Figure S1. Regional association of TWAS hits. The top panel highlights all genes in the region. The marginally associated TWAS genes are shown in blue, and the jointly significant genes are shown in green. The bottom panel shows a regional Manhattan plot of GWAS data before (grey) and after (blue) conditioning on the predicted expression of the green genes. (A) Adipose subcutaneous tissue: IREB2 shows marginal significance, with signal reduction when conditioned on PSMA4. (B) Tibial nerve tissue: IREB2 shows marginal significance, with signal reduction when conditioned on PSMA4. (C) Frontal cortex tissue: DNAJA4 shows marginal significance, with signal reduction when conditioned on PSMA4. (D) Sigmoid colon tissue: XRCC3 shows marginal significance, with signal reduction when conditioned on BAG5. (E) Esophagus gastroesophageal junction tissue: XRCC3 shows marginal significance, with signal reduction when conditioned on BAG5. (F) Skeletal muscle tissue: XRCC3 shows marginal significance, with signal reduction when conditioned on BAG5. (G) Ovary tissue: BAG5 shows marginal significance, with signal reduction when conditioned on XRCC3. (H) Pancreas tissue: XRCC3 shows marginal significance, with signal reduction when conditioned on BAG5. (I) Whole blood: XRCC3 shows marginal significance, with signal reduction when conditioned on BAG5. (J) Chromosome 17 region in whole blood: ORMDL3 shows marginal significance, with signal reduction when conditioned on GSDMB.

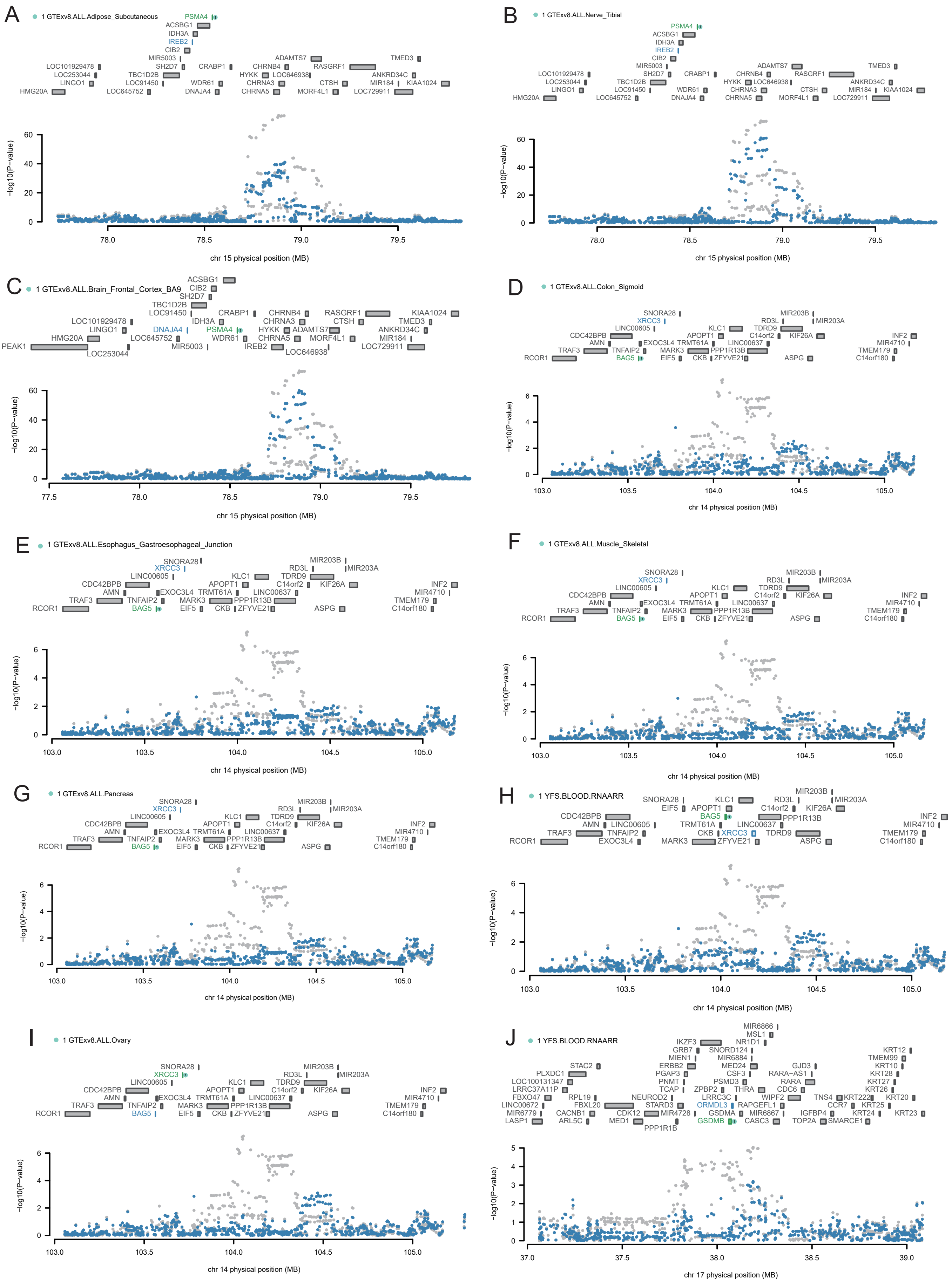
A
1 GTExv8.ALL.Adipose_Subcutaneous
PSMA4
ACSBG1
IDH3A
IREB2
CIB2
MIR5003
LOC101929478
SH2D7
CRABP1
CHRNB4
ADAMTS7
RASGRF1
TMED3
LOC253044
TBC1D2B
HYKK
LOC646938
ANKRD34C
LINGO1
LOC91450
WDR61
CHRNA3
CTSH
MIR184
KIAA1024
HMG20A
LOC645752
DNAJA4
CHRNA5
MORF4L1
LOC729911
−log10(P−value)
chr 15 physical position (MB)
B
1 GTExv8.ALL.Nerve_Tibial
chr 15 physical position (MB)
C
1 GTExv8.ALL.Brain_Frontal_Cortex_BA9
PEAK1
chr 15 physical position (MB)
D
1 GTExv8.ALL.Colon_Sigmoid
SNORA28
XRCC3
MIR203B
MIR203A
RD3L
LINC00605
KLC1
TDRD9
CDC42BPB
APOPT1
C14orf2
KIF26A
INF2
AMN
EXOC3L4
TRMT61A
LINC00637
MIR4710
TRAF3
TNFAIP2
MARK3
PPP1R13B
TMEM179
RCOR1
BAG5
EIF5
CKB
ZFYVE21
ASPG
C14orf180
chr 14 physical position (MB)
E
1 GTExv8.ALL.Esophagus_Gastroesophageal_Junction
F
1 GTExv8.ALL.Muscle_Skeletal
G
1 GTExv8.ALL.Pancreas
H
1 YFS.BLOOD.RNAARR
I
1 GTExv8.ALL.Ovary
J
1 YFS.BLOOD.RNAARR
MIR6866
MSL1
IKZF3
NR1D1
KRT12
GRB7
SNORD124
TMEM99
MIEN1
MIR6884
KRT10
STAC2
ERBB2
MED24
GJD3
PLXDC1
PGAP3
CSF3
RARA−AS1
KRT28
LOC100131347
PNMT
PSMD3
RARA
KRT27
LRRC37A11P
TCAP
ZPBP2
THRA
CDC6
KRT26
FBXO47
RPL19
NEUROD2
LRRC3C
WIPF2
TNS4
KRT222
KRT20
LINC00672
FBXL20
STARD3
ORMDL3
RAPGEFL1
CCR7
KRT25
MIR6779
CACNB1
CDK12
MIR4728
GSDMA
MIR6867
IGFBP4
KRT24
KRT23
LASP1
ARL5C
MED1
GSDMB
CASC3
TOP2A
SMARCE1
PPP1R1B
chr 17 physical position (MB)

Table S1. The results of TWAS analyses in cross-tissue

ID	gene_name	panel_sCCA1.pos_summary	panel_sCCA2.pos_summary	panel_sCCA3.pos_summary	acatP	TWAS.P.fdr
ENSG00000136378	ADAMTS7	3.56E-26	1.30E-05	8.51E-07	1.07E-25	1.41E-21
ENSG00000136381	IREB2	1.09E-10	1.21E-23	1.50E-06	3.63E-23	2.40E-19
ENSG00000140395	SKIC8	2.69E-21	1.98E-06	9.50E-05	8.07E-21	3.55E-17
ENSG00000185787	MORF4L1	8.00E-13	3.86E-05	1.85E-17	5.55E-17	1.83E-13
ENSG00000041357	PSMA4	2.64E-10	7.52E-12	5.97E-11	1.95E-11	5.16E-08
ENSG00000103740	ACSBG1	0.475	0.64	6.77E-09	2.03E-08	4.47E-05
ENSG00000126215	XRCC3	1.36E-06	1.03E-07	9.03E-08	1.39E-07	0.00026302
ENSG00000260285	TRMT61A-DT	7.72E-08	0.246	0.00778	2.32E-07	0.00038231
ENSG00000166170	BAG5	0.0196	9.65E-08	0.01	2.89E-07	0.000424787
ENSG00000135074	ADAM19	4.69E-07	1.73E-06	9.26E-07	7.92E-07	0.00104529
ENSG00000246451	KLC1-AS1	5.84E-07	0.0311	NA	1.17E-06	0.001402211
ENSG00000197375	SLC22A5	1.62E-06	1.20E-06	1.39E-06	1.38E-06	0.001493389
ENSG00000256053	COA8	2.89E-05	5.84E-07	1.24E-05	1.64E-06	0.001548421
ENSG00000197208	SLC22A4	3.15E-05	0.000833	6.71E-07	1.97E-06	0.001733913
ENSG00000104626	ERI1	1.68E-06	0.0141	1.68E-06	2.52E-06	0.002079821
ENSG00000108344	PSMD3	8.13E-06	1.18E-06	0.0281	3.09E-06	0.002369927
ENSG00000164402	SEPTIN8	4.19E-06	2.83E-06	2.97E-06	3.23E-06	0.002369927
ENSG00000102908	NFAT5	0.00232	1.23E-06	0.0465	3.69E-06	0.002563318
ENSG00000088808	PPP1R13B	3.26E-06	2.22E-06	0.00134	3.96E-06	0.002613514
ENSG00000258429	PDF	2.98E-06	2.82E-06	0.00115	4.34E-06	0.002730007
ENSG00000166949	SMAD3	7.28E-06	2.25E-06	0.604	5.16E-06	0.002960646
ENSG00000168172	HOOK3	0.534	0.0891	1.69E-06	5.07E-06	0.002960646
ENSG00000100711	ZFYVE21	4.34E-05	1.93E-06	0.000182	5.49E-06	0.003019642
ENSG00000198740	ZNF652	4.01E-06	0.0619	4.34E-06	6.25E-06	0.003302826
ENSG00000100418	DESI1	0.00301	0.00257	2.29E-06	6.86E-06	0.003303972
ENSG00000103269	RHBDL1	5.73E-06	1.96E-05	4.79E-06	6.91E-06	0.003303972
ENSG00000008838	MED24	8.32E-06	4.71E-06	4.68E-05	8.48E-06	0.003498596
ENSG00000131437	KIF3A	6.46E-06	5.14E-06	0.000212	8.47E-06	0.003498596
ENSG00000132603	NIP7	5.71E-05	2.79E-06	0.00269	7.97E-06	0.003498596
ENSG00000131931	THAP1	0.0638	4.54E-06	NA	9.08E-06	0.003633396
ENSG00000167081	PBX3	5.10E-05	4.42E-06	0.000113	1.18E-05	0.004574901
ENSG00000138640	FAM13A	0.016	0.322792	4.25E-06	1.27E-05	0.004762355
ENSG00000237037	NDUFA6-DT	8.68E-06	0.000295	8.89E-06	1.30E-05	0.004762355
ENSG00000119938	PPP1R3C	7.04E-05	5.82E-06	0.000342	1.59E-05	0.005551546
ENSG00000275342	PRAG1	1.07E-05	0.307	1.06E-05	1.60E-05	0.005551546
ENSG00000121067	SPOP	0.0319	0.543	5.47E-06	1.64E-05	0.005555742
ENSG00000159479	MED8	2.38E-05	1.93E-05	1.22E-05	1.71E-05	0.005634039
ENSG00000171475	WIPF2	2.12E-05	NA	NA	2.12E-05	0.006828468
ENSG00000081692	JMJD4	0.014	0.103	7.43E-06	2.23E-05	0.00700441
ENSG00000107864	CPEB3	2.51E-05	NA	NA	2.51E-05	0.007366013
ENSG00000166411	IDH3A	8.26E-06	0.514	0.00156	2.46E-05	0.007366013
ENSG00000167258	CDK12	0.427	8.06E-06	0.657	2.42E-05	0.007366013
ENSG00000005513	SOX8	0.643	0.53	9.70E-06	2.91E-05	0.008006278
ENSG00000090565	RAB11FIP3	0.578	0.279	9.70E-06	2.91E-05	0.008006278
ENSG00000173868	PHOSPHO1	0.326	0.0856	1.11E-05	3.33E-05	0.008973364
ENSG00000130731	METTL26	4.65E-05	2.10E-05	7.12E-05	3.61E-05	0.00916064
ENSG00000164308	ERAP2	5.17E-05	2.43E-05	3.98E-05	3.50E-05	0.00916064
ENSG00000229431	MED8-AS1	1.27E-05	0.000208	0.0182	3.59E-05	0.00916064
ENSG00000198060	MARCHF5	2.67E-05	4.60E-05	4.60E-05	3.71E-05	0.009236329
ENSG00000100167	SEPTIN3	0.000874	0.00059	1.50E-05	4.32E-05	0.010555483
ENSG00000135972	MRPS9	0.000133	2.61E-05	5.52E-05	4.69E-05	0.011264105
ENSG00000115541	HSPE1	2.47E-05	0.968	NA	4.94E-05	0.011658547
ENSG00000177710	SLC35G5	8.69E-05	8.69E-05	2.84E-05	5.15E-05	0.011799286
ENSG00000140830	TXNL4B	0.132	0.00249	1.84E-05	5.48E-05	0.012263216
ENSG00000170382	LRRN2	1.88E-05	0.852	0.723	5.64E-05	0.01241572
ENSG00000105426	PTPRS	0.118891	2.04E-05	0.371476	6.12E-05	0.012424906
ENSG00000117399	CDC20	1.99E-05	0.557	0.645	5.97E-05	0.012424906
ENSG00000141736	ERBB2	3.11E-05	0.000522	6.44E-05	6.05E-05	0.012424906
ENSG00000168769	TET2	2.07E-05	0.604652	0.214	6.21E-05	0.012424906
ENSG00000236200	KDM4A-AS1	0.193	0.117	1.93E-05	5.79E-05	0.012424906
ENSG00000266208	GJD3-AS1	0.584	0.275	2.04E-05	6.12E-05	0.012424906
ENSG00000168802	CHTF8	3.64E-05	0.00335	NA	7.20E-05	0.013986224
ENSG00000205702	CYP2D7	6.49E-05	5.96E-05	0.000104	7.18E-05	0.013986224
ENSG00000066651	TRMT11	0.159253	0.00677	2.49E-05	7.44E-05	0.014242516
ENSG00000066056	TIE1	4.77E-05	5.64E-05	0.0047	7.71E-05	0.014546549
ENSG00000182149	IST1	8.75E-05	6.58E-05	9.41E-05	8.05E-05	0.014978606
ENSG00000244515	KRT18P34	7.62E-05	0.000106	7.77E-05	8.47E-05	0.015531792
ENSG00000121486	TRMT1L	0.529	0.0311	3.12E-05	9.35E-05	0.016620319
ENSG00000167264	DUS2	0.000229	4.21E-05	0.000273	9.44E-05	0.016620319
ENSG00000183172	SMDT1	1.00E-04	8.95E-05	9.10E-05	9.33E-05	0.016620319
ENSG00000176953	NFATC2IP	0.000101	0.00459	4.83E-05	9.73E-05	0.016912477
ENSG00000102898	NUTF2	0.0189	0.119	3.37E-05	0.000100893	0.017081975
ENSG00000132612	VPS4A	3.73E-05	0.684	0.000756	0.000106646	0.01750354
ENSG00000140983	RHOT2	3.58E-05	0.137	0.222	0.000107359	0.01750354
ENSG00000164266	SPINK1	5.36E-05	0.0202	NA	0.000106917	0.01750354
ENSG00000078668	VDAC3	0.000115	NA	NA	0.000115	0.01852061
ENSG00000246548	LINC02288	0.000777	0.0301	4.19E-05	0.000119112	0.018951654
ENSG00000213380	COG8	4.36E-05	0.00141	0.742	0.000126893	0.019949356
ENSG00000131771	PPP1R1B	0.00417	4.44E-05	0.328	0.000131786	0.020302517
ENSG00000239521	CASTOR3P	0.649	6.61E-05	NA	0.000132214	0.020302517
ENSG00000145743	FBXL17	0.000553	0.00213	5.68E-05	0.000150879	0.022139039
ENSG00000073605	GSDMB	9.09E-05	0.000527	0.000176	0.00016146	0.023431221
ENSG00000113441	LNPEP	5.50E-05	0.8	0.241	0.000165009	0.023431286
ENSG00000129158	SERGEF	0.000522	0.000522	8.87E-05	0.000198605	0.02649268
ENSG00000156171	DRAM2	0.000199	0.000176	0.000213	0.000194783	0.02649268
ENSG00000173281	PPP1R3B	0.0229	0.000467	7.72E-05	0.000198173	0.02649268
ENSG00000213413	PVRIG	7.23E-05	0.0136	0.002081	0.000208547	0.027540659
ENSG00000168807	SNTB2	8.64E-05	0.000865	0.000865	0.000216042	0.02799222
ENSG00000107957	SH3PXD2A	0.949	0.671	7.38E-05	0.000221749	0.028431201
ENSG00000219607	PPP1R3G	0.416647	7.84E-05	0.991	0.00023725	0.030126246
ENSG00000178719	GRINA	0.00915	8.32E-05	0.00593	0.00024396	0.030683175
ENSG00000173295	FAM86B3P	0.000186	0.000343	0.000293	0.000256306	0.031763762
ENSG00000131435	PDLIM4	0.000206	0.00163	0.000174	0.000267499	0.032709203
ENSG00000139116	KIF21A	0.000612	0.000128	0.001029	0.000287955	0.034887443
ENSG00000144395	CCDC150	0.0574	0.0109	0.000101	0.000299702	0.035980626
ENSG00000189045	ANKDD1B	0.0547	0.000102	0.0471	0.000304782	0.036260818
ENSG00000131759	RARA	0.000106	0.241	0.727	0.000317979	0.037161386
ENSG00000230373	GOLGA6L5P	0.000283	0.000564	0.000238	0.000315514	0.037161386
ENSG00000132604	TERF2	0.000109	0.053	0.0554	0.000325702	0.037401909
ENSG00000188186	LAMTOR4	0.0025	0.161	0.000113	0.000324141	0.037401909
ENSG00000072364	AFF4	0.000131	0.000827	0.0321	0.000338073	0.038487855
ENSG00000163681	SLMAP	0.000115	0.816076	0.00967	0.000341133	0.03850432
ENSG00000047249	ATP6V1H	0.0345	0.000182	NA	0.000362097	0.039848794
ENSG00000101003	GINS1	0.12419	0.000119	0.124188	0.000356352	0.039848794
ENSG00000146828	SLC12A9	0.000968	0.000138	0.027613	0.00036077	0.039848794
ENSG00000140403	DNAJA4	0.26	0.0277	0.000128	0.000382094	0.041458747
ENSG00000166747	AP1G1	0.0956	0.000128	0.0956	0.000383005	0.041458747
ENSG00000066923	STAG3	0.000368	0.0789	0.000207	0.000396787	0.041806136
ENSG00000072571	HMMR	0.000136	0.527	0.728	0.000408166	0.041806136
ENSG00000134255	CEPT1	0.000359	0.000499	NA	0.000417578	0.041806136
ENSG00000157800	SLC37A3	0.00123	0.0234	0.000155	0.00041055	0.041806136
ENSG00000172057	ORMDL3	0.000169	0.0924	0.000799	0.000417871	0.041806136
ENSG00000177096	PHETA2	0.000139	0.245	0.0724	0.000416027	0.041806136
ENSG00000196911	KPNA5	0.000136	0.674	0.0955	0.000407543	0.041806136
ENSG00000226450	CYP2D8P	0.000339	0.00109	0.000264	0.000391892	0.041806136
ENSG00000254093	PINX1	0.000152	0.553	0.00115	0.000402794	0.041806136
ENSG00000096696	DSP	0.080612	0.373	0.000143	0.000428175	0.042269785
ENSG00000147905	ZCCHC7	0.000152	0.199	0.004243	0.000439949	0.042408514
ENSG00000167083	GNGT2	0.000146	0.55	0.102	0.000437427	0.042408514
ENSG00000167625	ZNF526	0.000437	NA	NA	0.000437	0.042408514
ENSG00000188368	PRR19	0.002087	0.0233	0.000172	0.000473489	0.045310805
ENSG00000104643	MTMR9	0.00185	0.000746	0.000245	0.000503132	0.047123118
ENSG00000127663	KDM4B	0.000167	0.188	0.357833	0.000500482	0.047123118
ENSG00000164620	RELL2	0.000319	0.00149	0.000456	0.00050009	0.047123118
ENSG00000150433	TMEM218	0.000401	0.000417	0.00115	0.000520706	0.048425637

Table S2.FUSION identified 144 significant COPD-related genes in whole blood

Gene symbole	PANEL	CHR	BEST.GWAS.ID	BEST.GWAS.Z	EQTL.ID	EQTL.Z	EQTL.GWAS.Z	NSNP	TWAS.Z	TWAS.P	FDR
FAM129A	BLOOD	1	rs10911651	-4.41	rs861619	9.24	3.1654	492	3.99472	6.48E-05	0.017602729
GTF3C3	BLOOD	2	rs10804080	-4.37	rs17831149	-4.43	1.76501	397	-4.80295	1.56E-06	0.00120068
MRPS9	BLOOD	2	rs12618715	-4.04	rs6735232	-16.71	-3.97569	486	3.975691	7.02E-05	0.0180102
CCNL1	BLOOD	3	rs4680340	4	rs8925	14.72	3.95323	434	4.06887	4.72E-05	0.014531307
ADD1	BLOOD	4	rs624833	-5.05	rs6824567	5.64	-4.8805	401	-3.8184	0.000134	0.02475248
LIN54	BLOOD	4	rs6842476	-3.87	rs6842476	-7.64	-3.8745	466	3.7717	0.000162	0.025797103
SLC22A5	BLOOD	5	rs803057	5.89	rs2631360	-21.39	-4.98366	430	4.52935	5.92E-06	0.00341732
ERAP2	BLOOD	5	rs2549782	-4.44	rs2549782	30.42	-4.44298	515	-3.77304	0.000161	0.025797103
PIM1	BLOOD	6	rs9366916	-2.98	rs17554163	5.11	-2.06148	627	-4.1517	3.30E-05	0.011722615
TUBB2A	BLOOD	6	rs9392465	3.91	rs9392465	29.14	3.91406	603	3.8452	0.00012	0.024093913
GAL3ST4	BLOOD	7	rs12705071	4.25	rs1061230	8.85	3.995771	272	3.60861	0.000308	0.042512765
ASH2L	BLOOD	8	rs2275957	4.16	rs3886364	-10.67	4.071805	221	-4.0718	4.67E-05	0.014531307
PTK2	BLOOD	8	rs10109684	-4.7	rs13280245	-3.15	-0.717102	537	3.95973	7.50E-05	0.018228947
NSMAF	BLOOD	8	rs1050488	-3.6	rs10091952	13.12	-3.335276	534	-3.61934	0.000295	0.042512765
PBX3	BLOOD	9	rs12341976	-4.62	rs1411354	-6.16	-4.0335	482	3.6362	0.000277	0.041264065
SH3PXD2A	BLOOD	10	rs10786772	4.09	rs11191839	-7.92	3.963803	476	-3.939435	8.17E-05	0.01886453
BAG5	BLOOD	14	rs2403197	5.43	rs34026011	3.93	5.33313	350	5.33313	9.65E-08	8.91E-05
XRCC3	BLOOD	14	rs2403197	5.43	rs7154572	-8.19	-1.92576	344	3.87905	0.000105	0.022040455
TRMT61A	BLOOD	14	rs2403197	5.43	rs2296487	11.66	3.8629	346	3.6046	0.000313	0.042512765
PSMA4	BLOOD	15	rs16969968	18.19	rs9788721	10.67	16.89648	416	17.4774	2.13E-68	9.84E-65
IREB2	BLOOD	15	rs16969968	18.19	rs2568494	-15.74	16.14661	417	-15.716	1.17E-55	2.70E-52
WDR61	BLOOD	15	rs16969968	18.19	rs4268717	11.78	6.67566	393	6.6757	2.46E-11	3.79E-08
DNAJA4	BLOOD	15	rs16969968	18.19	rs8032417	-8.94	-4.59874	393	5.6102	2.02E-08	2.33E-05
TMED3	BLOOD	15	rs11634042	10.4	rs7179024	6.29	-4.04119	627	-4.0412	5.32E-05	0.01535485
SLC24A1	BLOOD	15	rs602192	2.85	rs11455	-5.84	-2.60857	338	3.7407	0.000183	0.0281698
CIRH1A	BLOOD	16	rs9940899	5.18	rs8061222	-11.25	-2.79892	359	4.3635	1.28E-05	0.006567822
TERF2	BLOOD	16	rs9940899	5.18	rs3785074	-5.78	3.58743	310	-3.8807	0.000104	0.022040455
FBXL16	BLOOD	16	rs1128550	-4.66	rs763053	-5.67	-3.21657	415	3.8314	0.000127	0.024436917
GNGT2	BLOOD	17	rs16948048	5.48	rs4794029	12.71	4.31775	369	4.3178	1.58E-05	0.00729644
GSDMB	BLOOD	17	rs11078934	4.44	rs11557467	23.09	3.60854	279	4.1831	2.88E-05	0.011722615
ORMDL3	BLOOD	17	rs11078934	4.44	rs11557467	21.25	3.60854	279	4.1631	3.14E-05	0.011722615
PIK3C3	BLOOD	18	rs9807506	3.94	rs7233661	-8.45	2.976811	417	-3.809	0.00014	0.024866154
CYP2D6	BLOOD	22	rs133308	4.71	rs133337	4.03	4.65693	343	4.6569	3.21E-06	0.002117683
TEF	BLOOD	22	rs2234059	-3.8	rs2234059	14.91	-3.796056	266	-3.7961	0.000147	0.025142444

Table S3.FUSION identified 502 significant genes associated with COPD

Gene symbole	PANEL	CHR	BEST.GWAS.ID	BEST.GWAS.Z	EQTL.ID	EQTL.Z	EQTL.GWAS.Z	NSNP	TWAS.Z	TWAS.P	FDR
CHRNA3	GTExv8.ALL.Brain_Cerebellum	15	rs16969968	18.19	rs16969968	-4.19	18.19162	425	-18.08393	4.27E-73	3.29E-69
PSMA4	GTExv8.ALL.Brain_Hypothalamus	15	rs16969968	18.19	rs2036527	5.22	17.81303	427	17.813	5.60E-71	2.11E-67
CHRNA3	GTExv8.ALL.Colon_Sigmoid	15	rs16969968	18.19	rs12914385	-6.04	18.15429	424	-17.12233	1.01E-65	7.21E-62
PSMA4	GTExv8.ALL.Brain_Cerebellar_Hemisphere	15	rs16969968	18.19	rs951266	4.64	18.02881	426	17.01271	6.61E-65	4.29E-61
CHRNA5	GTExv8.ALL.Colon_Sigmoid	15	rs16969968	18.19	rs9788721	-4.54	16.89648	431	-16.89648	4.78E-64	1.71E-60
PSMA4	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	15	rs16969968	18.19	rs8040868	3.8	18.16263	427	16.7178	9.73E-63	3.32E-59
CHRNA3	GTExv8.ALL.Colon_Transverse	15	rs16969968	18.19	rs11638490	-3.95	12.65664	425	-16.66969	2.18E-62	1.67E-58
PSMA4	GTExv8.ALL.Whole_Blood	15	rs16969968	18.19	rs3813570	-7.56	-11.18685	425	16.17694	7.34E-59	6.34E-55
PSMA4	GTExv8.ALL.Cells_Cultured_fibroblasts	15	rs16969968	18.19	rs2036527	5.3	17.81303	426	15.09214	1.82E-51	1.87E-47
PSMA4	GTExv8.ALL.Brain_Cerebellum	15	rs16969968	18.19	rs3885951	4.5	5.95052	426	14.36565	8.50E-47	3.27E-43
CHRNB4	GTExv8.ALL.Thyroid	15	rs16969968	18.19	rs8038920	-3.55	-8.30983	433	14.4	3.82E-47	4.61E-43
PSMA4	GTExv8.ALL.Liver	15	rs16969968	18.19	rs2036527	4.29	17.81303	424	13.684258	1.26E-42	5.09E-39
PSMA4	GTExv8.ALL.Adipose_Subcutaneous	15	rs16969968	18.19	rs4886571	-6.1	-6.84099	425	13.44374	3.35E-41	3.57E-37
CHRNA3	GTExv8.ALL.Lung	15	rs16969968	18.19	rs3743074	4.06	-6.96211	421	-13.2	1.32E-39	1.26E-35
ADAMTS7	GTExv8.ALL.Brain_Frontal_Cortex_BA9	15	rs16969968	18.19	rs11072791	3.94	12.91103	421	12.91103	3.90E-38	1.91E-34
GOLGA6GP	GTExv8.ALL.Colon_Sigmoid	15	rs16969968	18.19	rs11638490	-5.4	12.65664	433	-12.65664	1.03E-36	2.45E-33
GOLGA6GP	GTExv8.ALL.Muscle_Skeletal	15	rs16969968	18.19	rs11638490	-12.12	12.65664	431	-12.69695	6.15E-37	5.64E-33
IREB2	GTExv8.ALL.Lung	15	rs16969968	18.19	rs6495308	4.81	-12.35271	387	-12.4	2.01E-35	9.60E-32
PSMA4	GTExv8.ALL.Brain_Cortex	15	rs16969968	18.19	rs2036527	4.95	17.81303	426	12.306306	8.38E-35	5.00E-31
ADAMTS7	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	15	rs16969968	18.19	rs12593362	3.63	1.52239	416	12.3	5.83E-35	6.59E-31
ADAMTS7	GTExv8.ALL.Heart_Left_Ventricle	15	rs16969968	18.19	rs11639044	5.5	11.3129	419	12.087796	1.23E-33	8.15E-30
ADAMTS7	GTExv8.ALL.Brain_Cortex	15	rs16969968	18.19	rs11639372	6.26	12.96182	420	11.91469	9.92E-33	2.96E-29
PSMA4	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	15	rs16969968	18.19	rs11638991	-3.6	-4.58486	425	11.5287	9.46E-31	6.98E-27
HYKK	GTExv8.ALL.Muscle_Skeletal	15	rs16969968	18.19	rs3813570	4.13	-11.18685	423	-11.18685	4.73E-29	2.17E-25
ADAMTS7	GTExv8.ALL.Spleen	15	rs16969968	18.19	rs7177699	-4.26	11.16973	421	-11.16973	5.74E-29	3.98E-25
CHRNA3	GTExv8.ALL.Esophagus_Muscularis	15	rs16969968	18.19	rs2036527	-4.63	17.81303	424	-10.8354	2.34E-27	2.27E-23
CTSH	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	15	rs16969968	18.19	rs876941	3.66	2.05591	435	10.40939	2.25E-25	8.28E-22
IREB2	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	15	rs16969968	18.19	rs2656073	6.15	-10.0232	389	-10.2	3.09E-24	1.75E-20
ADAMTS7	GTExv8.ALL.Artery_Tibial	15	rs16969968	18.19	rs7168915	11.94	7.16109	419	10.08708	6.30E-24	3.28E-20
IREB2	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	15	rs16969968	18.19	rs2656073	7.52	-10.0232	391	-10.1	3.81E-24	3.92E-20
CRABP1	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	15	rs16969968	18.19	rs2656073	3.81	-10.0232	391	-9.95966	2.29E-23	4.21E-20
CHRNA5	GTExv8.ALL.Pituitary	15	rs16969968	18.19	rs12591557	5.19	-6.92881	432	-10.0138	1.33E-23	8.48E-20
