970	3	5786226	G	A	8201	0.07	0.02	0.00	0.00	20.88
rs14888250 5	Adenosine 5'- monophosphat e (AMP) to leucine ratio	GCST90200970	3	8799831	T	A	8201	-0.30	0.06	0.00	0.00	26.50
rs76097375	Adenosine 5'- monophosphat e (AMP) to leucine ratio	GCST90200970	3	169902054	T	A	8201	-0.12	0.03	0.00	0.00	21.29
rs6792151	Adenosine 5'- monophosphat e (AMP) to leucine ratio	GCST90200970	3	171812145	G	T	8201	0.10	0.02	0.00	0.00	23.17
rs194493	Adenosine 5'- monophosphat e (AMP) to leucine ratio	GCST90200970	5	73051700	G	T	8201	-0.07	0.02	0.00	0.00	20.28
rs11224924 1	Adenosine 5'- monophosphat e (AMP) to leucine ratio	GCST90200970	6	7044289	A	C	8201	-0.31	0.07	0.00	0.00	20.73
rs14130242 5	Adenosine 5'- monophosphat e (AMP) to leucine ratio	GCST90200970	8	10152271	A	G	8201	0.40	0.08	0.00	0.00	22.83
rs9407294	Adenosine 5'- monophosphat e (AMP) to leucine ratio	GCST90200970	9	529429	C	G	8201	0.14	0.03	0.00	0.00	20.83
rs14613383 1	Adenosine 5'- monophosphat e (AMP) to leucine ratio	GCST90200970	9	88286696	T	C	8201	0.39	0.08	0.00	0.00	20.59

rs117903959	Adenosine 5'-monophosphate (AMP) to leucine ratio	GCST90200970	10	60949914	A	C	8201	0.22	0.05	0.00	0.00	21.34
rs10466932	Adenosine 5'-monophosphate (AMP) to leucine ratio	GCST90200970	12	116397262	A	G	8201	0.10	0.02	0.00	0.00	20.39
rs76442921	Adenosine 5'-monophosphate (AMP) to leucine ratio	GCST90200970	13	46610551	T	C	8201	0.12	0.02	0.00	0.00	21.94
rs28706671	Adenosine 5'-monophosphate (AMP) to leucine ratio	GCST90200970	15	100729296	C	T	8201	-0.09	0.02	0.00	0.00	19.62
rs75039646	Adenosine 5'-monophosphate (AMP) to leucine ratio	GCST90200970	16	17540208	A	C	8201	0.14	0.03	0.00	0.00	19.64
rs12963102	Adenosine 5'-monophosphate (AMP) to leucine ratio	GCST90200970	18	45019820	T	A	8201	0.21	0.05	0.00	0.00	20.62
rs118103311	Adenosine 5'-monophosphate (AMP) to leucine ratio	GCST90200970	18	74407627	C	T	8201	-0.29	0.06	0.00	0.00	25.39
rs6511061	Adenosine 5'-monophosphate (AMP) to leucine ratio	GCST90200970	19	19944014	A	G	8201	0.12	0.03	0.00	0.00	20.29
rs117579136	Adenosine 5'-monophosphate (AMP) to leucine ratio	GCST90200970	19	55106746	C	T	8201	-0.29	0.06	0.00	0.00	23.09
rs2152093	Leucine to phosphate	GCST90200971	1	61287283	A	G	8298	-0.08	0.02	0.00	0.00	20.94
rs77642589	Leucine to phosphate	GCST90200971	2	63367207	C	T	8298	0.15	0.03	0.00	0.00	21.29
rs140078174	Leucine to phosphate	GCST90200971	2	75572834	T	A	8298	-0.28	0.06	0.00	0.00	19.77
rs707063	Leucine to phosphate	GCST90200971	2	154428791	A	T	8298	0.10	0.02	0.00	0.00	19.58
rs77275380	Leucine to phosphate	GCST90200971	2	178004749	T	C	8298	0.30	0.07	0.00	0.00	19.52
rs79201448	Leucine to phosphate	GCST90200971	2	240141004	A	G	8298	0.27	0.06	0.00	0.00	21.86
rs7433704	Leucine to phosphate	GCST90200971	3	18038200	G	A	8298	0.12	0.03	0.00	0.00	21.21
rs4604087	Leucine to phosphate	GCST90200971	4	44373936	G	A	8298	-0.15	0.03	0.00	0.00	20.12
rs10059397	Leucine to phosphate	GCST90200971	5	11151807	G	C	8298	-0.07	0.01	0.00	0.00	25.64
rs6923565	Leucine to phosphate	GCST90200971	6	33739335	A	G	8298	0.13	0.03	0.00	0.00	21.34
rs35081598	Leucine to phosphate	GCST90200971	6	87789314	A	G	8298	-0.33	0.07	0.00	0.00	20.19
rs80197269	Leucine to phosphate	GCST90200971	6	90795443	G	A	8298	-0.16	0.03	0.00	0.00	22.83
rs7769862	Leucine to phosphate	GCST90200971	6	158783394	A	T	8298	0.08	0.02	0.00	0.00	21.86
rs79964244	Leucine to phosphate	GCST90200971	6	165163763	T	C	8298	-0.16	0.03	0.00	0.00	21.11
rs10227729	Leucine to phosphate	GCST90200971	7	25466138	C	T	8298	0.11	0.02	0.00	0.00	30.33
rs7779835	Leucine to phosphate	GCST90200971	7	80057667	C	T	8298	0.22	0.05	0.00	0.00	21.16
rs80084508	Leucine to phosphate	GCST90200971	8	3615793	T	G	8298	-0.12	0.03	0.00	0.00	21.18
rs75847252	Leucine to phosphate	GCST90200971	9	68868565	C	T	8298	0.25	0.05	0.00	0.00	22.20
rs113979038	Leucine to phosphate	GCST90200971	9	87880785	A	G	8298	-0.20	0.04	0.00	0.00	27.33

rs17558155	Leucine to phosphate	GCST90200971	10	9295413	A	C	8298	0.11	0.02	0.00	0.00	20.97
rs7101022	Leucine to phosphate	GCST90200971	10	119361656	A	G	8298	-0.08	0.02	0.00	0.00	19.70
rs4433560	Leucine to phosphate	GCST90200971	11	45232315	A	T	8298	-0.09	0.02	0.00	0.00	21.86
rs9596009	Leucine to phosphate	GCST90200971	13	48793144	G	T	8298	-0.13	0.03	0.00	0.00	19.61
rs758266	Leucine to phosphate	GCST90200971	14	72467955	A	C	8298	0.07	0.02	0.00	0.00	19.84
rs2181343	Leucine to phosphate	GCST90200971	14	102526966	A	C	8298	0.07	0.02	0.00	0.00	21.22
rs191305623	Leucine to phosphate	GCST90200971	19	47835358	C	T	8298	0.33	0.07	0.00	0.00	19.68
rs6118435	Leucine to phosphate	GCST90200971	20	9035417	A	G	8298	0.07	0.01	0.00	0.00	20.08
rs1168041	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	1	62494579	C	T	8198	-0.08	0.02	0.00	0.00	23.69
rs111499087	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	1	104695613	A	T	8198	0.23	0.05	0.00	0.00	19.72
rs12096645	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	1	183960637	T	C	8198	0.07	0.02	0.00	0.00	22.91
rs1432262	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	2	221202727	T	A	8198	0.07	0.02	0.00	0.00	21.79
rs34904621	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	3	33217571	T	C	8198	0.08	0.02	0.00	0.00	23.28
rs11128105	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	3	68905942	C	G	8198	-0.08	0.02	0.00	0.00	23.36
rs78989726	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	3	140477359	G	T	8198	0.12	0.03	0.00	0.00	19.68
rs2973208	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	4	37564673	A	T	8198	0.14	0.03	0.00	0.00	20.77
rs2326837	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	6	6901426	G	A	8198	-0.07	0.02	0.00	0.00	21.71
rs12379888	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	9	109166733	T	C	8198	-0.08	0.02	0.00	0.00	20.93
rs1858610	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	10	94280637	A	G	8198	0.08	0.02	0.00	0.00	23.04

rs74594145	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	11	10005989	C	T	8198	0.21	0.04	0.00	0.00	23.07
rs140102715	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	11	45667992	A	G	8198	0.33	0.07	0.00	0.00	21.54
rs11169300	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	12	50179044	C	T	8198	-0.07	0.02	0.00	0.00	20.86
rs17598693	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	13	42193181	G	A	8198	-0.18	0.04	0.00	0.00	21.93
rs1959873	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	14	95023923	C	T	8198	0.08	0.02	0.00	0.00	24.13
rs11854656	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	15	58420746	C	A	8198	-0.07	0.02	0.00	0.00	22.40
rs62036939	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	16	3945675	T	C	8198	-0.08	0.02	0.00	0.00	20.14
rs2738675	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	16	78469172	A	G	8198	-0.12	0.02	0.00	0.00	21.94
rs113497232	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	17	37037832	T	C	8198	-0.30	0.07	0.00	0.00	20.75
rs9963991	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	18	4733644	C	T	8198	-0.08	0.02	0.00	0.00	23.67
rs60659177	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	18	48869849	A	G	8198	-0.07	0.02	0.00	0.00	20.04
rs16986570	Leucine to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90200972	21	30311245	T	C	8198	-0.25	0.06	0.00	0.00	19.66
rs11210993	Proline to glutamate	GCST90200973	1	38576613	T	C	8185	-0.07	0.02	0.00	0.00	20.36
rs142661815	Proline to glutamate	GCST90200973	2	99194851	A	G	8185	-0.36	0.07	0.00	0.00	24.69
rs17423699	Proline to glutamate	GCST90200973	3	111713958	A	G	8185	0.14	0.03	0.00	0.00	20.40
rs79656653	Proline to glutamate	GCST90200973	3	150679530	A	C	8185	-0.21	0.04	0.00	0.00	22.62
rs114811062	Proline to glutamate	GCST90200973	4	171071979	A	G	8185	0.16	0.03	0.00	0.00	23.53
rs186689900	Proline to glutamate	GCST90200973	4	185989112	G	A	8185	0.45	0.10	0.00	0.00	19.82
rs62354638	Proline to glutamate	GCST90200973	5	36638487	A	G	8185	0.26	0.04	0.00	0.00	34.95

rs61747619	Proline to glutamate	GCST90200973	5	141863292	C	G	8185	-0.29	0.07	0.00	0.00	19.51
rs76822057	Proline to glutamate	GCST90200973	6	55095645	A	G	8185	-0.30	0.07	0.00	0.00	20.56
rs117117166	Proline to glutamate	GCST90200973	6	137240271	C	T	8185	-0.24	0.05	0.00	0.00	21.46
rs6963576	Proline to glutamate	GCST90200973	7	40884765	T	C	8185	-0.19	0.04	0.00	0.00	21.05
rs111934662	Proline to glutamate	GCST90200973	7	53933560	A	T	8185	-0.12	0.02	0.00	0.00	27.28
rs150221731	Proline to glutamate	GCST90200973	7	101194997	T	C	8185	0.30	0.06	0.00	0.00	21.96
rs117018004	Proline to glutamate	GCST90200973	8	11298452	A	G	8185	0.81	0.18	0.00	0.00	20.61
rs117749589	Proline to glutamate	GCST90200973	8	15362251	T	C	8185	-0.36	0.08	0.00	0.00	19.56
rs7827943	Proline to glutamate	GCST90200973	8	72493397	G	A	8185	-0.08	0.02	0.00	0.00	19.64
rs77627840	Proline to glutamate	GCST90200973	9	80761452	T	G	8185	-0.19	0.04	0.00	0.00	22.14
rs670051	Proline to glutamate	GCST90200973	9	125635176	G	C	8185	-0.17	0.03	0.00	0.00	27.44
rs1118898	Proline to glutamate	GCST90200973	13	86339121	C	T	8185	0.14	0.03	0.00	0.00	19.82
rs1478210	Proline to glutamate	GCST90200973	15	53873412	A	C	8185	0.07	0.02	0.00	0.00	20.89
rs445746	Proline to glutamate	GCST90200973	16	4099766	A	T	8185	0.12	0.02	0.00	0.00	22.18
rs11640635	Proline to glutamate	GCST90200973	16	60429157	G	A	8185	-0.17	0.04	0.00	0.00	22.58
rs2660831	Proline to glutamate	GCST90200973	17	17456732	C	T	8185	0.11	0.02	0.00	0.00	21.81
rs8089486	Proline to glutamate	GCST90200973	18	10703087	T	C	8185	0.09	0.02	0.00	0.00	20.78
rs2518814	Proline to glutamate	GCST90200973	22	18973132	T	C	8185	0.24	0.03	0.00	0.01	86.43
rs17258815	Phosphate to proline ratio	GCST90200974	1	207182117	A	G	8241	-0.07	0.02	0.00	0.00	21.74
rs4670191	Phosphate to proline ratio	GCST90200974	2	33543901	G	C	8241	0.07	0.02	0.00	0.00	21.78
rs479250	Phosphate to proline ratio	GCST90200974	2	166127146	T	C	8241	-0.10	0.02	0.00	0.00	21.42
rs77275380	Phosphate to proline ratio	GCST90200974	2	178004749	T	C	8241	-0.32	0.07	0.00	0.00	21.64
rs115998097	Phosphate to proline ratio	GCST90200974	2	221009591	T	C	8241	-0.24	0.05	0.00	0.00	21.45
rs4955185	Phosphate to proline ratio	GCST90200974	3	31219006	A	C	8241	0.07	0.02	0.00	0.00	20.91
rs9813090	Phosphate to proline ratio	GCST90200974	3	106507676	A	C	8241	0.08	0.02	0.00	0.00	23.90
rs77824893	Phosphate to proline ratio	GCST90200974	4	26942631	G	T	8241	0.27	0.06	0.00	0.00	19.86
rs4604087	Phosphate to proline ratio	GCST90200974	4	44373936	G	A	8241	0.15	0.03	0.00	0.00	19.70
rs9469581	Phosphate to proline ratio	GCST90200974	6	33748127	A	C	8241	-0.13	0.03	0.00	0.00	21.75
rs10511825	Phosphate to proline ratio	GCST90200974	9	28222608	C	T	8241	0.08	0.02	0.00	0.00	21.65
rs61858978	Phosphate to proline ratio	GCST90200974	10	80052460	A	G	8241	-0.33	0.07	0.00	0.00	22.02
rs75504128	Phosphate to proline ratio	GCST90200974	10	133022200	T	C	8241	0.11	0.03	0.00	0.00	20.51
rs142292830	Phosphate to proline ratio	GCST90200974	11	58677663	G	A	8241	0.20	0.04	0.00	0.00	22.37
rs76710168	Phosphate to proline ratio	GCST90200974	11	98370869	C	T	8241	-0.34	0.07	0.00	0.00	20.80
rs10770824	Phosphate to proline ratio	GCST90200974	12	21533137	G	C	8241	0.08	0.02	0.00	0.00	23.03
rs79515988	Phosphate to proline ratio	GCST90200974	12	48932491	C	T	8241	0.12	0.03	0.00	0.00	19.58
rs117330511	Phosphate to proline ratio	GCST90200974	12	128546889	G	A	8241	0.35	0.07	0.00	0.00	21.83
rs75078370	Phosphate to proline ratio	GCST90200974	14	35370567	T	C	8241	0.13	0.03	0.00	0.00	20.38

rs28538466	Phosphate to proline ratio	GCST90200974	15	67339968	G	C	8241	-0.15	0.03	0.00	0.00	20.46
rs28588186	Phosphate to proline ratio	GCST90200974	16	19898991	G	C	8241	0.08	0.02	0.00	0.00	20.43
rs1557184	Phosphate to proline ratio	GCST90200974	20	61866795	A	G	8241	0.08	0.02	0.00	0.00	22.14
rs36970574	Phosphate to proline ratio	GCST90200974	22	18972632	A	G	8241	-0.40	0.02	0.00	0.03	268.98
rs13433658	Phosphate to proline ratio	GCST90200974	22	19028734	G	C	8241	0.12	0.02	0.00	0.00	36.68
rs1040168	(20:4n6) to caffeine ratio	GCST90200975	3	54994003	C	T	8000	0.08	0.02	0.00	0.00	21.44
rs75915828	(20:4n6) to caffeine ratio	GCST90200975	3	186890347	A	G	8000	0.44	0.09	0.00	0.00	24.63
rs11578815	(20:4n6) to caffeine ratio	GCST90200975	4	4325891	G	A	8000	-0.20	0.05	0.00	0.00	20.13
rs11400206	(20:4n6) to caffeine ratio	GCST90200975	4	54359158	T	G	8000	-0.23	0.05	0.00	0.00	25.58
rs14079943	(20:4n6) to caffeine ratio	GCST90200975	6	126782974	T	C	8000	-0.43	0.09	0.00	0.00	21.07
rs75517156	(20:4n6) to caffeine ratio	GCST90200975	6	150310633	A	G	8000	0.11	0.02	0.00	0.00	22.22
rs35455099	(20:4n6) to caffeine ratio	GCST90200975	7	123303865	G	A	8000	-0.35	0.08	0.00	0.00	20.56
rs2168621	(20:4n6) to caffeine ratio	GCST90200975	8	58365072	A	G	8000	-0.08	0.02	0.00	0.00	24.24
rs11655971	(20:4n6) to caffeine ratio	GCST90200975	9	95447888	A	G	8000	-0.45	0.09	0.00	0.00	26.95
rs11701668	(20:4n6) to caffeine ratio	GCST90200975	9	133968321	C	T	8000	-0.26	0.05	0.00	0.00	21.97
rs10906776	(20:4n6) to caffeine ratio	GCST90200975	10	14888732	G	A	8000	-0.27	0.05	0.00	0.00	24.81
rs12412089	(20:4n6) to caffeine ratio	GCST90200975	10	113579135	G	T	8000	0.09	0.02	0.00	0.00	22.06
rs174566	(20:4n6) to caffeine ratio	GCST90200975	11	61824890	G	A	8000	-0.10	0.02	0.00	0.00	34.05
rs10783298	(20:4n6) to caffeine ratio	GCST90200975	12	48991174	G	A	8000	-0.12	0.03	0.00	0.00	19.90
rs14005092	(20:4n6) to caffeine ratio	GCST90200975	12	94204021	C	T	8000	0.32	0.07	0.00	0.00	19.69
rs57189901	(20:4n6) to caffeine ratio	GCST90200975	12	107535375	C	T	8000	0.09	0.02	0.00	0.00	22.65
rs395583	(20:4n6) to caffeine ratio	GCST90200975	14	35974393	C	T	8000	0.09	0.02	0.00	0.00	23.01
rs28491088	(20:4n6) to caffeine ratio	GCST90200975	15	24911167	C	A	8000	-0.11	0.02	0.00	0.00	23.89
rs14002119	(20:4n6) to caffeine ratio	GCST90200975	15	57361427	C	T	8000	0.34	0.07	0.00	0.00	23.52
rs7497971	(20:4n6) to caffeine ratio	GCST90200975	15	91685871	A	G	8000	0.08	0.02	0.00	0.00	23.56
rs57013642	(20:4n6) to caffeine ratio	GCST90200975	16	21796451	T	C	8000	-0.31	0.06	0.00	0.00	24.08