CHRNB4	GTExv8.ALL.Esophagus_Mucosa	15	rs16969968	18.19	rs11639372	6.39	12.96182	433	9.90362	4.01E-23	3.98E-19
CHRNA5	GTExv8.ALL.Breast_Mammary_Tissue	15	rs16969968	18.19	rs1979906	8.62	-7.17131	430	-9.36179	7.84E-21	5.91E-17
CHRNA5	GTExv8.ALL.Nerve_Tibial	15	rs16969968	18.19	rs2292117	15.42	-7.1111	430	-8.78437	1.57E-18	1.91E-14
PSMA4	GTExv8.ALL.Brain_Frontal_Cortex_BA9	15	rs16969968	18.19	rs6495306	-3.74	-6.43402	427	8.58636	8.98E-18	2.20E-14
PSMA4	GTExv8.ALL.Adrenal_Gland	15	rs16969968	18.19	rs12914694	-6.11	-6.90921	422	8.56148	1.11E-17	6.22E-14
CHRNA5	GTExv8.ALL.Cells_Cultured_fibroblasts	15	rs16969968	18.19	rs4886571	15.51	-6.84099	432	-8.47302	2.39E-17	1.23E-13
CHRNA5	GTExv8.ALL.Lung	15	rs16969968	18.19	rs8053	7.98	-7.04816	428	-8.33	7.85E-17	2.50E-13
GOLGA6GP	GTExv8.ALL.Testis	15	rs16969968	18.19	rs12905641	-6.78	-8.15195	432	8.151953	3.58E-16	1.12E-12
RPL18P11	GTExv8.ALL.Testis	15	rs16969968	18.19	rs11072793	-4.65	-4.51801	432	8.15703	3.43E-16	1.12E-12
PSMA4	GTExv8.ALL.Brain_Caudate_basal_ganglia	15	rs16969968	18.19	rs4886571	-5.34	-6.840986	427	8.09286	5.83E-16	3.15E-12
CHRNA5	GTExv8.ALL.Esophagus_Muscularis	15	rs16969968	18.19	rs12915366	4.98	-6.71619	431	-8.0748	6.76E-16	3.27E-12
PSMA4	GTExv8.ALL.Nerve_Tibial	15	rs16969968	18.19	rs621849	-7.54	-6.43559	424	8.06489	7.33E-16	4.46E-12
CHRNA5	GTExv8.ALL.Whole_Blood	15	rs16969968	18.19	rs8053	6.7	-7.04816	431	-7.87059	3.53E-15	1.52E-11
CHRNA5	GTExv8.ALL.Muscle_Skeletal	15	rs16969968	18.19	rs1979906	20.45	-7.17131	429	-7.73567	1.03E-14	3.15E-11
CHRNA5	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	15	rs16969968	18.19	rs4886571	9.03	-6.84099	428	-7.67	1.70E-14	4.81E-11
CHRNA3	GTExv8.ALL.Muscle_Skeletal	15	rs16969968	18.19	rs8053	14.99	-7.04816	422	-7.57425	3.61E-14	8.28E-11
DNAJA4	GTExv8.ALL.Artery_Coronary	15	rs16969968	18.19	rs1533666	-3.26	4.21971	405	-7.60469	2.86E-14	1.29E-10
IREB2	GTExv8.ALL.Testis	15	rs16969968	18.19	rs12899131	-5.09	-6.80121	390	7.504164	6.18E-14	1.55E-10
CHRNA5	GTExv8.ALL.Brain_Substantia_nigra	15	rs16969968	18.19	rs680244	6.09	-6.44848	432	-7.4567	8.87E-14	2.24E-10
CHRNA3	GTExv8.ALL.Testis	15	rs16969968	18.19	rs12906835	-6.03	-4.49328	423	7.40156	1.35E-13	2.82E-10
CHRNA5	GTExv8.ALL.Testis	15	rs16969968	18.19	rs12907966	-5.08	-7.17095	430	7.350872	1.97E-13	3.53E-10
PSMA4	GTExv8.ALL.Colon_Transverse	15	rs16969968	18.19	rs680244	-5.73	-6.44848	426	7.24988	4.17E-13	7.98E-10
CHRNA5	GTExv8.ALL.Brain_Cortex	15	rs16969968	18.19	rs8053	10.17	-7.04816	432	-7.112484	1.14E-12	1.36E-09
HYKK	GTExv8.ALL.Brain_Cortex	15	rs16969968	18.19	rs8053	-5.04	-7.04816	426	7.118162	1.09E-12	1.36E-09
CHRNA5	GTExv8.ALL.Heart_Left_Ventricle	15	rs16969968	18.19	rs2292117	11.84	-7.1111	431	-7.111095	1.15E-12	1.52E-09
HYKK	GTExv8.ALL.Heart_Left_Ventricle	15	rs16969968	18.19	rs12915366	-5.26	-6.71619	425	7.190867	6.44E-13	1.52E-09
PSMA4	GTExv8.ALL.Heart_Left_Ventricle	15	rs16969968	18.19	rs2292117	-11.25	-7.1111	425	7.111095	1.15E-12	1.52E-09
CHRNA3	GTExv8.ALL.Heart_Left_Ventricle	15	rs16969968	18.19	rs2292117	3.94	-7.1111	424	-7.072928	1.52E-12	1.68E-09
CHRNA3	GTExv8.ALL.Brain_Putamen_basal_ganglia	15	rs16969968	18.19	rs660652	7.97	-7.07105	426	-7.1617	7.97E-13	1.86E-09
HYKK	GTExv8.ALL.Brain_Putamen_basal_ganglia	15	rs16969968	18.19	rs950776	-4.44	-5.95537	427	7.2279	4.91E-13	1.86E-09
CHRNA5	GTExv8.ALL.Brain_Hypothalamus	15	rs16969968	18.19	rs2292117	8.64	-7.1111	433	-7.1132	1.13E-12	2.13E-09
PSMA4	GTExv8.ALL.Brain_Putamen_basal_ganglia	15	rs16969968	18.19	rs4886571	-5.66	-6.84099	427	7.0573	1.70E-12	2.21E-09
CHRNA5	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	15	rs16969968	18.19	rs8053	9.74	-7.04816	432	-7.11678	1.10E-12	2.74E-09
HYKK	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	15	rs16969968	18.19	rs680244	-4.73	-6.44848	426	7.07133	1.53E-12	2.74E-09
PSMA4	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	15	rs16969968	18.19	rs12915366	-4.18	-6.71619	426	7.11311	1.13E-12	2.74E-09
MORF4L1	GTExv8.ALL.Artery_Tibial	15	rs16969968	18.19	rs7168915	7.65	7.16109	418	7.16109	8.00E-13	2.78E-09
CHRNA5	GTExv8.ALL.Brain_Cerebellum	15	rs16969968	18.19	rs2292117	6.39	-7.1111	432	-7.1111	1.15E-12	2.95E-09
CHRNA5	GTExv8.ALL.Brain_Caudate_basal_ganglia	15	rs16969968	18.19	rs2292117	8.61	-7.111095	433	-7.1111	1.15E-12	3.11E-09
CHRNA5	GTExv8.ALL.Adrenal_Gland	15	rs16969968	18.19	rs2292117	4.8	-7.1111	428	-7.1111	1.15E-12	3.22E-09
CHRNA5	GTExv8.ALL.Adipose_Subcutaneous	15	rs16969968	18.19	rs2292117	13.3	-7.1111	431	-7.1375	9.50E-13	3.37E-09
CHRNA5	GTExv8.ALL.Thyroid	15	rs16969968	18.19	rs12907966	6.4	-7.17095	429	-7.21	5.59E-13	3.38E-09
ADAMTS7	GTExv8.ALL.Artery_Aorta	15	rs16969968	18.19	rs7168915	8.69	7.16109	420	7.16109	8.00E-13	3.44E-09
PSMA4	GTExv8.ALL.Artery_Aorta	15	rs16969968	18.19	rs680244	-6.48	-6.44848	426	7.16679	7.68E-13	3.44E-09
CHRNA5	GTExv8.ALL.Brain_Cerebellar_Hemisphere	15	rs16969968	18.19	rs8053	6.88	-7.04816	432	-7.11484	1.12E-12	3.64E-09
CHRNA5	GTExv8.ALL.Esophagus_Mucosa	15	rs16969968	18.19	rs1979906	9.15	-7.171309	429	-7.17131	7.43E-13	3.69E-09
CHRNA5	GTExv8.ALL.Heart_Atrial_Appendage	15	rs16969968	18.19	rs1979906	11.18	-7.171309	432	-7.17131	7.43E-13	4.34E-09
HYKK	GTExv8.ALL.Brain_Cerebellar_Hemisphere	15	rs16969968	18.19	rs615470	-4.3	-7.03187	426	7.03187	2.04E-12	4.41E-09
CHRNA5	GTExv8.ALL.Brain_Hippocampus	15	rs16969968	18.19	rs8053	8.82	-7.048156	429	-6.95404	3.55E-12	4.45E-09
HYKK	GTExv8.ALL.Brain_Hippocampus	15	rs16969968	18.19	rs4886571	-5.25	-6.840986	424	6.99293	2.69E-12	4.45E-09
PSMA4	GTExv8.ALL.Brain_Hippocampus	15	rs16969968	18.19	rs3885951	4.79	5.950522	424	6.97702	3.02E-12	4.45E-09
CHRNA3	GTExv8.ALL.Nerve_Tibial	15	rs16969968	18.19	rs2292117	11.18	-7.1111	423	-7.1111	1.15E-12	4.67E-09
PSMA4	GTExv8.ALL.Heart_Atrial_Appendage	15	rs16969968	18.19	rs2292117	-9.57	-7.111095	427	7.04423	1.86E-12	4.68E-09
ADAMTS7	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	15	rs16969968	18.19	rs2277547	5.08	-3.92661	421	-6.9903	2.74E-12	4.68E-09
CHRNA5	GTExv8.ALL.Artery_Tibial	15	rs16969968	18.19	rs8053	10.21	-7.04816	431	-7.04816	1.81E-12	4.72E-09
CHRNA5	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	15	rs16969968	18.19	rs4886571	8.16	-6.84099	431	-6.93186	4.15E-12	5.09E-09
CHRNA5	GTExv8.ALL.Brain_Spinal_cord_cervical_c-1	15	rs16969968	18.19	rs8053	6.55	-7.048156	429	-7.0482	1.81E-12	6.00E-09
CHRNA5	GTExv8.ALL.Brain_Putamen_basal_ganglia	15	rs16969968	18.19	rs4886571	8.13	-6.84099	433	-6.841	7.87E-12	7.33E-09
PSMA4	GTExv8.ALL.Esophagus_Mucosa	15	rs16969968	18.19	rs12914694	-5.35	-6.909214	423	7.00856	2.41E-12	7.98E-09
CHRNA5	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	15	rs16969968	18.19	rs8053	7.92	-7.04816	431	-7.05	1.81E-12	9.32E-09
PSMA4	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	15	rs16969968	18.19	rs12591557	-5.54	-6.92881	422	6.93	4.24E-12	9.59E-09
PSMA4	GTExv8.ALL.Esophagus_Muscularis	15	rs16969968	18.19	rs621849	-6.94	-6.43559	425	6.9652	3.28E-12	1.06E-08
CHRNA5	GTExv8.ALL.Brain_Amygdala	15	rs16969968	18.19	rs12591557	6.19	-6.92881	432	-6.92881	4.24E-12	1.17E-08
CHRNA5	GTExv8.ALL.Brain_Frontal_Cortex_BA9	15	rs16969968	18.19	rs4886571	9.42	-6.84099	433	-6.84099	7.87E-12	1.29E-08
CHRNA5	GTExv8.ALL.Adipose_Visceral_Omentum	15	rs16969968	18.19	rs8053	10.6	-7.04816	432	-7.04816	1.81E-12	1.55E-08
HYKK	GTExv8.ALL.Brain_Caudate_basal_ganglia	15	rs16969968	18.19	rs2292117	-4.9	-7.111095	427	6.77463	1.25E-11	1.69E-08
CHRNA5	GTExv8.ALL.Uterus	15	rs16969968	18.19	rs3743075	4.12	-6.95832	431	-6.85135	7.32E-12	2.01E-08
ADAMTS7	GTExv8.ALL.Cells_Cultured_fibroblasts	15	rs16969968	18.19	rs3743057	-5.85	-6.674	420	6.86729	6.54E-12	2.02E-08
CHRNA5	GTExv8.ALL.Artery_Aorta	15	rs16969968	18.19	rs4886571	7.37	-6.84099	432	-6.84099	7.87E-12	2.26E-08
HYKK	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	15	rs16969968	18.19	rs10519198	-4.29	-6.67173	425	6.67173	2.53E-11	2.33E-08
PSMA4	GTExv8.ALL.Thyroid	15	rs16969968	18.19	rs621849	-6.69	-6.43559	423	6.85	7.35E-12	2.96E-08
ADAMTS7	GTExv8.ALL.Colon_Transverse	15	rs16969968	18.19	rs3743057	-6.83	-6.674	420	6.674	2.49E-11	3.81E-08
ADAMTS7	GTExv8.ALL.Heart_Atrial_Appendage	15	rs16969968	18.19	rs1564499	-5.06	-6.665681	420	6.66568	2.63E-11	3.97E-08
CHRNA5	GTExv8.ALL.Minor_Salivary_Gland	15	rs16969968	18.19	rs12915366	5.28	-6.71619	432	-6.71619	1.87E-11	6.30E-08
ADAMTS7	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	15	rs16969968	18.19	rs1564499	-4.18	-6.66568	419	6.67	2.63E-11	6.77E-08
CHRNA5	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	15	rs16969968	18.19	rs12915366	5.76	-6.71619	431	-6.71619	1.87E-11	6.90E-08
SKIC8	GTExv8.ALL.Whole_Blood	15	rs16969968	18.19	rs4268717	7.41	6.67566	394	6.67566	2.46E-11	7.08E-08
ADAMTS7	GTExv8.ALL.Thyroid	15	rs16969968	18.19	rs3743057	-6.32	-6.674	417	6.67	2.49E-11	7.52E-08
CHRNA3	GTExv8.ALL.Brain_Caudate_basal_ganglia	15	rs16969968	18.19	rs1948	9.27	-6.428814	426	-6.44716	1.14E-10	1.23E-07
HYKK	GTExv8.ALL.Ovary	15	rs16969968	18.19	rs6495306	3.75	-6.43402	427	-6.48144	9.08E-11	1.83E-07
CHRNA5	GTExv8.ALL.Artery_Coronary	15	rs16969968	18.19	rs12591557	7.2	-6.92881	429	-6.47369	9.56E-11	2.15E-07
PSMA4	GTExv8.ALL.Adipose_Visceral_Omentum	15	rs16969968	18.19	rs680244	-5.22	-6.44848	426	6.44848	1.13E-10	2.41E-07
NIP7	GTExv8.ALL.Esophagus_Mucosa	16	rs9940899	5.18	rs7187579	-3.36	4.85006	298	-6.40335	1.52E-10	2.52E-07
IREB2	GTExv8.ALL.Cells_Cultured_fibroblasts	15	rs16969968	18.19	rs16969899	-6.24	-4.58678	391	6.33021	2.45E-10	5.03E-07
CHRNA3	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	15	rs16969968	18.19	rs950776	8.46	-5.95537	425	-6.08735	1.15E-09	1.23E-06
CCNI2	GTExv8.ALL.Cells_Cultured_fibroblasts	5	rs803054	5.77	rs2299007	-3.53	3.435132	402	-5.89782	3.68E-09	6.29E-06
ADAMTS7	GTExv8.ALL.Artery_Coronary	15	rs16969968	18.19	rs4468572	4.54	6.25885	417	5.86965	4.37E-09	6.57E-06
PDF	GTExv8.ALL.Adipose_Visceral_Omentum	16	rs9940899	5.18	rs12708895	-6.83	4.99315	296	-5.81856	5.94E-09	1.01E-05
TSPAN3	GTExv8.ALL.Stomach	15	rs12911362	4.29	rs4886838	-3.51	3.08005	255	-5.82864	5.59E-09	1.68E-05
RPL21P116	GTExv8.ALL.Heart_Atrial_Appendage	15	rs16969968	18.19	rs8029659	-4.39	-5.668152	429	5.66815	1.44E-08	1.81E-05
GNGT2	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	17	rs16948048	5.48	rs2411899	-3.4	-3.17356	376	5.5679	2.58E-08	1.90E-05
TSPAN3	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	15	rs12911362	4.29	rs1317320	4.2	-3.24862	255	-5.6216	1.89E-08	2.15E-05
CRABP1	GTExv8.ALL.Brain_Cortex	15	rs16969968	18.19	rs12593362	-4.98	1.52239	391	-5.560453	2.69E-08	2.67E-05
GNGT2	GTExv8.ALL.Artery_Aorta	17	rs16948048	5.48	rs12940887	4.06	5.465915	376	5.6715	1.42E-08	3.05E-05
DNAJA4	GTExv8.ALL.Brain_Cerebellum	15	rs16969968	18.19	rs8025691	-4.24	2.39732	406	-5.64887	1.62E-08	3.12E-05
IREB2	GTExv8.ALL.Nerve_Tibial	15	rs16969968	18.19	rs6495308	4.41	-12.35271	390	-5.71765	1.08E-08	3.29E-05
XRCC3	GTExv8.ALL.Stomach	14	rs2403197	5.43	rs12884809	4.9	4.99636	344	5.60038	2.14E-08	4.28E-05
COA8	GTExv8.ALL.Lung	14	rs2403197	5.43	rs34026011	-6.2	5.33313	349	-5.62343	1.87E-08	4.46E-05
IREB2	GTExv8.ALL.Adipose_Subcutaneous	15	rs16969968	18.19	rs2869030	4.91	-8.11992	391	-5.58362	2.36E-08	5.03E-05
DNAJA4	GTExv8.ALL.Testis	15	rs16969968	18.19	rs4887025	-7.15	5.18144	405	-5.497097	3.86E-08	5.38E-05
FLJ40194	GTExv8.ALL.Thyroid	17	rs16948048	5.48	rs1317636	-3.51	-2.43535	371	5.5914	2.25E-08	5.44E-05
DNAJA4	GTExv8.ALL.Minor_Salivary_Gland	15	rs16969968	18.19	rs2011323	-3.86	-2.173	407	5.51092	3.57E-08	6.01E-05
RCN2	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	15	rs4078354	4.18	rs157763	-3.39	3.03357	233	-5.54	3.00E-08	6.18E-05
GULOP	GTExv8.ALL.Small_Intestine_Terminal_Ileum	8	rs11778040	-5.35	rs9314348	-5.02	-4.2	617	5.53849	3.05E-08	0.000127033
ADAM19	GTExv8.ALL.Testis	5	rs4579242	5.07	rs4579242	5.2	5.067373	527	5.322851	1.02E-07	0.000127847
ADAM19	GTExv8.ALL.Adrenal_Gland	5	rs4579242	5.07	rs2277027	5.5	5.05061	527	5.3605	8.30E-08	0.000136555
SH2D7	GTExv8.ALL.Adrenal_Gland	15	rs2036527	17.81	rs8036417	4.25	1.60328	413	5.33142	9.74E-08	0.000136555
COA8	GTExv8.ALL.Spleen	14	rs2403197	5.43	rs34026011	-5.16	5.33313	358	-5.4212	5.92E-08	0.000136811
ADAM19	GTExv8.ALL.Artery_Aorta	5	rs4579242	5.07	rs2277027	7.11	5.05061	527	5.36621	8.04E-08	0.000138288
ADAM19	GTExv8.ALL.Ovary	5	rs4579242	5.07	rs2277027	5.15	5.0506	528	5.2765	1.32E-07	0.000177144
PSMA4	GTExv8.ALL.Artery_Tibial	15	rs16969968	18.19	rs12907966	-7.32	-7.17095	425	5.35442	8.58E-08	0.000178842
ZNF652	GTExv8.ALL.Minor_Salivary_Gland	17	rs16948048	5.48	rs3179840	-3.83	4.87714	349	-5.24	1.64E-07	0.000184063
ADAM19	GTExv8.ALL.Artery_Tibial	5	rs4579242	5.07	rs2277027	9.39	5.05061	527	5.305756	1.12E-07	0.000194544
TSPAN3	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	15	rs12911362	4.29	rs1317320	5.92	-3.24862	255	-5.29	1.21E-07	0.000207576
BAG5	GTExv8.ALL.Whole_Blood	14	rs2403197	5.43	rs34026011	6.03	5.33313	349	5.33313	9.65E-08	0.000208416
ADAM19	GTExv8.ALL.Spleen	5	rs4579242	5.07	rs1422795	5.83	5.0548	527	5.27633	1.32E-07	0.000228789
CKB	GTExv8.ALL.Adipose_Subcutaneous	14	rs2403197	5.43	rs9324063	-3.6	3.80214	349	-5.27737	1.31E-07	0.000232525
CHTF8	GTExv8.ALL.Testis	16	rs9940899	5.18	rs9940899	-3.36	5.17803	321	-5.17803	2.24E-07	0.000233968
CTSH	GTExv8.ALL.Brain_Frontal_Cortex_BA9	15	rs16969968	18.19	rs12148472	-5.21	0.33192	436	5.20581	1.93E-07	0.000236522
SKIC8	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	15	rs16969968	18.19	rs17480994	4.69	5.23154	396	5.23	1.68E-07	0.000247032
ADAM19	GTExv8.ALL.Adipose_Subcutaneous	5	rs4579242	5.07	rs1422795	13.09	5.054759	527	5.23503	1.65E-07	0.000251036
XRCC3	GTExv8.ALL.Brain_Hypothalamus	14	rs2403197	5.43	rs3759579	-3.47	-1.76102	345	5.1961	2.04E-07	0.000256292
KIF3A	GTExv8.ALL.Esophagus_Mucosa	5	rs803054	5.77	rs803054	-5.96	5.77473	403	-5.19753	2.02E-07	0.000286753
ADAMTSL3	GTExv8.ALL.Brain_Caudate_basal_ganglia	15	rs2585064	-4.78	rs2585064	-4.23	-4.777582	334	5.09292	3.53E-07	0.000318112
XRCC3	GTExv8.ALL.Adipose_Subcutaneous	14	rs2403197	5.43	rs12884809	9.76	4.99636	343	5.14097	2.73E-07	0.000363431
XRCC3	GTExv8.ALL.Ovary	14	rs2403197	5.43	rs2273175	5.11	4.84106	346	5.0869	3.64E-07	0.000366366
ADAMTS7	GTExv8.ALL.Adipose_Visceral_Omentum	15	rs16969968	18.19	rs9806363	-4.41	5.4333	420	-5.14533	2.67E-07	0.000379986
BAG5	GTExv8.ALL.Ovary	14	rs2403197	5.43	rs12889403	6.82	4.90294	360	5.0371	4.73E-07	0.00038086
COA8	GTExv8.ALL.Brain_Putamen_basal_ganglia	14	rs2403197	5.43	rs10149249	6.75	-3.43402	359	-5.028681	4.94E-07	0.000383262
HSPA6	GTExv8.ALL.Nerve_Tibial	1	rs1340978	4.106	rs12129787	-4.53	-3.89394	436	5.202021	1.97E-07	0.00039968
BAG5	GTExv8.ALL.Muscle_Skeletal	14	rs2403197	5.43	rs2296482	6.71	4.87184	350	5.1815	2.20E-07	0.0004037
BAG5	GTExv8.ALL.Colon_Transverse	14	rs2403197	5.43	rs7148456	6.24	4.98496	355	5.11236	3.18E-07	0.000405927
ADAM19	GTExv8.ALL.Heart_Atrial_Appendage	5	rs4579242	5.07	rs4579242	5.62	5.06737	527	5.06737	4.03E-07	0.000434492
PPP1R13B-DT	GTExv8.ALL.Brain_Hypothalamus	14	rs2403197	5.43	rs861528	3.35	-2.93515	327	-5.01241	5.38E-07	0.000440219
XRCC3	GTExv8.ALL.Breast_Mammary_Tissue	14	rs2403197	5.43	rs12884809	7.76	4.99636	343	5.16787	2.37E-07	0.000446982
COA8	GTExv8.ALL.Nerve_Tibial	14	rs2403197	5.43	rs8017993	-6.01	5.39995	350	-5.14901	2.62E-07	0.000455618
XRCC3	GTExv8.ALL.Brain_Putamen_basal_ganglia	14	rs2403197	5.43	rs4906356	3.38	4.79568	345	4.961551	6.99E-07	0.000464835
SLC22A5	GTExv8.ALL.Colon_Sigmoid	5	rs803054	5.77	rs2631360	-5.22	-4.98366	406	5.0145	5.32E-07	0.000474611
HHIP	GTExv8.ALL.Testis	4	rs1512288	-5.57	rs7677035	4.77	5.023854	251	5.02385	5.06E-07	0.000487862
BAG5	GTExv8.ALL.Colon_Sigmoid	14	rs2403197	5.43	rs7148456	5.22	4.98496	355	4.985	6.20E-07	0.00049166
PDF	GTExv8.ALL.Brain_Cortex	16	rs9940899	5.18	rs12708895	-4.14	4.99315	296	-4.99315	5.94E-07	0.000506003
XRCC3	GTExv8.ALL.Nerve_Tibial	14	rs2403197	5.43	rs4906356	9.68	4.79568	343	5.10306	3.34E-07	0.000508223
USP10	GTExv8.ALL.Nerve_Tibial	16	rs8051428	-3.99	rs12232414	3.86	3.45057	849	5.07778	3.82E-07	0.000516676
ADAM19	GTExv8.ALL.Adipose_Visceral_Omentum	5	rs4579242	5.07	rs4579242	7.5	5.06737	528	5.05767	4.24E-07	0.000517219
SLC22A5	GTExv8.ALL.Minor_Salivary_Gland	5	rs803057	5.89	rs2631360	-4.35	-4.9837	419	4.9837	6.24E-07	0.000525252
ZNF652	GTExv8.ALL.Artery_Tibial	17	rs16948048	5.48	rs11079868	-6.31	4.82486	349	-5.08047	3.76E-07	0.00055981
HYKK	GTExv8.ALL.Brain_Hypothalamus	15	rs16969968	18.19	rs12907966	-4.98	-7.17095	427	4.9085	9.18E-07	0.000576657
ADAM19	GTExv8.ALL.Muscle_Skeletal	5	rs4579242	5.07	rs2277027	9.04	5.05061	525	5.06712	4.04E-07	0.000617783
ADAM19	GTExv8.ALL.Breast_Mammary_Tissue	5	rs4579242	5.07	rs4331881	9.38	5.00803	527	5.059825	4.20E-07	0.000633696
ADAM19	GTExv8.ALL.Stomach	5	rs4579242	5.07	rs1422795	5.68	5.05476	528	5.05476	4.31E-07	0.000646931
XRCC3	GTExv8.ALL.Artery_Coronary	14	rs2403197	5.43	rs4906335	5.54	5.02226	344	4.95025	7.41E-07	0.000667937
KLC1	GTExv8.ALL.Breast_Mammary_Tissue	14	rs2403197	5.43	rs12884809	4.79	4.99636	352	4.99636	5.84E-07	0.000672494
SLC22A5	GTExv8.ALL.Breast_Mammary_Tissue	5	rs803054	5.77	rs2631360	-7.38	-4.983664	409	4.983664	6.24E-07	0.000672494
ADAM19	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	5	rs4579242	5.07	rs1422795	9.81	5.05476	527	5.07544	3.87E-07	0.000701282
XRCC3	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	14	rs2403197	5.43	rs12886637	9.25	4.78702	342	5.05345	4.34E-07	0.000701282
WBP2NL	GTExv8.ALL.Whole_Blood	22	rs133308	4.71	rs12484402	3.99	4.600591	343	5.06613	4.06E-07	0.000701487
PDF	GTExv8.ALL.Adipose_Subcutaneous	16	rs9940899	5.18	rs12708895	-8.08	4.99315	296	-4.9931	5.94E-07	0.0007029
DESI1	GTExv8.ALL.Colon_Sigmoid	22	rs133308	4.71	rs9607821	-4.29	1.561844	309	-4.88781	1.02E-06	0.000707212
XRCC3	GTExv8.ALL.Colon_Sigmoid	14	rs2403197	5.43	rs709400	-5.91	-3.18855	345	4.8743	1.09E-06	0.000707212
ADAM19	GTExv8.ALL.Lung	5	rs4579242	5.07	rs4331881	7.95	5.00803	527	5.07078	3.96E-07	0.000756281
SLC22A5	GTExv8.ALL.Esophagus_Mucosa	5	rs803054	5.77	rs2631360	-12.04	-4.98366	402	4.98366	6.24E-07	0.000775086
COA8	GTExv8.ALL.Brain_Substantia_nigra	14	rs2403197	5.43	rs34026011	-4.23	5.33313	359	-4.98581	6.17E-07	0.000779271
AAGAB	GTExv8.ALL.Thyroid	15	rs744910	4.78	rs3825977	4.92	-3.98128	483	-5.04	4.55E-07	0.0007852
ADAM19	GTExv8.ALL.Thyroid	5	rs4579242	5.07	rs1422795	7.04	5.05476	527	5.05	4.31E-07	0.0007852
SLC22A5	GTExv8.ALL.Whole_Blood	5	rs803054	5.77	rs2631360	-11.79	-4.98366	400	5.00021	5.73E-07	0.000799725
Y_RNA	GTExv8.ALL.Whole_Blood	5	rs803054	5.77	rs2548993	3.95	4.97646	405	4.97646	6.48E-07	0.000799725
XRCC3	GTExv8.ALL.Vagina	14	rs2403197	5.43	rs7148456	4.36	4.98496	346	4.985	6.20E-07	0.00081747
SLC22A4	GTExv8.ALL.Whole_Blood	5	rs803054	5.77	rs17622208	-5.02	-4.94243	392	4.94243	7.72E-07	0.000833664
SMAD3	GTExv8.ALL.Stomach	15	rs744910	4.78	rs17293632	-3.68	3.65631	559	-4.94916	7.45E-07	0.000894596
KIF3A	GTExv8.ALL.Muscle_Skeletal	5	rs803054	5.77	rs256871	-6.15	4.73453	396	-4.9591	7.08E-07	0.000898003
ZNF652	GTExv8.ALL.Artery_Coronary	17	rs16948048	5.48	rs2107634	-3.88	4.84456	349	-4.84456	1.27E-06	0.000953982
NFAT5	GTExv8.ALL.Whole_Blood	16	rs9940899	5.18	rs13331125	3.64	4.53913	296	4.889117	1.01E-06	0.000969488
SLC22A5	GTExv8.ALL.Cells_Cultured_fibroblasts	5	rs803054	5.77	rs2631360	-13.98	-4.983664	407	4.96961	6.71E-07	0.000983207
PDF	GTExv8.ALL.Lung	16	rs9940899	5.18	rs2288039	-6.57	5.13051	296	-4.954175	7.26E-07	0.000990368
SLC22A5	GTExv8.ALL.Lung	5	rs803054	5.77	rs2631360	-9.57	-4.983664	403	4.98366	6.24E-07	0.000990368
GSDMA	GTExv8.ALL.Brain_Substantia_nigra	17	rs11078934	4.44	rs3859192	-6.26	3.6472	288	-4.85883	1.18E-06	0.00099356
XRCC3	GTExv8.ALL.Heart_Left_Ventricle	14	rs2403197	5.43	rs4906356	5.44	4.79568	344	4.8102	1.51E-06	0.001000375
HMG20A	GTExv8.ALL.Heart_Atrial_Appendage	15	rs8035384	5.09	rs8042307	5.72	3.037949	322	4.87666	1.08E-06	0.001018845
COA8	GTExv8.ALL.Thyroid	14	rs2403197	5.43	rs12889403	-8.35	4.90294	354	-4.96518	6.86E-07	0.00103586
BAG5	GTExv8.ALL.Adrenal_Gland	14	rs2403197	5.43	rs12889403	6.03	4.902943	358	4.90294	9.44E-07	0.00105879
ADAM19	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	5	rs4579242	5.07	rs1422795	7.1	5.05476	527	5.05476	4.31E-07	0.001059542
COG8	GTExv8.ALL.Artery_Tibial	16	rs9940899	5.18	rs9940899	-5.28	5.17803	296	-4.9312	8.17E-07	0.001064347
GNGT2	GTExv8.ALL.Brain_Hypothalamus	17	rs16948048	5.48	rs617182	-4.01	-3.70995	376	4.75446	1.99E-06	0.001071473
XRCC3	GTExv8.ALL.Prostate	14	rs2403197	5.43	rs12884809	7.11	4.99636	344	5.18213	2.19E-07	0.001103979
PPP1R13B	GTExv8.ALL.Colon_Sigmoid	14	rs2403197	5.43	rs12433109	-7.32	4.64669	327	-4.7641	1.90E-06	0.001130025
BAG5	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	14	rs2403197	5.43	rs12889403	4.05	4.90294	357	4.978211	6.42E-07	0.0011564
ADAM19	GTExv8.ALL.Colon_Transverse	5	rs4579242	5.07	rs2277027	6.42	5.0506	528	4.78403	1.72E-06	0.001197589
PDF	GTExv8.ALL.Colon_Transverse	16	rs9940899	5.18	rs877534	-6.78	4.03723	296	-4.8	1.59E-06	0.001197589
SLC22A4	GTExv8.ALL.Colon_Transverse	5	rs803054	5.77	rs11950562	-4.66	-4.7962	398	4.796193	1.62E-06	0.001197589
XRCC3	GTExv8.ALL.Colon_Transverse	14	rs2403197	5.43	rs4906356	8.53	4.79568	345	4.79568	1.62E-06	0.001197589
XRCC3	GTExv8.ALL.Brain_Cortex	14	rs2403197	5.43	rs4906356	5.22	4.7957	344	4.79568	1.62E-06	0.001207508
ADAM19	GTExv8.ALL.Cells_Cultured_fibroblasts	5	rs4579242	5.07	rs1422795	7.26	5.054759	527	4.88866	1.02E-06	0.001307768
MED24	GTExv8.ALL.Stomach	17	rs11078934	4.44	rs3213762	-6.24	4.12998	303	-4.8351	1.33E-06	0.001330887
SLC22A5	GTExv8.ALL.Spleen	5	rs803054	5.77	rs2631360	-8.36	-4.9837	417	4.89638	9.76E-07	0.001353322
PDF	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	16	rs9940899	5.18	rs12708895	-5.64	4.99315	296	-4.84176	1.29E-06	0.001359107
SLC22A5	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	5	rs803054	5.77	rs11950562	-5.86	-4.79619	403	4.85928	1.18E-06	0.001359107
PPP1R13B	GTExv8.ALL.Adipose_Visceral_Omentum	14	rs2403197	5.43	rs12886637	-4.24	4.78702	326	-4.78702	1.69E-06	0.001397291
THG1L	GTExv8.ALL.Adipose_Visceral_Omentum	5	rs4579242	5.07	rs11134939	3.09	0.20491	547	-4.77475	1.80E-06	0.001397291
BAG5	GTExv8.ALL.Pancreas	14	rs2403197	5.43	rs7148456	6.51	4.98496	358	5.09026	3.58E-07	0.001420224
PPP1R3C	GTExv8.ALL.Pancreas	10	rs4933206	-4.95	rs1329650	-3.83	-4.73334	349	5.06167	4.16E-07	0.001420224
ADAM19	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	5	rs4579242	5.07	rs1422795	8.85	5.05476	527	4.82806	1.38E-06	0.001420434
MED24	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	17	rs11078934	4.44	rs3935280	-9.37	4.426	302	-4.8401	1.30E-06	0.001420434
XRCC3	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	14	rs2403197	5.43	rs4906356	9.16	4.79568	344	4.85377	1.21E-06	0.001420434
KIF3A	GTExv8.ALL.Adipose_Visceral_Omentum	5	rs803054	5.77	rs256871	-6.9	4.73453	397	-4.73453	2.20E-06	0.001445062
MPZ	GTExv8.ALL.Adipose_Visceral_Omentum	1	rs1340978	4.11	rs7523762	-3.52	1.50862	420	-4.7453	2.08E-06	0.001445062
SLC22A5	GTExv8.ALL.Adipose_Subcutaneous	5	rs803054	5.77	rs2073643	7.33	4.28427	398	4.79453	1.63E-06	0.001446625
CTSH	GTExv8.ALL.Brain_Spinal_cord_cervical_c-1	15	rs16969968	18.19	rs16970254	4.36	3.225819	435	4.9175	8.76E-07	0.00145197
NIP7	GTExv8.ALL.Lung	16	rs9940899	5.18	rs7187579	-3.93	4.85006	298	-4.850062	1.23E-06	0.001468159
XRCC3	GTExv8.ALL.Spleen	14	rs2403197	5.43	rs4906356	7.56	4.79568	344	4.8435	1.28E-06	0.00147904
KIF3A	GTExv8.ALL.Artery_Coronary	5	rs803054	5.77	rs256871	-5.29	4.7345	413	-4.69656	2.65E-06	0.001492944
SNTB2	GTExv8.ALL.Brain_Cerebellar_Hemisphere	16	rs9940899	5.18	rs9935533	-4.74	4.90734	318	-4.9073	9.23E-07	0.001498029
PDF	GTExv8.ALL.Nerve_Tibial	16	rs9940899	5.18	rs12708895	-8.69	4.99315	296	-4.84886	1.24E-06	0.001509452
MED24	GTExv8.ALL.Artery_Coronary	17	rs11078934	4.44	rs11078934	-6.9	4.43784	301	-4.6697	3.02E-06	0.001512349
CYP1B1	GTExv8.ALL.Liver	2	rs4670233	-5.14	rs151096	4.36	-4.82821	580	-4.94828	7.49E-07	0.001513729
XRCC3	GTExv8.ALL.Lung	14	rs2403197	5.43	rs4906356	6.1	4.79568	343	4.8185	1.45E-06	0.00153845
XRCC3	GTExv8.ALL.Artery_Aorta	14	rs2403197	5.43	rs4906356	7.6	4.79568	344	4.78993	1.67E-06	0.001595778
COA8	GTExv8.ALL.Minor_Salivary_Gland	14	rs2403197	5.43	rs722637	-3.82	4.70728	358	-4.7178	2.38E-06	0.001602692
ZNF678	GTExv8.ALL.Adipose_Subcutaneous	1	rs6672559	4.432	rs12725747	-3.72	3.572148	409	-4.756089	1.97E-06	0.001613885
NDUFA6-DT	GTExv8.ALL.Thyroid	22	rs133308	4.71	rs6002616	-9.8	3.811487	340	-4.853985	1.21E-06	0.001624089
ADAM19	GTExv8.ALL.Esophagus_Muscularis	5	rs4579242	5.07	rs4579242	9.43	5.067373	527	4.96821	6.76E-07	0.001636258
XRCC3	GTExv8.ALL.Whole_Blood	14	rs2403197	5.43	rs4906356	11.26	4.79568	343	4.76399	1.90E-06	0.00164141
SNTB2	GTExv8.ALL.Pituitary	16	rs9940899	5.18	rs9930284	-4.7	4.84347	316	-4.88465	1.04E-06	0.00165698
NDUFA6-DT	GTExv8.ALL.Lung	22	rs133308	4.71	rs133302	-7.65	4.651294	344	-4.76093	1.93E-06	0.001675415
LINC02237	GTExv8.ALL.Adipose_Subcutaneous	8	rs7843740	5.53	rs4501609	3.33	4.72618	234	4.72618	2.29E-06	0.001742036
GRK4	GTExv8.ALL.Brain_Spinal_cord_cervical_c-1	4	rs624833	-5.05	rs7678161	-3.88	-4.8002	380	4.800201	1.59E-06	0.00175695
ADAM19	GTExv8.ALL.Nerve_Tibial	5	rs4579242	5.07	rs4579242	13.06	5.06737	525	4.796818	1.61E-06	0.001781685
XRCC3	GTExv8.ALL.Esophagus_Mucosa	14	rs2403197	5.43	rs4906356	9.95	4.79568	344	4.795683	1.62E-06	0.00178866
GNGT2	GTExv8.ALL.Colon_Transverse	17	rs16948048	5.48	rs7502499	4.07	1.34896	375	4.68073	2.86E-06	0.001825395
SLC22A5	GTExv8.ALL.Colon_Transverse	5	rs803054	5.77	rs2073643	6.83	4.2843	406	4.661635	3.14E-06	0.001849943
KIF3A	GTExv8.ALL.Breast_Mammary_Tissue	5	rs803054	5.77	rs194395	-6.77	4.732392	406	-4.732392	2.22E-06	0.001860853
KIF3A	GTExv8.ALL.Artery_Aorta	5	rs803054	5.77	rs256871	-7.04	4.73453	404	-4.73453	2.20E-06	0.001892
KIF3A	GTExv8.ALL.Spleen	5	rs803054	5.77	rs30512	-5.49	4.7353	414	-4.73525	2.19E-06	0.001906575
SEPTIN8	GTExv8.ALL.Spleen	5	rs803054	5.77	rs256871	-3.61	4.7345	425	-4.73453	2.20E-06	0.001906575
SLC22A5	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	5	rs803054	5.77	rs11950562	-14.4	-4.79619	396	4.83155	1.35E-06	0.001908731
NIP7	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	16	rs9940899	5.18	rs9924894	-6.15	3.97922	296	-4.747132	2.06E-06	0.001927598
PPP1R13B	GTExv8.ALL.Brain_Caudate_basal_ganglia	14	rs2403197	5.43	rs722637	4.94	4.70728	327	4.70728	2.51E-06	0.001938796
CHRNA2	GTExv8.ALL.Brain_Cerebellum	8	rs11778040	-5.35	rs2565055	7.47	-2.06281	642	-4.778316	1.77E-06	0.001946241
PPP1R13B	GTExv8.ALL.Nerve_Tibial	14	rs2403197	5.43	rs8004408	-4.53	4.76108	326	-4.76108	1.93E-06	0.001957824
DNAJA4	GTExv8.ALL.Brain_Cortex	15	rs16969968	18.19	rs11635324	4.36	-3.90293	406	-4.669288	3.02E-06	0.002000918
ZFYVE21	GTExv8.ALL.Breast_Mammary_Tissue	14	rs2403197	5.43	rs1955660	3.86	4.22936	343	4.67308	2.97E-06	0.00203688
NIP7	GTExv8.ALL.Artery_Tibial	16	rs9940899	5.18	rs1048818	-6.79	4.02449	296	-4.73834	2.15E-06	0.002037027
NDUFA6-DT	GTExv8.ALL.Artery_Tibial	22	rs133308	4.71	rs134894	-5.34	4.491225	338	-4.7195	2.36E-06	0.00204966
SLC22A5	GTExv8.ALL.Artery_Tibial	5	rs803054	5.77	rs2631360	-9.98	-4.98366	399	4.691175	2.72E-06	0.002054623
XRCC3	GTExv8.ALL.Artery_Tibial	14	rs2403197	5.43	rs861531	-6.5	-3.12383	344	4.68812	2.76E-06	0.002054623
SLC22A5	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	5	rs803054	5.77	rs2631360	-12.05	-4.98366	402	4.68135	2.85E-06	0.002139474
CKB	GTExv8.ALL.Brain_Amygdala	14	rs2403197	5.43	rs2296487	-3.84	3.8629	356	-4.8032	1.56E-06	0.00214344
MED24	GTExv8.ALL.Adipose_Visceral_Omentum	17	rs11078934	4.44	rs11078934	-8.5	4.43784	303	-4.61809	3.87E-06	0.002203062
RMDN2-AS1	GTExv8.ALL.Adipose_Visceral_Omentum	2	rs4670233	-5.14	rs2855658	4.6	-4.62589	585	-4.62589	3.73E-06	0.002203062
ZFYVE21	GTExv8.ALL.Thyroid	14	rs2403197	5.43	rs4900594	-5.06	4.70555	344	-4.76987	1.84E-06	0.00222272
TBC1D2B	GTExv8.ALL.Minor_Salivary_Gland	15	rs2036527	17.81	rs2044099	-4.09	-0.99429	417	4.59855	4.25E-06	0.00224627
XRCC3	GTExv8.ALL.Kidney_Cortex	14	rs2403197	5.43	rs4906356	3.86	4.79568	345	4.7957	1.62E-06	0.00225828
ETFA	GTExv8.ALL.Esophagus_Mucosa	15	rs2959856	-4.33	rs8042255	-3.5	1.537547	280	-4.72594	2.29E-06	0.002275573
CHRNA2	GTExv8.ALL.Brain_Cerebellar_Hemisphere	8	rs11778040	-5.35	rs11780471	6.3	-3.9959	643	-4.7695	1.85E-06	0.00240204
KIF3A	GTExv8.ALL.Thyroid	5	rs803054	5.77	rs194395	-5.72	4.73239	402	-4.73	2.22E-06	0.002406708
NDUFA6-DT	GTExv8.ALL.Adipose_Visceral_Omentum	22	rs133308	4.71	rs6002621	-6.43	3.8046	341	-4.58569	4.52E-06	0.002412268
TERF2	GTExv8.ALL.Artery_Tibial	16	rs9940899	5.18	rs12149547	-4.6	4.45138	300	-4.63701	3.53E-06	0.002452644
SMAD3	GTExv8.ALL.Esophagus_Mucosa	15	rs744910	4.78	rs744910	10.36	4.775413	559	4.69044	2.73E-06	0.002466183
PDF	GTExv8.ALL.Artery_Tibial	16	rs9940899	5.18	rs877534	-12.17	4.03723	294	-4.62183	3.80E-06	0.002475225
ZFYVE21	GTExv8.ALL.Colon_Sigmoid	14	rs2403197	5.43	rs1535099	5.54	4.67729	345	4.5846	4.55E-06	0.00249795
BLK	GTExv8.ALL.Adrenal_Gland	8	rs2409764	-4.69	rs2409764	4.76	-4.68898	629	-4.68898	2.75E-06	0.002570333
PDF	GTExv8.ALL.Esophagus_Muscularis	16	rs9940899	5.18	rs12922774	-7.76	3.4329	296	-4.83442	1.34E-06	0.002594776
GNGT2	GTExv8.ALL.Adipose_Subcutaneous	17	rs16948048	5.48	rs4794029	5.22	4.317752	376	4.60267	4.17E-06	0.002597417
PPP1R13B	GTExv8.ALL.Adipose_Subcutaneous	14	rs2403197	5.43	rs11847468	-5.39	4.47732	325	-4.59668	4.29E-06	0.002597417
ZNF652	GTExv8.ALL.Adipose_Subcutaneous	17	rs16948048	5.48	rs12940887	-5.26	5.465915	350	-4.59178	4.39E-06	0.002597417
CYP2G1P	GTExv8.ALL.Adrenal_Gland	19	rs8103444	-4.51	rs7252852	2.98	-1.92262	421	-4.651922	3.29E-06	0.00263576
GNGT2	GTExv8.ALL.Whole_Blood	17	rs16948048	5.48	rs4794029	5.05	4.31775	374	4.611624	4.00E-06	0.002653407
SNTB2	GTExv8.ALL.Whole_Blood	16	rs9940899	5.18	rs11075708	7.87	4.51941	317	4.596291	4.30E-06	0.002653407
TSPAN3	GTExv8.ALL.Whole_Blood	15	rs12911362	4.29	rs11639197	10.1	-2.55832	255	-4.62394	3.77E-06	0.002653407
CHTF8	GTExv8.ALL.Esophagus_Muscularis	16	rs9940899	5.18	rs2232229	3.3	-0.72506	321	-4.78611	1.70E-06	0.002743233
IREB2	GTExv8.ALL.Whole_Blood	15	rs16969968	18.19	rs3817092	12.25	-4.57324	391	-4.57324	4.80E-06	0.00276448
MED24	GTExv8.ALL.Artery_Tibial	17	rs11078934	4.44	rs11078934	-14.47	4.43784	302	-4.58195	4.61E-06	0.002826201
PPP1R13B	GTExv8.ALL.Muscle_Skeletal	14	rs2403197	5.43	rs2295146	-4.63	4.23167	326	-4.6694	3.02E-06	0.002853425
XRCC3	GTExv8.ALL.Muscle_Skeletal	14	rs2403197	5.43	rs861531	-9.12	-3.12383	343	4.6635	3.11E-06	0.002853425
HYKK	GTExv8.ALL.Brain_Frontal_Cortex_BA9	15	rs16969968	18.19	rs12916483	-4.43	-6.82587	427	4.67669	2.92E-06	0.002862768
DNAH12	GTExv8.ALL.Thyroid	3	rs17289035	-4.48	rs11916437	6.4	-2.42168	330	-4.64216	3.45E-06	0.002883093
MED24	GTExv8.ALL.Thyroid	17	rs11078934	4.44	rs11078934	-12.2	4.43784	302	-4.63457	3.58E-06	0.002883093
IL13	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	5	rs803057	5.89	rs2631360	4.62	-4.9837	405	-4.6285	3.68E-06	0.002975406
SLC35G5	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	8	rs2409764	-4.69	rs2736374	4.25	-3.75037	638	-4.6178	3.88E-06	0.002975406
MARCHF5	GTExv8.ALL.Colon_Transverse	10	rs1589067	4.39	rs11186852	-6.41	4.30835	305	-4.53103	5.87E-06	0.002997222
SEPTIN8	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	5	rs803054	5.77	rs30512	12.08	4.73525	406	4.694649	2.67E-06	0.003020037
RHOT2	GTExv8.ALL.Brain_Cerebellum	16	rs1128550	-4.66	rs1128550	5.41	-4.65511	446	-4.6551	3.24E-06	0.003117285
TSPAN3	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	15	rs12911362	4.29	rs17394448	6.72	-3.3019	255	-4.67	3.04E-06	0.003125949
KIF3A	GTExv8.ALL.Adipose_Subcutaneous	5	rs803054	5.77	rs12186803	-7.75	3.180824	399	-4.53418	5.78E-06	0.003147075
NOP14	GTExv8.ALL.Adipose_Subcutaneous	4	rs624833	-5.05	rs2051556	-3.95	-4.22012	384	4.52944	5.91E-06	0.003147075
AGO2	GTExv8.ALL.Testis	8	rs10109684	-4.7	rs7016497	11.28	-4.49315	368	-4.633	3.60E-06	0.003223029
ADD1	GTExv8.ALL.Cells_Cultured_fibroblasts	4	rs624833	-5.05	rs35780153	5.23	-4.68248	384	-4.6825	2.83E-06	0.003225257
FAM13A	GTExv8.ALL.Lung	4	rs7671167	5.62	rs2869967	4	4.90736	464	4.606299	4.10E-06	0.003262575
TERF2	GTExv8.ALL.Adipose_Subcutaneous	16	rs9940899	5.18	rs17691749	-5.3	4.50778	302	-4.5078	6.55E-06	0.003321786
RHOT2	GTExv8.ALL.Thyroid	16	rs1128550	-4.66	rs4984681	4.63	-4.42371	437	-4.59162	4.40E-06	0.003322
VPS4A	GTExv8.ALL.Muscle_Skeletal	16	rs9940899	5.18	rs3852689	4.2	4.61159	305	4.61159	4.00E-06	0.003336364
BMP1	GTExv8.ALL.Artery_Tibial	8	rs4072420	-4.14	rs4072420	-9.82	-4.13883	444	4.51381	6.37E-06	0.003494113
STUB1	GTExv8.ALL.Artery_Tibial	16	rs1128550	-4.66	rs4984681	4.51	-4.42371	426	-4.51606	6.30E-06	0.003494113
MED24	GTExv8.ALL.Esophagus_Muscularis	17	rs11078934	4.44	rs7502514	-11.78	4.408921	302	-4.67571	2.93E-06	0.003514566
PPP1R13B	GTExv8.ALL.Esophagus_Muscularis	14	rs2403197	5.43	rs4900594	-9.61	4.69291	326	-4.69291	2.69E-06	0.003514566
SLC22A5	GTExv8.ALL.Esophagus_Muscularis	5	rs803054	5.77	rs2631360	-6.49	-4.983664	406	4.63176	3.63E-06	0.003514566
TBC1D2B	GTExv8.ALL.Brain_Cerebellum	15	rs2036527	17.81	rs8033802	4.59	-0.92961	416	4.60566	4.11E-06	0.003514963
DNAJA4	GTExv8.ALL.Brain_Frontal_Cortex_BA9	15	rs16969968	18.19	rs2037347	4.49	-4.59515	407	-4.59515	4.32E-06	0.00352944
NDUFA6-DT	GTExv8.ALL.Esophagus_Muscularis	22	rs133308	4.71	rs133341	-5.13	4.651339	343	-4.60978	4.03E-06	0.003547133
MARCHF5	GTExv8.ALL.Esophagus_Mucosa	10	rs1589067	4.39	rs7090404	-6.69	4.16049	305	-4.59634	4.30E-06	0.003560758
PPP1R3B-DT	GTExv8.ALL.Nerve_Tibial	8	rs1562211	4.79	rs17707436	5.31	-2.40243	653	-4.60458	4.13E-06	0.003591035
PPP1R13B	GTExv8.ALL.Breast_Mammary_Tissue	14	rs2403197	5.43	rs2887282	-5.44	4.4716	326	-4.53275	5.82E-06	0.00365884
VPS4A	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	16	rs9940899	5.18	rs12929269	-4.2	-4.61289	305	4.61289	3.97E-06	0.003659844
NDUFA6-DT	GTExv8.ALL.Nerve_Tibial	22	rs133308	4.71	rs4147638	-10.77	3.811744	339	-4.5865	4.51E-06	0.003660015
COA8	GTExv8.ALL.Muscle_Skeletal	14	rs2403197	5.43	rs10149249	-14.95	-3.43402	350	4.5717	4.84E-06	0.003700583
PSMD3	GTExv8.ALL.Brain_Cerebellum	17	rs11078934	4.44	rs8070454	-5.19	4.348524	301	-4.552029	5.31E-06	0.003715552
ADAM19	GTExv8.ALL.Heart_Left_Ventricle	5	rs4579242	5.07	rs1422795	6.14	5.05476	527	4.51992	6.19E-06	0.003728068
MED24	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	17	rs11078934	4.44	rs11078934	-11.27	4.43784	302	-4.5785	4.68E-06	0.003835
MARCHF5	GTExv8.ALL.Lung	10	rs1589067	4.39	rs1589067	-4.09	4.3879	305	-4.5149	6.33E-06	0.003873313
RHBDL1	GTExv8.ALL.Lung	16	rs1128550	-4.66	rs34409359	8.07	-3.64781	431	-4.509913	6.49E-06	0.003873313
SNTB2	GTExv8.ALL.Lung	16	rs9940899	5.18	rs9302599	-7.21	3.90745	316	-4.511808	6.43E-06	0.003873313
SLC35G5	GTExv8.ALL.Adrenal_Gland	8	rs2409764	-4.69	rs7016361	3.91	-3.95996	638	-4.51831	6.23E-06	0.003881982
KIF3A	GTExv8.ALL.Heart_Left_Ventricle	5	rs803054	5.77	rs9784675	-5.31	3.04345	415	-4.49097	7.09E-06	0.003914271
HECTD2	GTExv8.ALL.Artery_Tibial	10	rs4933206	-4.95	rs4933687	5.12	3.98913	368	4.455748	8.36E-06	0.00396036
KIF3A	GTExv8.ALL.Artery_Tibial	5	rs803054	5.77	rs12186803	-9.79	3.18082	399	-4.460697	8.17E-06	0.00396036
TRMT61A-DT	GTExv8.ALL.Heart_Atrial_Appendage	14	rs2403197	5.43	rs8007489	3.74	-2.18433	350	-4.57535	4.75E-06	0.003983139
CYP2D7	GTExv8.ALL.Brain_Caudate_basal_ganglia	22	rs133308	4.71	rs134874	-7.29	4.10901	356	-4.52881	5.93E-06	0.004007939
ALG1L13P	GTExv8.ALL.Breast_Mammary_Tissue	8	rs7823056	4.53	rs7837587	4.64	4.49393	339	4.49393	6.99E-06	0.004056351
NDUFA6-DT	GTExv8.ALL.Colon_Sigmoid	22	rs133308	4.71	rs932376	5.31	-2.622535	344	-4.46457	8.02E-06	0.004088481
RHBDL1	GTExv8.ALL.Esophagus_Mucosa	16	rs1128550	-4.66	rs2301426	6.87	-4.57361	434	-4.54834	5.41E-06	0.004135321
PPP1R13B	GTExv8.ALL.Colon_Transverse	14	rs2403197	5.43	rs3818085	-5.93	4.44215	327	-4.44811	8.66E-06	0.004145434
STAG3	GTExv8.ALL.Pituitary	7	rs12705071	4.25	rs1880949	4.9	4.1995	270	4.65307	3.27E-06	0.004167942
PPP1R13B	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	14	rs2403197	5.43	rs8004408	-4.71	4.76108	327	-4.56948	4.89E-06	0.00417606
PPP1R13B	GTExv8.ALL.Thyroid	14	rs2403197	5.43	rs4900594	9.25	4.69291	326	4.53075	5.88E-06	0.004178259
IDH3A	GTExv8.ALL.Muscle_Skeletal	15	rs16969968	18.19	rs11855354	10.56	-4.65065	410	-4.52124	6.15E-06	0.004340481
PBX3	GTExv8.ALL.Artery_Tibial	9	rs12341976	-4.62	rs7849076	8.8	-4.15	382	-4.4247	9.66E-06	0.00437724
AP1M2	GTExv8.ALL.Testis	19	rs2116941	3.14	rs2304087	3.61	2.44163	357	4.55256	5.30E-06	0.00442868
XRCC3	GTExv8.ALL.Adipose_Visceral_Omentum	14	rs2403197	5.43	rs4906356	6.99	4.79568	343	4.44235	8.90E-06	0.004470418
MFHAS1	GTExv8.ALL.Brain_Frontal_Cortex_BA9	8	rs1562211	4.79	rs4841005	3.84	3.43624	702	4.4824	7.38E-06	0.004522095
XRCC3	GTExv8.ALL.Brain_Frontal_Cortex_BA9	14	rs2403197	5.43	rs12432907	-3.74	-2.10669	345	4.50015	6.79E-06	0.004522095
FOXN3-AS1	GTExv8.ALL.Artery_Tibial	14	rs7422	4.4	rs7422	4.19	4.39899	524	4.39899	1.09E-05	0.004543992
TRMT61A-DT	GTExv8.ALL.Brain_Cerebellar_Hemisphere	14	rs2403197	5.43	rs4900594	3.52	4.6805	352	4.56653	4.96E-06	0.004600046
ERI1	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	8	rs1562211	4.79	rs2288671	-3.66	4.2073	696	-4.4876	7.20E-06	0.00464625
PPP1R13B	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	14	rs2403197	5.43	rs2295145	-8.31	4.33467	326	-4.477338	7.56E-06	0.00464625