rs76125561	Arachidonate (20:4n6) to caffeine ratio	GCST90200975	16	87829585	G	C	8000	-0.18	0.04	0.00	0.00	21.99
rs147749579	Arachidonate (20:4n6) to caffeine ratio	GCST90200975	22	25009823	T	C	8000	0.18	0.04	0.00	0.00	20.75
rs3765340	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	1	22207749	T	C	8181	0.07	0.02	0.00	0.00	19.67
rs4068540	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	1	39933269	G	A	8181	0.08	0.02	0.00	0.00	22.92
rs17374803	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	1	60795213	T	C	8181	-0.15	0.03	0.00	0.00	21.14
rs12734214	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	1	245460246	A	G	8181	-0.11	0.02	0.00	0.00	26.63
rs149140880	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	2	29127896	T	G	8181	0.44	0.10	0.00	0.00	20.86
rs4643516	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	2	35330201	G	C	8181	0.08	0.02	0.00	0.00	23.32
rs59161545	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	2	46918258	T	C	8181	-0.34	0.07	0.00	0.00	20.65
rs11693367	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	2	224561814	A	C	8181	0.17	0.04	0.00	0.00	23.54
rs16858780	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	3	184386115	C	A	8181	0.09	0.02	0.00	0.00	22.77
rs874432	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	4	9918982	A	T	8181	0.12	0.02	0.00	0.01	50.87
rs13131033	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	4	175140328	T	C	8181	0.11	0.03	0.00	0.00	19.60
rs114618260	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	5	3911077	G	A	8181	0.14	0.03	0.00	0.00	20.32
rs148214235	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	5	104075839	T	C	8181	0.11	0.02	0.00	0.00	20.33
rs3735675	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	7	967747	G	A	8181	-0.10	0.02	0.00	0.00	20.79
rs11818383	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	8	18453597	A	G	8181	0.37	0.08	0.00	0.00	21.91
rs806032	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	9	4097344	T	C	8181	0.07	0.02	0.00	0.00	20.08
rs113563418	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	9	10085822	C	T	8181	0.26	0.06	0.00	0.00	21.13

rs28407690	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	9	88724202	A	C	8181	0.15	0.03	0.00	0.00	20.36
rs78631951	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	11	58149793	T	C	8181	0.29	0.06	0.00	0.00	24.62
rs559946	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	11	64591133	C	T	8181	-0.08	0.02	0.00	0.00	22.49
rs4244857	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	12	27787225	T	C	8181	0.08	0.02	0.00	0.00	21.99
rs9576403	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	13	37948835	T	A	8181	-0.07	0.02	0.00	0.00	21.17
rs75020762	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	13	48645660	T	C	8181	0.17	0.04	0.00	0.00	20.21
rs118103311	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	18	74407627	C	T	8181	-0.30	0.06	0.00	0.00	28.36
rs8106792	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	19	29456061	T	G	8181	0.09	0.02	0.00	0.00	22.39
rs142888784	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	19	38320104	G	C	8181	-0.22	0.05	0.00	0.00	21.26
rs2424234	Adenosine 5'-monophosphate (AMP) to urate ratio	GCST90200976	20	19383335	C	T	8181	-0.10	0.02	0.00	0.00	23.08
rs115040993	(20:4n6) to paraxanthine ratio	GCST90200977	1	27611870	T	G	7776	-0.16	0.03	0.00	0.00	22.16
rs74739952	(20:4n6) to paraxanthine ratio	GCST90200977	1	223022703	G	A	7776	-0.11	0.03	0.00	0.00	20.43
rs3845828	(20:4n6) to paraxanthine ratio	GCST90200977	2	230889357	C	T	7776	0.09	0.02	0.00	0.00	27.29
rs2969249	(20:4n6) to paraxanthine ratio	GCST90200977	3	128442064	A	G	7776	-0.07	0.02	0.00	0.00	20.25
rs114002064	(20:4n6) to paraxanthine ratio	GCST90200977	4	54359158	T	G	7776	-0.22	0.05	0.00	0.00	22.31
rs72870613	(20:4n6) to paraxanthine ratio	GCST90200977	6	55869486	T	A	7776	-0.23	0.05	0.00	0.00	23.02
rs145417500	(20:4n6) to paraxanthine ratio	GCST90200977	6	126784041	A	G	7776	-0.41	0.09	0.00	0.00	19.94
rs78574673	(20:4n6) to paraxanthine ratio	GCST90200977	6	152626771	G	T	7776	-0.22	0.05	0.00	0.00	19.87

rs331845	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	7	54588730	T	G	7776	-0.14	0.03	0.00	0.00	20.43
rs11378135 8	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	8	54414605	C	T	7776	-0.24	0.05	0.00	0.00	20.24
rs57788524	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	8	95851696	A	G	7776	-0.18	0.04	0.00	0.00	20.45
rs77564300	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	10	32960310	G	C	7776	-0.21	0.05	0.00	0.00	20.50
rs74998169	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	11	1648087	T	C	7776	0.11	0.02	0.00	0.00	20.15
rs174567	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	11	61825533	G	A	7776	-0.17	0.02	0.00	0.01	100.41
rs57189901	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	12	107535375	C	T	7776	0.09	0.02	0.00	0.00	22.47
rs35605510	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	14	71702884	C	G	7776	0.27	0.06	0.00	0.00	20.75
rs28491088	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	15	24911167	C	A	7776	-0.11	0.02	0.00	0.00	24.36
rs80347317	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	15	86665391	A	G	7776	-0.41	0.09	0.00	0.00	21.79
rs57013642 8	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	16	21796451	T	C	7776	-0.31	0.06	0.00	0.00	22.83
rs57298804	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	16	57715330	G	A	7776	-0.45	0.09	0.00	0.00	23.27
rs56113850	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	19	40847202	C	T	7776	0.11	0.02	0.00	0.01	44.16
rs14285418 5	Arachidonate (20:4n6) to paraxanthine ratio	GCST90200977	22	20144605	A	G	7776	-0.27	0.06	0.00	0.00	19.73
rs6704200	Caffeine to paraxanthine ratio	GCST90200978	1	2367644	A	G	7873	-0.08	0.02	0.00	0.00	21.01
rs4915982	Caffeine to paraxanthine ratio	GCST90200978	1	64547851	T	C	7873	-0.27	0.06	0.00	0.00	22.54
rs79180034	Caffeine to paraxanthine ratio	GCST90200978	1	169766268	G	A	7873	-0.17	0.04	0.00	0.00	19.97
rs10919477	Caffeine to paraxanthine ratio	GCST90200978	1	170804651	A	C	7873	-0.14	0.03	0.00	0.00	20.15
rs780093	Caffeine to paraxanthine ratio	GCST90200978	2	27519736	C	T	7873	-0.09	0.02	0.00	0.00	29.25
rs78653897	Caffeine to paraxanthine ratio	GCST90200978	2	119217626	G	T	7873	0.23	0.05	0.00	0.00	21.10

rs7647209	Caffeine to paraxanthine ratio	GCST90200978	3	197326537	A	G	7873	-0.09	0.02	0.00	0.00	22.01
rs14954189 7	Caffeine to paraxanthine ratio	GCST90200978	4	23631110	C	T	7873	-0.39	0.09	0.00	0.00	21.08
rs13961695 9	Caffeine to paraxanthine ratio	GCST90200978	6	105615675	T	A	7873	0.42	0.09	0.00	0.00	21.26
rs11757620	Caffeine to paraxanthine ratio	GCST90200978	6	142992693	G	A	7873	0.20	0.04	0.00	0.00	20.81
rs4410790	Caffeine to paraxanthine ratio	GCST90200978	7	17244953	C	T	7873	-0.12	0.02	0.00	0.01	55.78
rs35814008	Caffeine to paraxanthine ratio	GCST90200978	7	73641131	C	A	7873	-0.11	0.02	0.00	0.00	21.54
rs7001364	Caffeine to paraxanthine ratio	GCST90200978	8	67750023	G	A	7873	0.10	0.02	0.00	0.00	20.23
rs12344593	Caffeine to paraxanthine ratio	GCST90200978	9	108938809	T	A	7873	0.14	0.03	0.00	0.00	21.75
rs174536	Caffeine to paraxanthine ratio	GCST90200978	11	61784455	C	A	7873	-0.07	0.02	0.00	0.00	19.56
rs18736282 2	Caffeine to paraxanthine ratio	GCST90200978	11	71618482	A	G	7873	0.56	0.12	0.00	0.00	21.55
rs11804188 3	Caffeine to paraxanthine ratio	GCST90200978	12	124397054	A	G	7873	-0.27	0.06	0.00	0.00	22.79
rs18475984 1	Caffeine to paraxanthine ratio	GCST90200978	13	98098939	T	C	7873	0.21	0.05	0.00	0.00	19.97
rs11286155 4	Caffeine to paraxanthine ratio	GCST90200978	14	78804895	T	C	7873	0.32	0.07	0.00	0.00	19.99
rs12903590	Caffeine to paraxanthine ratio	GCST90200978	15	58285578	T	A	7873	-0.12	0.03	0.00	0.00	19.80
rs2472297	Caffeine to paraxanthine ratio	GCST90200978	15	74735539	T	C	7873	-0.18	0.02	0.00	0.01	98.39
rs18363383 2	Caffeine to paraxanthine ratio	GCST90200978	18	23218882	T	G	7873	-0.39	0.08	0.00	0.00	21.27
rs79781366	Caffeine to paraxanthine ratio	GCST90200978	19	12523993	A	C	7873	0.11	0.02	0.00	0.00	20.89
rs11355754 4	Caffeine to paraxanthine ratio	GCST90200978	19	40789005	T	C	7873	-0.25	0.05	0.00	0.00	28.87
rs56113850	Caffeine to paraxanthine ratio	GCST90200978	19	40847202	C	T	7873	0.19	0.02	0.00	0.02	151.31
rs3211371	Caffeine to paraxanthine ratio	GCST90200978	19	41016810	T	C	7873	0.13	0.02	0.00	0.00	26.18
rs4824127	Caffeine to paraxanthine ratio	GCST90200978	22	50430496	C	A	7873	-0.08	0.02	0.00	0.00	21.64
rs14134429 9	Arachidonate (20:4n6) to linoleate	GCST90200979	1	21288545	G	A	8162	-0.37	0.08	0.00	0.00	19.68
rs79548389	(18:2n6) ratio Arachidonate (20:4n6) to linoleate (18:2n6) ratio	GCST90200979	2	47981797	T	C	8162	-0.20	0.04	0.00	0.00	20.35

rs58578755	Arachidonate (20:4n6) to linoleate	GCST90200979	2	112039846	T	G	8162	0.07	0.02	0.00	0.00	22.13
rs35500370	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	2	224387549	G	A	8162	-0.11	0.02	0.00	0.00	21.41
rs113503718	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	3	11975500	A	G	8162	0.15	0.03	0.00	0.00	20.29
rs116271755	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	4	86032256	A	C	8162	0.31	0.07	0.00	0.00	19.55
rs62422412	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	6	131112181	A	G	8162	-0.08	0.02	0.00	0.00	22.48
rs34693947	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	7	5387886	A	G	8162	0.19	0.04	0.00	0.00	19.89
rs568051617	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	7	100989113	G	T	8162	-0.35	0.08	0.00	0.00	21.45
rs73155110	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	7	133819962	T	G	8162	-0.31	0.06	0.00	0.00	24.98
rs10969273	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	9	29588406	A	G	8162	-0.08	0.02	0.00	0.00	21.52
rs700105	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	9	112157427	G	A	8162	0.10	0.02	0.00	0.00	19.91
rs4636586	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	10	113289326	T	C	8162	0.08	0.02	0.00	0.00	20.10
rs146577192	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	11	49209900	A	G	8162	0.16	0.04	0.00	0.00	20.80
rs174564	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	11	61820833	G	A	8162	-0.41	0.02	0.00	0.08	716.54
rs328266	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	11	110528217	C	G	8162	0.10	0.02	0.00	0.00	20.57
rs74672769	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	13	56926976	G	A	8162	-0.26	0.05	0.00	0.00	23.24
rs2025520	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	13	105310638	A	G	8162	0.08	0.02	0.00	0.00	21.11
rs1461645	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	14	24825683	C	G	8162	0.14	0.03	0.00	0.00	19.54
rs17636099	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	14	83777267	G	T	8162	-0.08	0.02	0.00	0.00	20.70

rs62005090	Arachidonate (20:4n6) to linoleate	GCST90200979	15	35016165	G	T	8162	-0.29	0.06	0.00	0.00	21.03
rs6498541	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	16	15046800	G	A	8162	-0.10	0.02	0.00	0.00	36.84
rs14878283 8	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	16	65757855	T	C	8162	0.29	0.06	0.00	0.00	20.10
rs78496039	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	17	80418261	C	T	8162	-0.08	0.02	0.00	0.00	20.82
rs15096257 4	(18:2n6) ratio Arachidonate (20:4n6) to linoleate	GCST90200979	19	7345458	G	T	8162	0.23	0.05	0.00	0.00	20.52
rs5997788	(18:2n6) ratio Phosphoethan (20:4n6) to linoleate	GCST90200979	22	30859042	T	G	8162	-0.07	0.02	0.00	0.00	21.32
rs56702468	olamine to choline ratio Phosphoethan	GCST90200980	1	21503847	C	T	8204	-0.10	0.02	0.00	0.00	34.59
rs79054352	olamine to choline ratio Phosphoethan	GCST90200980	1	99668717	G	C	8204	-0.15	0.03	0.00	0.00	21.16
rs6684788	olamine to choline ratio Phosphoethan	GCST90200980	1	199258986	T	A	8204	0.07	0.02	0.00	0.00	21.12
rs11468105 6	olamine to choline ratio Phosphoethan	GCST90200980	2	74822779	A	G	8204	-0.20	0.04	0.00	0.00	20.91
rs37334017 0	olamine to choline ratio Phosphoethan	GCST90200980	2	134053333	T	A	8204	-0.28	0.06	0.00	0.00	24.46
rs532106	olamine to choline ratio Phosphoethan	GCST90200980	3	125095846	C	T	8204	-0.07	0.02	0.00	0.00	19.59
rs13074642	olamine to choline ratio Phosphoethan	GCST90200980	3	188131531	C	T	8204	-0.08	0.02	0.00	0.00	22.04
rs11634819 2	olamine to choline ratio Phosphoethan	GCST90200980	4	89283378	A	T	8204	-0.34	0.07	0.00	0.00	21.33
rs11252150 0	olamine to choline ratio Phosphoethan	GCST90200980	7	63002337	C	T	8204	-0.17	0.04	0.00	0.00	19.74
rs2968562	olamine to choline ratio Phosphoethan	GCST90200980	7	140648491	A	T	8204	0.14	0.03	0.00	0.00	20.86
rs14336111 6	olamine to choline ratio Phosphoethan	GCST90200980	9	1267168	T	A	8204	-0.17	0.04	0.00	0.00	19.64
rs62572674	olamine to choline ratio Phosphoethan	GCST90200980	9	32114184	A	G	8204	0.09	0.02	0.00	0.00	20.78
rs76958245	olamine to choline ratio Phosphoethan	GCST90200980	9	93910936	A	G	8204	-0.12	0.03	0.00	0.00	19.53
rs35818823	olamine to choline ratio Phosphoethan	GCST90200980	10	18707035	T	C	8204	0.10	0.02	0.00	0.00	20.17
rs6484306	olamine to choline ratio Phosphoethan	GCST90200980	11	27496123	C	T	8204	0.08	0.02	0.00	0.00	21.95
rs78763495	olamine to choline ratio	GCST90200980	11	60155835	A	C	8204	0.29	0.06	0.00	0.00	19.98

rs72987261	Phosphoethanolamine to choline ratio	GCST90200980	11	98047926	A	C	8204	0.13	0.03	0.00	0.00	20.00
rs72653389	Phosphoethanolamine to choline ratio	GCST90200980	13	98152728	C	T	8204	-0.14	0.03	0.00	0.00	19.62
rs7157168	Phosphoethanolamine to choline ratio	GCST90200980	14	73999256	G	A	8204	0.08	0.02	0.00	0.00	21.13
rs60788707	Phosphoethanolamine to choline ratio	GCST90200980	16	14074716	T	A	8204	0.13	0.03	0.00	0.00	20.10
rs35865013	Phosphoethanolamine to choline ratio	GCST90200980	17	5512596	A	G	8204	-0.08	0.02	0.00	0.00	21.35
rs746900	Phosphoethanolamine to choline ratio	GCST90200980	17	17522813	A	T	8204	0.07	0.02	0.00	0.00	22.19
rs71380863	Phosphoethanolamine to choline ratio	GCST90200980	17	75064683	G	A	8204	-0.19	0.04	0.00	0.00	25.10
rs11878026	Phosphoethanolamine to choline ratio	GCST90200980	18	4193143	T	A	8204	-0.11	0.02	0.00	0.00	21.16
rs118173905	Phosphoethanolamine to choline ratio	GCST90200980	21	36724562	C	A	8204	-0.25	0.05	0.00	0.00	22.87
rs35090855	Caffeine to linoleate (18:2n6) ratio	GCST90200981	2	217965869	T	C	7939	0.11	0.03	0.00	0.00	19.55
rs12185903	Caffeine to linoleate (18:2n6) ratio	GCST90200981	3	109959007	T	C	7939	-0.17	0.04	0.00	0.00	22.09
rs75915828	Caffeine to linoleate (18:2n6) ratio	GCST90200981	3	186890347	A	G	7939	-0.47	0.09	0.00	0.00	28.34
rs115788152	Caffeine to linoleate (18:2n6) ratio	GCST90200981	4	4325891	G	A	7939	0.20	0.05	0.00	0.00	20.10
rs7744559	Caffeine to linoleate (18:2n6) ratio	GCST90200981	6	1335066	T	A	7939	0.08	0.02	0.00	0.00	22.81
rs369563159	Caffeine to linoleate (18:2n6) ratio	GCST90200981	7	150298820	G	A	7939	-0.29	0.06	0.00	0.00	24.91
rs12548231	Caffeine to linoleate (18:2n6) ratio	GCST90200981	8	58302521	C	A	7939	-0.09	0.02	0.00	0.00	30.69
rs4897655	Caffeine to linoleate (18:2n6) ratio	GCST90200981	8	133988274	A	G	7939	0.40	0.09	0.00	0.00	21.66
rs183722554	Caffeine to linoleate (18:2n6) ratio	GCST90200981	9	96627970	A	G	7939	-0.33	0.07	0.00	0.00	22.72
rs74069834	Caffeine to linoleate (18:2n6) ratio	GCST90200981	12	21946362	G	A	7939	-0.31	0.06	0.00	0.00	25.97
rs71458589	Caffeine to linoleate (18:2n6) ratio	GCST90200981	12	95361936	T	C	7939	-0.26	0.06	0.00	0.00	19.56
rs75565805	Caffeine to linoleate (18:2n6) ratio	GCST90200981	14	62528429	G	A	7939	-0.22	0.04	0.00	0.00	24.96
rs7497971	Caffeine to linoleate (18:2n6) ratio	GCST90200981	15	91685871	A	G	7939	-0.08	0.02	0.00	0.00	23.09
rs141826387	Caffeine to linoleate (18:2n6) ratio	GCST90200981	16	21937140	T	C	7939	0.33	0.06	0.00	0.00	26.86
rs143255655	Caffeine to linoleate (18:2n6) ratio	GCST90200981	16	31334457	C	T	7939	-0.11	0.02	0.00	0.00	19.93

rs12451888	Caffeine to linoleate (18:2n6) ratio	GCST90200981	17	57688538	G	A	7939	0.17	0.04	0.00	0.00	19.59
rs2245730	Caffeine to linoleate (18:2n6) ratio	GCST90200981	21	42705218	C	A	7939	-0.08	0.02	0.00	0.00	21.90
rs7535556	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	1	204679399	A	G	7785	0.13	0.03	0.00	0.00	22.44
rs72799346	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	2	22414570	T	G	7785	-0.24	0.05	0.00	0.00	19.78
rs77097944	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	2	33312279	T	G	7785	0.22	0.05	0.00	0.00	20.11
rs17041042	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	2	50804604	G	T	7785	0.07	0.02	0.00	0.00	20.03
rs11608218 5	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	2	72857935	C	A	7785	0.20	0.04	0.00	0.00	19.55
rs277549	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	2	120876560	G	C	7785	-0.08	0.02	0.00	0.00	20.75
rs14023142 4	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	3	181872688	A	C	7785	-0.28	0.06	0.00	0.00	19.62
rs75915828	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	3	186890347	A	G	7785	-0.39	0.09	0.00	0.00	19.59
rs4535400	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	4	6224476	C	A	7785	-0.23	0.05	0.00	0.00	23.04
rs62319871	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	4	152823528	T	C	7785	-0.41	0.08	0.00	0.00	24.48
rs27911	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	5	14707269	A	G	7785	-0.09	0.02	0.00	0.00	20.27
rs9370260	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	6	54056876	C	T	7785	0.07	0.02	0.00	0.00	19.53
rs10251284	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	7	41823111	C	G	7785	-0.08	0.02	0.00	0.00	19.75
rs14436779 6	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	13	101113469	G	A	7785	0.29	0.06	0.00	0.00	19.82
rs57013642 8	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	16	21796451	T	C	7785	0.29	0.06	0.00	0.00	20.09
rs13802719 4	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	17	14858800	T	C	7785	-0.11	0.02	0.00	0.00	19.93
rs12451888	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	17	57688538	G	A	7785	0.17	0.04	0.00	0.00	19.89
rs56113850	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	19	40847202	C	T	7785	-0.11	0.02	0.00	0.01	49.90
rs3746807	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	20	765319	A	G	7785	-0.12	0.03	0.00	0.00	20.82
rs73181800	Paraxanthine to linoleate (18:2n6) ratio	GCST90200982	22	48975797	C	A	7785	0.13	0.03	0.00	0.00	19.64
rs74619160	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	1	38487534	C	G	7624	-0.36	0.08	0.00	0.00	19.52

rs10753951	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	1	190607265	C	G	7624	-0.07	0.02	0.00	0.00	21.31
rs780108	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	2	27462090	C	T	7624	0.08	0.02	0.00	0.00	27.18
rs18915286 9	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	2	160089902	A	T	7624	-0.30	0.06	0.00	0.00	22.86
rs11303894 1	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	2	241712700	T	C	7624	-0.63	0.12	0.00	0.00	28.99
rs6442310	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	3	12316731	A	T	7624	0.07	0.02	0.00	0.00	20.41
rs14300048 4	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	4	7169761	A	G	7624	0.34	0.08	0.00	0.00	19.55
rs9398398	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	6	97323634	G	A	7624	-0.12	0.03	0.00	0.00	21.67
rs11783705 0	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	6	115981438	C	T	7624	-0.28	0.06	0.00	0.00	20.46
rs14358532 6	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	6	167228466	T	C	7624	-0.33	0.07	0.00	0.00	21.80
rs42238	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	7	73416216	T	C	7624	0.10	0.02	0.00	0.00	24.97
rs14794239 9	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	8	8673522	A	G	7624	0.39	0.08	0.00	0.00	21.87
rs4551426	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	9	9495226	A	G	7624	0.07	0.02	0.00	0.00	20.11

rs61150920	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	9	107040082	C	A	7624	-0.28	0.06	0.00	0.00	20.21
rs17177040	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	10	106502455	G	T	7624	-0.09	0.02	0.00	0.00	20.15
rs28456	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	11	61822009	G	A	7624	0.28	0.02	0.00	0.03	260.47
rs7118999	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	11	116774559	T	C	7624	0.08	0.02	0.00	0.00	20.93
rs11813347 2	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	12	88766986	G	A	7624	-0.26	0.06	0.00	0.00	21.86
rs14016780 9	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	13	92623137	T	G	7624	0.17	0.04	0.00	0.00	20.10
rs175505	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	14	75062916	T	C	7624	-0.07	0.02	0.00	0.00	20.03
rs11700754 9	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	15	72282719	G	A	7624	0.41	0.09	0.00	0.00	20.04
rs11801304 8	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	18	4031763	C	T	7624	0.34	0.07	0.00	0.00	23.83
rs17216525	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	19	19551411	T	C	7624	0.18	0.03	0.00	0.00	37.16
rs5117	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200983	19	44915533	C	T	7624	-0.17	0.02	0.00	0.01	83.25
rs74853271	Cholesterol to benzoate ratio	GCST90200984	1	231135983	A	T	7387	-0.11	0.02	0.00	0.00	20.20
rs3816191	Cholesterol to benzoate ratio	GCST90200984	2	54911242	C	T	7387	-0.07	0.02	0.00	0.00	20.18
rs11398946 2	Cholesterol to benzoate ratio	GCST90200984	3	10119238	G	C	7387	-0.30	0.06	0.00	0.00	20.70
rs4832930	Cholesterol to benzoate ratio	GCST90200984	4	37672004	A	G	7387	-0.12	0.03	0.00	0.00	19.63

rs62361684	Cholesterol to benzoate ratio	GCST90200984	5	41986962	C	G	7387	-0.13	0.03	0.00	0.00	20.97
rs57670624	Cholesterol to benzoate ratio	GCST90200984	5	78970579	T	C	7387	0.10	0.02	0.00	0.00	19.88
rs117806862	Cholesterol to benzoate ratio	GCST90200984	6	110129722	G	A	7387	-0.21	0.05	0.00	0.00	21.10
rs167269	Cholesterol to benzoate ratio	GCST90200984	6	165936942	A	G	7387	0.15	0.03	0.00	0.00	23.12
rs12246276	Cholesterol to benzoate ratio	GCST90200984	10	45738986	C	T	7387	0.09	0.02	0.00	0.00	20.10
rs10899353	Cholesterol to benzoate ratio	GCST90200984	11	77126506	T	C	7387	-0.13	0.03	0.00	0.00	19.72
rs73232839	Cholesterol to benzoate ratio	GCST90200984	13	80891505	A	G	7387	0.32	0.07	0.00	0.00	20.68
rs75136616	Cholesterol to benzoate ratio	GCST90200984	14	103894359	A	G	7387	-0.32	0.07	0.00	0.00	22.42
rs191918	Cholesterol to benzoate ratio	GCST90200984	16	12513540	A	G	7387	-0.13	0.03	0.00	0.00	21.57
rs62211593	Cholesterol to benzoate ratio	GCST90200984	20	26124342	C	T	7387	0.20	0.04	0.00	0.00	19.91
rs1436756	oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200985	1	64624083	A	G	7981	0.09	0.02	0.00	0.00	24.77
rs144546564	oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200985	1	100845540	T	C	7981	0.38	0.08	0.00	0.00	22.35
rs780108	oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200985	2	27462090	C	T	7981	0.09	0.02	0.00	0.00	32.11
rs17268364	oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200985	2	203913095	A	G	7981	-0.07	0.02	0.00	0.00	21.57
rs60512353	oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200985	2	238105470	A	G	7981	0.07	0.02	0.00	0.00	20.28
rs6773745	oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200985	3	29472715	T	C	7981	0.09	0.02	0.00	0.00	23.19
rs140628713	oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200985	3	179493170	C	G	7981	0.43	0.09	0.00	0.00	21.20
rs146289858	oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200985	4	102440604	C	T	7981	-0.29	0.06	0.00	0.00	20.86
rs835105	oleoyl-linoleoyl-glycerol (18:1 to 18:2) [2] ratio	GCST90200985	5	14945052	T	A	7981	-0.07	0.02	0.00	0.00	20.54

rs951918	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	5	123906442	A	G	7981	0.10	0.02	0.00	0.00	20.33
rs72807356	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	5	173706691	A	G	7981	-0.12	0.03	0.00	0.00	22.03
rs2251396	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	6	31396930	A	G	7981	0.08	0.02	0.00	0.00	22.41
rs58268626	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	6	150294642	T	C	7981	-0.30	0.06	0.00	0.00	23.19
rs11395471 7	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	7	23985950	A	G	7981	0.31	0.07	0.00	0.00	22.08
rs13247874	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	7	73596112	T	C	7981	0.11	0.02	0.00	0.00	33.37
rs11749750 6	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	7	96000154	T	A	7981	-0.27	0.06	0.00	0.00	20.26
rs77233841	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	7	138347975	T	C	7981	0.28	0.06	0.00	0.00	20.16
rs35166120	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	8	3242205	G	C	7981	0.09	0.02	0.00	0.00	20.62
rs2119690	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	8	20002028	A	G	7981	0.10	0.02	0.00	0.00	32.52
rs10822115	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	10	63058984	C	T	7981	-0.08	0.02	0.00	0.00	19.96
rs41291902	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	10	110279090	G	A	7981	-0.16	0.03	0.00	0.00	33.71

rs6482860	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	10	127394378	G	A	7981	0.07	0.02	0.00	0.00	20.69
rs11034323	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	11	37648836	T	C	7981	-0.10	0.02	0.00	0.00	23.50
rs174533	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	11	61781553	A	G	7981	-0.09	0.02	0.00	0.00	33.08
rs964184	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	11	116778201	C	G	7981	0.22	0.02	0.00	0.01	96.05
rs11722485 9	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	11	131806668	C	G	7981	-0.26	0.06	0.00	0.00	22.71
rs7309088	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	12	103700355	T	C	7981	0.09	0.02	0.00	0.00	32.07
rs11391942 8	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	14	46524250	C	T	7981	-0.07	0.02	0.00	0.00	20.15
rs62006723	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	15	62599755	C	T	7981	0.28	0.06	0.00	0.00	19.63
rs11727340 1	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	15	73909824	C	T	7981	-0.27	0.06	0.00	0.00	20.68
rs2280764	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	16	15759739	G	C	7981	-0.07	0.02	0.00	0.00	21.38
rs12720926	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	16	56965006	G	A	7981	0.07	0.02	0.00	0.00	22.75
rs11684306 4	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	19	8364439	A	G	7981	0.31	0.05	0.00	0.00	35.83

rs483082	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	19	44912921	T	G	7981	-0.13	0.02	0.00	0.01	48.83
rs73082975	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	20	12057336	T	C	7981	-0.22	0.05	0.00	0.00	20.54
rs131256	Cholesterol to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200985	22	29672581	T	G	7981	0.14	0.03	0.00	0.00	20.87
rs992462	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	1	69724413	G	C	7655	-0.08	0.02	0.00	0.00	20.35
rs4845238	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	1	190559861	G	T	7655	-0.07	0.02	0.00	0.00	19.65
rs780108	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	2	27462090	C	T	7655	0.07	0.02	0.00	0.00	20.32
rs9341164	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	2	216651284	C	T	7655	0.18	0.04	0.00	0.00	20.33
rs3913298	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	3	4103854	A	G	7655	0.22	0.05	0.00	0.00	21.70
rs20194969 8	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	3	21204231	A	G	7655	-0.10	0.02	0.00	0.00	23.84
rs6762835	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	3	69715641	G	A	7655	0.17	0.04	0.00	0.00	19.51
rs1597070	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	3	126253228	T	C	7655	-0.13	0.03	0.00	0.00	20.01
rs4374638	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	4	12425965	C	T	7655	-0.08	0.02	0.00	0.00	19.98

rs4599468	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	4	187919696	A	G	7655	0.11	0.02	0.00	0.00	21.94
rs1651059	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	5	31674119	G	A	7655	-0.14	0.03	0.00	0.00	24.21
rs11263196 2	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	5	77622503	T	C	7655	-0.34	0.07	0.00	0.00	21.61
rs3756963	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	6	11021921	C	T	7655	-0.08	0.02	0.00	0.00	20.92
rs2799359	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	6	46176515	T	G	7655	-0.26	0.05	0.00	0.00	23.22
rs11695829 6	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	6	154402146	G	C	7655	0.17	0.04	0.00	0.00	19.53
rs11762647 0	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	9	4312901	T	C	7655	0.33	0.07	0.00	0.00	20.53
rs10982253	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	9	97467293	A	C	7655	-0.07	0.02	0.00	0.00	20.85
rs174564	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	11	61820833	G	A	7655	0.29	0.02	0.00	0.04	301.19
rs61899030	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	11	84662453	G	T	7655	-0.08	0.02	0.00	0.00	22.22
rs2077334	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	11	116635693	A	C	7655	0.12	0.02	0.00	0.00	28.60
rs55943244	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	13	92605933	G	A	7655	0.17	0.04	0.00	0.00	19.89

rs58580571	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	14	85603441	C	A	7655	-0.20	0.04	0.00	0.00	22.05
rs117007549	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	15	72282719	G	A	7655	0.42	0.09	0.00	0.00	22.02
rs2880697	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	16	77527044	G	A	7655	0.07	0.02	0.00	0.00	20.40
rs116853426	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	17	44308277	A	G	7655	0.13	0.03	0.00	0.00	21.18
rs58542926	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	19	19268740	T	C	7655	0.16	0.03	0.00	0.00	27.57
rs1065853	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	19	44909976	T	G	7655	-0.26	0.03	0.00	0.01	80.86
rs139733702	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	20	315001	T	G	7655	0.20	0.04	0.00	0.00	23.36
rs76460391	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	20	63091669	A	G	7655	0.22	0.05	0.00	0.00	19.53
rs117420976	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	21	25389789	A	G	7655	0.31	0.07	0.00	0.00	20.60
rs2281084	Cholesterol to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200986	22	36489552	G	A	7655	-0.10	0.02	0.00	0.00	23.12
rs1168041	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	1	62494579	C	T	7162	-0.10	0.02	0.00	0.00	30.06
rs4665972	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	2	27375230	C	T	7162	0.09	0.02	0.00	0.00	26.80

rs6544902	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	2	46550480	G	T	7162	-0.08	0.02	0.00	0.00	22.13
rs11589037 2	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	3	815996	G	C	7162	0.11	0.02	0.00	0.00	19.77
rs4118360	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	3	169726525	G	A	7162	0.09	0.02	0.00	0.00	20.22
rs61013762	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	3	195032433	C	G	7162	0.16	0.03	0.00	0.00	20.62
rs28507255	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	4	17469701	G	T	7162	-0.08	0.02	0.00	0.00	19.55
rs76853181	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	5	9106113	T	C	7162	-0.16	0.04	0.00	0.00	20.56
rs12521890	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	5	105051887	C	A	7162	-0.09	0.02	0.00	0.00	24.38
rs7722566	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	5	150609334	A	G	7162	-0.08	0.02	0.00	0.00	20.63
rs9471853	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	6	42396178	C	T	7162	-0.09	0.02	0.00	0.00	21.38
rs12206594	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	6	76803146	T	C	7162	0.08	0.02	0.00	0.00	20.81
rs471096	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	6	107847347	T	A	7162	-0.08	0.02	0.00	0.00	22.43
rs62466318	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	7	73627755	T	C	7162	0.10	0.02	0.00	0.00	23.55

rs11986942	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	8	20009934	G	C	7162	0.08	0.02	0.00	0.00	20.35
rs14070286 6	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	8	41632336	A	G	7162	-0.25	0.06	0.00	0.00	20.34
rs10117377	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	9	92790155	T	C	7162	0.08	0.02	0.00	0.00	22.93
rs670201	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	10	14385217	A	G	7162	0.08	0.02	0.00	0.00	19.66
rs75975453	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	10	16700170	T	A	7162	-0.35	0.08	0.00	0.00	19.58
rs11004609	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	10	54868130	T	C	7162	0.27	0.06	0.00	0.00	23.63
rs18811252 4	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	10	90385802	T	C	7162	-0.52	0.11	0.00	0.00	20.67
rs7114557	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	11	79573391	A	G	7162	0.11	0.02	0.00	0.00	21.05
rs964184	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	11	116778201	C	G	7162	0.22	0.02	0.00	0.01	84.86
rs56430559 2	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	12	42961102	T	C	7162	-0.28	0.06	0.00	0.00	20.11
rs11741728 9	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	13	88616521	A	G	7162	0.30	0.07	0.00	0.00	21.31
rs6602912	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	13	113843576	G	T	7162	-0.09	0.02	0.00	0.00	23.02

rs117971520	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	14	99052370	G	T	7162	-0.16	0.03	0.00	0.00	20.85
rs79390617	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	16	80884924	A	G	7162	-0.11	0.02	0.00	0.00	23.72
rs141797544	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	18	24067239	T	C	7162	-0.29	0.06	0.00	0.00	20.05
rs116843064	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	19	8364439	A	G	7162	0.29	0.06	0.00	0.00	26.19
rs59007384	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	19	44893408	T	G	7162	-0.13	0.02	0.00	0.01	42.46
rs6020406	Benzoate to oleoyl- linoleoyl- glycerol (18:1 to 18:2) [2] ratio	GCST90200987	20	50268041	G	C	7162	0.09	0.02	0.00	0.00	19.71
rs1728918	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	2	27412596	G	A	6813	0.08	0.02	0.00	0.00	20.20
rs73098582	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	3	62224635	C	G	6813	0.35	0.07	0.00	0.00	22.78
rs144615798	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	3	99235402	T	A	6813	0.29	0.06	0.00	0.00	22.75
rs4301033	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	3	150324831	A	G	6813	-0.13	0.03	0.00	0.00	20.31
rs951918	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	5	123906442	A	G	6813	0.12	0.02	0.00	0.00	21.68
rs11755241	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	6	110740611	T	C	6813	-0.10	0.02	0.00	0.00	22.49

rs7900068	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	10	24408376	G	C	6813	-0.17	0.04	0.00	0.00	20.68
rs41284258	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	10	97065528	A	G	6813	0.32	0.06	0.00	0.00	27.08
rs12241529	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	10	107674172	G	C	6813	-0.42	0.10	0.00	0.00	19.69
rs28456	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	11	61822009	G	A	6813	0.27	0.02	0.00	0.03	214.20
rs1060631	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	13	52033730	T	A	6813	-0.08	0.02	0.00	0.00	19.83
rs9922316	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	16	23898631	G	T	6813	0.11	0.02	0.00	0.00	23.97
rs2058908	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	16	53772233	C	T	6813	-0.09	0.02	0.00	0.00	21.41
rs37386673 6	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	17	60016491	C	T	6813	-0.15	0.03	0.00	0.00	20.91
rs58542926	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	19	19268740	T	C	6813	0.18	0.03	0.00	0.00	29.20
rs483082	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [1] ratio	GCST90200988	19	44912921	T	G	6813	-0.16	0.02	0.00	0.01	65.25
rs17624249	Histidine to asparagine ratio	GCST90200989	3	12092141	A	G	8225	-0.26	0.05	0.00	0.00	24.48
rs35278406	Histidine to asparagine ratio	GCST90200989	5	66054216	G	A	8225	-0.18	0.04	0.00	0.00	22.29
rs14286444 2	Histidine to asparagine ratio	GCST90200989	5	106232221	A	T	8225	0.30	0.07	0.00	0.00	20.77
rs3020583	Histidine to asparagine ratio	GCST90200989	6	31383735	A	G	8225	0.08	0.02	0.00	0.00	28.22

rs11757734	Histidine to asparagine ratio	GCST90200989	6	137019842	A	T	8225	0.08	0.02	0.00	0.00	21.40
rs9478593	Histidine to asparagine ratio	GCST90200989	6	154927025	C	T	8225	-0.07	0.02	0.00	0.00	20.48
rs6957668	Histidine to asparagine ratio	GCST90200989	7	11888236	T	C	8225	0.09	0.02	0.00	0.00	19.61
rs1974562	Histidine to asparagine ratio	GCST90200989	7	97873425	C	T	8225	-0.10	0.02	0.00	0.00	31.07
rs78647930	Histidine to asparagine ratio	GCST90200989	9	5668750	G	T	8225	-0.19	0.04	0.00	0.00	20.44
rs2463822	Histidine to asparagine ratio	GCST90200989	11	62335948	C	T	8225	-0.18	0.02	0.00	0.01	57.09
rs77961165	Histidine to asparagine ratio	GCST90200989	12	45201107	T	C	8225	0.19	0.04	0.00	0.00	23.16
rs7976204	Histidine to asparagine ratio	GCST90200989	12	95971894	G	A	8225	0.09	0.02	0.00	0.00	22.28
rs10781621	Histidine to asparagine ratio	GCST90200989	12	132566349	G	A	8225	0.07	0.02	0.00	0.00	20.62
rs7323361	Histidine to asparagine ratio	GCST90200989	13	79260650	G	A	8225	0.12	0.03	0.00	0.00	19.54
rs2202359	Histidine to asparagine ratio	GCST90200989	13	89561189	G	A	8225	-0.07	0.02	0.00	0.00	21.55
rs4772247	Histidine to asparagine ratio	GCST90200989	13	99817698	A	G	8225	-0.09	0.02	0.00	0.00	19.55
rs1272514	Histidine to asparagine ratio	GCST90200989	14	20601090	C	T	8225	-0.07	0.02	0.00	0.00	21.42
rs11168851 2	Histidine to asparagine ratio	GCST90200989	14	103843837	A	G	8225	0.15	0.02	0.00	0.01	41.35
rs11623115	Histidine to asparagine ratio	GCST90200989	14	104003355	A	G	8225	-0.23	0.05	0.00	0.00	21.35
rs8012505	Histidine to asparagine ratio	GCST90200989	14	104104717	G	C	8225	-0.60	0.02	0.00	0.08	751.74
rs34593825	Histidine to asparagine ratio	GCST90200989	16	83187262	A	G	8225	0.34	0.07	0.00	0.00	22.95
rs521000	Histidine to asparagine ratio	GCST90200989	18	25968286	A	G	8225	0.11	0.02	0.00	0.00	21.04
rs13042497	Histidine to asparagine ratio	GCST90200989	20	51838677	G	T	8225	0.08	0.02	0.00	0.00	19.94
rs73201809	Histidine to asparagine ratio	GCST90200989	21	30318078	C	T	8225	-0.30	0.07	0.00	0.00	20.14
rs4821468	Histidine to asparagine ratio	GCST90200989	22	36220235	T	C	8225	-0.08	0.02	0.00	0.00	20.53
rs35601847	Benzoate to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [2] ratio	GCST90200990	1	170217137	G	T	6865	-0.08	0.02	0.00	0.00	19.86