THRA	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	17	rs11078934	4.44	rs868150	4.67	4.40113	300	4.5097	6.49E-06	0.00464625
CASTOR3P	GTExv8.ALL.Muscle_Skeletal	7	rs12705071	4.25	rs1727133	-6.52	3.877556	272	-4.471885	7.75E-06	0.004740417
ZFYVE21	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	14	rs2403197	5.43	rs7154948	-5.18	-3.70218	344	4.455775	8.36E-06	0.004742692
PPP1R13B-DT	GTExv8.ALL.Thyroid	14	rs2403197	5.43	rs7159810	-6.37	4.46947	326	-4.48948	7.14E-06	0.004791733
TIE1	GTExv8.ALL.Adipose_Subcutaneous	1	rs1199039	-4.401	rs3768046	-10.12	-4.256977	455	4.405112	1.06E-05	0.004908261
RNF217-AS1	GTExv8.ALL.Muscle_Skeletal	6	rs7770974	-4.75	rs11154289	4.55	-2.85	482	-4.44976	8.60E-06	0.004931563
MED24	GTExv8.ALL.Vagina	17	rs11078934	4.44	rs868150	-5.45	4.40113	303	-4.53784	5.68E-06	0.00499272
GSDMC	GTExv8.ALL.Cells_Cultured_fibroblasts	8	rs4144737	3.92	rs4144738	6.35	3.71156	458	4.55013	5.36E-06	0.004997956
PDF	GTExv8.ALL.Cells_Cultured_fibroblasts	16	rs9940899	5.18	rs1048818	-11.07	4.02449	296	-4.56377	5.02E-06	0.004997956
TRMT61A-DT	GTExv8.ALL.Artery_Aorta	14	rs2403197	5.43	rs3783394	6.08	-2.5711	351	-4.4938	7.00E-06	0.005016667
CHRNB4	GTExv8.ALL.Testis	15	rs16969968	18.19	rs8043123	-7.78	-4.94175	435	4.481297	7.42E-06	0.005053181
PBX3	GTExv8.ALL.Testis	9	rs12341976	-4.624	rs6478712	7.69	-4.48182	383	-4.48182	7.40E-06	0.005053181
TRMT61A-DT	GTExv8.ALL.Testis	14	rs2403197	5.43	rs1467561	-3.9	-2.83909	351	4.47458	7.66E-06	0.005053181
MED24	GTExv8.ALL.Adrenal_Gland	17	rs11078934	4.44	rs11078934	-6.77	4.43784	302	-4.43784	9.09E-06	0.005097672
RHBDL1	GTExv8.ALL.Muscle_Skeletal	16	rs1128550	-4.66	rs4984681	7	-4.42371	425	-4.42371	9.70E-06	0.005148194
LNPEP	GTExv8.ALL.Muscle_Skeletal	5	rs2549782	-4.44	rs2549796	-5.75	-4.39052	500	4.39052	1.13E-05	0.005183875
TIE1	GTExv8.ALL.Muscle_Skeletal	1	rs1199039	-4.401	rs3768046	-10.98	-4.25698	453	4.39715	1.10E-05	0.005183875
LRRN2	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	1	rs3789044	-4.39	rs3789044	4.9	-4.39219	611	-4.39219	1.12E-05	0.005254688
PBX3	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	9	rs12341976	-4.62	rs4838298	8.48	-4.2173	382	-4.41676	1.00E-05	0.005254688
XRCC3	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	14	rs2403197	5.43	rs861539	-6.44	-3.13853	344	4.387826	1.14E-05	0.005254688
NOB1	GTExv8.ALL.Adipose_Subcutaneous	16	rs12708895	4.99	rs1469908	-3.83	3.28245	253	-4.3708	1.24E-05	0.0052824
RHBDL1	GTExv8.ALL.Adipose_Subcutaneous	16	rs1128550	-4.66	rs11642546	8.34	-3.75848	427	-4.3785	1.20E-05	0.0052824
ALG1L13P	GTExv8.ALL.Uterus	8	rs7823056	4.53	rs2921077	4.07	4.0125	343	4.5333	5.81E-06	0.005312277
RHBDL1	GTExv8.ALL.Uterus	16	rs1128550	-4.66	rs4984906	5.59	-4.5534	444	-4.55344	5.28E-06	0.005312277
RHBDL1	GTExv8.ALL.Nerve_Tibial	16	rs1128550	-4.66	rs2076142	10.26	-3.78542	428	-4.46834	7.88E-06	0.005329069
FOXN3	GTExv8.ALL.Heart_Left_Ventricle	14	rs7422	4.4	rs7422	-5.55	4.39899	498	-4.39899	1.09E-05	0.005554808
NIP7	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	16	rs9940899	5.18	rs9930284	-4.69	4.84347	298	-4.45757	8.29E-06	0.00556259
PHLPP2	GTExv8.ALL.Brain_Cortex	16	rs8050058	4.34	rs2288486	3.9	-3.00725	438	-4.43213	9.33E-06	0.005563479
DNAJA4	GTExv8.ALL.Artery_Aorta	15	rs16969968	18.19	rs8032417	4.09	-4.59874	406	-4.41962	9.89E-06	0.005670267
PBX3	GTExv8.ALL.Artery_Aorta	9	rs12341976	-4.62	rs7849076	6.93	-4.14592	383	-4.42185	9.79E-06	0.005670267
ZFYVE21	GTExv8.ALL.Artery_Aorta	14	rs2403197	5.43	rs2295148	5.94	4.36642	344	4.42173	9.79E-06	0.005670267
GRK4	GTExv8.ALL.Vagina	4	rs624833	-5.05	rs2051556	-6.96	-4.2201	384	4.400489	1.08E-05	0.00569592
ADAM19	GTExv8.ALL.Pancreas	5	rs4579242	5.07	rs4579243	5.45	2.9834	527	4.64857	3.34E-06	0.00570138
PPP1R13B	GTExv8.ALL.Pancreas	14	rs2403197	5.43	rs3742365	-4.85	4.66141	326	-4.66141	3.14E-06	0.00570138
CYP2D8P	GTExv8.ALL.Ovary	22	rs133308	4.71	rs1801311	-4.9	3.790303	359	-4.4123	1.02E-05	0.0057096
GSDMA	GTExv8.ALL.Ovary	17	rs11078934	4.44	rs3859192	-3.91	3.647197	297	-4.34839	1.37E-05	0.0057096
MED24	GTExv8.ALL.Ovary	17	rs11078934	4.44	rs3213762	-7.61	4.129981	302	-4.31974	1.56E-05	0.0057096
MED8	GTExv8.ALL.Ovary	1	rs1199039	-4.401	rs839755	4.27	-4.3745	457	-4.3745	1.22E-05	0.0057096
RHOT2	GTExv8.ALL.Ovary	16	rs1128550	-4.66	rs4984913	3.89	-3.28625	448	-4.3289	1.50E-05	0.0057096
KIF3A	GTExv8.ALL.Cells_Cultured_fibroblasts	5	rs803054	5.77	rs12186803	-9.05	3.180824	403	-4.50378	6.68E-06	0.00570973
MED8	GTExv8.ALL.Muscle_Skeletal	1	rs1199039	-4.401	rs839755	-19.15	-4.37445	449	4.35764	1.31E-05	0.005723452
MED24	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	17	rs11078934	4.44	rs6503534	4.73	-3.158948	300	-4.455098	8.39E-06	0.005732048
MIR124-1HG	GTExv8.ALL.Testis	8	rs7837979	4.32	rs1399054	-4.77	2.98109	619	-4.43529	9.19E-06	0.005759373
FAM167A	GTExv8.ALL.Brain_Frontal_Cortex_BA9	8	rs2409764	-4.69	rs7836059	4.71	-3.00543	624	-4.4033	1.07E-05	0.005827933
RHBDL1	GTExv8.ALL.Cells_Cultured_fibroblasts	16	rs1128550	-4.66	rs1128550	9.15	-4.65511	436	-4.47942	7.48E-06	0.00590172
GSDMA	GTExv8.ALL.Testis	17	rs11078934	4.44	rs3935280	-4.44	4.425995	297	-4.40469	1.06E-05	0.006039109
MED24	GTExv8.ALL.Testis	17	rs11078934	4.44	rs11078934	-10.1	4.43784	302	-4.40428	1.06E-05	0.006039109
SH2D7	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	15	rs2036527	17.81	rs10456	5.19	4.095	417	4.41252	1.02E-05	0.006083733
MED24	GTExv8.ALL.Prostate	17	rs11078934	4.44	rs3934886	6.8	-3.14684	302	-4.45933	8.22E-06	0.006085207
NDUFA6-DT	GTExv8.ALL.Prostate	22	rs133308	4.71	rs6002621	-6.99	3.80462	347	-4.49909	6.82E-06	0.006085207
PPP1R13B	GTExv8.ALL.Prostate	14	rs2403197	5.43	rs2295145	-3.85	4.33467	326	-4.54345	5.53E-06	0.006085207
SLC22A5	GTExv8.ALL.Prostate	5	rs803054	5.77	rs7705189	-4.14	-4.22165	418	4.45357	8.45E-06	0.006085207
ZPBP2	GTExv8.ALL.Prostate	17	rs11078934	4.44	rs7208252	-4.08	1.83394	289	-4.47952	7.48E-06	0.006085207
MED24	GTExv8.ALL.Uterus	17	rs11078934	4.44	rs7502514	-5.04	4.40892	302	-4.44202	8.91E-06	0.006110033
CYP2D7	GTExv8.ALL.Brain_Frontal_Cortex_BA9	22	rs133308	4.71	rs134874	-5.72	4.10901	356	-4.36954	1.25E-05	0.0061275
GSDMA	GTExv8.ALL.Liver	17	rs11078934	4.44	rs3859192	-5.25	3.6472	298	-4.58424	4.56E-06	0.00614384
TIE1	GTExv8.ALL.Artery_Tibial	1	rs1199039	-4.40081	rs1556581	-5.52	-4.32017	455	4.320173	1.56E-05	0.0062532
RPS2P45	GTExv8.ALL.Testis	16	rs9940899	5.18	rs32853	-4.86	-4.56551	314	4.38669	1.15E-05	0.006267
SEPTIN8	GTExv8.ALL.Cells_Cultured_fibroblasts	5	rs803054	5.77	rs30512	-9.77	4.735253	412	-4.45035	8.57E-06	0.006278749
PBX3	GTExv8.ALL.Pancreas	9	rs12341976	-4.62	rs6478712	4.64	-4.48182	383	-4.48182	7.40E-06	0.0063159
PDF	GTExv8.ALL.Pancreas	16	rs9940899	5.18	rs2288039	-7.31	5.13051	296	-4.516	6.30E-06	0.0063159
SREBF2-AS1	GTExv8.ALL.Pancreas	22	rs133308	4.71	rs133333	-3.57	4.662461	321	-4.48533	7.28E-06	0.0063159
IQCH	GTExv8.ALL.Colon_Transverse	15	rs744910	4.78	rs8025774	-5.88	-3.97206	482	4.34048	1.42E-05	0.006397518
MED24	GTExv8.ALL.Esophagus_Mucosa	17	rs11078934	4.44	rs11078934	-6.79	4.43784	302	-4.43784	9.09E-06	0.006425927
NDUFA6-DT	GTExv8.ALL.Heart_Atrial_Appendage	22	rs133308	4.71	rs4467371	7.67	-2.80209	346	-4.43583	9.17E-06	0.006511003
GSDMA	GTExv8.ALL.Pancreas	17	rs11078934	4.44	rs3859192	-7.13	3.6472	297	-4.44164	8.93E-06	0.006517636
LNPEP	GTExv8.ALL.Pancreas	5	rs2549782	-4.44	rs2549795	-7.38	-4.4069	502	4.40739	1.05E-05	0.006517636
MED24	GTExv8.ALL.Pancreas	17	rs11078934	4.44	rs3213762	-7.02	4.12998	302	-4.40594	1.05E-05	0.006517636
LINC03022	GTExv8.ALL.Stomach	8	rs7837979	4.32	rs9329221	4.63	4.2706	710	4.44494	8.79E-06	0.006596895
GNGT2	GTExv8.ALL.Brain_Frontal_Cortex_BA9	17	rs16948048	5.48	rs4794029	4.32	4.32	377	4.31775	1.58E-05	0.0066177
ADAMTSL3	GTExv8.ALL.Ovary	15	rs2585064	-4.78	rs6603004	4.25	4.2561	334	4.2561	2.08E-05	0.006627415
ALG1L13P	GTExv8.ALL.Ovary	8	rs7823056	4.53	rs6601693	-3.38	-1.38147	342	4.25009	2.14E-05	0.006627415
DNAJA4-DT	GTExv8.ALL.Testis	15	rs16969968	18.19	rs12439144	-6.28	-0.99538	405	4.349867	1.36E-05	0.006818496
MED8-AS1	GTExv8.ALL.Stomach	1	rs1199039	-4.4	rs1467809	-4.56	-4.327032	456	4.40997	1.03E-05	0.006871244
MED8	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	1	rs1199039	-4.4	rs11210839	3.84	-4.29137	455	-4.29137	1.78E-05	0.006909211
TDH	GTExv8.ALL.Artery_Aorta	8	rs2409764	-4.69	rs2256241	-4.67	3.83742	636	-4.36198	1.29E-05	0.00693375
ZKSCAN1	GTExv8.ALL.Muscle_Skeletal	7	rs12705071	4.25	rs4424195	6.42	4.246488	234	4.301097	1.70E-05	0.007089773
RHBDL1	GTExv8.ALL.Whole_Blood	16	rs1128550	-4.66	rs4984681	6.47	-4.42371	432	-4.34457	1.40E-05	0.007114471
LINC02550	GTExv8.ALL.Stomach	11	rs321358	3.88	rs6589210	8.11	3.51728	469	4.37277	1.23E-05	0.007150218
SLC22A5	GTExv8.ALL.Stomach	5	rs803054	5.77	rs2522051	6.18	4.35913	406	4.35913	1.31E-05	0.007150218
RHBDL1	GTExv8.ALL.Thyroid	16	rs1128550	-4.66	rs34409359	8.82	-3.61605	434	-4.38506	1.16E-05	0.0071876
SLC22A5	GTExv8.ALL.Thyroid	5	rs803054	5.77	rs2631360	-8.19	-4.98366	405	4.38	1.19E-05	0.0071876
PBX3	GTExv8.ALL.Nerve_Tibial	9	rs12341976	-4.62	rs12352375	7.66	-4.19893	383	-4.39024	1.13E-05	0.007239732
IQCH	GTExv8.ALL.Artery_Tibial	15	rs744910	4.78	rs8031500	-7.3	-4.12786	483	4.26368	2.01E-05	0.007439152
TAF6	GTExv8.ALL.Artery_Tibial	7	rs12705071	4.25	rs4729568	5.53	-2.71518	243	-4.25699	2.07E-05	0.007439152
TRMT61A-DT	GTExv8.ALL.Artery_Tibial	14	rs2403197	5.43	rs942866	4.78	-1.56551	344	-4.26634	1.99E-05	0.007439152
FAM85B	GTExv8.ALL.Artery_Tibial	8	rs7823056	4.53	rs2955587	-10.01	3.56269	318	-4.24827	2.15E-05	0.0074691
ERAP2	GTExv8.ALL.Adipose_Visceral_Omentum	5	rs2549782	-4.44	rs2762	18.06	-4.04793	505	-4.28348	1.84E-05	0.00748179
FAM85B	GTExv8.ALL.Adipose_Visceral_Omentum	8	rs7823056	4.53	rs2976876	-6.02	4.302701	321	-4.3027	1.69E-05	0.00748179
KRT18P34	GTExv8.ALL.Adipose_Visceral_Omentum	3	rs4680340	4	rs8925	-8.56	3.953229	420	-4.292975	1.76E-05	0.00748179
MED24	GTExv8.ALL.Nerve_Tibial	17	rs11078934	4.44	rs3935280	-16.53	4.426	302	-4.37197	1.23E-05	0.007486395
CDC20-DT	GTExv8.ALL.Colon_Transverse	1	rs1199039	-4.4	rs4141741	-4.2	-4.2658	454	4.26583	1.99E-05	0.007549586
MED24	GTExv8.ALL.Colon_Transverse	17	rs11078934	4.44	rs3935280	-8.14	4.426	301	-4.27915	1.88E-05	0.007549586
TIE1	GTExv8.ALL.Colon_Transverse	1	rs1199039	-4.4	rs3768046	-5.64	-4.257	459	4.25698	2.07E-05	0.007549586
MORF4L1	GTExv8.ALL.Artery_Aorta	15	rs16969968	18.19	rs7168915	6.34	7.16109	419	4.32937	1.50E-05	0.007588235
PBX3	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	9	rs12341976	-4.62	rs10118570	9.05	-3.70707	382	-4.38108	1.18E-05	0.007591088
XRCC3	GTExv8.ALL.Pituitary	14	rs2403197	5.43	rs4906356	5.28	4.79568	345	4.45573	8.36E-06	0.007611183
MED24	GTExv8.ALL.Pituitary	17	rs11078934	4.44	rs3935280	-9.62	4.425995	301	-4.426	9.60E-06	0.0076476
MFHAS1	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	8	rs1562211	4.79	rs11774353	-3.82	2.1754	700	-4.2556	2.08E-05	0.00767
CSPG4P13	GTExv8.ALL.Brain_Putamen_basal_ganglia	15	rs4268717	6.68	rs2137111	3.22	-2.80819	425	-4.3091	1.64E-05	0.00768075
CYB5B	GTExv8.ALL.Brain_Putamen_basal_ganglia	16	rs9940899	5.18	rs35015253	4.12	4.3177	305	4.31765	1.58E-05	0.00768075
NIP7	GTExv8.ALL.Brain_Putamen_basal_ganglia	16	rs9940899	5.18	rs2288039	-4.26	5.1305	298	-4.30726	1.65E-05	0.00768075
PPP1R13B-DT	GTExv8.ALL.Colon_Transverse	14	rs2403197	5.43	rs2295146	-5.29	4.23167	327	-4.23167	2.32E-05	0.0077256
SNTB2	GTExv8.ALL.Colon_Transverse	16	rs9940899	5.18	rs12920476	-4.47	3.33121	316	-4.24	2.22E-05	0.0077256
GJC3	GTExv8.ALL.Vagina	7	rs12705071	4.25	rs1637001	-3.66	3.99623	265	-4.29087	1.78E-05	0.0078231
PDF	GTExv8.ALL.Heart_Atrial_Appendage	16	rs9940899	5.18	rs12922774	-4.71	3.4329	296	-4.36144	1.29E-05	0.007837269
PDF	GTExv8.ALL.Artery_Coronary	16	rs9940899	5.18	rs9889045	-5.89	4.08757	296	-4.2955	1.74E-05	0.00784218
AAGAB	GTExv8.ALL.Adipose_Subcutaneous	15	rs744910	4.78	rs8038652	5.21	-4.27435	483	-4.27435	1.92E-05	0.007864615
ADAMTS7P3	GTExv8.ALL.Minor_Salivary_Gland	15	rs17483721	16.25	rs9920180	4.78	3.83218	431	4.26765	1.98E-05	0.00801346
CYP2D7	GTExv8.ALL.Minor_Salivary_Gland	22	rs133308	4.71	rs133368	-5.98	3.89651	357	-4.22602	2.38E-05	0.00801346
DESI1	GTExv8.ALL.Minor_Salivary_Gland	22	rs133308	4.71	rs5758511	-2.99	1.57922	313	-4.22701	2.37E-05	0.00801346
TIE1	GTExv8.ALL.Adipose_Visceral_Omentum	1	rs1199039	-4.4	rs3768046	-9.02	-4.25698	457	4.25698	2.07E-05	0.008034423
COG8	GTExv8.ALL.Thyroid	16	rs9940899	5.18	rs8057931	-4.38	4.31074	298	-4.31074	1.63E-05	0.008067714
CYP2D8P	GTExv8.ALL.Thyroid	22	rs133308	4.71	rs6002623	-12.15	3.804623	358	-4.287344	1.81E-05	0.008067714
GNGT2	GTExv8.ALL.Thyroid	17	rs16948048	5.48	rs4794029	7.91	4.31775	376	4.3123	1.62E-05	0.008067714
IST1	GTExv8.ALL.Thyroid	16	rs8050058	4.34	rs12445564	-4.51	3.90299	392	-4.34023	1.42E-05	0.008067714
MED8	GTExv8.ALL.Thyroid	1	rs1199039	-4.40081	rs11210839	9.84	-4.29137	454	-4.29605	1.74E-05	0.008067714
PRAG1	GTExv8.ALL.Thyroid	8	rs7823056	4.53	rs2979179	-16.7	4.3202	437	-4.27958	1.87E-05	0.008067714
TIE1	GTExv8.ALL.Thyroid	1	rs1199039	-4.40081	rs839993	-5.23	-4.31127	458	4.30006	1.71E-05	0.008067714
MARCHF5	GTExv8.ALL.Artery_Tibial	10	rs1589067	4.39	rs1571176	-4.2	4.21987	304	-4.219868	2.44E-05	0.008203123
AP4M1	GTExv8.ALL.Brain_Amygdala	7	rs12705071	4.25	rs4424195	4.44	4.2465	269	4.4351	9.20E-06	0.0084272
MED8	GTExv8.ALL.Breast_Mammary_Tissue	1	rs1199039	-4.4	rs1199038	5.36	-4.28037	450	-4.30276	1.69E-05	0.008499573
PDF	GTExv8.ALL.Whole_Blood	16	rs9940899	5.18	rs8049057	-5.84	3.52791	296	-4.279897	1.87E-05	0.008502595
MED24	GTExv8.ALL.Colon_Sigmoid	17	rs11078934	4.44	rs3213762	-8.65	4.12998	302	-4.27328	1.93E-05	0.008609006
GRK4	GTExv8.ALL.Artery_Tibial	4	rs624833	-5.05	rs2471340	-15.82	-4.19356	383	4.19356	2.75E-05	0.008685
ZKSCAN1	GTExv8.ALL.Artery_Tibial	7	rs12705071	4.25	rs4424195	5.9	4.24649	236	4.19284	2.75E-05	0.008685
ZFYVE21	GTExv8.ALL.Adipose_Visceral_Omentum	14	rs2403197	5.43	rs1955660	3.85	4.22936	343	4.22936	2.34E-05	0.008687504
GULOP	GTExv8.ALL.Liver	8	rs11778040	-5.35	rs7844965	-4.08	-3.7909	619	4.4477	8.68E-06	0.00877114
ERAP2	GTExv8.ALL.Stomach	5	rs2549782	-4.44	rs2762	14.84	-4.04793	504	-4.29367	1.76E-05	0.008805867
ERAP2	GTExv8.ALL.Artery_Aorta	5	rs2549782	-4.44	rs2762	16.46	-4.04793	505	-4.28122	1.86E-05	0.008886667
APPL1	GTExv8.ALL.Brain_Cerebellum	3	rs17289035	-4.48	rs17735233	4.12	-2.6424	391	-4.34472	1.39E-05	0.008915692
IQCH	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	15	rs744910	4.78	rs4776908	-3.67	-4.28682	483	4.21133	2.54E-05	0.008920238
CNTN2	GTExv8.ALL.Lung	1	rs3789044	-4.39219	rs10900443	3.48	2.71557	594	4.26579	1.99E-05	0.008984741
FAM85B	GTExv8.ALL.Lung	8	rs7823056	4.53	rs2945230	-8.15	3.29431	322	-4.29629	1.74E-05	0.008984741
SLC35G5	GTExv8.ALL.Lung	8	rs2409764	-4.69	rs2572385	5.64	-3.9343	635	-4.27956	1.87E-05	0.008984741
TDH	GTExv8.ALL.Lung	8	rs2409764	-4.69	rs4841525	4.07	-4.13885	634	-4.26699	1.98E-05	0.008984741
TIE1	GTExv8.ALL.Lung	1	rs1199039	-4.40081	rs3768046	-7.46	-4.25698	456	4.25698	2.07E-05	0.008984741
ZNF652	GTExv8.ALL.Pancreas	17	rs16948048	5.48	rs4794029	-4.98	4.31775	351	-4.31775	1.58E-05	0.0089902
ERAP2	GTExv8.ALL.Brain_Cortex	5	rs2549782	-4.44	rs2762	11.35	-4.04793	503	-4.30687	1.66E-05	0.008998709
MED24	GTExv8.ALL.Cells_Cultured_fibroblasts	17	rs11078934	4.44	rs8078723	-7.73	4.35	303	-4.32923	1.50E-05	0.009050294
TSPYL4	GTExv8.ALL.Muscle_Skeletal	6	rs13212974	-3.71	rs7755367	-3.54	0.141	371	-4.23456	2.29E-05	0.009135109
SLC20A2	GTExv8.ALL.Thyroid	8	rs13280604	-4.87	rs1376442	-6.9	-3.0359	240	4.23682	2.27E-05	0.009140533
RHBDL1	GTExv8.ALL.Breast_Mammary_Tissue	16	rs1128550	-4.66	rs34409359	6.36	-3.63039	438	-4.258	2.06E-05	0.009141553
TIE1	GTExv8.ALL.Breast_Mammary_Tissue	1	rs1199039	-4.4	rs4141741	-8.49	-4.26583	454	4.26904	1.96E-05	0.009141553
GRK4	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	4	rs624833	-5.05	rs2471340	-10.8	-4.19356	385	4.19	2.75E-05	0.009170652
TSPAN3	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	15	rs12911362	4.29	rs4078354	-6.52	4.18422	255	-4.18422	2.86E-05	0.009170652
FAM86B3P	GTExv8.ALL.Muscle_Skeletal	8	rs7823056	4.53	rs2980437	5.7	3.60945	324	4.22335	2.41E-05	0.009175
IST1	GTExv8.ALL.Muscle_Skeletal	16	rs8050058	4.34	rs12445641	-8.93	4.10494	393	-4.20605	2.60E-05	0.009175
MARCHF5	GTExv8.ALL.Muscle_Skeletal	10	rs1589067	4.39	rs8181288	-4.12	4.21076	303	-4.2108	2.55E-05	0.009175
MED8-AS1	GTExv8.ALL.Esophagus_Muscularis	1	rs1199039	-4.4	rs839752	-4.94	-4.36473	454	4.36473	1.27E-05	0.0091979
XRCC3	GTExv8.ALL.Esophagus_Muscularis	14	rs2403197	5.43	rs861531	-7.31	-3.12383	344	4.35585	1.33E-05	0.0091979
ERAP2	GTExv8.ALL.Minor_Salivary_Gland	5	rs2549782	-4.44	rs2549794	10.11	-4.1345	504	-4.1597	3.19E-05	0.009203133
MED8-AS1	GTExv8.ALL.Cells_Cultured_fibroblasts	1	rs1199039	-4.40081	rs839993	-4.54	-4.311271	453	4.311271	1.62E-05	0.0092313
IQCH	GTExv8.ALL.Esophagus_Muscularis	15	rs744910	4.78	rs8042007	-5.81	-4.25018	483	4.3379	1.44E-05	0.00929472
CNPY4	GTExv8.ALL.Brain_Putamen_basal_ganglia	7	rs12705071	4.25	rs13223792	4.2	4.24212	275	4.2421	2.21E-05	0.009352318
FAM85B	GTExv8.ALL.Colon_Sigmoid	8	rs7823056	4.53	rs2921077	-5.91	4.01247	321	-4.21602	2.49E-05	0.009353226
RHBDL1	GTExv8.ALL.Colon_Sigmoid	16	rs1128550	-4.66	rs7205409	6.49	-3.31502	439	-4.21981	2.45E-05	0.009353226
TIE1	GTExv8.ALL.Artery_Aorta	1	rs1199039	-4.401	rs3768046	-5.35	-4.25698	459	4.25698	2.07E-05	0.009369474
COA8	GTExv8.ALL.Small_Intestine_Terminal_Ileum	14	rs2403197	5.43	rs861531	3.41	-3.12383	358	-4.49157	7.07E-06	0.00937125
ERAP2	GTExv8.ALL.Small_Intestine_Terminal_Ileum	5	rs2549782	-4.44	rs2549794	10.91	-4.13448	503	-4.39121	1.13E-05	0.00937125
GNGT2	GTExv8.ALL.Small_Intestine_Terminal_Ileum	17	rs16948048	5.48	rs4794029	4.02	4.317752	377	4.31775	1.58E-05	0.00937125
NDUFA6-DT	GTExv8.ALL.Small_Intestine_Terminal_Ileum	22	rs133308	4.71	rs6002616	-4.2	3.81149	341	-4.33674	1.45E-05	0.00937125
PDF	GTExv8.ALL.Small_Intestine_Terminal_Ileum	16	rs9940899	5.18	rs7191614	-4.87	3.4339	296	-4.2381	2.25E-05	0.00937125
SLC22A5	GTExv8.ALL.Small_Intestine_Terminal_Ileum	5	rs803054	5.77	rs2073643	4.6	4.28427	413	4.28427	1.83E-05	0.00937125
TIE1	GTExv8.ALL.Small_Intestine_Terminal_Ileum	1	rs1199039	-4.4	rs3768046	-4.2	-4.25698	462	4.25698	2.07E-05	0.00937125
MARCHF5	GTExv8.ALL.Pancreas	10	rs1589067	4.39	rs2096227	-3.89	4.07223	305	-4.28991	1.79E-05	0.009401631
AP4M1	GTExv8.ALL.Brain_Frontal_Cortex_BA9	7	rs12705071	4.25	rs12705070	5	4.24434	267	4.2075	2.58E-05	0.00944452
SLC45A4	GTExv8.ALL.Brain_Frontal_Cortex_BA9	8	rs1349082	-4.37	rs10092931	-4.02	2.29377	477	-4.1816	2.89E-05	0.00944452