rs2146661	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	1	175652655	T	C	6865	0.08	0.02	0.00	0.00	19.57
rs10927323	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	1	244814237	T	C	6865	-0.18	0.04	0.00	0.00	19.66
rs1728918	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	2	27412596	G	A	6865	0.09	0.02	0.00	0.00	24.50
rs14918703 2	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	2	96874928	A	G	6865	-0.36	0.08	0.00	0.00	20.16
rs11898953	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	2	132844670	T	C	6865	0.57	0.13	0.00	0.00	20.04
rs58288813	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	2	157616496	C	T	6865	0.18	0.04	0.00	0.00	21.11
rs10223008	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	4	15190381	A	C	6865	-0.08	0.02	0.00	0.00	20.16
rs79814774	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	4	121211431	T	C	6865	0.42	0.09	0.00	0.00	21.91
rs28885712	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	5	162418686	A	C	6865	-0.99	0.22	0.00	0.00	21.02
rs471096	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	6	107847347	T	A	6865	-0.08	0.02	0.00	0.00	21.35
rs11776900 9	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	6	154415423	A	G	6865	0.40	0.09	0.00	0.00	21.03
rs35958640	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	8	4272781	T	A	6865	-0.10	0.02	0.00	0.00	19.92

rs11727532 1	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	9	5226263	C	T	6865	0.21	0.05	0.00	0.00	21.84
rs7091141	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	10	45652878	C	T	6865	0.10	0.02	0.00	0.00	20.13
rs174560	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	11	61814292	C	T	6865	0.30	0.02	0.00	0.04	263.89
rs2509209	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	11	117231591	G	A	6865	-0.08	0.02	0.00	0.00	21.05
rs11047820	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	12	25084642	C	T	6865	0.08	0.02	0.00	0.00	19.74
rs34214093	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	15	62949035	A	G	6865	0.09	0.02	0.00	0.00	24.41
rs4787699	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	16	25224107	A	G	6865	-0.13	0.03	0.00	0.00	20.02
rs531635	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	18	12388303	G	A	6865	0.08	0.02	0.00	0.00	20.41
rs15010286 7	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	19	14402562	G	A	6865	-0.37	0.08	0.00	0.00	21.88
rs58542926	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	19	19268740	T	C	6865	0.17	0.03	0.00	0.00	25.65
rs483082	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	19	44912921	T	G	6865	-0.17	0.02	0.00	0.01	69.88
rs14435692 7	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	20	1075464	T	G	6865	0.44	0.10	0.00	0.00	21.25

rs2277841	Benzoate to linoleoyl- arachidonoyl- glycerol (18:2 to 20:4) [2] ratio	GCST90200990	22	36504224	C	T	6865	-0.11	0.02	0.00	0.00	24.15
rs946527	Histidine to alanine ratio	GCST90200991	1	46020298	C	T	8233	-0.09	0.02	0.00	0.00	29.30
rs11489994 7	Histidine to alanine ratio	GCST90200991	1	159395139	T	A	8233	0.36	0.08	0.00	0.00	21.24
rs1507762	Histidine to alanine ratio	GCST90200991	1	207342411	A	C	8233	0.08	0.02	0.00	0.00	20.48
rs11455436 4	Histidine to alanine ratio	GCST90200991	1	221341060	G	C	8233	-0.20	0.05	0.00	0.00	19.72
rs4509608	Histidine to alanine ratio	GCST90200991	1	248682157	T	C	8233	-0.11	0.02	0.00	0.00	19.55
rs1260326	Histidine to alanine ratio	GCST90200991	2	27508073	C	T	8233	0.09	0.02	0.00	0.00	30.60
rs13813019 8	Histidine to alanine ratio	GCST90200991	2	44992546	G	A	8233	0.31	0.07	0.00	0.00	19.69
rs17775470	Histidine to alanine ratio	GCST90200991	2	166867583	C	T	8233	0.10	0.02	0.00	0.00	20.06
rs17204145	Histidine to alanine ratio	GCST90200991	3	138202549	G	A	8233	0.08	0.02	0.00	0.00	20.20
rs11729685	Histidine to alanine ratio	GCST90200991	4	10275163	T	G	8233	-0.09	0.02	0.00	0.00	25.73
rs11242998 0	Histidine to alanine ratio	GCST90200991	4	121503718	C	T	8233	0.11	0.03	0.00	0.00	20.27
rs14377277 3	Histidine to alanine ratio	GCST90200991	4	165573716	C	T	8233	-0.33	0.07	0.00	0.00	21.38
rs11518936 3	Histidine to alanine ratio	GCST90200991	4	188915670	A	T	8233	-0.37	0.08	0.00	0.00	20.32
rs14001748 9	Histidine to alanine ratio	GCST90200991	5	61333669	T	C	8233	-0.27	0.06	0.00	0.00	21.37
rs13875906 2	Histidine to alanine ratio	GCST90200991	5	173485204	T	C	8233	0.40	0.09	0.00	0.00	21.58
rs2853940	Histidine to alanine ratio	GCST90200991	6	31281955	C	T	8233	0.08	0.02	0.00	0.00	22.38
rs45521935	Histidine to alanine ratio	GCST90200991	6	33391959	G	C	8233	0.33	0.07	0.00	0.00	21.17
rs2066106	Histidine to alanine ratio	GCST90200991	6	159508537	C	T	8233	-0.07	0.02	0.00	0.00	19.82
rs13311337	Histidine to alanine ratio	GCST90200991	7	128178895	C	G	8233	-0.07	0.02	0.00	0.00	19.82
rs76716683	Histidine to alanine ratio	GCST90200991	7	154937960	C	G	8233	-0.23	0.05	0.00	0.00	20.65
rs14202794 9	Histidine to alanine ratio	GCST90200991	10	67496883	G	A	8233	-0.19	0.04	0.00	0.00	19.83
rs11762283 2	Histidine to alanine ratio	GCST90200991	10	124075242	A	G	8233	0.37	0.08	0.00	0.00	20.77
rs7943727	Histidine to alanine ratio	GCST90200991	11	120968306	T	C	8233	-0.07	0.02	0.00	0.00	21.01
rs854394	Histidine to alanine ratio	GCST90200991	14	24836371	T	C	8233	0.08	0.02	0.00	0.00	22.20
rs58870443	Histidine to alanine ratio	GCST90200991	14	72007370	T	C	8233	-0.41	0.09	0.00	0.00	23.37
rs55746827	Histidine to alanine ratio	GCST90200991	14	95450513	C	A	8233	0.09	0.02	0.00	0.00	23.00
rs14490261 2	Histidine to alanine ratio	GCST90200991	16	12375863	A	C	8233	0.16	0.04	0.00	0.00	19.51
rs72803157	Histidine to alanine ratio	GCST90200991	16	73789932	G	A	8233	-0.46	0.10	0.00	0.00	19.89
rs72807387	Histidine to alanine ratio	GCST90200991	17	10017346	C	G	8233	0.09	0.02	0.00	0.00	21.39
rs17697700	Histidine to alanine ratio	GCST90200991	17	37674524	T	C	8233	0.23	0.05	0.00	0.00	19.88
rs7207617	Histidine to alanine ratio	GCST90200991	17	49433834	G	A	8233	-0.07	0.02	0.00	0.00	21.04
rs2845729	Histidine to alanine ratio	GCST90200991	21	35964996	G	T	8233	-0.08	0.02	0.00	0.00	28.01
rs67900830	Histidine to alanine ratio	GCST90200991	21	43195762	A	T	8233	0.11	0.03	0.00	0.00	19.54

rs10158032	Alanine to asparagine ratio	GCST90200992	1	45867029	C	T	8248	-0.08	0.02	0.00	0.00	25.02
rs13978579	Alanine to asparagine ratio	GCST90200992	1	116838361	G	A	8248	-0.29	0.06	0.00	0.00	20.10
rs114899947	Alanine to asparagine ratio	GCST90200992	1	159395139	T	A	8248	-0.40	0.08	0.00	0.00	25.28
rs780093	Alanine to asparagine ratio	GCST90200992	2	27519736	C	T	8248	-0.10	0.02	0.00	0.01	43.79
rs34655123	Alanine to asparagine ratio	GCST90200992	3	141348246	G	A	8248	0.16	0.03	0.00	0.00	26.83
rs6842321	Alanine to asparagine ratio	GCST90200992	4	128781733	A	G	8248	-0.23	0.05	0.00	0.00	21.90
rs62387070	Alanine to asparagine ratio	GCST90200992	5	100249465	A	G	8248	-0.13	0.03	0.00	0.00	20.74
rs145805579	Alanine to asparagine ratio	GCST90200992	6	16443984	T	C	8248	-0.33	0.07	0.00	0.00	21.04
rs774407	Alanine to asparagine ratio	GCST90200992	6	113241062	C	T	8248	-0.07	0.02	0.00	0.00	20.05
rs2066106	Alanine to asparagine ratio	GCST90200992	6	159508537	C	T	8248	0.07	0.02	0.00	0.00	20.88
rs28492690	Alanine to asparagine ratio	GCST90200992	7	97876552	C	T	8248	-0.09	0.02	0.00	0.00	27.17
rs118154483	Alanine to asparagine ratio	GCST90200992	7	140165394	T	C	8248	-0.28	0.06	0.00	0.00	21.12
rs56664584	Alanine to asparagine ratio	GCST90200992	8	117489197	G	A	8248	0.33	0.07	0.00	0.00	24.09
rs78322679	Alanine to asparagine ratio	GCST90200992	8	128416095	T	C	8248	0.33	0.07	0.00	0.00	25.43
rs10813109	Alanine to asparagine ratio	GCST90200992	9	29505322	A	G	8248	-0.08	0.02	0.00	0.00	23.57
rs10283676	Alanine to asparagine ratio	GCST90200992	9	111120362	G	A	8248	0.07	0.02	0.00	0.00	20.76
rs7026795	Alanine to asparagine ratio	GCST90200992	9	130250954	A	G	8248	-0.09	0.02	0.00	0.00	19.58
rs2463820	Alanine to asparagine ratio	GCST90200992	11	62344818	T	A	8248	-0.13	0.02	0.00	0.00	31.82
rs2938254	Alanine to asparagine ratio	GCST90200992	11	70904188	C	T	8248	0.09	0.02	0.00	0.00	22.59
rs140457846	Alanine to asparagine ratio	GCST90200992	11	83196226	C	A	8248	0.41	0.08	0.00	0.00	23.24
rs561801	Alanine to asparagine ratio	GCST90200992	11	103892857	A	G	8248	-0.09	0.02	0.00	0.00	19.68
rs141896433	Alanine to asparagine ratio	GCST90200992	11	114038127	G	A	8248	-0.21	0.05	0.00	0.00	19.70
rs12231725	Alanine to asparagine ratio	GCST90200992	12	25544718	A	G	8248	-0.14	0.03	0.00	0.00	20.54
rs143758141	Alanine to asparagine ratio	GCST90200992	13	62655940	T	C	8248	-0.28	0.06	0.00	0.00	22.35

rs78241835	Alanine to asparagine ratio	GCST90200992	14	35822035	C	A	8248	0.35	0.08	0.00	0.00	20.04
rs2021965	Alanine to asparagine ratio	GCST90200992	14	103530911	A	C	8248	-0.10	0.02	0.00	0.00	33.78
rs2282377	Alanine to asparagine ratio	GCST90200992	14	104105483	G	C	8248	-0.48	0.02	0.00	0.05	471.11
rs2693467	Alanine to asparagine ratio	GCST90200992	15	52403871	C	T	8248	0.14	0.03	0.00	0.00	30.49
rs7162962	Alanine to asparagine ratio	GCST90200992	15	93522063	T	C	8248	0.09	0.02	0.00	0.00	22.27
rs117965049	Alanine to asparagine ratio	GCST90200992	16	6000017	A	G	8248	0.18	0.04	0.00	0.00	20.20
rs117859636	Alanine to asparagine ratio	GCST90200992	16	81669735	A	T	8248	0.36	0.08	0.00	0.00	22.88
rs9913185	Alanine to asparagine ratio	GCST90200992	17	1230301	T	C	8248	0.11	0.02	0.00	0.00	23.25
rs76844890	Alanine to asparagine ratio	GCST90200992	17	42891452	T	G	8248	0.28	0.05	0.00	0.00	27.18
rs139962174	Alanine to asparagine ratio	GCST90200992	18	75431570	A	G	8248	0.46	0.10	0.00	0.00	19.60
rs72656253	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	1	33193468	T	A	8107	-0.13	0.02	0.00	0.00	27.81
rs61811475	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	1	148323293	C	T	8107	0.14	0.03	0.00	0.00	24.05
rs143567720	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	2	227663323	A	T	8107	-0.33	0.07	0.00	0.00	21.90
rs11128125	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	3	69340463	A	T	8107	0.13	0.03	0.00	0.00	20.25
rs146966752	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	5	124891201	G	T	8107	-0.31	0.06	0.00	0.00	23.41
rs144854422	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	6	27558758	C	G	8107	-0.45	0.10	0.00	0.00	20.08
rs76524064	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	7	105331610	G	C	8107	-0.11	0.02	0.00	0.00	24.05
rs629523	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	8	60662370	G	C	8107	0.07	0.02	0.00	0.00	22.26
rs10811198	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	9	19532480	G	T	8107	-0.11	0.02	0.00	0.00	29.14
rs34088836	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	9	78161420	A	T	8107	0.28	0.06	0.00	0.00	21.55
rs10744682	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	12	5445874	A	G	8107	-0.08	0.02	0.00	0.00	21.36

rs10859426	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	12	93115667	T	A	8107	0.07	0.02	0.00	0.00	19.94
rs72715202	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	15	33831441	C	T	8107	0.21	0.05	0.00	0.00	20.88
rs146472463	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	16	2731457	A	G	8107	-0.37	0.08	0.00	0.00	22.57
rs9922704	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	16	20549055	C	T	8107	0.25	0.05	0.00	0.00	25.33
rs62072428	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	17	15773009	C	A	8107	-0.08	0.02	0.00	0.00	23.56
rs117601457	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	18	23069508	G	A	8107	-0.20	0.04	0.00	0.00	21.13
rs7236173	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	18	69815109	T	G	8107	-0.07	0.02	0.00	0.00	20.03
rs12978426	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	19	43985876	A	G	8107	-0.31	0.07	0.00	0.00	22.87
rs62133363	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	19	54570493	C	T	8107	0.14	0.03	0.00	0.00	22.68
rs113247152	Salicylate to oxalate (ethanedioate) ratio	GCST90200993	20	14332425	C	T	8107	-0.22	0.05	0.00	0.00	20.27
rs78858642	Glutamine to alanine ratio	GCST90200994	1	14832329	A	C	8222	-0.32	0.07	0.00	0.00	19.78
rs946527	Glutamine to alanine ratio	GCST90200994	1	46020298	C	T	8222	-0.09	0.02	0.00	0.00	27.63
rs144218883	Glutamine to alanine ratio	GCST90200994	2	9646983	A	G	8222	0.30	0.06	0.00	0.00	20.82
rs780093	Glutamine to alanine ratio	GCST90200994	2	27519736	C	T	8222	0.09	0.02	0.00	0.00	35.22
rs6549879	Glutamine to alanine ratio	GCST90200994	3	28704073	C	T	8222	-0.11	0.02	0.00	0.00	20.35
rs530076937	Glutamine to alanine ratio	GCST90200994	3	197002861	T	C	8222	0.29	0.06	0.00	0.00	22.55
rs2241464	Glutamine to alanine ratio	GCST90200994	4	10157337	A	G	8222	-0.08	0.02	0.00	0.00	19.81
rs72679510	Glutamine to alanine ratio	GCST90200994	4	128486008	A	G	8222	0.35	0.08	0.00	0.00	19.70
rs75287970	Glutamine to alanine ratio	GCST90200994	5	51980017	G	T	8222	0.11	0.03	0.00	0.00	20.18
rs62353827	Glutamine to alanine ratio	GCST90200994	5	68530128	T	C	8222	0.33	0.07	0.00	0.00	19.73
rs2799367	Glutamine to alanine ratio	GCST90200994	6	46247823	A	G	8222	0.10	0.02	0.00	0.00	23.08
rs9488127	Glutamine to alanine ratio	GCST90200994	6	113274898	A	G	8222	0.12	0.03	0.00	0.00	21.31
rs737902	Glutamine to alanine ratio	GCST90200994	7	95509443	G	A	8222	-0.08	0.02	0.00	0.00	21.25
rs13227287	Glutamine to alanine ratio	GCST90200994	7	128169336	T	C	8222	-0.07	0.02	0.00	0.00	22.98
rs6995208	Glutamine to alanine ratio	GCST90200994	8	29518717	G	A	8222	0.10	0.02	0.00	0.00	19.72
rs72682574	Glutamine to alanine ratio	GCST90200994	8	120831687	A	G	8222	-0.21	0.05	0.00	0.00	19.59
rs11782116	Glutamine to alanine ratio	GCST90200994	8	126327261	G	C	8222	0.08	0.02	0.00	0.00	21.49

rs7860699	Glutamine to alanine ratio	GCST90200994	9	102305232	C	G	8222	0.08	0.02	0.00	0.00	21.65
rs3888560	Glutamine to alanine ratio	GCST90200994	9	133600220	T	G	8222	0.08	0.02	0.00	0.00	20.12
rs112715090	Glutamine to alanine ratio	GCST90200994	11	3418200	A	T	8222	0.40	0.09	0.00	0.00	21.79
rs117039198	Glutamine to alanine ratio	GCST90200994	11	74762634	G	A	8222	-0.33	0.07	0.00	0.00	24.76
rs11055732	Glutamine to alanine ratio	GCST90200994	12	14041530	G	A	8222	-0.17	0.04	0.00	0.00	21.19
rs12231725	Glutamine to alanine ratio	GCST90200994	12	25544718	A	G	8222	0.14	0.03	0.00	0.00	19.98
rs2657879	Glutamine to alanine ratio	GCST90200994	12	56471554	G	A	8222	-0.19	0.02	0.00	0.01	98.14
rs7330741	Glutamine to alanine ratio	GCST90200994	13	113377309	C	T	8222	-0.12	0.03	0.00	0.00	20.64
rs76174912	Glutamine to alanine ratio	GCST90200994	14	22486250	C	T	8222	-0.23	0.05	0.00	0.00	20.35
rs10144488	Glutamine to alanine ratio	GCST90200994	14	36046768	T	C	8222	0.14	0.03	0.00	0.00	22.86
rs117534820	Glutamine to alanine ratio	GCST90200994	14	60682277	T	C	8222	-0.13	0.03	0.00	0.00	21.97
rs78242346	Glutamine to alanine ratio	GCST90200994	14	104090567	T	C	8222	0.21	0.05	0.00	0.00	20.09
rs2693467	Glutamine to alanine ratio	GCST90200994	15	52403871	C	T	8222	-0.13	0.03	0.00	0.00	28.13
rs11629976	Glutamine to alanine ratio	GCST90200994	15	62697590	G	A	8222	-0.14	0.03	0.00	0.00	21.23
rs111814624	Glutamine to alanine ratio	GCST90200994	16	10249087	A	G	8222	0.12	0.03	0.00	0.00	21.02
rs74603763	Glutamine to alanine ratio	GCST90200994	16	24050897	T	C	8222	-0.17	0.04	0.00	0.00	20.80
rs11655630	Glutamine to alanine ratio	GCST90200994	17	2779465	T	G	8222	-0.08	0.02	0.00	0.00	23.31
rs76844890	Glutamine to alanine ratio	GCST90200994	17	42891452	T	G	8222	-0.28	0.05	0.00	0.00	28.21
rs192757635	Glutamine to alanine ratio	GCST90200994	17	73414063	A	T	8222	-0.20	0.04	0.00	0.00	23.55
rs150144474	Glutamine to alanine ratio	GCST90200994	18	79931372	T	A	8222	0.25	0.06	0.00	0.00	20.47
rs112828379	Glutamine to alanine ratio	GCST90200994	22	24198699	G	C	8222	-0.23	0.05	0.00	0.00	20.38
rs71314883	Glutamine to alanine ratio	GCST90200994	22	48934159	G	C	8222	0.16	0.03	0.00	0.00	20.35
rs17775871	taurocholate ratio	GCST90200995	2	210683950	G	A	7614	0.11	0.02	0.00	0.00	22.70
rs112048572	Salicylate to taurocholate ratio	GCST90200995	3	67290058	A	G	7614	0.25	0.05	0.00	0.00	21.13
rs17817733	Salicylate to taurocholate ratio	GCST90200995	3	80395732	C	T	7614	-0.11	0.02	0.00	0.00	22.86
rs62262813	Salicylate to taurocholate ratio	GCST90200995	3	97700291	T	C	7614	-0.36	0.08	0.00	0.00	20.16
rs12507470	Salicylate to taurocholate ratio	GCST90200995	4	108290822	A	G	7614	-0.08	0.02	0.00	0.00	19.78
rs13180948	Salicylate to taurocholate ratio	GCST90200995	5	1182536	T	C	7614	0.08	0.02	0.00	0.00	22.39
rs78270882	Salicylate to taurocholate ratio	GCST90200995	5	18916921	G	A	7614	0.16	0.04	0.00	0.00	20.21
rs114378220	Salicylate to taurocholate ratio	GCST90200995	5	111230662	T	C	7614	0.16	0.03	0.00	0.00	21.92
rs138802603	Salicylate to taurocholate ratio	GCST90200995	6	11589908	A	G	7614	0.24	0.05	0.00	0.00	20.07
rs377596054	Salicylate to taurocholate ratio	GCST90200995	7	7602420	G	T	7614	0.29	0.06	0.00	0.00	22.07

rs2578437	Salicylate to taurocholate ratio	GCST90200995	7	47159803	C	T	7614	-0.08	0.02	0.00	0.00	20.61
rs146571157	Salicylate to taurocholate ratio	GCST90200995	7	97779320	T	C	7614	-0.11	0.02	0.00	0.00	20.37
rs79931337	Salicylate to taurocholate ratio	GCST90200995	7	110842497	G	C	7614	-0.28	0.06	0.00	0.00	22.84
rs76174232	Salicylate to taurocholate ratio	GCST90200995	7	129532368	T	G	7614	0.15	0.03	0.00	0.00	23.63
rs10104865	Salicylate to taurocholate ratio	GCST90200995	8	61771734	C	G	7614	-0.08	0.02	0.00	0.00	19.93
rs12345219	Salicylate to taurocholate ratio	GCST90200995	9	19583122	C	G	7614	0.10	0.02	0.00	0.00	25.46
rs77246171	Salicylate to taurocholate ratio	GCST90200995	10	76404213	T	C	7614	-0.22	0.05	0.00	0.00	21.00
rs7110636	Salicylate to taurocholate ratio	GCST90200995	11	43038654	T	C	7614	0.07	0.02	0.00	0.00	20.74
rs10897526	Salicylate to taurocholate ratio	GCST90200995	11	64792426	C	T	7614	0.08	0.02	0.00	0.00	21.25
rs111588163	Salicylate to taurocholate ratio	GCST90200995	12	21382259	G	A	7614	0.18	0.04	0.00	0.00	20.66
rs112478330	Salicylate to taurocholate ratio	GCST90200995	12	124502852	G	C	7614	0.25	0.06	0.00	0.00	19.67
rs111435668	Salicylate to taurocholate ratio	GCST90200995	18	2679141	T	C	7614	0.22	0.05	0.00	0.00	24.39
rs75956678	Salicylate to taurocholate ratio	GCST90200995	18	9674668	G	T	7614	0.22	0.04	0.00	0.00	26.05
rs145781244	Salicylate to taurocholate ratio	GCST90200995	20	55276049	G	A	7614	0.17	0.04	0.00	0.00	19.88
rs11240076	Citrate to taurocholate ratio	GCST90200996	1	147530196	C	T	7618	-0.07	0.02	0.00	0.00	19.85
rs138400891	Citrate to taurocholate ratio	GCST90200996	1	185650445	C	G	7618	0.38	0.08	0.00	0.00	20.53
rs11682694	Citrate to taurocholate ratio	GCST90200996	2	45179998	G	A	7618	-0.08	0.02	0.00	0.00	20.00
rs142672930	Citrate to taurocholate ratio	GCST90200996	3	58745558	T	G	7618	0.31	0.07	0.00	0.00	19.85
rs191245370	Citrate to taurocholate ratio	GCST90200996	3	134416433	C	T	7618	0.25	0.05	0.00	0.00	22.68
rs55635904	Citrate to taurocholate ratio	GCST90200996	4	84714132	C	T	7618	-0.29	0.06	0.00	0.00	24.76
rs335170	Citrate to taurocholate ratio	GCST90200996	5	123146549	C	A	7618	0.08	0.02	0.00	0.00	22.04
rs72811747	Citrate to taurocholate ratio	GCST90200996	5	156291295	T	C	7618	-0.08	0.02	0.00	0.00	19.87
rs112156304	Citrate to taurocholate ratio	GCST90200996	6	69642607	T	C	7618	-0.15	0.03	0.00	0.00	19.57
rs150033131	Citrate to taurocholate ratio	GCST90200996	6	102980285	G	C	7618	-0.44	0.10	0.00	0.00	21.29

rs79931337	Citrate to taurocholate ratio	GCST90200996	7	110842497	G	C	7618	-0.29	0.06	0.00	0.00	22.98
rs2060717	Citrate to taurocholate ratio	GCST90200996	7	128740695	A	G	7618	-0.18	0.04	0.00	0.00	24.70
rs188255354	Citrate to taurocholate ratio	GCST90200996	11	121181254	T	C	7618	-0.38	0.09	0.00	0.00	19.67
rs118069598	Citrate to taurocholate ratio	GCST90200996	13	90035289	G	A	7618	-0.25	0.06	0.00	0.00	19.68
rs113867701	Citrate to taurocholate ratio	GCST90200996	16	64529200	G	C	7618	-0.34	0.07	0.00	0.00	23.79
rs76149982	Citrate to taurocholate ratio	GCST90200996	17	10808360	A	C	7618	0.17	0.03	0.00	0.00	32.64
rs117409421	Citrate to taurocholate ratio	GCST90200996	19	52505874	G	A	7618	0.21	0.05	0.00	0.00	21.02
rs2426643	Citrate to taurocholate ratio	GCST90200996	20	56717423	G	A	7618	0.08	0.02	0.00	0.00	26.48
rs10924445	Histidine to glutamine	GCST90200997	1	246008528	G	A	8223	0.08	0.02	0.00	0.00	20.65
rs1047891	Histidine to glutamine	GCST90200997	2	210675783	A	C	8223	-0.09	0.02	0.00	0.00	30.00
rs141977505	Histidine to glutamine	GCST90200997	3	59713932	T	C	8223	-0.33	0.07	0.00	0.00	23.44
rs191367098	Histidine to glutamine	GCST90200997	3	75323292	A	G	8223	-0.35	0.08	0.00	0.00	21.13
rs75875984	Histidine to glutamine	GCST90200997	4	835156	T	C	8223	-0.15	0.03	0.00	0.00	20.29
rs75466424	Histidine to glutamine	GCST90200997	4	69789125	C	T	8223	-0.15	0.03	0.00	0.00	23.07
rs144016564	Histidine to glutamine	GCST90200997	5	153914733	T	G	8223	-0.27	0.06	0.00	0.00	20.20
rs257370	Histidine to glutamine	GCST90200997	5	171661617	T	G	8223	0.07	0.02	0.00	0.00	21.65
rs45521935	Histidine to glutamine	GCST90200997	6	33391959	G	C	8223	0.32	0.07	0.00	0.00	20.44
rs12664662	Histidine to glutamine	GCST90200997	6	43817835	G	A	8223	0.12	0.03	0.00	0.00	20.05
rs4839746	Histidine to glutamine	GCST90200997	6	99346326	G	T	8223	0.07	0.02	0.00	0.00	20.40
rs802286	Histidine to glutamine	GCST90200997	6	124193616	A	G	8223	0.08	0.02	0.00	0.00	21.03
rs56296297	Histidine to glutamine	GCST90200997	6	130004119	C	T	8223	-0.12	0.03	0.00	0.00	21.10
rs552542437	Histidine to glutamine	GCST90200997	7	83592177	T	A	8223	0.42	0.10	0.00	0.00	19.86
rs145106401	Histidine to glutamine	GCST90200997	7	90499773	A	G	8223	0.16	0.04	0.00	0.00	19.85
rs72636817	Histidine to glutamine	GCST90200997	8	43762512	C	A	8223	-0.14	0.03	0.00	0.00	23.35
rs72680370	Histidine to glutamine	GCST90200997	8	118896096	G	C	8223	-0.09	0.02	0.00	0.00	20.50
rs117700123	Histidine to glutamine	GCST90200997	9	104721424	T	C	8223	0.19	0.04	0.00	0.00	19.55
rs36066734	Histidine to glutamine	GCST90200997	9	136445899	G	A	8223	-0.08	0.02	0.00	0.00	26.58
rs140902269	Histidine to glutamine	GCST90200997	10	18760749	T	G	8223	-0.39	0.08	0.00	0.00	22.01
rs7913812	Histidine to glutamine	GCST90200997	10	97597874	C	T	8223	-0.10	0.02	0.00	0.00	29.11
rs2657879	Histidine to glutamine	GCST90200997	12	56471554	G	A	8223	0.27	0.02	0.00	0.03	210.84
rs7969323	Histidine to glutamine	GCST90200997	12	68067449	C	G	8223	-0.07	0.02	0.00	0.00	19.90
rs2060548	Histidine to glutamine	GCST90200997	12	95933041	A	C	8223	-0.07	0.02	0.00	0.00	20.87
rs9558735	Histidine to glutamine	GCST90200997	13	88257851	C	T	8223	0.07	0.02	0.00	0.00	21.68

rs7147511	Histidine to glutamine	GCST90200997	14	100328481	T	C	8223	-0.07	0.02	0.00	0.00	22.43
rs28609442	Histidine to glutamine	GCST90200997	15	80372458	C	T	8223	0.07	0.02	0.00	0.00	20.47
rs12447431	Histidine to glutamine	GCST90200997	16	20056854	G	T	8223	-0.07	0.02	0.00	0.00	20.33
rs189836247	Histidine to glutamine	GCST90200997	16	85436966	T	G	8223	0.44	0.08	0.00	0.00	29.08
rs75812703	Histidine to glutamine	GCST90200997	20	41011665	T	C	8223	-0.19	0.04	0.00	0.00	22.19
rs112905927	Histidine to glutamine	GCST90200997	22	20724703	T	C	8223	-0.27	0.06	0.00	0.00	20.04
rs72656253	Salicylate to citrate ratio	GCST90200998	1	33193468	T	A	8147	-0.11	0.02	0.00	0.00	19.70
rs183304865	Salicylate to citrate ratio	GCST90200998	2	166637631	G	A	8147	-0.30	0.06	0.00	0.00	21.39
rs2730349	Salicylate to citrate ratio	GCST90200998	3	16167825	G	A	8147	0.11	0.02	0.00	0.00	21.03
rs145530615	Salicylate to citrate ratio	GCST90200998	4	15351780	A	C	8147	-0.31	0.07	0.00	0.00	19.93
rs7447381	Salicylate to citrate ratio	GCST90200998	5	124065381	T	C	8147	-0.07	0.02	0.00	0.00	20.79
rs138130770	Salicylate to citrate ratio	GCST90200998	8	104435252	C	T	8147	0.23	0.05	0.00	0.00	19.66
rs11996635	Salicylate to citrate ratio	GCST90200998	8	112151737	C	G	8147	-0.07	0.02	0.00	0.00	21.79
rs58910473	Salicylate to citrate ratio	GCST90200998	9	1279051	C	G	8147	-0.25	0.05	0.00	0.00	21.48
rs12347873	Salicylate to citrate ratio	GCST90200998	9	19585407	A	G	8147	0.12	0.03	0.00	0.00	24.35
rs1284140	Salicylate to citrate ratio	GCST90200998	11	93748799	A	G	8147	0.10	0.02	0.00	0.00	19.81
rs79146737	Salicylate to citrate ratio	GCST90200998	11	119007972	G	A	8147	0.19	0.04	0.00	0.00	20.91
rs146691572	Salicylate to citrate ratio	GCST90200998	11	122941343	T	C	8147	-0.49	0.10	0.00	0.00	24.22
rs141827194	Salicylate to citrate ratio	GCST90200998	12	85333880	A	T	8147	0.28	0.06	0.00	0.00	21.80
rs145387798	Salicylate to citrate ratio	GCST90200998	13	54009326	G	A	8147	-0.21	0.05	0.00	0.00	20.16
rs75681404	Salicylate to citrate ratio	GCST90200998	14	44752818	G	A	8147	0.23	0.05	0.00	0.00	22.00
rs144614908	Salicylate to citrate ratio	GCST90200998	15	27571733	T	G	8147	0.28	0.06	0.00	0.00	19.54
rs9922704	Salicylate to citrate ratio	GCST90200998	16	20549055	C	T	8147	0.26	0.05	0.00	0.00	27.05
rs7196912	Salicylate to citrate ratio	GCST90200998	16	20589290	T	C	8147	0.21	0.04	0.00	0.00	22.66
rs62072425	Salicylate to citrate ratio	GCST90200998	17	15769224	A	G	8147	-0.08	0.02	0.00	0.00	23.62
rs62086681	Salicylate to citrate ratio	GCST90200998	17	74629500	A	G	8147	0.19	0.04	0.00	0.00	23.35
rs9948583	Salicylate to citrate ratio	GCST90200998	18	675000	T	C	8147	-0.08	0.02	0.00	0.00	21.18
rs4547447	Salicylate to citrate ratio	GCST90200998	18	23083899	G	A	8147	-0.16	0.04	0.00	0.00	19.92
rs113247152	Salicylate to citrate ratio	GCST90200998	20	14332425	C	T	8147	-0.23	0.05	0.00	0.00	20.65
rs6125497	Salicylate to citrate ratio	GCST90200998	20	48915121	T	C	8147	-0.10	0.02	0.00	0.00	20.36
rs561141837	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	2	108660664	T	C	7755	-0.42	0.09	0.00	0.00	19.78
rs72960519	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	4	160400285	G	A	7755	0.09	0.02	0.00	0.00	22.48
rs62381246	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	5	139134446	C	T	7755	0.25	0.05	0.00	0.00	22.63

rs112156304	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	6	69642607	T	C	7755	0.18	0.03	0.00	0.00	28.83
rs41269595	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	6	166933848	T	C	7755	0.29	0.07	0.00	0.00	19.90
rs112929420	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	8	8848917	T	A	7755	0.17	0.04	0.00	0.00	19.80
rs56142017	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	10	4844540	C	G	7755	-0.16	0.04	0.00	0.00	19.67
rs2254747	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	10	89226191	T	C	7755	0.11	0.02	0.00	0.00	25.76
rs35149976	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	12	61935070	A	T	7755	-0.13	0.03	0.00	0.00	20.79
rs72632505	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	13	88227277	A	G	7755	-0.12	0.03	0.00	0.00	21.47
rs11648362	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	16	7434220	T	C	7755	0.09	0.02	0.00	0.00	23.21
rs8074131	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	17	55197481	T	C	7755	-0.14	0.03	0.00	0.00	20.55
rs62077489	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	18	2977785	T	G	7755	0.33	0.07	0.00	0.00	19.61
rs72987247	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	18	76980534	T	C	7755	-0.30	0.07	0.00	0.00	19.89
rs12460888	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	19	29772568	A	C	7755	-0.11	0.02	0.00	0.00	21.10
rs73532962	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	19	30105210	A	G	7755	0.21	0.05	0.00	0.00	19.76
rs6135546	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	20	15809491	A	G	7755	0.09	0.02	0.00	0.00	20.21
rs62206283	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	20	31853669	G	A	7755	-0.18	0.04	0.00	0.00	23.13
rs2426643	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	20	56717423	G	A	7755	-0.08	0.02	0.00	0.00	23.92
rs55944530	Taurocholate to oxalate (ethanedioate) ratio	GCST90200999	21	35431315	G	A	7755	-0.21	0.05	0.00	0.00	19.86
rs532303	Serine to threonine ratio	GCST90201000	1	119722821	G	A	8237	0.17	0.02	0.00	0.01	109.70
rs17712208	Serine to threonine ratio	GCST90201000	1	213977102	A	T	8237	-0.20	0.04	0.00	0.00	19.64
rs10171670	Serine to threonine ratio	GCST90201000	2	6292362	G	A	8237	-0.07	0.02	0.00	0.00	21.02

rs11336522 2	Serine to threonine ratio	GCST90201000	2	131824452	C	T	8237	0.10	0.02	0.00	0.00	19.72
rs1047891	Serine to threonine ratio	GCST90201000	2	210675783	A	C	8237	0.32	0.02	0.00	0.05	401.31
rs20202498 5	Serine to threonine ratio	GCST90201000	3	84810276	G	C	8237	-0.11	0.02	0.00	0.00	20.20
rs28718689	Serine to threonine ratio	GCST90201000	4	77108314	G	T	8237	0.08	0.02	0.00	0.00	22.09
rs6865899	Serine to threonine ratio	GCST90201000	5	71832276	G	A	8237	-0.18	0.04	0.00	0.00	22.08
rs6861278	Serine to threonine ratio	GCST90201000	5	97981279	C	G	8237	-0.29	0.06	0.00	0.00	20.01
rs10056688	Serine to threonine ratio	GCST90201000	5	124775331	C	G	8237	0.07	0.02	0.00	0.00	21.55
rs11557160 1	Serine to threonine ratio	GCST90201000	6	11888976	G	A	8237	-0.27	0.06	0.00	0.00	22.04
rs913075	Serine to threonine ratio	GCST90201000	6	41601168	A	G	8237	-0.09	0.02	0.00	0.00	23.58
rs6915452	Serine to threonine ratio	GCST90201000	6	143374347	T	C	8237	0.08	0.02	0.00	0.00	24.31
rs13241866	Serine to threonine ratio	GCST90201000	7	56023185	G	C	8237	0.18	0.02	0.00	0.01	105.65
rs11782481	Serine to threonine ratio	GCST90201000	8	9344611	T	C	8237	0.08	0.02	0.00	0.00	22.93
rs4738406	Serine to threonine ratio	GCST90201000	8	73972020	T	C	8237	-0.09	0.02	0.00	0.00	26.76
rs28791773	Serine to threonine ratio	GCST90201000	8	122467779	C	A	8237	0.11	0.02	0.00	0.00	19.59
rs14196715 4	Serine to threonine ratio	GCST90201000	10	32234342	T	C	8237	0.17	0.04	0.00	0.00	21.83
rs7108334	Serine to threonine ratio	GCST90201000	11	101682700	C	A	8237	-0.07	0.02	0.00	0.00	21.44
rs384988	Serine to threonine ratio	GCST90201000	11	131509299	A	G	8237	-0.08	0.02	0.00	0.00	20.30
rs14357807 5	Serine to threonine ratio	GCST90201000	12	46987694	A	G	8237	0.15	0.03	0.00	0.00	21.21
rs2211050	Serine to threonine ratio	GCST90201000	13	95341351	T	G	8237	-0.08	0.02	0.00	0.00	20.06
rs74410978	Serine to threonine ratio	GCST90201000	14	100346169	C	A	8237	0.10	0.02	0.00	0.00	40.53
rs74179939	Serine to threonine ratio	GCST90201000	19	10590048	G	C	8237	-0.07	0.02	0.00	0.00	20.62
rs2306196	Serine to threonine ratio	GCST90201000	19	38714375	T	C	8237	-0.17	0.04	0.00	0.00	22.29
rs74258066	Serine to threonine ratio	GCST90201000	19	56615860	G	C	8237	-0.13	0.03	0.00	0.00	21.31
rs7510397	Serine to threonine ratio	GCST90201000	21	39001471	T	C	8237	-0.07	0.02	0.00	0.00	21.33
rs561931	alpha- ketobutyrate ratio Serine to	GCST90201001	1	119711883	G	A	8100	0.10	0.02	0.00	0.01	42.78
rs780093	alpha- ketobutyrate ratio Serine to	GCST90201001	2	27519736	C	T	8100	0.10	0.02	0.00	0.01	41.75
rs2713248	alpha- ketobutyrate ratio Serine to	GCST90201001	2	121337080	T	C	8100	-0.12	0.03	0.00	0.00	20.38
rs1073812	alpha- ketobutyrate ratio Serine to	GCST90201001	3	116653592	G	A	8100	0.08	0.02	0.00	0.00	21.67
rs2306251	alpha- ketobutyrate ratio Serine to	GCST90201001	4	792613	C	T	8100	-0.07	0.02	0.00	0.00	20.64
rs17132647	alpha- ketobutyrate ratio	GCST90201001	4	2489968	A	G	8100	0.12	0.03	0.00	0.00	24.18