STAG3	GTExv8.ALL.Brain_Frontal_Cortex_BA9	7	rs12705071	4.25	rs858506	5.73	3.86916	266	4.19247	2.76E-05	0.00944452
MED8	GTExv8.ALL.Artery_Aorta	1	rs1199039	-4.401	rs4141741	6.72	-4.26583	455	-4.24144	2.22E-05	0.009546
GRK4	GTExv8.ALL.Small_Intestine_Terminal_Ileum	4	rs624833	-5.05	rs3021140	-7.3	-4.22217	381	4.158	3.21E-05	0.0095795
NIP7	GTExv8.ALL.Small_Intestine_Terminal_Ileum	16	rs9940899	5.18	rs3852689	-3.72	4.6116	298	-4.157	3.22E-05	0.0095795
SNTB2	GTExv8.ALL.Small_Intestine_Terminal_Ileum	16	rs9940899	5.18	rs4544231	-5.7	4.1235	317	-4.1589	3.20E-05	0.0095795
TANGO6	GTExv8.ALL.Small_Intestine_Terminal_Ileum	16	rs9940899	5.18	rs13689	3.65	0.6595	308	4.1616	3.16E-05	0.0095795
MPL	GTExv8.ALL.Testis	1	rs1199039	-4.4	rs4141741	5.61	-4.26583	462	-4.26583	1.99E-05	0.009593331
SEPTIN8	GTExv8.ALL.Colon_Transverse	5	rs803054	5.77	rs4705869	3.4	4.1722	414	4.17222	3.02E-05	0.009637575
STAG3	GTExv8.ALL.Brain_Cerebellum	7	rs12705071	4.25	rs11771139	9.52	4.140391	263	4.310836	1.63E-05	0.009650854
AP4M1	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	7	rs12705071	4.25	rs10281368	6.88	4.2488	268	4.2884	1.80E-05	0.0096624
NDUFA6-DT	GTExv8.ALL.Heart_Left_Ventricle	22	rs133308	4.71	rs1801311	-6	3.790303	347	-4.24442	2.19E-05	0.0096725
PBX3	GTExv8.ALL.Heart_Left_Ventricle	9	rs12341976	-4.62	rs10118570	8.97	-3.70707	383	-4.2598	2.05E-05	0.0096725
IQCH	GTExv8.ALL.Adipose_Subcutaneous	15	rs744910	4.78	rs8031500	-6.83	-4.12786	483	4.20435	2.62E-05	0.0096915
NDUFA6-DT	GTExv8.ALL.Adipose_Subcutaneous	22	rs133308	4.71	rs4467371	8.69	-2.80209	339	-4.1948	2.73E-05	0.0096915
NIP7	GTExv8.ALL.Adipose_Subcutaneous	16	rs9940899	5.18	rs8044794	-5.9	4.16274	298	-4.2039	2.62E-05	0.0096915
PBX3	GTExv8.ALL.Adipose_Subcutaneous	9	rs12341976	-4.62	rs6478712	8.11	-4.48182	382	-4.19879	2.68E-05	0.0096915
PDF	GTExv8.ALL.Uterus	16	rs9940899	5.18	rs1127231	-4.37	3.9763	296	-4.29027	1.78E-05	0.00976508
CNPY4	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	7	rs12705071	4.25	rs12705070	4.17	4.2443	273	4.2638	2.01E-05	0.0098088
ERAP2	GTExv8.ALL.Heart_Left_Ventricle	5	rs2549782	-4.44	rs3909451	15.93	-4.04721	505	-4.22652	2.37E-05	0.009813281
SEPTIN8	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	5	rs803054	5.77	rs194395	9.41	4.73239	405	4.3104	1.63E-05	0.009869171
FAM85B	GTExv8.ALL.Stomach	8	rs7823056	4.53	rs7837587	-4.85	4.4939	322	-4.24997	2.14E-05	0.009883508
GRK4	GTExv8.ALL.Artery_Coronary	4	rs624833	-5.05	rs3021140	-8.44	-4.22217	379	4.22217	2.42E-05	0.0099154
SLC45A4	GTExv8.ALL.Adipose_Subcutaneous	8	rs1349082	-4.37	rs4961258	5.42	-3.81935	473	-4.18115	2.90E-05	0.009962903
LRRN2	GTExv8.ALL.Esophagus_Muscularis	1	rs3789044	-4.39	rs12046747	4.52	-4.38243	601	-4.30359	1.68E-05	0.010023718
TIE1	GTExv8.ALL.Esophagus_Muscularis	1	rs1199039	-4.4	rs1760669	-8.42	-4.27628	458	4.29339	1.76E-05	0.010023718
MED8	GTExv8.ALL.Pituitary	1	rs1199039	-4.4	rs1467809	4.22	-4.32703	457	-4.340284	1.42E-05	0.010055178
TIE1	GTExv8.ALL.Esophagus_Mucosa	1	rs1199039	-4.4	rs839993	-5.45	-4.311271	460	4.31127	1.62E-05	0.010061213
GRK4	GTExv8.ALL.Artery_Aorta	4	rs624833	-5.05	rs3021140	-13.53	-4.222168	383	4.218537	2.46E-05	0.010074286
ERI1	GTExv8.ALL.Artery_Aorta	8	rs1562211	4.79	rs2288671	-5.92	4.20729	695	-4.20729	2.58E-05	0.010085455
TSPAN3	GTExv8.ALL.Adipose_Visceral_Omentum	15	rs12911362	4.29	rs4078354	-3.63	4.18422	255	-4.18422	2.86E-05	0.010175642
FAM167A	GTExv8.ALL.Esophagus_Mucosa	8	rs2409764	-4.69	rs4606022	-6.42	-3.5104	621	4.2949	1.75E-05	0.010229265
PDF	GTExv8.ALL.Spleen	16	rs9940899	5.18	rs35808095	-5.26	4.3558	296	-4.355831	1.33E-05	0.010245433
IQCH	GTExv8.ALL.Nerve_Tibial	15	rs744910	4.78	rs4776917	-7.13	-4.27694	483	4.29049	1.78E-05	0.010318067
ERAP2	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	5	rs2549782	-4.44	rs2762	15.37	-4.04793	503	-4.14557	3.39E-05	0.010417188
GSDMC	GTExv8.ALL.Muscle_Skeletal	8	rs4144737	3.92	rs5006712	10.61	3.8406	451	4.16579	3.10E-05	0.010534259
MED24	GTExv8.ALL.Artery_Aorta	17	rs11078934	4.44	rs11078934	-11.84	4.43784	303	-4.1858	2.84E-05	0.01061913
MTMR9	GTExv8.ALL.Brain_Frontal_Cortex_BA9	8	rs2409764	-4.69	rs2246606	-4.82	-4.1496	646	4.1286	3.65E-05	0.010640224
NIP7	GTExv8.ALL.Brain_Frontal_Cortex_BA9	16	rs9940899	5.18	rs1127231	-4.66	3.97626	298	-4.12583	3.69E-05	0.010640224
ZFYVE21	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	14	rs2403197	5.43	rs11625397	-3.4	-1.25818	345	4.27952	1.87E-05	0.010646533
GRK4	GTExv8.ALL.Brain_Frontal_Cortex_BA9	4	rs624833	-5.05	rs2960306	-5.59	-4.2706	381	4.11199	3.92E-05	0.010675467
TIE1	GTExv8.ALL.Stomach	1	rs1199039	-4.4	rs1199039	-5.51	-4.400812	460	4.21295	2.52E-05	0.0108072
SMAD3	GTExv8.ALL.Heart_Left_Ventricle	15	rs744910	4.78	rs8025774	4.32	-3.97206	559	-4.180744	2.91E-05	0.010820833
TIE1	GTExv8.ALL.Heart_Left_Ventricle	1	rs1199039	-4.4	rs839758	-7.01	-2.63816	459	4.17783	2.94E-05	0.010820833
IST1	GTExv8.ALL.Esophagus_Mucosa	16	rs8050058	4.34	rs17357420	-3.8	3.91891	400	-4.25937	2.05E-05	0.0108261
PDF	GTExv8.ALL.Esophagus_Mucosa	16	rs9940899	5.18	rs1127231	-8.06	3.97626	296	-4.25695	2.07E-05	0.0108261
CKB	GTExv8.ALL.Artery_Aorta	14	rs2403197	5.43	rs3783394	6.32	-2.5711	354	-4.17102	3.03E-05	0.010836
PSMD3	GTExv8.ALL.Nerve_Tibial	17	rs11078934	4.44	rs3935280	-5.34	4.426	301	-4.26789	1.97E-05	0.010900368
FAM167A-AS1	GTExv8.ALL.Testis	8	rs2409764	-4.69	rs2618443	-4.67	3.90989	635	-4.21925	2.45E-05	0.01096725
P4HA2	GTExv8.ALL.Testis	5	rs803054	5.77	rs7705189	10.11	-4.22165	410	-4.22165	2.43E-05	0.01096725
SLC22A5	GTExv8.ALL.Adipose_Visceral_Omentum	5	rs803054	5.77	rs2069614	-4.91	-2.91727	402	4.15677	3.23E-05	0.011032388
DRAM2	GTExv8.ALL.Heart_Left_Ventricle	1	rs629619	4.21	rs3762374	12.4	-3.67202	574	-4.14918	3.34E-05	0.01106375
SLC35G5	GTExv8.ALL.Heart_Left_Ventricle	8	rs2409764	-4.69	rs2246606	4.01	-4.1496	635	-4.1496	3.33E-05	0.01106375
ORMDL3	GTExv8.ALL.Whole_Blood	17	rs11078934	4.44	rs8067378	14.42	3.63662	292	4.207564	2.58E-05	0.01114431
ATP6V1H	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	8	rs41321146	3.78	rs12234972	-2.91	3.7434	386	-4.21022	2.55E-05	0.01114434
PVRIG	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	7	rs12705071	4.25	rs4424195	4.06	4.24649	276	4.24649	2.17E-05	0.01114434
STAG3	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	7	rs12705071	4.25	rs10281368	4.56	4.24876	267	4.17805	2.94E-05	0.01114434
VPS4A	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	16	rs9940899	5.18	rs9302599	4.91	3.90745	304	4.17084	3.03E-05	0.01114434
GRK4	GTExv8.ALL.Whole_Blood	4	rs624833	-5.05	rs2471340	-10.5	-4.19356	383	4.19356	2.75E-05	0.011191432
MED24	GTExv8.ALL.Whole_Blood	17	rs11078934	4.44	rs3213762	-9.23	4.12998	301	-4.184845	2.85E-05	0.011191432
GRM3	GTExv8.ALL.Brain_Cerebellar_Hemisphere	7	rs41440	-4.69	rs1358685	-4.2	-3.954407	327	4.347351	1.38E-05	0.0111987
CYP1B1-AS1	GTExv8.ALL.Testis	2	rs4670233	-5.14	rs162555	-6.42	-4.19529	592	4.19529	2.73E-05	0.011240168
NOP14	GTExv8.ALL.Testis	4	rs624833	-5.05	rs2471340	-6.3	-4.19356	384	4.19356	2.75E-05	0.011240168
OGFRP1	GTExv8.ALL.Testis	22	rs133308	4.71	rs134898	-5.79	4.540005	388	-4.1905	2.78E-05	0.011240168
FOXN3-AS1	GTExv8.ALL.Artery_Aorta	14	rs7422	4.4	rs7422	5.21	4.39899	529	4.14479	3.40E-05	0.011246154
GSDMA	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	17	rs11078934	4.44	rs3859192	-5.19	3.6472	297	-4.25896	2.05E-05	0.011268126
TIE1	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	1	rs1199039	-4.40081	rs839993	-7.02	-4.311271	456	4.2564	2.08E-05	0.011268126
ALG1L13P	GTExv8.ALL.Adipose_Visceral_Omentum	8	rs7823056	4.53	rs2980436	5.37	3.580792	341	4.13376	3.57E-05	0.011290456
SLC35G5	GTExv8.ALL.Adipose_Visceral_Omentum	8	rs2409764	-4.69	rs4841525	5.02	-4.13885	636	-4.13885	3.49E-05	0.011290456
ZFYVE21	GTExv8.ALL.Brain_Caudate_basal_ganglia	14	rs2403197	5.43	rs1465163	3.68	-1.09139	345	-4.27821	1.88E-05	0.011294622
MARCHF5	GTExv8.ALL.Thyroid	10	rs1589067	4.39	rs7088903	-7.46	4.18052	305	-4.18052	2.91E-05	0.011339613
ERAP2	GTExv8.ALL.Adipose_Subcutaneous	5	rs2549782	-4.44	rs2762	21.22	-4.047929	505	-4.14354	3.42E-05	0.011382188
TNKS	GTExv8.ALL.Testis	8	rs483916	4.19	rs4383973	-4.31	3.66374	595	-4.18015	2.91E-05	0.011398106
PHLPP2	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	16	rs8050058	4.34	rs11075904	3.91	-2.2622	438	-4.22562	2.38E-05	0.0116144
CPEB3	GTExv8.ALL.Nerve_Tibial	10	rs1589067	4.39	rs11186856	-10.3	4.18717	303	-4.21531	2.49E-05	0.011657988
DNAH12	GTExv8.ALL.Nerve_Tibial	3	rs17289035	-4.48	rs7618684	-6.22	2.45005	330	-4.21641	2.48E-05	0.011657988
TIE1	GTExv8.ALL.Nerve_Tibial	1	rs1199039	-4.401	rs1760670	-7.93	-4.27205	454	4.229624	2.34E-05	0.011657988
WWC1	GTExv8.ALL.Nerve_Tibial	5	rs1013017	3.77	rs728668	-5.62	-2.77741	565	4.232607	2.31E-05	0.011657988
PSMD3	GTExv8.ALL.Cells_Cultured_fibroblasts	17	rs11078934	4.44	rs3816470	5.84	3.96	302	4.23592	2.28E-05	0.011744265
BMP1	GTExv8.ALL.Artery_Aorta	8	rs7819541	-4.32	rs4072420	-9.37	-4.13883	455	4.12631	3.69E-05	0.011753333
HAS3	GTExv8.ALL.Brain_Cerebellar_Hemisphere	16	rs9940899	5.18	rs8057931	3.71	4.31074	309	4.3107	1.63E-05	0.011757733
IQCH	GTExv8.ALL.Pituitary	15	rs744910	4.78	rs8031500	-5.63	-4.12786	483	4.2393	2.24E-05	0.011765538
LINC01569	GTExv8.ALL.Pituitary	16	rs7190602	3.92	rs4786480	-6.11	3.71347	380	-4.224	2.40E-05	0.011765538
MRPS9	GTExv8.ALL.Pituitary	2	rs12618715	-4.04	rs12617795	-9.01	-4.03253	477	4.282453	1.85E-05	0.011765538
THAP9	GTExv8.ALL.Pituitary	4	rs6842476	-3.87	rs897945	-4.34	-3.8604	469	4.25513	2.09E-05	0.011765538
ERAP2	GTExv8.ALL.Lung	5	rs2549782	-4.44	rs2762	19.61	-4.047929	505	-4.18584	2.84E-05	0.011790939
GAL3ST4	GTExv8.ALL.Esophagus_Muscularis	7	rs12705071	4.25	rs13223792	4.6	4.2421	260	4.24212	2.21E-05	0.011887344
CHRNA4	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	20	rs884851	4.69	rs2093107	4.66	-1.68217	454	-4.1977	2.70E-05	0.011892185
GRK4	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	4	rs624833	-5.05	rs3021140	-5.34	-4.2222	381	4.18291	2.88E-05	0.011892185
SMDT1	GTExv8.ALL.Brain_Frontal_Cortex_BA9	22	rs133308	4.71	rs6002621	-4.65	3.804623	338	-4.07392	4.62E-05	0.0119196
ERI1	GTExv8.ALL.Heart_Left_Ventricle	8	rs1562211	4.79	rs11782826	3.57	-2.65801	693	-4.1207	3.78E-05	0.011925
FAM85B	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	8	rs7823056	4.53	rs2921077	-4.58	4.01247	321	-4.191295	2.77E-05	0.011965613
GRK4	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	4	rs624833	-5.05	rs3021140	-16.54	-4.22217	381	4.21198	2.53E-05	0.011965613
JMJD4	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	1	rs6672559	4.43151	rs10916167	4.72	4.193162	372	4.19316	2.75E-05	0.011965613
MARCHF5	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	10	rs1589067	4.39	rs7088903	-8.06	4.18052	304	-4.189604	2.79E-05	0.011965613
IQCH	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	15	rs744910	4.78	rs3743347	-6.92	-4.27425	483	4.18	2.93E-05	0.011995304
PEX2	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	8	rs10110693	-4.1	rs17348154	3.43	-3.0249	352	-4.171177	3.03E-05	0.011995304
CYP2D7	GTExv8.ALL.Ovary	22	rs133308	4.71	rs133380	-7.6	3.942258	352	-4.0807	4.49E-05	0.012002513
ERAP2	GTExv8.ALL.Ovary	5	rs2549782	-4.44	rs2762	10.33	-4.0479	504	-4.0666	4.77E-05	0.012002513
NDUFA6-DT	GTExv8.ALL.Ovary	22	rs133308	4.71	rs6002623	-5.55	3.804623	340	-4.0933	4.25E-05	0.012002513
AAGAB	GTExv8.ALL.Lung	15	rs744910	4.78	rs8038652	4.59	-4.27435	483	-4.16	3.18E-05	0.012046431
ERAP2	GTExv8.ALL.Brain_Frontal_Cortex_BA9	5	rs2549782	-4.44	rs2762	10.16	-4.04793	504	-4.0479	5.17E-05	0.012068257
PVRIG	GTExv8.ALL.Brain_Frontal_Cortex_BA9	7	rs12705071	4.25	rs4424195	5.63	4.24649	275	4.04787	5.17E-05	0.012068257
ADD1	GTExv8.ALL.Whole_Blood	4	rs624833	-5.05	rs10026792	6.23	-4.8342	381	-4.156386	3.23E-05	0.012132161
ARHGEF3	GTExv8.ALL.Testis	3	rs17289035	-4.48	rs12496746	3.46	-2.64978	396	-4.14	3.41E-05	0.012211697
CDC20-DT	GTExv8.ALL.Testis	1	rs1199039	-4.4	rs839993	4.72	-4.31127	455	-4.14413	3.41E-05	0.012211697
MRPS9	GTExv8.ALL.Testis	2	rs12618715	-4.04	rs12617795	-8.75	-4.03253	476	4.14981	3.33E-05	0.012211697
MED8	GTExv8.ALL.Prostate	1	rs1199039	-4.4	rs1760670	4.38	-4.27205	456	-4.27205	1.94E-05	0.012224425
NDUFA6-DT	GTExv8.ALL.Stomach	22	rs133308	4.71	rs6002621	-7.44	3.804623	345	-4.1465	3.38E-05	0.012325859
PBX3	GTExv8.ALL.Stomach	9	rs12341976	-4.62	rs1411350	4.91	-4.13904	383	-4.139	3.49E-05	0.012325859
TDH	GTExv8.ALL.Stomach	8	rs2409764	-4.69	rs4841525	-7.54	-4.1389	637	4.13885	3.49E-05	0.012325859
LINC02950	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	8	rs7823056	4.53	rs876954	13.56	4.05222	483	4.156254	3.24E-05	0.0123516
IQCH	GTExv8.ALL.Thyroid	15	rs744910	4.78	rs8031500	-10.45	-4.12786	483	4.15	3.39E-05	0.012409455
LIX1	GTExv8.ALL.Thyroid	5	rs2549782	-4.44	rs1056893	-7	-4.38481	433	4.15	3.35E-05	0.012409455
ERAP2	GTExv8.ALL.Muscle_Skeletal	5	rs2549782	-4.44	rs2762	22.76	-4.04793	504	-4.11916	3.80E-05	0.012451786
STAG3	GTExv8.ALL.Brain_Hypothalamus	7	rs12705071	4.25	rs1880949	6.42	4.1995	269	4.1995	2.68E-05	0.01262615
ZCWPW1	GTExv8.ALL.Lung	7	rs12705071	4.25	rs314358	-3.59	-2.78628	311	4.132857	3.58E-05	0.012661267
ERAP2	GTExv8.ALL.Whole_Blood	5	rs2549782	-4.44	rs2762	22.23	-4.04793	505	-4.12815	3.66E-05	0.012716608
KLC1	GTExv8.ALL.Whole_Blood	14	rs2403197	5.43	rs12884809	10.42	4.99636	349	4.12699	3.68E-05	0.012716608
PVRIG	GTExv8.ALL.Colon_Sigmoid	7	rs12705071	4.25	rs11764176	4.86	3.9965	273	4.11242	3.92E-05	0.012716836
STAG3	GTExv8.ALL.Colon_Sigmoid	7	rs12705071	4.25	rs1061230	4.19	3.99577	264	4.11826	3.82E-05	0.012716836
MED8	GTExv8.ALL.Esophagus_Muscularis	1	rs1199039	-4.4	rs1760669	5.75	-4.27628	458	-4.21448	2.50E-05	0.012739474
PBX3	GTExv8.ALL.Prostate	9	rs12341976	-4.62	rs10819087	4.38	-3.89458	383	-4.21519	2.50E-05	0.01275373
PDF	GTExv8.ALL.Prostate	16	rs9940899	5.18	rs9924894	-4.35	3.97922	296	-4.21251	2.53E-05	0.01275373
ZNF652	GTExv8.ALL.Thyroid	17	rs16948048	5.48	rs12940887	-5.07	5.46592	350	-4.13211	3.59E-05	0.012755059
MRPS9	GTExv8.ALL.Ovary	2	rs12618715	-4.04	rs12617795	-7.72	-4.03253	479	4.032531	5.52E-05	0.012771367
PDF	GTExv8.ALL.Ovary	16	rs9940899	5.18	rs1048818	-4.46	4.02449	296	-4.0245	5.71E-05	0.012771367
CYP2D8P	GTExv8.ALL.Whole_Blood	22	rs133308	4.71	rs742086	7.52	-2.792587	357	-4.11634	3.85E-05	0.012792365
DESI1	GTExv8.ALL.Adipose_Visceral_Omentum	22	rs133308	4.71	rs133341	-4.98	4.6513	306	-4.08778	4.36E-05	0.012837945
NFATC2IP	GTExv8.ALL.Heart_Atrial_Appendage	16	rs12926138	-3.75	rs2081199	-5.36	-2.9155	184	4.22468	2.39E-05	0.012883807
VPS4A	GTExv8.ALL.Heart_Left_Ventricle	16	rs9940899	5.18	rs8053471	4.28	4.08053	303	4.08053	4.49E-05	0.012933152
LAMTOR4	GTExv8.ALL.Stomach	7	rs12705071	4.25	rs7785392	3.84	-3.281302	261	-4.10609	4.02E-05	0.012956
MED8	GTExv8.ALL.Lung	1	rs1199039	-4.40081	rs839993	4.56	-4.31127	452	-4.11929	3.80E-05	0.012959357
MRPS9	GTExv8.ALL.Small_Intestine_Terminal_Ileum	2	rs12618715	-4.04	rs6735232	-7.17	-3.97569	478	4.05558	5.00E-05	0.013015625
GRK4	GTExv8.ALL.Breast_Mammary_Tissue	4	rs624833	-5.05	rs2471340	-13.02	-4.19356	385	4.15283	3.28E-05	0.013023326
TDH	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	8	rs2409764	-4.69	rs7011778	-4.33	3.1429	634	-4.0836	4.43E-05	0.0130685
PRDM6	GTExv8.ALL.Adipose_Visceral_Omentum	5	rs4836001	3.72	rs10079941	-4.27	-1.58836	420	4.0731	4.64E-05	0.013206987
LEPR	GTExv8.ALL.Artery_Coronary	1	rs2025803	-3.79	rs9436748	-3.4	-2.9345	456	4.137	3.52E-05	0.013220533
MED8-AS1	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	1	rs1199039	-4.4	rs839755	-6.13	-4.374454	452	4.3263	1.52E-05	0.013225169
RHBDL1	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	16	rs1128550	-4.66	rs34409359	7.4	-3.67941	431	-4.34101	1.42E-05	0.013225169
ADAMTSL3	GTExv8.ALL.Brain_Putamen_basal_ganglia	15	rs2585064	-4.78	rs2562762	-3.92	-4.12549	334	4.1255	3.70E-05	0.013248846
HMG20A	GTExv8.ALL.Brain_Putamen_basal_ganglia	15	rs8035384	5.09	rs17382798	3.5	-2.67552	326	-4.1428	3.43E-05	0.013248846
GRK4	GTExv8.ALL.Brain_Cerebellum	4	rs624833	-5.05	rs3021140	-10.01	-4.22217	382	4.222168	2.42E-05	0.013304814
MED24	GTExv8.ALL.Liver	17	rs11078934	4.44	rs1042658	-4.34	4.3074	303	-4.307396	1.65E-05	0.0133386
SNTB2	GTExv8.ALL.Thyroid	16	rs9940899	5.18	rs8049057	-12.3	3.52791	317	-4.11512	3.87E-05	0.013357029
AP4M1	GTExv8.ALL.Brain_Cortex	7	rs12705071	4.25	rs4134903	3.72	4.19807	269	4.19807	2.69E-05	0.013367058
IQCH	GTExv8.ALL.Heart_Atrial_Appendage	15	rs744910	4.78	rs16950804	-5.15	-4.274352	483	4.20047	2.66E-05	0.013383347
LRFN5	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	14	rs10138982	3.89	rs1684716	-3.67	-1.53501	351	4.069047	4.72E-05	0.013388462
XRCC3	GTExv8.ALL.Small_Intestine_Terminal_Ileum	14	rs2403197	5.43	rs4906356	4.56	4.79568	344	4.03424	5.48E-05	0.013426
EPHX2	GTExv8.ALL.Artery_Coronary	8	rs11778040	-5.35	rs7003694	5.61	-3.8605	635	-4.11476	3.88E-05	0.013451662
XKR6	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	8	rs2409764	-4.69	rs13276836	4.25	-4.0766	632	-4.0588	4.93E-05	0.013466204
TAF6	GTExv8.ALL.Ovary	7	rs12705071	4.25	rs11764176	-4.27	3.9965	265	-3.9965	6.43E-05	0.013624832
MED24	GTExv8.ALL.Breast_Mammary_Tissue	17	rs11078934	4.44	rs3213762	-9.79	4.12998	303	-4.12998	3.63E-05	0.01369236
FAM86B3P	GTExv8.ALL.Colon_Transverse	8	rs7823056	4.53	rs2980436	9.92	3.58079	324	4.0807	4.49E-05	0.013755564
XRCC3	GTExv8.ALL.Thyroid	14	rs2403197	5.43	rs4906356	7.61	4.79568	344	4.10171	4.10E-05	0.013757778
MARCHF5	GTExv8.ALL.Heart_Atrial_Appendage	10	rs1589067	4.39	rs7090404	-4.24	4.16049	304	-4.16049	3.18E-05	0.013783205
MRPS9	GTExv8.ALL.Heart_Atrial_Appendage	2	rs12618715	-4.04	rs12617795	-7.45	-4.03253	475	4.140108	3.47E-05	0.013783205
PBX3	GTExv8.ALL.Heart_Atrial_Appendage	9	rs12341976	-4.62	rs7849076	9.44	-4.14592	378	-4.14592	3.38E-05	0.013783205
XKR6	GTExv8.ALL.Heart_Atrial_Appendage	8	rs2409764	-4.69	rs17779791	-3.68	-2.62256	633	4.168557	3.07E-05	0.013783205
IQCH	GTExv8.ALL.Vagina	15	rs744910	4.78	rs8031500	-4.88	-4.12786	480	4.1279	3.66E-05	0.013787743
ERAP2	GTExv8.ALL.Brain_Cerebellum	5	rs2549782	-4.44	rs2762	11.37	-4.04793	503	-4.18384	2.87E-05	0.013806494
XRCC3	GTExv8.ALL.Brain_Cerebellum	14	rs2403197	5.43	rs2273175	5.49	4.84106	344	4.18958	2.79E-05	0.013806494
CYP2D8P	GTExv8.ALL.Testis	22	rs133308	4.71	rs6002616	-4.5	3.811487	363	-4.10429	4.06E-05	0.013853368
DEFB134	GTExv8.ALL.Testis	8	rs10903340	4.18	rs2264306	-3.81	-2.39202	321	4.09613	4.20E-05	0.013853368
LNPEP	GTExv8.ALL.Testis	5	rs2549782	-4.44	rs1363907	9.47	-4.102806	501	-4.09999	4.13E-05	0.013853368
GGACT	GTExv8.ALL.Testis	13	rs9518148	-3.45	rs11842969	6.32	-2.656189	508	-4.089733	4.32E-05	0.013883815
ERI1	GTExv8.ALL.Esophagus_Muscularis	8	rs1562211	4.79	rs1562211	-5.15	4.78824	695	-4.17192	3.02E-05	0.013923638