rs78030697	Serine to alpha- ketobutyrate ratio	GCST90201001	5	43920413	T	C	8100	-0.23	0.05	0.00	0.00	23.65
rs484234	Serine to alpha- ketobutyrate ratio	GCST90201001	5	78970137	T	A	8100	-0.08	0.02	0.00	0.00	19.67
rs11167984	Serine to alpha- ketobutyrate ratio	GCST90201001	5	147286162	T	C	8100	0.09	0.02	0.00	0.00	22.54
rs18139176 7	Serine to alpha- ketobutyrate ratio	GCST90201001	12	33196211	T	C	8100	0.28	0.06	0.00	0.00	20.17
rs11707756 9	Serine to alpha- ketobutyrate ratio	GCST90201001	14	91701603	C	T	8100	0.25	0.06	0.00	0.00	19.55
rs78061408	Serine to alpha- ketobutyrate ratio	GCST90201001	15	38523218	T	C	8100	-0.25	0.05	0.00	0.00	20.62
rs11688232 9	Serine to alpha- ketobutyrate ratio	GCST90201001	16	62393776	T	C	8100	0.22	0.05	0.00	0.00	21.39
rs3943110	Serine to alpha- ketobutyrate ratio	GCST90201001	16	83479530	G	A	8100	0.08	0.02	0.00	0.00	22.21
rs2529714	Serine to alpha- ketobutyrate ratio	GCST90201001	17	12391599	C	A	8100	0.14	0.03	0.00	0.00	22.25
rs79259434	Serine to alpha- ketobutyrate ratio	GCST90201001	18	40961735	G	T	8100	-0.27	0.05	0.00	0.00	32.37
rs2608514	Serine to alpha- ketobutyrate ratio	GCST90201001	19	52541452	C	T	8100	0.07	0.02	0.00	0.00	19.68
rs72630649	Maltose to sucrose ratio	GCST90201002	1	5982353	T	C	5984	0.11	0.02	0.00	0.00	21.61
rs76473856	Maltose to sucrose ratio	GCST90201002	1	23608908	C	T	5984	0.25	0.05	0.00	0.00	21.78
rs18777386 4	Maltose to sucrose ratio	GCST90201002	2	4935371	G	A	5984	0.32	0.07	0.00	0.00	22.04
rs62125201	Maltose to sucrose ratio	GCST90201002	2	12463085	T	G	5984	-0.20	0.04	0.00	0.00	25.55
rs12107834	Maltose to sucrose ratio	GCST90201002	3	175597301	A	G	5984	-0.10	0.02	0.00	0.00	23.40
rs56072177	Maltose to sucrose ratio	GCST90201002	4	188331365	G	A	5984	0.11	0.02	0.00	0.00	19.58
rs201050	Maltose to sucrose ratio	GCST90201002	6	6719986	G	A	5984	0.09	0.02	0.00	0.00	22.10
rs1936798	Maltose to sucrose ratio	GCST90201002	6	127111803	A	G	5984	0.09	0.02	0.00	0.00	21.63
rs1978323	Maltose to sucrose ratio	GCST90201002	7	78478481	T	C	5984	-0.09	0.02	0.00	0.00	19.56
rs56169540	Maltose to sucrose ratio	GCST90201002	8	5621716	T	C	5984	0.15	0.03	0.00	0.00	22.44
rs6469755	Maltose to sucrose ratio	GCST90201002	8	118544105	C	G	5984	0.29	0.06	0.00	0.00	22.92
rs11736866 1	Maltose to sucrose ratio	GCST90201002	10	112262956	A	G	5984	-0.30	0.07	0.00	0.00	20.43
rs12315626	Maltose to sucrose ratio	GCST90201002	12	91851239	G	A	5984	-0.21	0.04	0.00	0.00	22.57
rs7132105	Maltose to sucrose ratio	GCST90201002	12	128515759	T	C	5984	-0.21	0.05	0.00	0.00	19.67
rs72715085	Maltose to sucrose ratio	GCST90201002	15	45659715	G	A	5984	-0.19	0.04	0.00	0.00	20.02

rs118048720	Maltose to sucrose ratio	GCST90201002	18	51873377	C	T	5984	0.29	0.06	0.00	0.00	20.15
rs8130175	Maltose to sucrose ratio	GCST90201002	21	41096619	T	C	5984	-0.09	0.02	0.00	0.00	22.55
rs2340588	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	1	929377	A	G	8173	-0.33	0.07	0.00	0.00	19.63
rs150641499	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	1	103806369	T	G	8173	-0.45	0.10	0.00	0.00	19.52
rs142426869	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	1	170575105	G	A	8173	0.35	0.07	0.00	0.00	25.76
rs116222401	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	3	105130274	T	A	8173	-0.24	0.05	0.00	0.00	21.75
rs10948067	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	6	43231744	G	A	8173	0.07	0.02	0.00	0.00	20.16
rs28708384	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	7	926360	A	G	8173	-0.07	0.02	0.00	0.00	21.51
rs145262229	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	8	2484674	T	C	8173	0.42	0.08	0.00	0.00	26.63
rs10101987	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	8	112509694	T	C	8173	0.08	0.02	0.00	0.00	22.58
rs75169533	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	8	113505782	C	A	8173	0.25	0.05	0.00	0.00	22.12
rs2720670	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	8	128076622	A	G	8173	-0.09	0.02	0.00	0.00	21.22
rs182579749	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	8	137668716	G	A	8173	-0.30	0.06	0.00	0.00	22.39
rs16923639	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	9	104017577	A	T	8173	-0.12	0.03	0.00	0.00	20.08
rs117527835	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	10	128832309	T	C	8173	-0.22	0.05	0.00	0.00	20.66
rs11601631	Glucose to N-palmitoyl-sphingosine (d18:1 to 16:0) ratio	GCST90201003	11	50142808	A	G	8173	0.09	0.02	0.00	0.00	23.29

rs11126907 1	Glucose to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90201003	11	98016962	C	T	8173	-0.15	0.03	0.00	0.00	25.38
rs964184	Glucose to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90201003	11	116778201	C	G	8173	0.11	0.02	0.00	0.00	24.77
rs11766197 7	Glucose to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90201003	12	51882615	A	G	8173	-0.20	0.04	0.00	0.00	20.54
rs12304940	Glucose to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90201003	12	68064101	C	T	8173	-0.09	0.02	0.00	0.00	20.06
rs7136245	Glucose to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90201003	12	83147396	G	A	8173	0.18	0.04	0.00	0.00	20.59
rs12583829	Glucose to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90201003	13	81921138	T	G	8173	0.07	0.02	0.00	0.00	21.20
rs12897668	Glucose to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90201003	14	76823692	A	G	8173	-0.26	0.06	0.00	0.00	20.48
rs8037063	Glucose to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90201003	15	46292759	G	C	8173	-0.07	0.02	0.00	0.00	20.00
rs12900643	Glucose to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90201003	15	58628164	C	T	8173	-0.08	0.02	0.00	0.00	20.50
rs11790287 8	Glucose to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90201003	15	60920659	T	A	8173	-0.19	0.04	0.00	0.00	27.16
rs14304397 8	Glucose to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90201003	17	68039684	A	G	8173	0.17	0.04	0.00	0.00	21.27
rs12961923	Glucose to N- palmitoyl- sphingosine (d18:1 to 16:0) ratio	GCST90201003	18	57635037	A	G	8173	0.07	0.02	0.00	0.00	19.93
rs507168	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	1	36955095	C	A	8179	-0.08	0.02	0.00	0.00	20.20
rs12658839	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	5	166794484	A	G	8179	-0.13	0.03	0.00	0.00	22.15

rs18185227 7	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	7	145263444	A	G	8179	0.36	0.08	0.00	0.00	21.48
rs14183858 8	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	8	112611547	C	T	8179	0.14	0.03	0.00	0.00	22.68
rs10822155	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	10	63311455	A	C	8179	0.08	0.02	0.00	0.00	24.85
rs72827891	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	10	117685334	A	G	8179	-0.42	0.09	0.00	0.00	20.16
rs964184	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	11	116778201	C	G	8179	0.11	0.02	0.00	0.00	24.08
rs7310409	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	12	120987058	G	A	8179	-0.08	0.02	0.00	0.00	23.79
rs9319011	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	13	84050524	A	G	8179	-0.09	0.02	0.00	0.00	19.53
rs7160525	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	14	63765502	A	G	8179	-0.13	0.02	0.00	0.01	42.02
rs11783173 7	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	15	34077308	C	A	8179	-0.26	0.05	0.00	0.00	24.68
rs12916177	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	15	84909589	G	T	8179	-0.10	0.02	0.00	0.00	19.89
rs18839778 0	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	18	51707646	A	G	8179	0.29	0.06	0.00	0.00	20.54
rs12961923	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	18	57635037	A	G	8179	0.11	0.02	0.00	0.01	43.40
rs1466448	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	19	8224635	A	C	8179	-0.17	0.02	0.00	0.01	73.86
rs2075650	Glucose to N- stearoyl- sphingosine (d18:1 to 18:0) ratio	GCST90201004	19	44892362	G	A	8179	-0.10	0.02	0.00	0.00	20.66

rs838148	Glucose to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90201004	19	48743121	A	G	8179	0.13	0.03	0.00	0.00	19.70
rs364585	Glucose to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90201004	20	12982070	G	A	8179	0.10	0.02	0.00	0.00	40.14
rs34967683	Glucose to N-stearoyl-sphingosine (d18:1 to 18:0) ratio	GCST90201004	22	46669577	G	C	8179	0.09	0.02	0.00	0.00	26.79
rs62125202	Fructose to maltose ratio	GCST90201005	2	12463086	G	A	6307	0.20	0.04	0.00	0.00	27.73
rs112750723	Fructose to maltose ratio	GCST90201005	2	37324893	C	T	6307	0.19	0.04	0.00	0.00	24.02
rs11897733	Fructose to maltose ratio	GCST90201005	2	52140771	C	G	6307	0.09	0.02	0.00	0.00	25.78
rs13012095	Fructose to maltose ratio	GCST90201005	2	185166558	T	C	6307	0.26	0.06	0.00	0.00	20.60
rs28412709	Fructose to maltose ratio	GCST90201005	3	50693977	A	C	6307	-0.09	0.02	0.00	0.00	19.53
rs9864542	Fructose to maltose ratio	GCST90201005	3	97737064	A	C	6307	0.08	0.02	0.00	0.00	19.53
rs78147324	Fructose to maltose ratio	GCST90201005	4	56518523	A	G	6307	0.15	0.03	0.00	0.00	19.65
rs17063298	Fructose to maltose ratio	GCST90201005	4	176575413	T	C	6307	0.27	0.06	0.00	0.00	19.67
rs11155234	Fructose to maltose ratio	GCST90201005	6	142087570	T	C	6307	-0.10	0.02	0.00	0.00	20.06
rs557935143	Fructose to maltose ratio	GCST90201005	7	17177308	G	T	6307	-1.73	0.37	0.00	0.00	21.61
rs74732923	Fructose to maltose ratio	GCST90201005	8	32575466	G	T	6307	0.20	0.05	0.00	0.00	19.57
rs17466705	Fructose to maltose ratio	GCST90201005	10	8284591	T	G	6307	-0.08	0.02	0.00	0.00	20.40
rs148155043	Fructose to maltose ratio	GCST90201005	10	18500392	G	A	6307	0.50	0.09	0.00	0.00	27.91
rs4750805	Fructose to maltose ratio	GCST90201005	10	130426238	C	T	6307	-0.22	0.05	0.00	0.00	19.65
rs75973684	Fructose to maltose ratio	GCST90201005	13	23186971	A	G	6307	-0.27	0.05	0.00	0.00	29.34
rs150853827	Fructose to maltose ratio	GCST90201005	13	64298197	A	G	6307	-0.33	0.07	0.00	0.00	20.18
rs12869141	Fructose to maltose ratio	GCST90201005	13	85084320	G	C	6307	0.15	0.03	0.00	0.00	21.71
rs9525229	Fructose to maltose ratio	GCST90201005	13	114061995	T	C	6307	-0.16	0.04	0.00	0.00	20.27
rs140971620	Fructose to maltose ratio	GCST90201005	15	72253442	G	C	6307	-0.37	0.08	0.00	0.00	19.74
rs1557355	Fructose to maltose ratio	GCST90201005	18	49965593	C	T	6307	-0.08	0.02	0.00	0.00	20.01
rs79372342	Fructose to maltose ratio	GCST90201005	19	44164141	A	G	6307	-0.21	0.04	0.00	0.00	23.51
rs62132542	Fructose to maltose ratio	GCST90201005	19	54175180	A	G	6307	-0.27	0.06	0.00	0.00	22.72
rs7283263	Fructose to maltose ratio	GCST90201005	21	19982565	G	A	6307	-0.15	0.03	0.00	0.00	22.82
rs2834273	Fructose to maltose ratio	GCST90201005	21	33835217	G	T	6307	-0.13	0.03	0.00	0.00	20.17
rs111976170	Fructose to maltose ratio	GCST90201005	22	24705531	T	A	6307	0.30	0.07	0.00	0.00	20.84
rs12614998	Alpha-ketobutyrate to 3-methyl-2-oxovalerate ratio	GCST90201006	2	70558674	A	C	8136	-0.08	0.02	0.00	0.00	19.54

rs744927	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	2	119490335	G	A	8136	0.10	0.02	0.00	0.00	25.81
rs77203416	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	2	208678400	T	G	8136	-0.40	0.09	0.00	0.00	20.32
rs66984919	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	3	164520017	A	G	8136	-0.11	0.02	0.00	0.00	22.48
rs7661312	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	4	88279855	G	T	8136	-0.10	0.02	0.00	0.01	43.60
rs14747437 3	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	5	127428503	T	C	8136	-0.23	0.05	0.00	0.00	20.16
rs4736695	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	8	133544509	G	A	8136	-0.09	0.02	0.00	0.00	27.88
rs11725373 6	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	9	9567019	C	G	8136	0.38	0.09	0.00	0.00	19.88
rs34844369	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	10	11762583	G	A	8136	-0.08	0.02	0.00	0.00	23.12
rs76007716	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	10	80788129	G	A	8136	0.22	0.04	0.00	0.00	25.10
rs750937	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	11	36989908	A	G	8136	0.07	0.02	0.00	0.00	22.57
rs74334859	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	12	2461816	T	C	8136	0.21	0.05	0.00	0.00	19.96
rs4767878	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	12	120127195	G	A	8136	0.22	0.05	0.00	0.00	20.99
rs4150161	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	16	84180630	C	T	8136	-0.11	0.02	0.00	0.00	19.74
rs11731312 5	Alpha- ketobutyrate to 3-methyl-2- oxovalerate ratio	GCST90201006	20	5454900	A	C	8136	0.11	0.02	0.00	0.00	21.64

rs28535173	Alpha-ketobutyrate to 3-methyl-2-oxovalerate ratio	GCST90201006	22	50292029	T	G	8136	-0.08	0.02	0.00	0.00	20.51
rs56961508	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	1	65143804	T	A	8119	-0.25	0.06	0.00	0.00	19.62
rs76982100	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	1	73126960	A	C	8119	0.33	0.07	0.00	0.00	23.43
rs12759150	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	1	210689574	A	G	8119	0.10	0.02	0.00	0.00	20.26
rs148164244	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	2	26991122	C	T	8119	0.35	0.08	0.00	0.00	21.41
rs112500593	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	2	38559800	G	T	8119	0.31	0.07	0.00	0.00	19.68
rs1372931	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	2	173408533	T	A	8119	0.14	0.03	0.00	0.00	21.98
rs184355670	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	6	43234517	T	C	8119	-0.26	0.06	0.00	0.00	20.89
rs142947756	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	6	88952517	C	T	8119	-0.40	0.08	0.00	0.00	25.48
rs139822339	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	7	17092089	C	A	8119	-0.27	0.06	0.00	0.00	21.94
rs2515413	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	8	6508099	C	T	8119	0.10	0.02	0.00	0.00	22.17
rs13253183	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	8	61739380	A	G	8119	-0.19	0.04	0.00	0.00	20.24
rs116972937	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	9	34069289	C	T	8119	-0.11	0.02	0.00	0.00	28.47
rs116915583	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	9	105984901	T	C	8119	-0.29	0.06	0.00	0.00	22.16

rs1878616	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	10	123848326	G	A	8119	0.11	0.02	0.00	0.00	20.87
rs72904233	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	11	43899861	T	C	8119	-0.20	0.04	0.00	0.00	19.68
rs674053	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	11	86675984	A	G	8119	-0.10	0.02	0.00	0.00	22.59
rs964184	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	11	116778201	C	G	8119	0.13	0.02	0.00	0.00	32.54
rs113858193	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	13	69510512	A	G	8119	0.28	0.06	0.00	0.00	21.64
rs17101394	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	14	63765668	A	G	8119	0.10	0.02	0.00	0.00	23.81
rs1959718	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	14	87714514	T	C	8119	0.14	0.03	0.00	0.00	21.23
rs72706669	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	14	103214837	G	A	8119	-0.29	0.06	0.00	0.00	23.93
rs7166062	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	15	60922123	C	T	8119	-0.17	0.03	0.00	0.00	28.72
rs12931506	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	16	32015943	C	T	8119	-0.66	0.15	0.00	0.00	20.33
rs6505963	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	18	1918075	C	G	8119	-0.07	0.02	0.00	0.00	21.84
rs7242145	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	18	61801611	C	G	8119	-0.10	0.02	0.00	0.00	29.56
rs144112194	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	19	3617495	A	G	8119	0.24	0.05	0.00	0.00	20.40
rs1065853	Glucose to N-palmitoyl-sphinganine (d18:0 to 16:0) ratio	GCST90201007	19	44909976	T	G	8119	-0.16	0.03	0.00	0.00	32.28
rs861586	Threonine to alpha-ketobutyrate ratio	GCST90201008	1	184768865	G	A	8099	-0.08	0.02	0.00	0.00	19.58

rs11566372	Threonine to alpha- ketobutyrate ratio	GCST90201008	1	242354411	T	C	8099	0.31	0.07	0.00	0.00	20.54
rs1260326	Threonine to alpha- ketobutyrate ratio	GCST90201008	2	27508073	C	T	8099	0.12	0.02	0.00	0.01	55.04
rs2862847	Threonine to alpha- ketobutyrate ratio	GCST90201008	2	70400386	A	G	8099	0.09	0.02	0.00	0.00	24.21
rs2579650	Threonine to alpha- ketobutyrate ratio	GCST90201008	2	119469233	A	G	8099	-0.07	0.02	0.00	0.00	20.30
rs2713248	Threonine to alpha- ketobutyrate ratio	GCST90201008	2	121337080	T	C	8099	-0.12	0.03	0.00	0.00	21.39
rs715	Threonine to alpha- ketobutyrate ratio	GCST90201008	2	210678331	C	T	8099	-0.08	0.02	0.00	0.00	21.68
rs9870656	Threonine to alpha- ketobutyrate ratio	GCST90201008	3	111776713	G	T	8099	-0.07	0.02	0.00	0.00	21.41
rs78030697	Threonine to alpha- ketobutyrate ratio	GCST90201008	5	43920413	T	C	8099	-0.21	0.05	0.00	0.00	20.00
rs11952756	Threonine to alpha- ketobutyrate ratio	GCST90201008	5	147294288	G	A	8099	-0.08	0.02	0.00	0.00	20.03
rs34366075	Threonine to alpha- ketobutyrate ratio	GCST90201008	7	1342873	A	G	8099	0.33	0.07	0.00	0.00	20.02
rs11724653	Threonine to alpha- ketobutyrate ratio	GCST90201008	7	158136278	A	G	8099	-0.29	0.06	0.00	0.00	25.03
rs76879649	Threonine to alpha- ketobutyrate ratio	GCST90201008	9	29335437	G	A	8099	-0.13	0.03	0.00	0.00	20.44
rs12573238	Threonine to alpha- ketobutyrate ratio	GCST90201008	10	16861302	T	C	8099	0.10	0.02	0.00	0.00	20.49
rs13808980	Threonine to alpha- ketobutyrate ratio	GCST90201008	10	52519681	C	T	8099	-0.25	0.06	0.00	0.00	20.47
rs19989489	Threonine to alpha- ketobutyrate ratio	GCST90201008	12	37663722	A	G	8099	-0.27	0.06	0.00	0.00	19.80
rs2529714	Threonine to alpha- ketobutyrate ratio	GCST90201008	17	12391599	C	A	8099	0.15	0.03	0.00	0.00	25.25
rs79259434	Threonine to alpha- ketobutyrate ratio	GCST90201008	18	40961735	G	T	8099	-0.21	0.05	0.00	0.00	20.71
rs9963006	Threonine to alpha- ketobutyrate ratio	GCST90201008	18	59936651	A	G	8099	0.07	0.02	0.00	0.00	19.92

rs220517	Threonine to alpha- ketobutyrate ratio	GCST90201008	20	38653926	T	G	8099	0.07	0.02	0.00	0.00	20.61
rs1476441	Threonine to alpha- ketobutyrate ratio	GCST90201008	22	23145346	T	C	8099	-0.11	0.02	0.00	0.00	21.28
rs55978313	Threonine to pyruvate ratio	GCST90201009	1	229573156	T	G	8220	0.09	0.02	0.00	0.00	20.70
rs1260326	Threonine to pyruvate ratio	GCST90201009	2	27508073	C	T	8220	0.13	0.02	0.00	0.01	66.56
rs13989945 4	Threonine to pyruvate ratio	GCST90201009	2	142128546	G	C	8220	0.34	0.08	0.00	0.00	20.33
rs72937491	Threonine to pyruvate ratio	GCST90201009	2	177113322	A	T	8220	-0.12	0.03	0.00	0.00	20.48
rs55932961	Threonine to pyruvate ratio	GCST90201009	2	210685132	A	G	8220	-0.09	0.02	0.00	0.00	19.78
rs2995916	Threonine to pyruvate ratio	GCST90201009	4	37909375	G	T	8220	0.07	0.02	0.00	0.00	20.95
rs14685283 2	Threonine to pyruvate ratio	GCST90201009	4	77138061	C	T	8220	0.26	0.06	0.00	0.00	20.24
rs18522101 3	Threonine to pyruvate ratio	GCST90201009	4	109344348	T	C	8220	0.90	0.20	0.00	0.00	21.03
rs55672502	Threonine to pyruvate ratio	GCST90201009	5	16873012	T	C	8220	-0.38	0.09	0.00	0.00	19.54
rs14220555 8	Threonine to pyruvate ratio	GCST90201009	5	101504510	T	C	8220	0.25	0.05	0.00	0.00	21.14
rs62396171	Threonine to pyruvate ratio	GCST90201009	6	26628545	C	T	8220	-0.10	0.02	0.00	0.00	19.67
rs72848557	Threonine to pyruvate ratio	GCST90201009	6	36297915	A	G	8220	-0.19	0.04	0.00	0.00	19.94
rs39186	Threonine to pyruvate ratio	GCST90201009	7	11463736	C	T	8220	-0.07	0.02	0.00	0.00	20.33
rs17288010	Threonine to pyruvate ratio	GCST90201009	7	16142610	T	G	8220	0.21	0.04	0.00	0.00	21.08
rs76413600	Threonine to pyruvate ratio	GCST90201009	7	147764609	T	A	8220	0.13	0.03	0.00	0.00	19.98
rs76179290	Threonine to pyruvate ratio	GCST90201009	7	153030749	G	A	8220	0.18	0.04	0.00	0.00	23.48
rs4237051	Threonine to pyruvate ratio	GCST90201009	8	62131537	A	G	8220	0.11	0.02	0.00	0.00	20.98
rs3924761	Threonine to pyruvate ratio	GCST90201009	9	18331118	C	G	8220	-0.07	0.02	0.00	0.00	22.25
rs11127982 5	Threonine to pyruvate ratio	GCST90201009	9	129299877	G	C	8220	0.29	0.06	0.00	0.00	21.98
rs18570706 9	Threonine to pyruvate ratio	GCST90201009	10	130578164	A	G	8220	-0.42	0.09	0.00	0.00	22.16
rs11394231 8	Threonine to pyruvate ratio	GCST90201009	10	131527879	A	G	8220	0.38	0.08	0.00	0.00	21.74
rs4757110	Threonine to pyruvate ratio	GCST90201009	11	13119406	T	C	8220	-0.08	0.02	0.00	0.00	22.80
rs79314698	Threonine to pyruvate ratio	GCST90201009	12	2030326	C	A	8220	-0.24	0.05	0.00	0.00	24.51
rs3741841	Threonine to pyruvate ratio	GCST90201009	12	21542650	G	A	8220	-0.11	0.02	0.00	0.00	24.18
rs77170467	Threonine to pyruvate ratio	GCST90201009	12	113742585	T	C	8220	0.56	0.11	0.00	0.00	24.52
rs14641373 3	Threonine to pyruvate ratio	GCST90201009	12	117078449	A	G	8220	0.22	0.05	0.00	0.00	19.81
rs4905781	Threonine to pyruvate ratio	GCST90201009	14	42513498	G	A	8220	0.08	0.02	0.00	0.00	24.18
rs1109883	Threonine to pyruvate ratio	GCST90201009	14	89852186	C	T	8220	-0.07	0.02	0.00	0.00	20.06
rs13796746 6	Threonine to pyruvate ratio	GCST90201009	15	25184161	A	G	8220	-0.33	0.07	0.00	0.00	20.39
rs12910538	Threonine to pyruvate ratio	GCST90201009	15	42618159	C	G	8220	-0.10	0.02	0.00	0.00	20.65
rs18209366 3	Threonine to pyruvate ratio	GCST90201009	16	88267098	A	G	8220	-0.36	0.08	0.00	0.00	20.71
rs7221308	Threonine to pyruvate ratio	GCST90201009	17	73014523	C	T	8220	-0.11	0.02	0.00	0.00	20.31
rs54258914 0	Threonine to pyruvate ratio	GCST90201009	19	33798076	T	C	8220	-0.26	0.05	0.00	0.00	29.09

rs5998268	Threonine to pyruvate ratio	GCST90201009	22	32160075	G	A	8220	-0.08	0.02	0.00	0.00	21.68
rs14849319 2	ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	2	40126368	T	G	8142	-0.26	0.06	0.00	0.00	19.96
rs744927	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	2	119490335	G	A	8142	0.10	0.02	0.00	0.00	24.08
rs77203416	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	2	208678400	T	G	8142	-0.39	0.09	0.00	0.00	20.06
rs20098604 5	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	3	36373844	A	C	8142	-0.61	0.13	0.00	0.00	21.72
rs78532339	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	3	81586788	T	G	8142	-0.42	0.09	0.00	0.00	20.02
rs73159361	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	3	164509742	T	C	8142	-0.11	0.02	0.00	0.00	20.97
rs7661312	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	4	88279855	G	T	8142	-0.11	0.02	0.00	0.01	56.10
rs6866110	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	5	149646839	G	A	8142	0.12	0.03	0.00	0.00	19.52
rs13185628	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	5	179467824	T	C	8142	0.12	0.03	0.00	0.00	19.98
rs80018929	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	6	161333324	T	C	8142	0.10	0.02	0.00	0.00	19.80
rs4736695	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	8	133544509	G	A	8142	-0.08	0.02	0.00	0.00	21.44
rs1811676	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	10	108163382	G	A	8142	-0.10	0.02	0.00	0.00	21.17
rs4997792	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	10	130786525	G	C	8142	0.09	0.02	0.00	0.00	20.80
rs750937	Alpha- ketobutyrate to 4-methyl-2- oxopentanoate ratio	GCST90201010	11	36989908	A	G	8142	0.07	0.02	0.00	0.00	19.52

rs4767878	Alpha-ketobutyrate to 4-methyl-2-oxopentanoate ratio	GCST90201010	12	120127195	G	A	8142	0.22	0.05	0.00	0.00	19.93
rs17078882	Alpha-ketobutyrate to 4-methyl-2-oxopentanoate ratio	GCST90201010	13	23516558	A	G	8142	-0.09	0.02	0.00	0.00	19.78
rs184781942	Alpha-ketobutyrate to 4-methyl-2-oxopentanoate ratio	GCST90201010	18	79888408	T	C	8142	-0.22	0.05	0.00	0.00	24.04
rs117313125	Alpha-ketobutyrate to 4-methyl-2-oxopentanoate ratio	GCST90201010	20	5454900	A	C	8142	0.11	0.02	0.00	0.00	20.95
rs12737655	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	1	52380652	A	G	8233	-0.15	0.03	0.00	0.00	20.03
rs2395845	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	2	222128596	A	C	8233	-0.12	0.03	0.00	0.00	20.41
rs1000141	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	2	233333701	T	C	8233	0.07	0.02	0.00	0.00	22.73
rs191675623	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	3	1673465	T	C	8233	0.15	0.03	0.00	0.00	22.82
rs73102110	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	3	69497597	C	A	8233	-0.22	0.05	0.00	0.00	21.43
rs113732730	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	3	73920008	T	G	8233	0.16	0.04	0.00	0.00	20.26
rs4689805	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	4	7624180	A	G	8233	0.08	0.02	0.00	0.00	19.98
rs73225991	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	4	12603164	A	G	8233	-0.10	0.02	0.00	0.00	20.18
rs4697549	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	4	25113976	C	G	8233	-0.16	0.04	0.00	0.00	20.32
rs141588879	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	4	158989642	G	A	8233	0.18	0.04	0.00	0.00	19.76

rs2974081	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	5	85908412	C	G	8233	0.08	0.02	0.00	0.00	24.82
rs113957107	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	5	174739446	C	G	8233	-0.33	0.07	0.00	0.00	20.43
rs7779635	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	7	80903188	C	T	8233	-0.08	0.02	0.00	0.00	20.12
rs117005096	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	8	2353538	G	C	8233	-0.21	0.05	0.00	0.00	21.30
rs116919726	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	8	111778212	A	C	8233	0.12	0.03	0.00	0.00	19.98
rs146630123	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	10	110955175	T	G	8233	-0.32	0.07	0.00	0.00	24.50
rs142722792	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	11	82892192	T	C	8233	0.23	0.05	0.00	0.00	23.11
rs75204119	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	11	94574725	A	G	8233	0.28	0.06	0.00	0.00	19.84
rs12417993	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	11	128448596	C	T	8233	-0.09	0.02	0.00	0.00	20.11
rs10860876	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	12	102559298	C	T	8233	-0.11	0.02	0.00	0.00	23.10
rs8030711	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	15	87948612	C	T	8233	-0.09	0.02	0.00	0.00	19.67
rs2164029	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	18	23251045	G	A	8233	-0.07	0.02	0.00	0.00	20.26
rs13381382	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	18	45564688	T	C	8233	-0.07	0.02	0.00	0.00	21.31
rs76178213	3-methyl-2-oxovalerate to 4-methyl-2-oxopentanoate ratio	GCST90201011	20	59977816	T	C	8233	-0.28	0.06	0.00	0.00	19.57

rs4847350	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	1	94724809	C	T	8200	-0.07	0.02	0.00	0.00	20.40
rs78177403	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	1	107472612	C	A	8200	0.32	0.05	0.00	0.00	34.35
rs1000533	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	1	168313253	C	T	8200	-0.07	0.02	0.00	0.00	21.25
rs140845471	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	1	217840860	G	A	8200	-0.24	0.05	0.00	0.00	21.07
rs140605392	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	2	26453599	A	G	8200	-0.40	0.09	0.00	0.00	19.87
rs150882021	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	5	35106943	A	G	8200	0.16	0.04	0.00	0.00	20.43
rs140189036	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	6	166388107	C	T	8200	0.20	0.05	0.00	0.00	19.87
rs76665747	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	7	77327836	A	G	8200	-0.17	0.04	0.00	0.00	21.47
rs75003689	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	8	2727343	T	C	8200	0.16	0.03	0.00	0.00	20.67
rs12676561	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	8	133965671	C	T	8200	-0.07	0.02	0.00	0.00	20.16
rs55714514	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	9	84043847	C	T	8200	-0.09	0.02	0.00	0.00	19.79
rs111948662	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	11	122588952	A	G	8200	-0.23	0.05	0.00	0.00	22.74
rs11612260	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	12	56412902	G	A	8200	0.23	0.05	0.00	0.00	21.21
rs56299996	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	12	85943330	C	T	8200	0.11	0.02	0.00	0.00	21.51

rs12584035	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	13	51136820	G	A	8200	0.10	0.02	0.00	0.00	20.67
rs72695489	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	14	81998099	C	T	8200	0.10	0.02	0.00	0.00	22.38
rs59647005	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	14	87975575	T	C	8200	0.36	0.08	0.00	0.00	21.06
rs17697795	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	16	87126193	A	G	8200	-0.07	0.02	0.00	0.00	20.36
rs2164029	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	18	23251045	G	A	8200	-0.08	0.02	0.00	0.00	22.58
rs79434713	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	19	6700971	A	C	8200	-0.15	0.03	0.00	0.00	19.83
rs111526650	3-methyl-2-oxovalerate to 3-methyl-2-oxobutyrate ratio	GCST90201012	21	38390613	C	G	8200	0.36	0.08	0.00	0.00	19.80
rs699541	Androsterone glucuronide to etiocholanolone glucuronide ratio	GCST90201013	1	90460737	A	G	7555	-0.07	0.02	0.00	0.00	22.24
rs112115240	Androsterone glucuronide to etiocholanolone glucuronide ratio	GCST90201013	2	31492465	G	A	7555	-0.54	0.06	0.00	0.01	69.65
rs72794638	Androsterone glucuronide to etiocholanolone glucuronide ratio	GCST90201013	2	31561978	C	T	7555	-0.87	0.05	0.00	0.03	257.38
rs9282858	Androsterone glucuronide to etiocholanolone glucuronide ratio	GCST90201013	2	31580756	T	C	7555	-0.78	0.04	0.00	0.05	380.23
rs55834920	Androsterone glucuronide to etiocholanolone glucuronide ratio	GCST90201013	2	31626839	T	C	7555	-0.20	0.02	0.00	0.01	66.31
rs79369159	Androsterone glucuronide to etiocholanolone glucuronide ratio	GCST90201013	2	32158166	C	A	7555	0.31	0.07	0.00	0.00	21.80
rs150886780	Androsterone glucuronide to etiocholanolone glucuronide ratio	GCST90201013	2	32605036	A	C	7555	0.19	0.03	0.00	0.00	31.26

rs35578268	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	3	41765213	A	G	7555	0.17	0.03	0.00	0.00	24.86
rs6438441	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	3	118172886	A	G	7555	-0.12	0.03	0.00	0.00	20.67
rs17799056	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	4	88606172	A	G	7555	-0.10	0.02	0.00	0.00	25.98
rs15116681 6	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	5	15572568	T	C	7555	-0.41	0.09	0.00	0.00	21.54
rs13175761	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	5	126711660	A	G	7555	0.07	0.02	0.00	0.00	19.81
rs12660297	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	6	16579716	T	C	7555	-0.15	0.03	0.00	0.00	21.50
rs17086545	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	6	124050219	G	A	7555	-0.09	0.02	0.00	0.00	19.73
rs9383775	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	6	155816741	A	C	7555	0.08	0.02	0.00	0.00	21.37
rs3857868	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	7	138113018	A	T	7555	-0.10	0.02	0.00	0.00	31.27
rs11135910	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	8	26034626	T	C	7555	0.10	0.02	0.00	0.00	22.39
rs11287565 1	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	8	125494452	A	G	7555	-0.07	0.02	0.00	0.00	20.20
rs1360166	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	9	37000785	A	T	7555	-0.07	0.02	0.00	0.00	19.66
rs10125876	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	9	90905612	T	C	7555	-0.13	0.03	0.00	0.00	21.97
rs80276717	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	11	63064092	T	C	7555	0.33	0.03	0.00	0.01	113.87

rs61925944	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	12	66498328	A	G	7555	-0.20	0.04	0.00	0.00	21.86
rs11633113	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	15	61463960	G	T	7555	-0.13	0.03	0.00	0.00	22.85
rs11663673	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	18	76688592	A	G	7555	-0.36	0.08	0.00	0.00	21.73
rs7246440	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	19	12395059	G	A	7555	0.10	0.02	0.00	0.00	33.25
rs212100	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	19	47873738	C	T	7555	-0.13	0.02	0.00	0.01	44.27
rs2258237	Androsterone glucuronide to etiocholanolon e glucuronide ratio	GCST90201013	20	13983812	C	T	7555	-0.08	0.02	0.00	0.00	19.68
rs72794638	Glucuronate to androsterone glucuronide	GCST90201014	2	31561978	C	T	7804	0.25	0.05	0.00	0.00	21.99
rs9282858	Glucuronate to androsterone glucuronide	GCST90201014	2	31580756	T	C	7804	0.24	0.04	0.00	0.00	36.37
rs15132106 7	Glucuronate to androsterone glucuronide	GCST90201014	2	194581640	T	C	7804	-0.22	0.05	0.00	0.00	20.71
rs7665120	Glucuronate to androsterone glucuronide	GCST90201014	4	25048381	A	T	7804	0.07	0.01	0.00	0.00	21.06
rs34092423	Glucuronate to androsterone glucuronide	GCST90201014	4	68443582	T	G	7804	-0.08	0.02	0.00	0.00	26.84
rs13146236	Glucuronate to androsterone glucuronide	GCST90201014	4	125328294	T	C	7804	-0.13	0.03	0.00	0.00	20.96
rs11803662 1	Glucuronate to androsterone glucuronide	GCST90201014	6	169861759	A	G	7804	-0.13	0.03	0.00	0.00	19.67
rs34670419	Glucuronate to androsterone glucuronide	GCST90201014	7	99533211	T	G	7804	0.19	0.04	0.00	0.00	24.14
rs74658290	Glucuronate to androsterone glucuronide	GCST90201014	8	9144276	G	C	7804	0.13	0.03	0.00	0.00	25.79
rs6477889	Glucuronate to androsterone glucuronide	GCST90201014	9	112188452	G	A	7804	0.07	0.02	0.00	0.00	19.52
rs2031768	Glucuronate to androsterone glucuronide	GCST90201014	10	29389109	C	T	7804	0.11	0.02	0.00	0.00	19.57

rs4411188	Glucuronate to androsterone glucuronide Glucuronate	GCST90201014	10	66699899	C	T	7804	-0.06	0.01	0.00	0.00	19.96
rs113939203	to androsterone glucuronide Glucuronate	GCST90201014	11	63115255	A	T	7804	-0.82	0.03	0.00	0.10	893.74
rs540582	to androsterone glucuronide Glucuronate	GCST90201014	11	63312298	C	T	7804	0.12	0.01	0.00	0.01	67.33
rs11055015	to androsterone glucuronide Glucuronate	GCST90201014	12	12683745	G	T	7804	-0.07	0.01	0.00	0.00	19.89
rs11168719	to androsterone glucuronide Glucuronate	GCST90201014	12	48751372	A	G	7804	0.07	0.01	0.00	0.00	21.86
rs10147603	to androsterone glucuronide Glucuronate	GCST90201014	14	35479326	C	T	7804	-0.09	0.02	0.00	0.00	29.50
rs4789455	to androsterone glucuronide Glucuronate	GCST90201014	17	77497603	G	A	7804	-0.07	0.01	0.00	0.00	22.47
rs1075403	to androsterone glucuronide Glucuronate	GCST90201014	19	18274140	G	T	7804	-0.06	0.01	0.00	0.00	19.89
rs212100	to androsterone glucuronide Glucuronate	GCST90201014	19	47873738	C	T	7804	0.14	0.02	0.00	0.01	54.68
rs2824608	to androsterone glucuronide Bilirubin (Z,Z)	GCST90201014	21	18033610	G	A	7804	-0.07	0.01	0.00	0.00	21.33
rs4073886	to androsterone glucuronide ratio Bilirubin (Z,Z)	GCST90201015	1	22824838	T	C	7888	-0.14	0.03	0.00	0.00	19.58
rs79767873	to androsterone glucuronide ratio Bilirubin (Z,Z)	GCST90201015	1	56183280	C	G	7888	-0.20	0.04	0.00	0.00	20.29
rs72790679	to androsterone glucuronide ratio Bilirubin (Z,Z)	GCST90201015	2	31431289	A	G	7888	0.31	0.06	0.00	0.00	31.41
rs9282858	to androsterone glucuronide ratio Bilirubin (Z,Z)	GCST90201015	2	31580756	T	C	7888	0.31	0.04	0.00	0.01	57.67
rs832656	to androsterone glucuronide ratio Bilirubin (Z,Z)	GCST90201015	2	108067055	G	A	7888	0.08	0.02	0.00	0.00	21.73
rs6759896	to androsterone glucuronide ratio	GCST90201015	2	233302326	A	G	7888	-0.07	0.01	0.00	0.00	21.91