KIF3A	GTExv8.ALL.Prostate	5	rs803054	5.77	rs12186803	-4.72	3.18082	415	-4.17042	3.04E-05	0.013931491
ERAP2	GTExv8.ALL.Heart_Atrial_Appendage	5	rs2549782	-4.44	rs2762	15.74	-4.04793	505	-4.11418	3.89E-05	0.013979919
SNTB2	GTExv8.ALL.Heart_Atrial_Appendage	16	rs9940899	5.18	rs33964663	-7.13	4.11237	318	-4.12023	3.78E-05	0.013979919
P4HA2	GTExv8.ALL.Ovary	5	rs803054	5.77	rs11955347	5.08	-3.7724	396	-3.9781	6.95E-05	0.01399035
MED8-AS1	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	1	rs1199039	-4.40081	rs839755	-6.13	-4.374454	450	4.11844	3.81E-05	0.014005832
CYP2D8P	GTExv8.ALL.Pancreas	22	rs133308	4.71	rs5751229	5.89	-2.70406	361	-4.14387	3.41E-05	0.014017482
FAM167A-AS1	GTExv8.ALL.Pancreas	8	rs2409764	-4.69	rs4841525	-10.07	-4.13885	635	4.13885	3.49E-05	0.014017482
GULOP	GTExv8.ALL.Pancreas	8	rs11778040	-5.35	rs7012010	-4.79	-4.07903	615	4.15218	3.29E-05	0.014017482
SLC35G5	GTExv8.ALL.Pancreas	8	rs2409764	-4.69	rs10903340	-4.25	4.18312	639	-4.16411	3.13E-05	0.014017482
ADAMTSL3	GTExv8.ALL.Esophagus_Muscularis	15	rs2585064	-4.78	rs6603004	-7.32	4.2561	334	-4.1556	3.25E-05	0.014079242
BMP1	GTExv8.ALL.Esophagus_Muscularis	8	rs7819541	-4.32	rs4072420	-7.5	-4.13883	454	4.13883	3.49E-05	0.014079242
RHBDL1	GTExv8.ALL.Esophagus_Muscularis	16	rs1128550	-4.66	rs34409359	7.25	-3.62903	433	-4.14534	3.39E-05	0.014079242
CNTN2	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	1	rs3789044	-4.39	rs10793725	9.24	3.319884	587	4.26518	2.00E-05	0.01413875
IDH3A	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	15	rs16969968	18.19	rs12910386	-3.75	-3.76615	410	-4.28	1.84E-05	0.01413875
TIE1	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	1	rs1199039	-4.4	rs3768046	-8.91	-4.256977	456	4.26853	1.97E-05	0.01413875
KCTD3	GTExv8.ALL.Brain_Substantia_nigra	1	rs17024959	-3.51	rs7529912	3.43	3.0843	452	4.24	2.25E-05	0.01420875
ARMS2	GTExv8.ALL.Testis	10	rs2284665	3.729	rs10490924	-11.95	3.63007	614	-4.07658	4.57E-05	0.01421539
ERICD	GTExv8.ALL.Testis	8	rs10109684	-4.7	rs7016497	6.54	-4.49315	368	-4.07254	4.65E-05	0.01421539
LNPEP	GTExv8.ALL.Esophagus_Muscularis	5	rs2549782	-4.44	rs2762	10.27	-4.047929	502	-4.11786	3.82E-05	0.014225092
MFHAS1	GTExv8.ALL.Esophagus_Muscularis	8	rs1562211	4.79	rs6993494	3.53	-2.898	699	-4.11996	3.79E-05	0.014225092
GRK4	GTExv8.ALL.Brain_Cerebellar_Hemisphere	4	rs624833	-5.05	rs3021140	-8.78	-4.22217	384	4.22217	2.42E-05	0.0142824
STAG3	GTExv8.ALL.Adrenal_Gland	7	rs12705071	4.25	rs11771139	4.03	4.14039	264	4.1506	3.32E-05	0.014321969
VPS4A	GTExv8.ALL.Adrenal_Gland	16	rs9940899	5.18	rs8044794	5.31	4.16274	305	4.16274	3.14E-05	0.014321969
KCNK3	GTExv8.ALL.Heart_Atrial_Appendage	2	rs1662992	-4.36	rs1275985	-4.73	1.30366	366	-4.096705	4.19E-05	0.014373605
GRK4	GTExv8.ALL.Colon_Transverse	4	rs624833	-5.05	rs2471340	-12.75	-4.19356	384	4.06085	4.89E-05	0.014404812
POLDIP3	GTExv8.ALL.Thyroid	22	rs12484402	4.6	rs134887	4.12	4.076313	425	4.076313	4.58E-05	0.0144356
SMAD3	GTExv8.ALL.Thyroid	15	rs744910	4.78	rs17293632	-10.62	3.65631	559	-4.08	4.53E-05	0.0144356
TAF6	GTExv8.ALL.Thyroid	7	rs12705071	4.25	rs4729577	9.19	-2.89988	242	-4.06942	4.71E-05	0.0144356
TDH	GTExv8.ALL.Thyroid	8	rs2409764	-4.69	rs1435277	9.71	-3.9246	632	-4.06627	4.78E-05	0.0144356
PKM	GTExv8.ALL.Artery_Aorta	15	rs28368570	3.96	rs11632611	4.13	-3.14275	258	-4.06182	4.87E-05	0.014442069
FAM85B	GTExv8.ALL.Brain_Frontal_Cortex_BA9	8	rs7823056	4.53	rs2980436	-8.08	3.58079	323	-3.9843	6.77E-05	0.014450243
PHACTR4	GTExv8.ALL.Brain_Frontal_Cortex_BA9	1	rs2236861	3.50702	rs10751728	-6.75	3.3563	280	-3.98376	6.78E-05	0.014450243
IST1	GTExv8.ALL.Adipose_Visceral_Omentum	16	rs8050058	4.34	rs11639902	-3.89	3.21434	392	-4.04354	5.26E-05	0.014488755
SKIC8	GTExv8.ALL.Artery_Tibial	15	rs16969968	18.19	rs967821	5.35	-4.00441	394	-4.05355	5.04E-05	0.0145908
ERAP2	GTExv8.ALL.Cells_Cultured_fibroblasts	5	rs2549782	-4.44	rs3909451	19.08	-4.047209	503	-4.17314	3.00E-05	0.014652857
TERF2	GTExv8.ALL.Cells_Cultured_fibroblasts	16	rs9940899	5.18	rs33964663	-4.92	4.11237	302	-4.16232	3.15E-05	0.014686159
MRPS9	GTExv8.ALL.Adipose_Visceral_Omentum	2	rs12618715	-4.04	rs12617795	-11.13	-4.03253	476	4.03253	5.52E-05	0.014729775
AAGAB	GTExv8.ALL.Spleen	15	rs744910	4.78	rs4776917	4.78	-4.27694	483	-4.24833	2.15E-05	0.014748382
PPP1R13B-DT	GTExv8.ALL.Spleen	14	rs2403197	5.43	rs1955660	-4.56	4.22936	326	-4.2294	2.34E-05	0.014748382
FAM86B3P	GTExv8.ALL.Adipose_Visceral_Omentum	8	rs7823056	4.53	rs2980436	12.04	3.580792	325	4.01139	6.04E-05	0.014760271
ORMDL3	GTExv8.ALL.Adipose_Visceral_Omentum	17	rs11078934	4.44	rs4795400	4.27	-4.0108	293	-4.0108	6.05E-05	0.014760271
C1orf127	GTExv8.ALL.Heart_Left_Ventricle	1	rs6540959	-3.99	rs6659231	4.12	-3.86314	386	-4.03283	5.51E-05	0.0147605
IDH3A	GTExv8.ALL.Heart_Left_Ventricle	15	rs16969968	18.19	rs2304825	10	-4.24973	411	-4.030383	5.57E-05	0.0147605
GSDMA	GTExv8.ALL.Prostate	17	rs11078934	4.44	rs3859192	-5.58	3.6472	297	-4.13684	3.52E-05	0.014786933
MRPS9	GTExv8.ALL.Brain_Putamen_basal_ganglia	2	rs12618715	-4.04	rs12611937	-5.17	-3.8018	479	4.08283	4.45E-05	0.01479625
PBX3	GTExv8.ALL.Adipose_Visceral_Omentum	9	rs12341976	-4.62	rs10118570	5.86	-3.70707	383	-4.00359	6.24E-05	0.014800933
AAGAB	GTExv8.ALL.Whole_Blood	15	rs744910	4.78	rs17293632	-4.2	3.65631	483	-4.05691	4.97E-05	0.014805459
ADAM19	GTExv8.ALL.Whole_Blood	5	rs4579242	5.07	rs10476050	7.66	1.76192	527	4.05827	4.94E-05	0.014805459
COG8	GTExv8.ALL.Whole_Blood	16	rs9940899	5.18	rs7192863	6.25	4.10121	298	4.068176	4.74E-05	0.014805459
MRPS9	GTExv8.ALL.Artery_Tibial	2	rs12618715	-4.04	rs12618715	-9.3	-4.042234	475	4.04223	5.29E-05	0.014900643
GRK4	GTExv8.ALL.Nerve_Tibial	4	rs624833	-5.05	rs2471340	-16.22	-4.19356	382	4.1427	3.43E-05	0.014911925
LNPEP	GTExv8.ALL.Nerve_Tibial	5	rs2549782	-4.44	rs2549794	6.14	-4.13448	499	-4.134482	3.56E-05	0.014943407
PPP1R3C	GTExv8.ALL.Adipose_Visceral_Omentum	10	rs4933206	-4.95	rs2000177	6.75	3.98158	349	3.99474	6.48E-05	0.014954789
LNPEP	GTExv8.ALL.Artery_Aorta	5	rs2549782	-4.44	rs27306	4.99	-4.03336	501	-4.03336	5.50E-05	0.015115152
PDF	GTExv8.ALL.Artery_Aorta	16	rs9940899	5.18	rs1048818	-9.25	4.02449	296	-4.02449	5.71E-05	0.015115152
RHBDL1	GTExv8.ALL.Artery_Aorta	16	rs1128550	-4.66	rs12599342	-7.94	3.31951	441	-4.04127	5.32E-05	0.015115152
GRK4	GTExv8.ALL.Adipose_Visceral_Omentum	4	rs624833	-5.05	rs2471340	-15.85	-4.19356	384	3.979284	6.91E-05	0.015129356
LINC02950	GTExv8.ALL.Stomach	8	rs7823056	4.53	rs876954	5.55	4.0522	484	4.05222	5.07E-05	0.01522014
ERAP2	GTExv8.ALL.Testis	5	rs2549782	-4.44	rs2762	14.52	-4.047929	503	-4.032784	5.51E-05	0.015227477
MRPS9-AS1	GTExv8.ALL.Testis	2	rs12618715	-4.04	rs12617795	-6.65	-4.03253	494	4.03253	5.52E-05	0.015227477
PPP1R13B-DT	GTExv8.ALL.Testis	14	rs2403197	5.43	rs4900594	-5.56	4.69291	326	-4.02879	5.61E-05	0.015227477
XRCC3	GTExv8.ALL.Testis	14	rs2403197	5.43	rs7154572	-5.84	-1.92576	344	4.02456	5.71E-05	0.015227477
MRPS9	GTExv8.ALL.Cells_Cultured_fibroblasts	2	rs12618715	-4.04	rs17635199	-8.42	-3.97555	477	4.12489	3.71E-05	0.015262416
NFATC2IP	GTExv8.ALL.Cells_Cultured_fibroblasts	16	rs12926138	-3.75	rs3859172	3.68	2.81187	183	4.12798	3.66E-05	0.015262416
TUFM	GTExv8.ALL.Cells_Cultured_fibroblasts	16	rs12926138	-3.75	rs12922496	-3.4	-2.44379	181	4.12436	3.72E-05	0.015262416
ERAP2	GTExv8.ALL.Colon_Transverse	5	rs2549782	-4.44	rs3909451	15.87	-4.0472	505	-4.029874	5.58E-05	0.015263293
VPS4A	GTExv8.ALL.Brain_Cortex	16	rs9940899	5.18	rs3817030	5.94	4.12951	305	4.14963	3.33E-05	0.015274454
LINC02550	GTExv8.ALL.Spleen	11	rs321358	3.88	rs6589210	7.42	3.5173	469	4.2015	2.65E-05	0.015310375
SNTB2	GTExv8.ALL.Adipose_Visceral_Omentum	16	rs9940899	5.18	rs35076456	-6.71	3.96882	317	-3.96882	7.22E-05	0.015412895
MED8	GTExv8.ALL.Heart_Left_Ventricle	1	rs1199039	-4.4	rs839755	-4.52	-4.37445	455	4.01036	6.06E-05	0.015441346
GSDMB	GTExv8.ALL.Whole_Blood	17	rs11078934	4.44	rs8067378	16.74	3.63662	290	4.038695	5.37E-05	0.01546381
CHTF8	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	16	rs9940899	5.18	rs1127231	-5.45	3.97626	320	-4.20856	2.57E-05	0.015475505
IQCH	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	15	rs744910	4.78	rs8031500	-8.3	-4.12786	483	4.17	2.98E-05	0.015475505
MARCHF5	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	10	rs1589067	4.39	rs7088903	-7.36	4.18052	303	-4.18052	2.91E-05	0.015475505
MED24	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	17	rs11078934	4.44	rs1042658	-10.44	4.3074	301	-4.21582	2.49E-05	0.015475505
PBX3	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	9	rs12341976	-4.62	rs10118570	5.44	-3.70707	381	-4.19512	2.73E-05	0.015475505
EPHX2	GTExv8.ALL.Artery_Tibial	8	rs11778040	-5.35	rs7003694	13.63	-3.86046	632	-4.02668	5.66E-05	0.015523295
GSDMC	GTExv8.ALL.Esophagus_Mucosa	8	rs4144737	3.92	rs5006712	16.57	3.8406	457	4.16248	3.15E-05	0.015650775
FAM85B	GTExv8.ALL.Cells_Cultured_fibroblasts	8	rs7823056	4.53	rs2921077	-5.72	4.01247	323	-4.10092	4.12E-05	0.015651422
GRK4	GTExv8.ALL.Ovary	4	rs624833	-5.05	rs3021140	-7.24	-4.2222	385	3.9183	8.92E-05	0.01573495
PPP1R3C	GTExv8.ALL.Ovary	10	rs4933206	-4.95	rs7092884	-3.97	-2.9072	349	3.9062	9.38E-05	0.01573495
MRPS9	GTExv8.ALL.Colon_Transverse	2	rs12618715	-4.042	rs12617795	-10.2	-4.032531	478	4.01452	5.96E-05	0.015740566
LNPEP	GTExv8.ALL.Artery_Tibial	5	rs2549782	-4.44	rs27300	9.28	-3.90509	501	-4.016805	5.90E-05	0.015766615
MRPS9	GTExv8.ALL.Stomach	2	rs12618715	-4.04	rs12617795	-8.17	-4.03253	478	4.03253	5.52E-05	0.015781943
ERAP2	GTExv8.ALL.Adrenal_Gland	5	rs2549782	-4.44	rs2762	12.54	-4.04793	504	-4.111	3.94E-05	0.015782514
C17orf67	GTExv8.ALL.Colon_Sigmoid	17	rs2235092	4.1	rs3760158	-4.68	4.0264	454	-4.0264	5.66E-05	0.0158112
LNPEP	GTExv8.ALL.Colon_Sigmoid	5	rs2549782	-4.44	rs10044354	7.05	-3.97817	502	-4.04631	5.20E-05	0.0158112
PDF	GTExv8.ALL.Colon_Sigmoid	16	rs9940899	5.18	rs9302598	-4.55	4.02993	296	-4.02993	5.58E-05	0.0158112
SLC45A4	GTExv8.ALL.Colon_Sigmoid	8	rs1349082	-4.37	rs3739240	7.34	-4.07226	474	-4.02228	5.76E-05	0.0158112
ADAMTSL3	GTExv8.ALL.Brain_Cerebellar_Hemisphere	15	rs2585064	-4.78	rs2562762	-6.84	-4.12549	334	4.16101	3.17E-05	0.015830492
NEIL2	GTExv8.ALL.Brain_Frontal_Cortex_BA9	8	rs2409764	-4.69	rs1466785	3.87	2.55441	475	3.9511	7.78E-05	0.01589065
ALG1L13P	GTExv8.ALL.Esophagus_Muscularis	8	rs7823056	4.53	rs2948300	3.89	3.56925	341	4.05127	5.09E-05	0.015897219
IST1	GTExv8.ALL.Esophagus_Muscularis	16	rs8050058	4.34	rs7202840	-5.54	3.89726	400	-4.05174	5.08E-05	0.015897219
KLC1	GTExv8.ALL.Esophagus_Muscularis	14	rs2403197	5.43	rs861537	-4.34	-2.08925	351	4.07867	4.53E-05	0.015897219
MARCHF5	GTExv8.ALL.Esophagus_Muscularis	10	rs1589067	4.39	rs4933717	-4.54	4.07243	305	-4.07243	4.65E-05	0.015897219
IST1	GTExv8.ALL.Heart_Left_Ventricle	16	rs8050058	4.34	rs8052358	-6.88	3.99312	400	-3.99312	6.52E-05	0.015998148
ALG1L13P	GTExv8.ALL.Lung	8	rs7823056	4.53	rs2921080	-3.85	-3.13752	342	4.0621	4.86E-05	0.016002807
VPS4A	GTExv8.ALL.Brain_Hypothalamus	16	rs9940899	5.18	rs3817030	4.66	4.1295	304	4.1177	3.83E-05	0.016039189
KRT18P34	GTExv8.ALL.Small_Intestine_Terminal_Ileum	3	rs4680340	4	rs8925	-5.52	3.9532	419	-3.95323	7.71E-05	0.016056075
ZPBP2	GTExv8.ALL.Small_Intestine_Terminal_Ileum	17	rs11078934	4.44	rs3816470	-3.32	3.964647	290	-3.96204	7.43E-05	0.016056075
SNTB2	GTExv8.ALL.Pancreas	16	rs9940899	5.18	rs9924894	-4.04	3.97922	317	-4.093578	4.25E-05	0.016121667
ERAP2	GTExv8.ALL.Brain_Putamen_basal_ganglia	5	rs2549782	-4.44	rs2762	9.82	-4.0479	504	-4.0456	5.22E-05	0.0161994
TET2	GTExv8.ALL.Artery_Tibial	4	rs3960769	-5.17	rs7655049	-5.62	2.62411	377	-4.00371	6.24E-05	0.01625832
CEPT1	GTExv8.ALL.Ovary	1	rs629619	4.209	rs630505	5.2	3.8841	573	3.8841	0.000103	0.016381655
KIF21A	GTExv8.ALL.Ovary	12	rs12230604	-3.97	rs7974928	4.55	-3.8759	331	-3.87587	0.000106	0.016381655
METTL26	GTExv8.ALL.Ovary	16	rs1128550	-4.66	rs7205409	5.29	-3.31502	460	-3.8501	0.000118	0.016381655
SMDT1	GTExv8.ALL.Ovary	22	rs133308	4.71	rs6002616	-10.46	3.811487	333	-3.8612	0.000113	0.016381655
TSPAN3	GTExv8.ALL.Ovary	15	rs12911362	4.29	rs11630497	-4.24	3.34968	255	-3.85824	0.000114	0.016381655
MSRB1	GTExv8.ALL.Colon_Transverse	16	rs740466	-4	rs740466	5.5	-3.99677	451	-4	6.42E-05	0.01639026
GFPT1	GTExv8.ALL.Artery_Tibial	2	rs2312209	3.41	rs4416261	-8.05	3.113271	385	-3.99419	6.49E-05	0.016476686
SMDT1	GTExv8.ALL.Artery_Tibial	22	rs133308	4.71	rs4147638	-18.98	3.811744	330	-3.989	6.64E-05	0.016476686
SLC22A5	GTExv8.ALL.Nerve_Tibial	5	rs803054	5.77	rs2631360	-6.57	-4.98366	405	4.09765	4.17E-05	0.016492452
CYFIP2	GTExv8.ALL.Heart_Left_Ventricle	5	rs4579242	5.07	rs3815829	-5.64	3.54024	471	-3.96069	7.47E-05	0.01649625
PPP1R3G	GTExv8.ALL.Heart_Left_Ventricle	6	rs11242992	4.18	rs467373	-8.88	3.99	629	-3.9663	7.30E-05	0.01649625
KRT18P34	GTExv8.ALL.Brain_Frontal_Cortex_BA9	3	rs4680340	4	rs7647643	-6.77	3.45501	421	-3.923	8.75E-05	0.016497115
TDH-AS1	GTExv8.ALL.Brain_Frontal_Cortex_BA9	8	rs2409764	-4.69	rs1435277	-7.28	-3.92463	637	3.9246	8.69E-05	0.016497115
GRB7	GTExv8.ALL.Thyroid	17	rs11078934	4.44	rs9303281	4.08	3.48159	305	4.02908	5.60E-05	0.016499512
ERAP2	GTExv8.ALL.Prostate	5	rs2549782	-4.44	rs2762	12.75	-4.04793	502	-4.03585	5.44E-05	0.016523278
GOLGA6L5P	GTExv8.ALL.Prostate	15	rs11635160	3.39	rs12901468	7.43	3.30697	315	4.0167	5.90E-05	0.016523278
GRK4	GTExv8.ALL.Prostate	4	rs624833	-5.05	rs3021140	-8.95	-4.22217	381	4.05957	4.92E-05	0.016523278
TIE1	GTExv8.ALL.Prostate	1	rs1199039	-4.4	rs839760	-4.43	-3.48464	460	4.08091	4.49E-05	0.016523278
XKR6	GTExv8.ALL.Prostate	8	rs2409764	-4.69	rs10088853	3.73	-3.83072	638	-4.02803	5.62E-05	0.016523278
ERAP2	GTExv8.ALL.Pancreas	5	rs2549782	-4.44	rs2762	14.26	-4.0479	505	-4.06308	4.84E-05	0.01652376
TDH-AS1	GTExv8.ALL.Pancreas	8	rs2409764	-4.69	rs4841525	-11.21	-4.13885	638	4.07391	4.62E-05	0.01652376
FCRLA	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	1	rs1340978	4.10635	rs1538971	-5.76	4.059535	490	-4.05954	4.92E-05	0.016535206
TIE1	GTExv8.ALL.Brain_Hippocampus	1	rs1199039	-4.4	rs4141741	-4.4	-4.26583	461	4.26583	1.99E-05	0.0166192
XRCC3	GTExv8.ALL.Brain_Hippocampus	14	rs2403197	5.43	rs4906356	3.98	4.79568	344	4.2425	2.21E-05	0.0166192
SLC45A4	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	8	rs1349082	-4.37	rs4961258	5.29	-3.8193	473	-4.0007	6.31E-05	0.016620089
ADAMTSL3	GTExv8.ALL.Brain_Cerebellum	15	rs2585064	-4.78	rs2562762	-7.28	-4.12549	334	4.12549	3.70E-05	0.016653509
P4HA2	GTExv8.ALL.Brain_Cerebellum	5	rs803057	5.89	rs7720230	6.02	-4.07574	411	-4.07574	4.59E-05	0.016653509
PGAP3	GTExv8.ALL.Brain_Cerebellum	17	rs11078934	4.44	rs2952151	4.28	4.036357	318	4.085411	4.40E-05	0.016653509
PVRIG	GTExv8.ALL.Brain_Cerebellum	7	rs12705071	4.25	rs1637001	8.53	3.996226	272	4.080295	4.50E-05	0.016653509
RPL10P19	GTExv8.ALL.Brain_Cerebellum	8	rs1562211	4.79	rs13259143	4.76	3.52283	716	4.066878	4.76E-05	0.016653509
SMDT1	GTExv8.ALL.Brain_Cerebellum	22	rs133308	4.71	rs4147638	-11.22	3.81174	339	-4.110791	3.94E-05	0.016653509
PDLIM4	GTExv8.ALL.Heart_Left_Ventricle	5	rs803054	5.77	rs7705189	-8.76	-4.22165	402	3.95039	7.80E-05	0.016669355
IQCH	GTExv8.ALL.Uterus	15	rs744910	4.78	rs8031500	-4.22	-4.12786	482	4.12786	3.66E-05	0.0167323
MRPS9	GTExv8.ALL.Artery_Aorta	2	rs12618715	-4.04	rs17635199	-8.96	-3.97555	478	3.97555	7.02E-05	0.01677
PPP1R3C	GTExv8.ALL.Artery_Aorta	10	rs4933206	-4.95	rs4933687	8.7	3.9891	349	3.9864	6.71E-05	0.01677
TERF2	GTExv8.ALL.Artery_Aorta	16	rs9940899	5.18	rs9924894	-4.49	3.97922	302	-3.97922	6.91E-05	0.01677
PVRIG	GTExv8.ALL.Testis	7	rs12705071	4.25	rs1637001	4.63	3.996226	275	3.99623	6.44E-05	0.01681645
ERAP2	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	5	rs2549782	-4.44	rs2762	18.77	-4.04793	505	-4.03836	5.38E-05	0.016874282
PDF	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	16	rs9940899	5.18	rs877534	-8.65	4.03723	294	-4.03723	5.41E-05	0.016874282
GULOP	GTExv8.ALL.Adrenal_Gland	8	rs11778040	-5.35	rs7012010	-4.28	-4.07903	618	4.07903	4.52E-05	0.016898773
ERAP2	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	5	rs2549782	-4.44	rs2762	21.23	-4.04793	502	-4.091568	4.28E-05	0.016928797
GRK4	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	4	rs624833	-5.05	rs2471340	-17.42	-4.1936	383	4.08072	4.49E-05	0.016928797
HDC	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	15	rs12440932	-3.44	rs4775860	-3.81	-0.99772	427	4.09	4.40E-05	0.016928797
LINC02950	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	8	rs7823056	4.53	rs876954	14.73	4.05222	482	4.13342	3.57E-05	0.016928797
NIP7	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	16	rs9940899	5.18	rs1127231	-5.59	3.97626	298	-4.11109	3.94E-05	0.016928797
MRPS9	GTExv8.ALL.Colon_Sigmoid	2	rs12618715	-4.04	rs12617795	-9.33	-4.03253	476	3.99711	6.41E-05	0.016943767
METTL26	GTExv8.ALL.Prostate	16	rs1128550	-4.66	rs4984677	4.63	-2.89004	455	-3.99629	6.43E-05	0.017059805
GNGT2	GTExv8.ALL.Lung	17	rs16948048	5.48	rs4794029	5.66	4.317752	375	4.038744	5.37E-05	0.01709271
CASTOR3P	GTExv8.ALL.Brain_Substantia_nigra	7	rs12705071	4.25	rs858506	4.53	3.8692	280	4.1032	4.07E-05	0.0171347
CLEC4GP1	GTExv8.ALL.Brain_Substantia_nigra	19	rs8112157	3.67	rs8112157	5.86	3.670994	429	4.133335	3.58E-05	0.0171347
AP4M1	GTExv8.ALL.Brain_Caudate_basal_ganglia	7	rs12705071	4.25	rs13223792	4.96	4.24212	270	4.146567	3.37E-05	0.017152206
ERAP2	GTExv8.ALL.Brain_Caudate_basal_ganglia	5	rs2549782	-4.44	rs2762	11.57	-4.0479	504	-4.0503	5.12E-05	0.017152206
FLNB	GTExv8.ALL.Brain_Caudate_basal_ganglia	3	rs13066766	-3.86	rs9815266	4.5	-2.56483	400	-4.07977	4.51E-05	0.017152206
LINC03022	GTExv8.ALL.Brain_Caudate_basal_ganglia	8	rs7837979	4.32	rs7005363	5.73	4.2151	714	4.08898	4.33E-05	0.017152206
MRPS9	GTExv8.ALL.Brain_Caudate_basal_ganglia	2	rs12618715	-4.04	rs12617795	-5.29	-4.0325	478	4.032531	5.52E-05	0.017152206
NIP7	GTExv8.ALL.Brain_Caudate_basal_ganglia	16	rs9940899	5.18	rs1048818	-3.9	4.0245	298	-4.0245	5.71E-05	0.017152206
PGAP3	GTExv8.ALL.Brain_Caudate_basal_ganglia	17	rs11078934	4.44	rs2952151	4.71	4.036357	319	4.036357	5.43E-05	0.017152206
SH2D7	GTExv8.ALL.Brain_Caudate_basal_ganglia	15	rs2036527	17.81	rs10456	5.82	4.094996	417	4.095	4.22E-05	0.017152206
TSC22D4	GTExv8.ALL.Brain_Caudate_basal_ganglia	7	rs12705071	4.25	rs2571601	-3.45	-1.44799	307	4.122193	3.75E-05	0.017152206
FCRLA	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	1	rs1340978	4.11	rs1340978	-7.6	4.10635	493	-4.10635	4.02E-05	0.0171654
ERAP2	GTExv8.ALL.Esophagus_Muscularis	5	rs2549782	-4.44	rs2762	18.14	-4.047929	505	-4.024	5.72E-05	0.017306575
IQCH	GTExv8.ALL.Esophagus_Mucosa	15	rs744910	4.78	rs8031500	-7.03	-4.127863	483	4.12786	3.66E-05	0.017318771
ERAP2	GTExv8.ALL.Brain_Substantia_nigra	5	rs2549782	-4.44	rs10051637	8.47	-4.0349	504	-4.0349	5.46E-05	0.0174294
MRPS9	GTExv8.ALL.Brain_Substantia_nigra	2	rs12618715	-4.04	rs12617795	-4.49	-4.03253	477	4.032531	5.52E-05	0.0174294
PVRIG	GTExv8.ALL.Brain_Putamen_basal_ganglia	7	rs12705071	4.25	rs1637001	7.1	3.99623	278	3.9842	6.77E-05	0.017507972
SMDT1	GTExv8.ALL.Brain_Putamen_basal_ganglia	22	rs133308	4.71	rs5758566	-5.83	3.8021	338	-3.9937	6.50E-05	0.017507972
VPS4A	GTExv8.ALL.Brain_Putamen_basal_ganglia	16	rs9940899	5.18	rs9302599	6.03	3.9075	305	4.00978	6.08E-05	0.017507972
NIP7	GTExv8.ALL.Thyroid	16	rs9940899	5.18	rs1048818	-9.3	4.02449	298	-4.00359	6.24E-05	0.017530047
GRK4	GTExv8.ALL.Thyroid	4	rs624833	-5.05	rs3021140	-18.33	-4.22217	379	3.99252	6.54E-05	0.017556267
PPP1R3C	GTExv8.ALL.Thyroid	10	rs4933206	-4.95	rs4933687	6.05	3.98913	326	3.99642	6.43E-05	0.017556267
ERAP2	GTExv8.ALL.Artery_Coronary	5	rs2549782	-4.44	rs2762	12.12	-4.0479	505	-4.03459	5.47E-05	0.017609493
SLC45A4	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	8	rs1349082	-4.37	rs12550677	4.3	-4.07286	478	-4.0729	4.64E-05	0.017611378
SLC35G5	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	8	rs2409764	-4.69	rs2572449	4.27	-4.0198	632	-4.019802	5.82E-05	0.017619194
FAM111B	GTExv8.ALL.Adrenal_Gland	11	rs565355	4.34	rs480196	4.05	-4.05287	354	-4.05287	5.06E-05	0.0176652
FBXO38	GTExv8.ALL.Adrenal_Gland	5	rs7735184	-4.64	rs6889822	-3.85	-3.58495	452	4.0313	5.55E-05	0.0176652
TSPAN3	GTExv8.ALL.Adrenal_Gland	15	rs12911362	4.29	rs2404233	-6.06	3.31811	255	-4.02618	5.67E-05	0.0176652
ERAP2	GTExv8.ALL.Vagina	5	rs2549782	-4.44	rs2762	10.3	-4.0479	502	-4.03956	5.36E-05	0.0176679
SLC45A4	GTExv8.ALL.Lung	8	rs1349082	-4.37	rs10875467	5.5	-3.87783	472	-4.02333	5.74E-05	0.017681052
MARCHF5	GTExv8.ALL.Nerve_Tibial	10	rs1589067	4.39	rs4933717	-7.21	4.07243	303	-4.072432	4.65E-05	0.017688891
ERAP2	GTExv8.ALL.Nerve_Tibial	5	rs2549782	-4.44	rs2762	19.82	-4.04793	503	-4.058193	4.95E-05	0.017722456
ERBB2	GTExv8.ALL.Nerve_Tibial	17	rs11078934	4.44	rs1565922	7.67	4.06157	320	4.06157	4.87E-05	0.017722456
HGSNAT	GTExv8.ALL.Pancreas	8	rs13280604	-4.87	rs6999489	3.95	2.43014	190	4.03459	5.47E-05	0.017785314
CYP2D8P	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	22	rs133308	4.71	rs11090076	-10.41	3.801816	355	-4.0427	5.28E-05	0.017831459
FCRLA	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	1	rs1340978	4.11	rs1340978	-6.63	4.106353	486	-4.05202	5.08E-05	0.017831459
JMJD4	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	1	rs6672559	4.43	rs10916199	4.46	4.059458	374	4.05946	4.92E-05	0.017831459
MRPS9	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	2	rs12618715	-4.04	rs6735232	-8.11	-3.97569	476	3.97569	7.02E-05	0.017852586
PPP1R3C	GTExv8.ALL.Testis	10	rs4933206	-4.952	rs1539041	5.18	2.44803	349	3.97693	6.98E-05	0.017854555
NDUFA6-DT	GTExv8.ALL.Pancreas	22	rs133308	4.71	rs5751204	-6.31	3.760135	343	-4.0224	5.76E-05	0.017876945
FAM85B	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	8	rs7823056	4.53	rs7837587	-5.91	4.49393	323	-4.0019	6.28E-05	0.017877067
TRIM25	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	17	rs2235092	4.1	rs4794672	5.52	4.010356	461	4.010356	6.06E-05	0.017877067
ZPBP2	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	17	rs11078934	4.44	rs8076131	3.62	-3.950181	288	-4.004169	6.22E-05	0.017877067
GOLGA6L5P	GTExv8.ALL.Brain_Hippocampus	15	rs11635160	3.39	rs4842947	5.03	3.309111	315	4.12578	3.69E-05	0.017907
IST1	GTExv8.ALL.Brain_Hippocampus	16	rs8050058	4.34	rs9940234	-4.6	4.11843	400	-4.1184	3.81E-05	0.017907
NIP7	GTExv8.ALL.Brain_Hippocampus	16	rs9940899	5.18	rs8044794	-3.66	4.16274	298	-4.1627	3.14E-05	0.017907
KRT18P34	GTExv8.ALL.Minor_Salivary_Gland	3	rs4680340	4	rs6781682	-6.67	3.9354	420	-3.9499	7.82E-05	0.01791244
LINC02950	GTExv8.ALL.Minor_Salivary_Gland	8	rs7823056	4.53	rs876954	5.29	4.05222	483	3.945	7.98E-05	0.01791244
COG8	GTExv8.ALL.Brain_Cortex	16	rs9940899	5.18	rs9302598	4.38	4.02993	298	4.06074	4.89E-05	0.017920384
MRPS9	GTExv8.ALL.Brain_Cortex	2	rs12618715	-4.04	rs12617795	-4.58	-4.032531	478	4.032531	5.52E-05	0.017920384
PMFBP1	GTExv8.ALL.Brain_Cortex	16	rs8050058	4.34	rs11645898	-4.54	3.52276	331	-4.05085	5.10E-05	0.017920384
SLC45A4	GTExv8.ALL.Brain_Cortex	8	rs1349082	-4.37	rs3739240	4.07	-4.072259	475	-4.07226	4.66E-05	0.017920384
TDH	GTExv8.ALL.Brain_Cortex	8	rs2409764	-4.69	rs2246606	5.21	-4.149597	636	-4.04063	5.33E-05	0.017920384
TERF2	GTExv8.ALL.Brain_Cortex	16	rs9940899	5.18	rs1048818	-4.21	4.02449	302	-4.02449	5.71E-05	0.017920384
CASTOR3P	GTExv8.ALL.Cells_Cultured_fibroblasts	7	rs12705071	4.25	rs2906646	3.45	3.18443	272	4.05404	5.03E-05	0.017967434
XRCC3	GTExv8.ALL.Cells_Cultured_fibroblasts	14	rs2403197	5.43	rs12884809	6.37	4.99636	344	4.05212	5.08E-05	0.017967434
GRK4	GTExv8.ALL.Esophagus_Muscularis	4	rs624833	-5.05	rs2471340	-13.68	-4.19356	386	3.99088	6.58E-05	0.018160292
PHACTR4	GTExv8.ALL.Esophagus_Muscularis	1	rs2236861	3.51	rs6598929	-11.64	3.34215	278	-3.97845	6.94E-05	0.018160292
SHROOM1	GTExv8.ALL.Esophagus_Muscularis	5	rs803054	5.77	rs7728394	-3.92	2.951766	400	-3.98233	6.82E-05	0.018160292
SLC45A4	GTExv8.ALL.Esophagus_Muscularis	8	rs1349082	-4.37	rs3739238	5.73	-3.99055	474	-3.99055	6.59E-05	0.018160292
SNTB2	GTExv8.ALL.Esophagus_Muscularis	16	rs9940899	5.18	rs7190822	-6.63	3.99298	317	-3.99298	6.52E-05	0.018160292
CYP2D7	GTExv8.ALL.Artery_Aorta	22	rs133308	4.71	rs133380	-7.5	3.942258	357	-3.9432	8.04E-05	0.018195789
FAM86B3P	GTExv8.ALL.Thyroid	8	rs7823056	4.53	rs2980436	7.15	3.5808	325	3.97299	7.10E-05	0.018248511
GSDMC	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	8	rs4144737	3.92	rs5006712	11.97	3.8406	458	3.991498	6.57E-05	0.01827703
MRPS9	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	2	rs12618715	-4.04	rs6735232	-9.23	-3.97569	475	4.004182	6.22E-05	0.01827703
PPP1R3C	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	10	rs4933206	-4.95	rs2000177	7.2	3.98158	326	3.992144	6.55E-05	0.01827703
ERAP2	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	5	rs2549782	-4.44	rs2762	11.22	-4.0479	504	-4.05	5.12E-05	0.018322773
STAG3	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	7	rs12705071	4.25	rs12705071	8.54	4.253	266	4.0621	4.86E-05	0.018322773
LINC01569	GTExv8.ALL.Artery_Tibial	16	rs7190602	3.92	rs4785955	-6.81	3.67486	371	-3.95727	7.58E-05	0.018371805
C17orf67	GTExv8.ALL.Brain_Caudate_basal_ganglia	17	rs2235092	4.1	rs7209070	-4.82	3.892957	456	-3.982896	6.81E-05	0.018410835
RELL2	GTExv8.ALL.Brain_Caudate_basal_ganglia	5	rs251018	-3.78	rs251018	-5.04	-3.7759	527	3.98892	6.64E-05	0.018410835
AFF4	GTExv8.ALL.Nerve_Tibial	5	rs803054	5.77	rs803224	7.52	4.03719	376	4.037191	5.41E-05	0.018419671
FAM85B	GTExv8.ALL.Nerve_Tibial	8	rs7823056	4.53	rs2948286	-10.75	3.83756	319	-4.02271	5.75E-05	0.018419671
NIP7	GTExv8.ALL.Nerve_Tibial	16	rs9940899	5.18	rs1048818	-6.16	4.02449	298	-4.02449	5.71E-05	0.018419671
SH3D19	GTExv8.ALL.Nerve_Tibial	4	rs6535797	3.7	rs10030785	-6.07	-3.02008	233	4.02685	5.65E-05	0.018419671
FCRLA	GTExv8.ALL.Colon_Transverse	1	rs1340978	4.11	rs1340977	4.29	3.9483	492	3.94835	7.87E-05	0.018428018
KRT18P34	GTExv8.ALL.Colon_Transverse	3	rs4680340	4	rs8925	-9.85	3.95323	421	-3.94634	7.94E-05	0.018428018
ST13	GTExv8.ALL.Colon_Transverse	22	rs133074	-4.01	rs138354	-5.38	3.25959	280	-3.95	7.83E-05	0.018428018
FAM167A	GTExv8.ALL.Brain_Putamen_basal_ganglia	8	rs2409764	-4.69	rs2409764	5.29	-4.68898	625	-3.95879	7.53E-05	0.0184485
SMDT1	GTExv8.ALL.Heart_Atrial_Appendage	22	rs133308	4.71	rs6002616	-10.85	3.81149	339	-4.02728	5.64E-05	0.018506557
IST1	GTExv8.ALL.Colon_Transverse	16	rs8050058	4.34	rs8050058	-3.96	4.3381	391	-3.93	8.47E-05	0.01853478
PPP1R9B	GTExv8.ALL.Colon_Transverse	17	rs8068961	3.93	rs8068961	4.49	3.93057	442	3.93057	8.47E-05	0.01853478
EPHX2	GTExv8.ALL.Adipose_Visceral_Omentum	8	rs11778040	-5.35	rs17057284	9.3	-3.871897	630	-3.91207	9.15E-05	0.018602821
SMDT1	GTExv8.ALL.Adipose_Visceral_Omentum	22	rs133308	4.71	rs4147638	-17.52	3.8117	333	-3.91507	9.04E-05	0.018602821
CYP2D8P	GTExv8.ALL.Stomach	22	rs133308	4.71	rs1801311	-4.24	3.790303	363	-3.95643	7.61E-05	0.018704769
KRT18P34	GTExv8.ALL.Stomach	3	rs4680340	4	rs1403108	-8.31	3.83333	420	-3.94154	8.10E-05	0.018704769
RHBDL1	GTExv8.ALL.Stomach	16	rs1128550	-4.66	rs34409359	4.91	-3.6588	438	-3.945981	7.95E-05	0.018704769
MTMR9	GTExv8.ALL.Small_Intestine_Terminal_Ileum	8	rs2409764	-4.69	rs10106914	-3.75	-3.44	646	3.90429	9.45E-05	0.0187425
MRPS9	GTExv8.ALL.Nerve_Tibial	2	rs12618715	-4.04	rs6735232	-15.62	-3.975691	476	4.012499	6.01E-05	0.018758905
CCNL1	GTExv8.ALL.Whole_Blood	3	rs4680340	4	rs16827322	8.17	3.739605	419	3.97765	6.96E-05	0.018789825
LIPE	GTExv8.ALL.Whole_Blood	19	rs7253209	3.63	rs3810147	3.87	3.17518	123	3.980632	6.87E-05	0.018789825
IST1	GTExv8.ALL.Heart_Atrial_Appendage	16	rs8050058	4.34	rs8052358	-4.38	3.99312	400	-3.99312	6.52E-05	0.018811596
PPP1R3G	GTExv8.ALL.Heart_Atrial_Appendage	6	rs11242992	4.18	rs467373	-8.35	3.99	634	-3.99	6.73E-05	0.018811596
CASTOR3P	GTExv8.ALL.Brain_Hypothalamus	7	rs12705071	4.25	rs858506	4.13	3.8692	287	3.9592	7.52E-05	0.018824061
ERAP2	GTExv8.ALL.Brain_Hypothalamus	5	rs2549782	-4.44	rs2762	10.37	-4.0479	504	-4.03442	5.47E-05	0.018824061
FAM167A-AS1	GTExv8.ALL.Brain_Hypothalamus	8	rs2409764	-4.69	rs2572449	4.64	-4.0198	634	-3.9674	7.27E-05	0.018824061
KRT18P34	GTExv8.ALL.Brain_Hypothalamus	3	rs4680340	4	rs8925	-6.21	3.95323	422	-3.9532	7.71E-05	0.018824061
MIRLET7IHG	GTExv8.ALL.Brain_Hypothalamus	12	rs12228015	-3.61	rs767390	-4.21	2.957	523	-3.9163	8.99E-05	0.018824061
MST1	GTExv8.ALL.Brain_Hypothalamus	3	rs6803222	-3.98	rs3197999	4.32	-3.81324	316	-4.0005	6.32E-05	0.018824061
PVRIG	GTExv8.ALL.Brain_Hypothalamus	7	rs12705071	4.25	rs1637001	6.27	3.9962	278	3.9962	6.44E-05	0.018824061
SMDT1	GTExv8.ALL.Brain_Hypothalamus	22	rs133308	4.71	rs133380	-5.63	3.942258	339	-3.9374	8.24E-05	0.018824061
TDH-AS1	GTExv8.ALL.Brain_Hypothalamus	8	rs2409764	-4.69	rs1435277	-5.89	-3.9246	637	3.9246	8.69E-05	0.018824061
FAM85B	GTExv8.ALL.Breast_Mammary_Tissue	8	rs7823056	4.53	rs2921077	-6.96	4.01247	319	-4.02701	5.65E-05	0.0188272
MRPS9	GTExv8.ALL.Breast_Mammary_Tissue	2	rs12618715	-4.042	rs12617795	-11	-4.032531	475	4.02	5.74E-05	0.0188272
PPP1R3C	GTExv8.ALL.Breast_Mammary_Tissue	10	rs4933206	-4.95	rs4933687	4.08	3.98913	349	4.029691	5.59E-05	0.0188272
SMDT1	GTExv8.ALL.Colon_Sigmoid	22	rs133308	4.71	rs4147638	-14.64	3.811744	336	-3.96273	7.41E-05	0.018887561
KRT18P34	GTExv8.ALL.Brain_Substantia_nigra	3	rs4680340	4	rs8925	-4.51	3.95323	420	-3.96	7.50E-05	0.018945
PVRIG	GTExv8.ALL.Brain_Substantia_nigra	7	rs12705071	4.25	rs11764176	5.39	3.9965	272	3.9733	7.09E-05	0.018945
KRT18P34	GTExv8.ALL.Colon_Sigmoid	3	rs4680340	4	rs8925	-6	3.95323	419	-3.95323	7.71E-05	0.018974576
LINC02550	GTExv8.ALL.Lung	11	rs321358	3.88	rs7111445	11.91	3.69419	468	3.99141	6.57E-05	0.019011191
NUDT16L2P	GTExv8.ALL.Lung	3	rs2037178	4.08	rs6772241	4.01	3.993978	411	3.99398	6.50E-05	0.019011191
SNTB2	GTExv8.ALL.Nerve_Tibial	16	rs9940899	5.18	rs7190822	-6.06	3.99298	317	-3.99298	6.52E-05	0.019071033
STAG3	GTExv8.ALL.Nerve_Tibial	7	rs12705071	4.25	rs11764176	-6.54	3.996498	248	-3.9965	6.43E-05	0.019071033
VPS4A	GTExv8.ALL.Nerve_Tibial	16	rs9940899	5.18	rs28545584	7.29	3.99094	305	3.99094	6.58E-05	0.019071033
NDUFA6-DT	GTExv8.ALL.Colon_Transverse	22	rs133308	4.71	rs4453786	7.37	-2.81179	339	-3.92	8.97E-05	0.019083675
LNPEP	GTExv8.ALL.Whole_Blood	5	rs2549782	-4.44	rs27711	6.88	-4.03947	502	-3.96654	7.29E-05	0.019084336
ZC3H12D	GTExv8.ALL.Nerve_Tibial	6	rs1320575	-4.22	rs10485097	3.65	-1.3	433	-3.98469	6.76E-05	0.019137088
DGKE	GTExv8.ALL.Brain_Frontal_Cortex_BA9	17	rs2235092	4.1	rs3760157	-5.94	3.84	453	-3.84508	0.000121	0.019148438
LUNAR1	GTExv8.ALL.Brain_Frontal_Cortex_BA9	15	rs2593053	3.84	rs2593053	-4.79	3.83551	569	-3.83551	0.000125	0.019148438
MRPS9-AS2	GTExv8.ALL.Brain_Frontal_Cortex_BA9	2	rs12618715	-4.04	rs12617795	-5.54	-4.03	478	3.84	0.000123	0.019148438
ORMDL3	GTExv8.ALL.Brain_Frontal_Cortex_BA9	17	rs11078934	4.44	rs907091	4.52	3.75	293	3.84414	0.000121	0.019148438
ARHGEF5	GTExv8.ALL.Cells_Cultured_fibroblasts	7	rs6979994	2.94	rs10487627	-4.78	2.20976	332	-4.02077	5.80E-05	0.019190516
NIP7	GTExv8.ALL.Cells_Cultured_fibroblasts	16	rs9940899	5.18	rs1048818	-6.45	4.02449	298	-4.02449	5.71E-05	0.019190516
KRT18P34	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	3	rs4680340	4	rs12634818	-5.59	3.9425	418	-3.9425	8.06E-05	0.019246371
TIE1	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	1	rs1199039	-4.4	rs2275180	-5.82	-4.19152	459	3.94171	8.09E-05	0.019246371
CCSER2	GTExv8.ALL.Brain_Cortex	10	rs4244950	3.53	rs12780817	-3.46	0.312998	524	-3.9949	6.47E-05	0.019290305
PIWIL2	GTExv8.ALL.Ovary	8	rs7819541	-4.32	rs4871990	4.83	1.97191	478	3.80136	0.000144	0.0193248
KRT18P34	GTExv8.ALL.Brain_Caudate_basal_ganglia	3	rs4680340	4	rs12634818	-6.57	3.9425	422	-3.95166	7.76E-05	0.019342314
PVRIG	GTExv8.ALL.Brain_Caudate_basal_ganglia	7	rs12705071	4.25	rs1061230	7.71	3.99577	278	3.94832	7.87E-05	0.019342314
MRPS9	GTExv8.ALL.Artery_Coronary	2	rs12618715	-4.04	rs12617795	-6.18	-4.03253	478	3.99619	6.44E-05	0.019350053
LINC02950	GTExv8.ALL.Esophagus_Mucosa	8	rs7823056	4.53	rs2921060	9.7	4.04075	482	4.09113	4.29E-05	0.01937715
ERAP2	GTExv8.ALL.Pituitary	5	rs2549782	-4.44	rs2762	13.2	-4.04793	503	-4.0479	5.17E-05	0.019381418
FAM85B	GTExv8.ALL.Pituitary	8	rs7823056	4.53	rs2948286	-9.26	3.83756	322	-4.0592	4.93E-05	0.019381418
SLC35G5	GTExv8.ALL.Pituitary	8	rs2409764	-4.69	rs2250028	5.55	-4.23775	638	-4.0579	4.95E-05	0.019381418
KRT18P34	GTExv8.ALL.Thyroid	3	rs4680340	4	rs8925	-13.71	3.95323	421	-3.95323	7.71E-05	0.0194035
NIPAL4-DT	GTExv8.ALL.Brain_Hypothalamus	5	rs4579242	5.07	rs4579243	7.07	2.9834	520	3.89318	9.89E-05	0.01941035
VN1R108P	GTExv8.ALL.Brain_Hypothalamus	20	rs2281559	3.93	rs6138650	4.08	3.8846	224	3.8846	0.000103	0.01941035
TDH-AS1	GTExv8.ALL.Brain_Cortex	8	rs2409764	-4.69	rs2250028	-8.22	-4.237749	636	3.97249	7.11E-05	0.019433959
EPHX2	GTExv8.ALL.Colon_Sigmoid	8	rs11778040	-5.35	rs13439459	7.64	-3.9136	632	-3.92327	8.74E-05	0.019492931
ERAP2	GTExv8.ALL.Colon_Sigmoid	5	rs2549782	-4.44	rs2762	14.21	-4.04793	505	-3.93766	8.23E-05	0.019492931
FCGR2B	GTExv8.ALL.Colon_Sigmoid	1	rs1340978	4.106	rs1538971	4.07	4.05954	480	3.923236	8.74E-05	0.019492931
CNPY4	GTExv8.ALL.Brain_Caudate_basal_ganglia	7	rs12705071	4.25	rs2950520	4.22	3.88342	275	3.925165	8.67E-05	0.019532788
CYP2D8P	GTExv8.ALL.Brain_Caudate_basal_ganglia	22	rs133308	4.71	rs6002621	-4.2	3.804623	363	-3.92599	8.64E-05	0.019532788
KRT18P34	GTExv8.ALL.Whole_Blood	3	rs4680340	4	rs8925	-5.91	3.953229	420	-3.95323	7.71E-05	0.019590203
GOLGA6L5P	GTExv8.ALL.Pancreas	15	rs11635160	3.39	rs4842947	8.44	3.30911	316	3.98506	6.75E-05	0.01965895
PSMA4	GTExv8.ALL.Pancreas	15	rs16969968	18.19	rs952215	-3.79	-6.84742	426	3.97935	6.91E-05	0.01965895
ERAP2	GTExv8.ALL.Brain_Cerebellar_Hemisphere	5	rs2549782	-4.44	rs2762	9.73	-4.04793	504	-4.0493	5.14E-05	0.019661486
KRT18P34	GTExv8.ALL.Brain_Cerebellar_Hemisphere	3	rs4680340	4	rs4680340	-6.65	3.99892	422	-3.99892	6.36E-05	0.019661486
P4HA2	GTExv8.ALL.Brain_Cerebellar_Hemisphere	5	rs803057	5.89	rs7720230	5.74	-4.07574	412	-4.0757	4.59E-05	0.019661486
SMDT1	GTExv8.ALL.Brain_Cerebellar_Hemisphere	22	rs133308	4.71	rs6002621	-10.19	3.80462	339	-4.0056	6.19E-05	0.019661486
STAG3	GTExv8.ALL.Brain_Cerebellar_Hemisphere	7	rs12705071	4.25	rs1617502	7.23	3.444288	265	4.028155	5.62E-05	0.019661486
UTP4	GTExv8.ALL.Brain_Cerebellar_Hemisphere	16	rs9940899	5.18	rs8061222	-6.09	-2.79892	323	4.022	5.77E-05	0.019661486

KRT18P34	GTExv8.ALL.Lung	3	rs4680340	4	rs10936066	-10.77	3.940067	420	-3.97023	7.18E-05	0.019725506
CYP2D7	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	22	rs133308	4.71	rs1801311	-13.71	3.790303	349	-3.9934	6.51E-05	0.019734718
KIF3A	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	5	rs803054	5.77	rs803054	-5.19	5.77473	397	-3.999445	6.35E-05	0.019734718
PPP1R3C	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	10	rs4933206	-4.95	rs4933687	11.14	3.98913	323	3.98913	6.63E-05	0.019734718
PVRIG	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	7	rs12705071	4.25	rs1637001	3.58	3.996226	260	3.99623	6.44E-05	0.019734718
ERAP2	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	5	rs2549782	-4.44	rs1363907	10.08	-4.1028	500	-4.01598	5.92E-05	0.019794327
MRPS9	GTExv8.ALL.Adrenal_Gland	2	rs12618715	-4.04	rs6735232	-7.01	-3.97569	478	3.9863	6.71E-05	0.019805095
CYP2D7	GTExv8.ALL.Artery_Coronary	22	rs133308	4.71	rs133368	-4.34	3.896506	357	-3.974785	7.04E-05	0.0198308
PPP1R3C	GTExv8.ALL.Vagina	10	rs4933206	-4.95	rs11186624	4.41	3.82252	328	3.98434	6.77E-05	0.0198361
GSDMC	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	8	rs4144737	3.92	rs5006712	13.9	3.8406	454	3.98137	6.85E-05	0.019866756
MED8	GTExv8.ALL.Artery_Tibial	1	rs1199039	-4.40081	rs839752	7.12	-4.36473	451	-3.931786	8.43E-05	0.019967605
CYP2D7	GTExv8.ALL.Cells_Cultured_fibroblasts	22	rs133308	4.71	rs11090076	-5.58	3.801816	355	-3.988531	6.65E-05	0.019986497
ERI1	GTExv8.ALL.Cells_Cultured_fibroblasts	8	rs1562211	4.79	rs2288671	-14.93	4.20729	696	-3.98685	6.70E-05	0.019986497
KRT18P34	GTExv8.ALL.Cells_Cultured_fibroblasts	3	rs4680340	4	rs8925	-11.89	3.95323	419	-3.98261	6.82E-05	0.019986497
TNKS	GTExv8.ALL.Cells_Cultured_fibroblasts	8	rs483916	4.19	rs12545912	-4.32	3.997	594	-3.997	6.41E-05	0.019986497
EPHX2	GTExv8.ALL.Artery_Aorta	8	rs11778040	-5.35	rs13439459	11.08	-3.9136	632	-3.9136	9.09E-05	0.020044615
ORMDL3	GTExv8.ALL.Small_Intestine_Terminal_Ileum	17	rs11078934	4.44	rs3816470	5.93	3.964647	293	3.87737	0.000106	0.020067727
ERBB2	GTExv8.ALL.Cells_Cultured_fibroblasts	17	rs11078934	4.44	rs10852936	3.86	-3.97	320	-3.97468	7.05E-05	0.020086625
GRK4	GTExv8.ALL.Brain_Hypothalamus	4	rs624833	-5.05	rs2471325	-3.76	-3.34567	382	3.86245	0.000112	0.020101333
KIF26A	GTExv8.ALL.Brain_Caudate_basal_ganglia	14	rs2273175	4.84	rs4906356	-4.2	4.79568	351	-3.90763	9.32E-05	0.020157296
SMDT1	GTExv8.ALL.Nerve_Tibial	22	rs133308	4.71	rs4147638	-18.24	3.811744	332	-3.9656	7.32E-05	0.020251445
KRT18P34	GTExv8.ALL.Esophagus_Muscularis	3	rs4680340	4	rs8925	-9.33	3.95323	419	-3.94592	7.95E-05	0.020255763
STUB1-DT	GTExv8.ALL.Colon_Sigmoid	16	rs1128550	-4.66	rs34409359	4.74	-3.6221	439	-3.90628	9.37E-05	0.020264755
ERBB2	GTExv8.ALL.Heart_Atrial_Appendage	17	rs11078934	4.44	rs2941504	5.9	3.90131	321	3.958093	7.56E-05	0.0203769
KRT18P34	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	3	rs4680340	4	rs12634818	-6.28	3.9425	421	-3.9545	7.67E-05	0.020389913
TDH-AS1	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	8	rs2409764	-4.69	rs1435277	-6.66	-3.9246	638	3.92463	8.69E-05	0.020389913