	Bilirubin (Z,Z) to												
rs887829	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	2	233759924	T	C	7888	0.34	0.02	0.00	0.06	499.32	
rs74387465	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	3	167477861	A	G	7888	-0.34	0.08	0.00	0.00	20.74	
rs73184354	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	3	190002862	C	T	7888	-0.28	0.06	0.00	0.00	25.12	
rs113018018	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	4	4886170	A	G	7888	0.10	0.02	0.00	0.00	22.68	
rs2616417	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	4	53621998	G	A	7888	0.07	0.01	0.00	0.00	23.62	
rs34092423	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	4	68443582	T	G	7888	-0.09	0.02	0.00	0.00	27.29	
rs74553869	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	5	61617612	T	C	7888	-0.18	0.04	0.00	0.00	21.84	
rs73013813	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	6	147162200	A	G	7888	-0.38	0.08	0.00	0.00	21.54	
rs34670419	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	7	99533211	T	G	7888	0.24	0.04	0.00	0.00	34.70	
rs567045699	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	9	85878798	C	A	7888	-0.20	0.04	0.00	0.00	23.94	
rs2994347	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	9	128365436	C	G	7888	0.10	0.02	0.00	0.00	19.90	
rs6483614	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	11	19705408	T	A	7888	-1.06	0.21	0.00	0.00	24.55	
rs1293035	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	11	62479124	A	C	7888	0.20	0.04	0.00	0.00	25.36	
rs377204392	androsterone glucuronide ratio	GCST90201015	11	63075350	T	C	7888	-0.96	0.03	0.00	0.13	#####	

	Bilirubin (Z,Z) to												
rs540582	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	11	63312298	C	T	7888	0.13	0.01	0.00	0.01	82.29	
rs72927074	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	11	64756109	G	A	7888	-0.27	0.06	0.00	0.00	20.17	
rs6592876	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	11	80012632	G	A	7888	0.07	0.01	0.00	0.00	20.47	
rs4149056	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	12	21178615	C	T	7888	0.12	0.02	0.00	0.00	34.27	
rs7324010	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	13	98722618	G	A	7888	-0.07	0.01	0.00	0.00	19.99	
rs7146949	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	14	98415097	G	A	7888	-0.09	0.02	0.00	0.00	19.51	
rs11071609	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	15	61469749	C	T	7888	0.12	0.03	0.00	0.00	20.69	
rs967839	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	15	80727564	C	T	7888	0.08	0.02	0.00	0.00	20.08	
rs73356218	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	17	6753166	A	G	7888	0.18	0.04	0.00	0.00	22.21	
rs113086489	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	17	7268037	T	C	7888	0.07	0.01	0.00	0.00	23.89	
rs12956522	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	18	47291316	G	T	7888	0.14	0.03	0.00	0.00	20.44	
rs112798634	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	19	18693187	A	G	7888	-0.11	0.02	0.00	0.00	20.08	
rs212100	androsterone glucuronide ratio Bilirubin (Z,Z) to	GCST90201015	19	47873738	C	T	7888	0.14	0.02	0.00	0.01	54.02	
rs10407786	androsterone glucuronide ratio	GCST90201015	19	53365726	G	C	7888	-0.09	0.02	0.00	0.00	20.79	

	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs6698394	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	1	42546268	T	C	7707	0.30	0.07	0.00	0.00	20.23	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs34237495	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	1	243469939	A	C	7707	-0.17	0.04	0.00	0.00	22.95	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs635304	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	2	31642836	T	C	7707	0.12	0.02	0.00	0.01	49.10	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs72787520	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	2	32626815	G	C	7707	-0.26	0.04	0.00	0.00	36.71	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs887829	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	2	233759924	T	C	7707	0.34	0.02	0.00	0.05	430.00	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs9647335	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	3	136161568	T	A	7707	0.09	0.02	0.00	0.00	21.52	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs35559909	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	3	196562102	G	A	7707	-0.13	0.03	0.00	0.00	23.33	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs9392774	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	6	6378888	G	C	7707	0.14	0.03	0.00	0.00	20.09	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs148982377	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	7	99477415	C	T	7707	0.33	0.04	0.00	0.01	55.38	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs73205641	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	8	16935022	G	A	7707	0.35	0.08	0.00	0.00	21.07	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs188537288	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	8	35947991	G	A	7707	0.49	0.11	0.00	0.00	20.19	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs185636345	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	8	77365935	G	A	7707	-0.10	0.02	0.00	0.00	19.94	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs7026165	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	9	2187295	A	C	7707	0.08	0.02	0.00	0.00	24.79	
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio												
rs7025743	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	9	9450042	G	A	7707	-0.10	0.02	0.00	0.00	19.89	

	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs7074899	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	10	32214080	A	G	7707	-0.10	0.02	0.00	0.00	22.21
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs11572106	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	10	95057722	G	A	7707	-0.26	0.05	0.00	0.00	24.22
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs14291682 5	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	11	63108204	A	G	7707	-0.75	0.03	0.00	0.07	544.05
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs540582	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	11	63312298	C	T	7707	0.10	0.02	0.00	0.00	38.32
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs7132970	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	12	6599732	T	C	7707	0.09	0.02	0.00	0.00	20.14
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs55592037 5	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	12	21209861	A	T	7707	-0.25	0.05	0.00	0.00	21.38
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs12301730	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	12	109806495	A	G	7707	0.16	0.03	0.00	0.00	22.79
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs77904806	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	13	95282340	A	C	7707	0.16	0.04	0.00	0.00	20.06
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs9520497	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	13	107576538	C	T	7707	-0.08	0.02	0.00	0.00	21.14
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs75391305	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	14	24402510	T	C	7707	-0.11	0.02	0.00	0.00	21.75
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs222852	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	17	7237287	G	A	7707	-0.08	0.02	0.00	0.00	22.78
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs15035973 0	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	21	23645758	T	C	7707	-0.26	0.06	0.00	0.00	22.42
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs2831806	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	21	28431702	A	G	7707	0.12	0.02	0.00	0.00	23.94
	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio											
rs12485061	Bilirubin (Z,Z) to etiocholanolon e glucuronide ratio	GCST90201016	22	39336660	C	T	7707	-0.12	0.02	0.00	0.00	26.26

	Bilirubin (Z,Z) to etiocolanolon e glucuronide ratio 4-methyl-2- oxopentanoate to 3-methyl-2- oxobutyrate ratio 4-m

rs12676561	4-methyl-2-oxopentanoate to 3-methyl-2-oxobutyrate ratio	GCST90201017	8	133965671	C	T	8224	-0.08	0.02	0.00	0.00	26.00
rs13289244	4-methyl-2-oxopentanoate to 3-methyl-2-oxobutyrate ratio	GCST90201017	9	131021937	G	C	8224	-0.16	0.03	0.00	0.00	21.51
rs7921900	4-methyl-2-oxopentanoate to 3-methyl-2-oxobutyrate ratio	GCST90201017	10	12967594	A	G	8224	-0.15	0.03	0.00	0.00	19.52
rs773354	4-methyl-2-oxopentanoate to 3-methyl-2-oxobutyrate ratio	GCST90201017	13	104738583	G	A	8224	0.09	0.02	0.00	0.00	20.31
rs12950021	4-methyl-2-oxopentanoate to 3-methyl-2-oxobutyrate ratio	GCST90201017	17	8202380	T	C	8224	0.12	0.02	0.00	0.00	24.95
rs146732730	4-methyl-2-oxopentanoate to 3-methyl-2-oxobutyrate ratio	GCST90201017	17	47998721	C	T	8224	-0.37	0.08	0.00	0.00	21.11
rs11661896	4-methyl-2-oxopentanoate to 3-methyl-2-oxobutyrate ratio	GCST90201017	18	1800612	T	A	8224	-0.07	0.02	0.00	0.00	21.15
rs7235450	4-methyl-2-oxopentanoate to 3-methyl-2-oxobutyrate ratio	GCST90201017	18	50623092	T	C	8224	-0.08	0.02	0.00	0.00	20.48
rs2032248	4-methyl-2-oxopentanoate to 3-methyl-2-oxobutyrate ratio	GCST90201017	18	61990937	G	A	8224	-0.38	0.07	0.00	0.00	25.44
rs12133399	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	1	210165052	G	A	8103	-0.07	0.02	0.00	0.00	20.33
rs111273747	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	2	54160481	G	A	8103	-0.36	0.08	0.00	0.00	22.60
rs78016864	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	2	112151898	T	G	8103	-0.23	0.05	0.00	0.00	19.55
rs10497323	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	2	167243228	C	T	8103	-0.10	0.02	0.00	0.00	24.09
rs887829	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	2	233759924	T	C	8103	0.44	0.02	0.00	0.09	778.63
rs6806636	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	3	77056348	G	A	8103	-0.10	0.02	0.00	0.00	22.81
rs1157779	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	3	162992806	A	G	8103	0.12	0.03	0.00	0.00	20.93
rs12189278	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	5	2510462	T	C	8103	-0.14	0.03	0.00	0.00	20.27
rs41383946	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	5	122079902	G	C	8103	-0.09	0.02	0.00	0.00	24.81

rs62393720	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	6	25695963	C	T	8103	0.12	0.02	0.00	0.00	26.09
rs62466537	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	7	23065660	A	G	8103	-0.14	0.03	0.00	0.00	23.45
rs116799198	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	7	100664144	A	G	8103	-0.18	0.04	0.00	0.00	20.21
rs7013590	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	8	4112015	A	G	8103	0.08	0.02	0.00	0.00	24.12
rs117910752	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	8	37721648	G	A	8103	-0.18	0.04	0.00	0.00	21.05
rs7846754	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	9	90876159	T	C	8103	0.11	0.02	0.00	0.00	21.71
rs10842538	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	12	25346408	C	T	8103	-0.17	0.04	0.00	0.00	21.15
rs1959120	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	14	101101893	T	A	8103	0.07	0.02	0.00	0.00	20.21
rs4996334	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	15	66920737	A	C	8103	0.24	0.05	0.00	0.00	20.41
rs143977969	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	17	56270527	T	C	8103	0.35	0.08	0.00	0.00	20.24
rs56000701	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	18	40814174	C	T	8103	0.30	0.07	0.00	0.00	20.17
rs111952599	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	20	43557231	A	G	8103	-0.18	0.04	0.00	0.00	19.59
rs118021051	Bilirubin (Z,Z) to glucuronate ratio	GCST90201018	21	39162075	G	A	8103	-0.30	0.06	0.00	0.00	24.43
rs12137251	Glucuronate to etiocholanolone glucuronide Glucuronate	GCST90201019	1	159743301	A	G	7631	-0.34	0.07	0.00	0.00	21.30
rs72794638	Glucuronate to etiocholanolone glucuronide Glucuronate	GCST90201019	2	31561978	C	T	7631	-0.36	0.06	0.00	0.01	40.35
rs72787520	Glucuronate to etiocholanolone glucuronide Glucuronate	GCST90201019	2	32626815	G	C	7631	-0.28	0.04	0.00	0.01	43.82
rs7612552	Glucuronate to etiocholanolone glucuronide Glucuronate	GCST90201019	3	65249935	A	G	7631	-0.11	0.02	0.00	0.00	20.75
rs9647335	Glucuronate to etiocholanolone glucuronide Glucuronate	GCST90201019	3	136161568	T	A	7631	0.09	0.02	0.00	0.00	19.76
rs114679907	Glucuronate to etiocholanolone glucuronide Glucuronate	GCST90201019	4	22389973	C	T	7631	0.29	0.06	0.00	0.00	20.44
rs4694077	Glucuronate to etiocholanolone glucuronide Glucuronate	GCST90201019	4	68460965	T	C	7631	-0.08	0.02	0.00	0.00	23.41
rs73121646	Glucuronate to etiocholanolone glucuronide	GCST90201019	5	72108567	G	C	7631	0.09	0.02	0.00	0.00	20.23

rs3799346	Glucuronate to etiocholanolon e glucuronide Glucuronate	GCST90201019	6	25791126	T	C	7631	-0.08	0.02	0.00	0.00	20.00
rs7738417	to etiocholanolon e glucuronide Glucuronate	GCST90201019	6	36309774	A	G	7631	-0.08	0.02	0.00	0.00	20.81
rs2969070	to etiocholanolon e glucuronide Glucuronate	GCST90201019	7	2472910	A	G	7631	-0.07	0.02	0.00	0.00	20.30
rs14898237 7	to etiocholanolon e glucuronide Glucuronate	GCST90201019	7	99477415	C	T	7631	0.27	0.04	0.00	0.00	36.70
rs10511460	to etiocholanolon e glucuronide Glucuronate	GCST90201019	9	4827222	G	C	7631	-0.23	0.05	0.00	0.00	21.11
rs61278674	to etiocholanolon e glucuronide Glucuronate	GCST90201019	10	18192808	G	A	7631	-0.13	0.03	0.00	0.00	20.29
rs11393920 3	to etiocholanolon e glucuronide Glucuronate	GCST90201019	11	63115255	A	T	7631	-0.66	0.03	0.00	0.05	442.38
rs540582	to etiocholanolon e glucuronide Glucuronate	GCST90201019	11	63312298	C	T	7631	0.08	0.02	0.00	0.00	26.03
rs11810692 5	to etiocholanolon e glucuronide Glucuronate	GCST90201019	11	124829716	C	T	7631	0.26	0.06	0.00	0.00	20.15
rs11197504 5	to etiocholanolon e glucuronide Glucuronate	GCST90201019	13	29596299	G	C	7631	0.30	0.07	0.00	0.00	21.01
rs12876283	to etiocholanolon e glucuronide Glucuronate	GCST90201019	13	47181284	C	T	7631	-0.16	0.04	0.00	0.00	19.87
rs3887165	to etiocholanolon e glucuronide Glucuronate	GCST90201019	14	95394266	G	A	7631	0.13	0.03	0.00	0.00	20.70
rs28521983	to etiocholanolon e glucuronide Glucuronate	GCST90201019	14	98095153	C	T	7631	-0.07	0.02	0.00	0.00	20.13
rs58622029	to etiocholanolon e glucuronide Glucuronate	GCST90201019	16	79593297	C	T	7631	0.12	0.03	0.00	0.00	21.76
rs218674	to etiocholanolon e glucuronide Glucuronate	GCST90201019	17	6703614	G	A	7631	-0.10	0.02	0.00	0.00	24.80
rs62066489	to etiocholanolon e glucuronide Glucuronate	GCST90201019	17	16957979	C	T	7631	-0.25	0.05	0.00	0.00	21.37
rs2827217	to etiocholanolon e glucuronide Paraxanthine	GCST90201019	21	22042460	A	T	7631	0.17	0.04	0.00	0.00	19.83
rs12025160	to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	1	167558297	A	C	7388	-0.12	0.03	0.00	0.00	20.59

rs145766895	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	2	24476473	C	A	7388	-0.48	0.11	0.00	0.00	20.15
rs1483532	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	2	111000226	T	C	7388	-0.18	0.04	0.00	0.00	21.79
rs112694675	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	3	117091206	G	T	7388	0.28	0.06	0.00	0.00	21.64
rs932039	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	4	53585008	C	T	7388	0.11	0.03	0.00	0.00	20.19
rs77569574	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	5	125573335	C	G	7388	-0.35	0.08	0.00	0.00	19.84
rs75864624	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	5	158845949	T	C	7388	-0.34	0.07	0.00	0.00	20.44
rs78448420	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	5	172311906	A	G	7388	0.27	0.06	0.00	0.00	19.89
rs17635333	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	8	17954492	G	C	7388	0.11	0.02	0.00	0.00	23.62
rs62494003	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	8	18167861	A	G	7388	0.13	0.02	0.00	0.01	39.59
rs11777998	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	8	18218488	C	G	7388	-0.43	0.03	0.00	0.04	293.72
rs13266992	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	8	18382187	C	T	7388	-0.80	0.02	0.00	0.20	#####
rs73213631	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	8	18637561	C	T	7388	0.23	0.04	0.00	0.00	34.44

rs10970571	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	9	31872667	G	A	7388	0.08	0.02	0.00	0.00	20.32
rs3739570	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	9	85022663	A	G	7388	0.13	0.03	0.00	0.00	20.69
rs74809506	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	9	106690619	G	C	7388	-0.14	0.03	0.00	0.00	21.75
rs2519085	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	9	132984284	G	C	7388	-0.14	0.03	0.00	0.00	20.07
rs7123653	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	11	8701074	C	A	7388	-0.08	0.02	0.00	0.00	21.59
rs13916870 8	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	11	37656103	A	G	7388	0.22	0.05	0.00	0.00	20.45
rs10765788	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	11	96104252	C	A	7388	0.07	0.02	0.00	0.00	19.63
rs10891924	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	11	116199515	C	T	7388	-0.13	0.03	0.00	0.00	19.94
rs12316059	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	12	121189661	A	T	7388	0.14	0.03	0.00	0.00	20.61
rs11768832 6	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	14	93900426	T	C	7388	-0.18	0.04	0.00	0.00	20.00
rs14161628 2	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	16	79189387	G	A	7388	-0.27	0.06	0.00	0.00	23.03
rs72993079	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	19	6573500	T	C	7388	0.15	0.03	0.00	0.00	21.36

rs56113850	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	19	40847202	C	T	7388	-0.16	0.02	0.00	0.01	100.67
rs3888463	Paraxanthine to 5- acetylamino-6- formylamino- 3-methyluracil ratio	GCST90201020	22	27202640	T	A	7388	0.08	0.02	0.00	0.00	22.04