VN1R108P	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	20	rs2281559	3.93	rs6132864	4.12	3.9196	224	3.9196	8.87E-05	0.020389913
GLYATL1	GTExv8.ALL.Esophagus_Mucosa	11	rs565355	4.34	rs480196	-5.64	-4.05287	333	4.05287	5.06E-05	0.020430472
GRK4	GTExv8.ALL.Esophagus_Mucosa	4	rs624833	-5.05	rs2471340	-14.18	-4.19356	385	4.049065	5.14E-05	0.020430472
PSMD3	GTExv8.ALL.Esophagus_Mucosa	17	rs11078934	4.44	rs8078723	5.07	4.34616	301	4.05698	4.97E-05	0.020430472
METTL26	GTExv8.ALL.Cells_Cultured_fibroblasts	16	rs1128550	-4.66	rs1139897	11.97	-3.67927	449	-3.96406	7.37E-05	0.020430835
KRT18P34	GTExv8.ALL.Heart_Atrial_Appendage	3	rs4680340	4	rs10936066	-6.24	3.94007	422	-3.94804	7.88E-05	0.020507021
CDC20	GTExv8.ALL.Esophagus_Mucosa	1	rs1199039	-4.4	rs1199039	-4.6	-4.400812	455	4.03901	5.37E-05	0.020523727
SLC35G5	GTExv8.ALL.Thyroid	8	rs2409764	-4.69	rs1435277	6.06	-3.9246	633	-3.92463	8.69E-05	0.020536
VN1R108P	GTExv8.ALL.Thyroid	20	rs2281559	3.93	rs2281559	5.59	3.92648	224	3.92648	8.62E-05	0.020536
KRT18P34	GTExv8.ALL.Prostate	3	rs4680340	4	rs10936066	-4.64	3.94007	422	-3.9401	8.15E-05	0.020542075
IST1	GTExv8.ALL.Brain_Caudate_basal_ganglia	16	rs8050058	4.34	rs7195988	-4.19	3.8934	400	-3.8934	9.88E-05	0.0205466
CYP2D8P	GTExv8.ALL.Colon_Transverse	22	rs133308	4.71	rs742086	7.18	-2.79259	357	-3.87	0.000108	0.0206793
P4HA2	GTExv8.ALL.Colon_Transverse	5	rs803054	5.77	rs4705928	4.81	-3.8786	398	-3.878582	0.000105	0.0206793
RBM15-AS1	GTExv8.ALL.Colon_Transverse	1	rs2946571	-4.07	rs17627329	4.33	-3.4885	560	-3.87723	0.000106	0.0206793
SLC45A4	GTExv8.ALL.Colon_Transverse	8	rs1349082	-4.37	rs2304279	4.46	-3.8886	474	-3.8886	0.000101	0.0206793
RNF122	GTExv8.ALL.Pancreas	8	rs10503942	2.94	rs1465958	3.74	1.4795	256	3.95734	7.58E-05	0.020702496
TMED3	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	15	rs11634042	10.4	rs7162565	-4.92	1.45558	588	-3.97	7.33E-05	0.020727408
FDFT1	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	8	rs2409764	-4.69	rs11998678	-4.1	3.43456	469	-3.9206	8.83E-05	0.020771826
FPGT	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	1	rs2034453	3.66	rs12753370	4.05	-3.42402	359	-3.97072	7.17E-05	0.020771826
LINC03022	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	8	rs7837979	4.32	rs6994059	3.91	2.38752	711	3.9187	8.90E-05	0.020771826
MRPS9	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	2	rs12618715	-4.04	rs12617795	-5.27	-4.03253	477	3.972028	7.13E-05	0.020771826
PVRIG	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	7	rs12705071	4.25	rs1637001	7.37	3.9962	275	3.9962	6.44E-05	0.020771826
TDH-AS1	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	8	rs2409764	-4.69	rs1435277	-7.56	-3.92463	637	3.9246	8.69E-05	0.020771826
ERAP2	GTExv8.ALL.Brain_Hippocampus	5	rs2549782	-4.44	rs27290	10.09	-3.9933	504	-4.03206	5.53E-05	0.0207928
MRPS9	GTExv8.ALL.Brain_Hippocampus	2	rs12618715	-4.04	rs12617795	-4.96	-4.03253	479	4.03253	5.52E-05	0.0207928
FAM85B	GTExv8.ALL.Uterus	8	rs7823056	4.53	rs876954	-6.73	4.0522	323	-4.0097	6.08E-05	0.0208468
IST1	GTExv8.ALL.Cells_Cultured_fibroblasts	16	rs8050058	4.34	rs7197486	-6.25	3.83414	400	-3.95269	7.73E-05	0.020864897
KRT18P34	GTExv8.ALL.Brain_Cortex	3	rs4680340	4	rs12634818	-8.35	3.9425	421	-3.9425	8.06E-05	0.020896426
KRT18P34	GTExv8.ALL.Pancreas	3	rs4680340	4	rs8925	-8.49	3.95323	419	-3.94568	7.96E-05	0.020904185
DRAM2	GTExv8.ALL.Heart_Atrial_Appendage	1	rs629619	4.21	rs3762374	12.8	-3.67202	573	-3.93411	8.35E-05	0.021005817
VPS4A	GTExv8.ALL.Brain_Caudate_basal_ganglia	16	rs9940899	5.18	rs9302599	6.32	3.9075	305	3.8797	0.000105	0.021027222
KRT18P34	GTExv8.ALL.Artery_Coronary	3	rs4680340	4	rs10936066	-5.39	3.94007	422	-3.9461	7.94E-05	0.021050341
CYP2D7	GTExv8.ALL.Colon_Transverse	22	rs133308	4.71	rs6002623	-10.93	3.80462	351	-3.85	0.00012	0.02106225
GSDMA	GTExv8.ALL.Colon_Transverse	17	rs11078934	4.44	rs3859192	-12.39	3.6472	296	-3.84348	0.000121	0.02106225
GSDMB	GTExv8.ALL.Colon_Transverse	17	rs11078934	4.44	rs8069176	-8.51	-3.85781	290	3.85781	0.000114	0.02106225
DGKE	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	17	rs2235092	4.1	rs7209070	5.92	3.892957	452	3.942721	8.06E-05	0.0211792
CHI3L2	GTExv8.ALL.Lung	1	rs629619	4.20922	rs9970286	5.97	-3.56853	559	-3.9318	8.43E-05	0.021183703
SMDT1	GTExv8.ALL.Lung	22	rs133308	4.71	rs4147638	-17.96	3.811744	336	-3.93525	8.31E-05	0.021183703
LINC00208	GTExv8.ALL.Testis	8	rs2409764	-4.69	rs2898290	-6.6	3.92624	598	-3.93028	8.48E-05	0.021257664
SLC25A17	GTExv8.ALL.Brain_Putamen_basal_ganglia	22	rs133074	-4.01	rs13054099	4.18	-2.5811	288	-3.9123	9.14E-05	0.02127335
IGF1R	GTExv8.ALL.Colon_Transverse	15	rs2593053	3.84	rs2593053	-5.54	3.83551	614	-3.83551	0.000125	0.021275
SNAP47	GTExv8.ALL.Whole_Blood	1	rs6672559	4.43	rs12077397	-5.2	2.45649	377	-3.92627	8.63E-05	0.021301306
KIF21A	GTExv8.ALL.Thyroid	12	rs12230604	-3.97	rs7974928	7.44	-3.87587	331	-3.875873	0.000106	0.021341333
MRPS9	GTExv8.ALL.Thyroid	2	rs12618715	-4.04	rs6735232	-14.95	-3.97569	476	3.87768	0.000105	0.021341333
P4HA2	GTExv8.ALL.Thyroid	5	rs803054	5.77	rs4705928	15.07	-3.87858	397	-3.88	0.000105	0.021341333
SMDT1	GTExv8.ALL.Thyroid	22	rs133308	4.71	rs4147638	-18.88	3.811744	332	-3.896117	9.77E-05	0.021341333
TGFB2-AS1	GTExv8.ALL.Thyroid	1	rs1342586	-4.45653	rs3009935	4.7	-3.17182	475	-3.90352	9.48E-05	0.021341333
CYP2D7	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	22	rs133308	4.71	rs133368	-7.48	3.89651	356	-3.89651	9.76E-05	0.021365809
NUDCD2	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	5	rs213505	3.89	rs213505	-6.97	3.89429	464	-3.89429	9.85E-05	0.021365809
MRPS9	GTExv8.ALL.Brain_Cerebellum	2	rs12618715	-4.04	rs12618715	-6.46	-4.04223	477	3.99308	6.52E-05	0.021391246
TRAM2	GTExv8.ALL.Brain_Cerebellum	6	rs569275	-4.03	rs11757093	3.6	-3.80535	573	-3.98786	6.67E-05	0.021391246
KRT18P34	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	3	rs4680340	4	rs8925	-12.66	3.95323	418	-3.94743	7.90E-05	0.021398605
KRT18P34	GTExv8.ALL.Ovary	3	rs4680340	4	rs1522392	-5.64	3.75784	419	-3.75784	0.000171	0.021513938
RHBDL1	GTExv8.ALL.Ovary	16	rs1128550	-4.66	rs11642546	5.55	-3.75848	445	-3.7585	0.000171	0.021513938
IST1	GTExv8.ALL.Pituitary	16	rs8050058	4.34	rs7195988	-4.04	3.89342	400	-4.00798	6.12E-05	0.0216682
KRT18P34	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	3	rs4680340	4	rs8925	-12.68	3.953229	420	-3.948386	7.87E-05	0.021711602
COA8	GTExv8.ALL.Esophagus_Mucosa	14	rs2403197	5.43	rs10135248	5.72	-3.11641	353	-4.012467	6.01E-05	0.021719443
MRPS9	GTExv8.ALL.Prostate	2	rs12618715	-4.04	rs12618715	-7.65	-4.042234	478	3.914693	9.05E-05	0.02172431
FAM86B3P	GTExv8.ALL.Brain_Cerebellar_Hemisphere	8	rs7823056	4.53	rs2945230	-8.35	3.2943	327	-3.91802	8.93E-05	0.021760222
KIF21A	GTExv8.ALL.Brain_Cerebellar_Hemisphere	12	rs12230604	-3.97	rs3736466	4.52	-3.9564	331	-3.956403	7.61E-05	0.021760222
MED8-AS1	GTExv8.ALL.Brain_Cerebellar_Hemisphere	1	rs1199039	-4.4	rs839758	-3.7	-2.63816	457	3.92546	8.66E-05	0.021760222
PVRIG	GTExv8.ALL.Brain_Cerebellar_Hemisphere	7	rs12705071	4.25	rs1637001	7.51	3.996226	274	3.914814	9.05E-05	0.021760222
TDH	GTExv8.ALL.Brain_Cerebellar_Hemisphere	8	rs2409764	-4.69	rs2246606	4.83	-4.1496	638	-3.93563	8.30E-05	0.021760222
CYP2D7	GTExv8.ALL.Brain_Cortex	22	rs133308	4.71	rs133382	-6.84	3.8439	357	-3.9218	8.79E-05	0.021839488
AP1G1	GTExv8.ALL.Spleen	16	rs8050058	4.34	rs10500560	-4.05	4.0093	429	-4.070625	4.69E-05	0.02186206
NDUFA6-DT	GTExv8.ALL.Spleen	22	rs133308	4.71	rs6002621	-4.97	3.8046	345	-4.0686	4.73E-05	0.02186206
GULOP	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	8	rs11778040	-5.35	rs7012010	-6.15	-4.07903	617	3.929207	8.52E-05	0.02192409
RMDN2-AS1	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	2	rs4670233	-5.14	rs41383748	5.78	-1.9931	584	-3.93484	8.33E-05	0.02192409
ASB14	GTExv8.ALL.Colon_Transverse	3	rs17289035	-4.48	rs11544593	4.63	2.10051	372	3.82204	0.000132	0.021978
RMDN2-AS1	GTExv8.ALL.Esophagus_Muscularis	2	rs4670233	-5.14	rs2855658	4.09	-4.625886	591	-3.91956	8.87E-05	0.022020344
MRPS9	GTExv8.ALL.Lung	2	rs12618715	-4.04	rs12617795	-11.28	-4.03253	475	3.916203	9.00E-05	0.022036154
PGAP3	GTExv8.ALL.Pituitary	17	rs11078934	4.44	rs2952151	8.77	4.036357	318	3.99123	6.57E-05	0.022037163
SNTB2	GTExv8.ALL.Colon_Sigmoid	16	rs9940899	5.18	rs28545584	-5.89	3.99094	317	-3.8795	0.000105	0.022040735
PPP1R3C	GTExv8.ALL.Adipose_Subcutaneous	10	rs4933206	-4.95	rs2000177	5.56	3.98158	324	3.9816	6.85E-05	0.022106818
CYP2D8P	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	22	rs133308	4.71	rs742086	5.55	-2.79259	363	-3.8776	0.000105	0.022125
FAM85B	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	8	rs7823056	4.53	rs2921077	-6.78	4.0125	320	-3.8485	0.000119	0.022125
PHETA2	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	22	rs133308	4.71	rs133382	-5.28	3.84393	336	-3.84571	0.00012	0.022125
PYGB	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	20	rs2281559	3.93	rs6138601	7.18	3.83152	428	3.8529	0.000117	0.022125
SHROOM1	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	5	rs803054	5.77	rs7728394	-4.17	2.95177	398	-3.84871	0.000119	0.022125
SMDT1	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	22	rs133308	4.71	rs6002616	-14.61	3.81149	336	-3.86996	0.000109	0.022125
MRPS9	GTExv8.ALL.Whole_Blood	2	rs12618715	-4.042	rs17635199	-9.71	-3.97555	476	3.90227	9.53E-05	0.022151282
PKD1L3	GTExv8.ALL.Whole_Blood	16	rs8050058	4.34	rs9928317	4.57	-2.24802	371	-3.889394	1.00E-04	0.022151282
TUBB2A	GTExv8.ALL.Whole_Blood	6	rs9392465	3.91	rs9392465	19.21	3.91406	614	3.89115	9.98E-05	0.022151282
PYGB	GTExv8.ALL.Colon_Transverse	20	rs2281559	3.93	rs6138595	5.64	3.89862	428	3.80942	0.000139	0.022179188
SMDT1	GTExv8.ALL.Colon_Transverse	22	rs133308	4.71	rs6002616	-14.91	3.81149	331	-3.81	0.000138	0.022179188
PMFBP1	GTExv8.ALL.Colon_Transverse	16	rs8050058	4.34	rs4788605	-4.58	3.80513	312	-3.81	0.000142	0.022195469
SMDT1	GTExv8.ALL.Pancreas	22	rs133308	4.71	rs6002616	-14.04	3.811487	335	-3.92135	8.81E-05	0.022279511
DRAM2	GTExv8.ALL.Brain_Frontal_Cortex_BA9	1	rs629619	4.20922	rs3762374	8.29	-3.67202	573	-3.7909	0.00015	0.022281818
CYP2D8P	GTExv8.ALL.Minor_Salivary_Gland	22	rs133308	4.71	rs134901	-4.54	4.08801	363	-3.86099	0.000113	0.022380647
VN1R108P	GTExv8.ALL.Minor_Salivary_Gland	20	rs2281559	3.93	rs6132862	4.55	3.8705	224	3.8705	0.000109	0.022380647
LINC02550	GTExv8.ALL.Adipose_Visceral_Omentum	11	rs321358	3.88	rs7111445	12.69	3.69419	469	3.8588	0.000114	0.022391156
MARK2P9	GTExv8.ALL.Adipose_Visceral_Omentum	10	rs1589067	4.39	rs2275219	-4.04	-3.85012	332	3.85012	0.000118	0.022391156
MED24	GTExv8.ALL.Spleen	17	rs11078934	4.44	rs8070454	-7.21	4.348524	300	-4.04136	5.31E-05	0.022511859
MRPS9	GTExv8.ALL.Spleen	2	rs12618715	-4.042	rs12617795	-9.45	-4.03253	477	4.032531	5.52E-05	0.022511859
GRK4	GTExv8.ALL.Lung	4	rs624833	-5.05	rs2471340	-15.42	-4.19356	384	3.90267	9.51E-05	0.022568246
PYGB	GTExv8.ALL.Lung	20	rs2281559	3.93	rs2227891	7.56	3.89816	427	3.89816	9.69E-05	0.022568246
MED8-AS1	GTExv8.ALL.Esophagus_Mucosa	1	rs1199039	-4.4	rs12076751	-4.68	-4.259195	456	3.99065	6.59E-05	0.022580976
CCNG1	GTExv8.ALL.Brain_Cerebellar_Hemisphere	5	rs213505	3.89	rs299286	4.82	3.87863	459	3.8786	0.000105	0.02261729
KRT18P34	GTExv8.ALL.Breast_Mammary_Tissue	3	rs4680340	4	rs8925	-9.75	3.953229	422	-3.959984	7.50E-05	0.02262632
UTP4	GTExv8.ALL.Breast_Mammary_Tissue	16	rs9940899	5.18	rs8044057	-5.29	-2.7971	323	3.96101	7.46E-05	0.02262632
COA8	GTExv8.ALL.Heart_Atrial_Appendage	14	rs2403197	5.43	rs10149249	4.3	-3.43402	357	-3.90813	9.30E-05	0.02264
SLC35G5	GTExv8.ALL.Cells_Cultured_fibroblasts	8	rs2409764	-4.69	rs6987059	4.4	-3.39746	637	-3.92677	8.61E-05	0.0226443
SMAD3	GTExv8.ALL.Adipose_Visceral_Omentum	15	rs744910	4.78	rs7166081	5.12	-4.15741	559	-3.84269	0.000122	0.022646913
SH3D19	GTExv8.ALL.Prostate	4	rs6535797	3.7	rs11556167	3.85	3.20733	265	3.87084	0.000108	0.0226845
UROS	GTExv8.ALL.Prostate	10	rs10901530	-3.8	rs11244664	-5.15	-2.62717	585	3.8766	0.000106	0.0226845
GOLGA6L5P	GTExv8.ALL.Artery_Coronary	15	rs11635160	3.39	rs12901468	7.64	3.30697	316	3.91452	9.06E-05	0.022685233
KIF21A	GTExv8.ALL.Artery_Aorta	12	rs12230604	-3.97	rs7974928	5.47	-3.87587	331	-3.87587	0.000106	0.02279
SEMA6D	GTExv8.ALL.Cells_Cultured_fibroblasts	15	rs281265	4.48	rs281320	11.34	3.35072	424	3.91524	9.03E-05	0.022815571
SMDT1	GTExv8.ALL.Cells_Cultured_fibroblasts	22	rs133308	4.71	rs4147638	-12.95	3.811744	336	-3.912959	9.12E-05	0.022815571
KIF21A	GTExv8.ALL.Brain_Cerebellum	12	rs12230604	-3.97	rs3736466	4.16	-3.9564	331	-3.9564	7.61E-05	0.022824565
KRT18P34	GTExv8.ALL.Brain_Cerebellum	3	rs4680340	4	rs8925	-8.19	3.95323	421	-3.95323	7.71E-05	0.022824565
SLC35G5	GTExv8.ALL.Breast_Mammary_Tissue	8	rs2409764	-4.69	rs11250135	-3.47	4.16067	633	-3.94803	7.88E-05	0.022864123
GAL3ST4	GTExv8.ALL.Whole_Blood	7	rs12705071	4.25	rs1727133	4.48	3.877556	250	3.87756	0.000106	0.022893335
NAGA	GTExv8.ALL.Small_Intestine_Terminal_Ileum	22	rs133308	4.71	rs133369	-4.75	3.82224	333	-3.82224	0.000132	0.0229075
OXER1	GTExv8.ALL.Brain_Caudate_basal_ganglia	2	rs4613335	-3.47	rs2374442	-4.83	-1.45	464	3.845982	0.00012	0.022933138
FAM85B	GTExv8.ALL.Esophagus_Muscularis	8	rs7823056	4.53	rs2980436	-5.7	3.58079	321	-3.90075	9.59E-05	0.022953424
GSDMB	GTExv8.ALL.Small_Intestine_Terminal_Ileum	17	rs11078934	4.44	rs7216389	6.94	3.452735	291	3.79337	0.000149	0.02298463
LIN54	GTExv8.ALL.Small_Intestine_Terminal_Ileum	4	rs6842476	-3.87	rs3214024	-4.36	-3.80123	457	3.8012	0.000144	0.02298463
SMDT1	GTExv8.ALL.Small_Intestine_Terminal_Ileum	22	rs133308	4.71	rs4147638	-10.37	3.81174	333	-3.80895	0.00014	0.02298463
CYP2D7	GTExv8.ALL.Colon_Sigmoid	22	rs133308	4.71	rs133382	-6.82	3.843929	357	-3.86059	0.000113	0.023042314
TDH	GTExv8.ALL.Brain_Caudate_basal_ganglia	8	rs2409764	-4.69	rs11781637	5.08	-3.8415	638	-3.82958	0.000128	0.023069867
PHETA2	GTExv8.ALL.Brain_Caudate_basal_ganglia	22	rs133308	4.71	rs4147638	-5.51	3.811744	338	-3.81174	0.000138	0.023317688
PSTPIP1	GTExv8.ALL.Brain_Caudate_basal_ganglia	15	rs2036896	4.22	rs4078354	7.13	4.184221	230	3.81563	0.000136	0.023317688
MRPS9	GTExv8.ALL.Brain_Hypothalamus	2	rs12618715	-4.04	rs12617795	-5.68	-4.03253	479	3.80026	0.000145	0.023399208
PHETA2	GTExv8.ALL.Brain_Hypothalamus	22	rs133308	4.71	rs4147638	-3.85	3.811744	339	-3.7924	0.000149	0.023399208
WDR90	GTExv8.ALL.Lung	16	rs1128550	-4.66	rs4984907	9.99	-3.8832	440	-3.883205	0.000103	0.023417786
VPS4A	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	16	rs9940899	5.18	rs9302599	6.76	3.90745	305	3.87817	0.000105	0.023485
FLNB	GTExv8.ALL.Brain_Putamen_basal_ganglia	3	rs13066766	-3.86	rs2686634	-4.26	3.2212	400	-3.8737	0.000107	0.023486591
KRT18P34	GTExv8.ALL.Uterus	3	rs4680340	4	rs8925	-5.53	3.9532	420	-3.95323	7.71E-05	0.023498367
FBXL17	GTExv8.ALL.Brain_Cerebellum	5	rs17386875	3.29	rs286821	-3.74	2.86332	380	-3.93231	8.41E-05	0.023558318
TDH-AS1	GTExv8.ALL.Brain_Cerebellum	8	rs2409764	-4.69	rs2572385	-8.22	-3.9343	637	3.927831	8.57E-05	0.023558318
KRT18P34	GTExv8.ALL.Muscle_Skeletal	3	rs4680340	4	rs8925	-13.07	3.953229	419	-3.945198	7.97E-05	0.023588629
MRPS9	GTExv8.ALL.Muscle_Skeletal	2	rs12618715	-4.04	rs10205766	10.68	3.03414	472	3.95171	7.76E-05	0.023588629
VPS4A	GTExv8.ALL.Brain_Hippocampus	16	rs9940899	5.18	rs9924894	4.22	3.97922	305	3.9792	6.91E-05	0.023619636
GRK4	GTExv8.ALL.Brain_Cortex	4	rs624833	-5.05	rs3021140	-8.03	-4.22217	382	3.889696	1.00E-04	0.023622654
IST1	GTExv8.ALL.Brain_Cortex	16	rs8050058	4.34	rs3751820	-4.27	3.88455	400	-3.88455	0.000103	0.023622654
MIR3936HG	GTExv8.ALL.Heart_Left_Ventricle	5	rs803054	5.77	rs274559	-12.08	3.37743	419	-3.85094	0.000118	0.023689394
WDR90	GTExv8.ALL.Esophagus_Muscularis	16	rs1128550	-4.66	rs4984907	9.92	-3.8832	442	-3.8832	0.000103	0.023743952
FAM167A	GTExv8.ALL.Heart_Atrial_Appendage	8	rs2409764	-4.69	rs6998387	-3.77	1.73346	622	-3.880034	0.000104	0.023784485
VN1R108P	GTExv8.ALL.Heart_Atrial_Appendage	20	rs2281559	3.93	rs35364051	5.87	3.8862	224	3.88619	0.000102	0.023784485
SMDT1	GTExv8.ALL.Brain_Substantia_nigra	22	rs133308	4.71	rs6002621	-5.72	3.804623	338	-3.8603	0.000113	0.0237865
MICAL3	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	22	rs4819639	3.91	rs9605473	-4.24	-2.97861	370	3.90326	9.49E-05	0.023824529
C17orf67	GTExv8.ALL.Brain_Cortex	17	rs2235092	4.1	rs7209070	-6.14	3.89296	457	-3.847428	0.000119	0.023852
NOP14-AS1	GTExv8.ALL.Brain_Cortex	4	rs624833	-5.05	rs6824567	4.01	-4.88054	376	-3.87088	0.000108	0.023852
SMDT1	GTExv8.ALL.Brain_Cortex	22	rs133308	4.71	rs5751221	6.71	-2.2742	339	-3.8458	0.00012	0.023852
SEPTIN3	GTExv8.ALL.Lung	22	rs133308	4.71	rs133295	6.95	3.028567	341	3.8711	0.000108	0.023983535
FAM167A-AS1	GTExv8.ALL.Brain_Hippocampus	8	rs2409764	-4.69	rs11250131	-5.13	3.2726	635	-3.9549	7.66E-05	0.024001333
KIF21A	GTExv8.ALL.Artery_Tibial	12	rs12230604	-3.97	rs7974928	7.12	-3.87587	330	-3.87587	0.000106	0.024015913
EPHX2	GTExv8.ALL.Stomach	8	rs11778040	-5.35	rs17057284	7.3	-3.8719	633	-3.8719	0.000108	0.024016
FAM85B	GTExv8.ALL.Ovary	8	rs7823056	4.53	rs2979151	-6.31	3.1866	322	-3.72337	0.000197	0.024034
GOLGA6L5P	GTExv8.ALL.Spleen	15	rs11635160	3.39	rs150963	7.13	2.46755	316	3.967	7.28E-05	0.0240344
GRK4	GTExv8.ALL.Spleen	4	rs624833	-5.05	rs2471322	-8.75	-4.1691	382	3.97144	7.14E-05	0.0240344
XKR6	GTExv8.ALL.Spleen	8	rs2409764	-4.69	rs6601563	3.68	-2.84583	638	-3.98798	6.66E-05	0.0240344
SLC35G5	GTExv8.ALL.Brain_Cortex	8	rs2409764	-4.69	rs1560971	4.41	-3.836209	637	-3.83621	0.000125	0.024044355
KRT18P34	GTExv8.ALL.Heart_Left_Ventricle	3	rs4680340	4	rs8925	-6.03	3.95323	422	-3.83732	0.000124	0.024161765
TXNL4B	GTExv8.ALL.Artery_Aorta	16	rs8050058	4.34	rs4788614	6.32	3.85511	349	3.85511	0.000116	0.024161905
WDR90	GTExv8.ALL.Artery_Aorta	16	rs1128550	-4.66	rs4984907	11.27	-3.8832	449	-3.85076	0.000118	0.024161905
MARK3	GTExv8.ALL.Spleen	14	rs2403197	5.43	rs10141388	4.6	-2.69929	357	-3.9543	7.68E-05	0.024202473
GSDMA	GTExv8.ALL.Brain_Hippocampus	17	rs11078934	4.44	rs3859192	-4.85	3.647197	297	-3.921112	8.81E-05	0.024205
SMDT1	GTExv8.ALL.Brain_Hippocampus	22	rs133308	4.71	rs4453786	5.76	-2.81179	339	-3.8856	0.000102	0.024205
TDH-AS1	GTExv8.ALL.Brain_Hippocampus	8	rs2409764	-4.69	rs1435277	-7.63	-3.92463	638	3.8835	0.000103	0.024205
FAM167A	GTExv8.ALL.Brain_Caudate_basal_ganglia	8	rs2409764	-4.69	rs11250135	-5.55	4.1607	625	-3.79435	0.000148	0.024249576
ERAP2	GTExv8.ALL.Brain_Spinal_cord_cervical_c-1	5	rs2549782	-4.44	rs2549794	9.33	-4.13448	504	-4.17888	2.93E-05	0.024282375
XRCC3	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	14	rs2403197	5.43	rs12432907	-4.99	-2.10669	345	3.89159	9.96E-05	0.0243024
NOP14-AS1	GTExv8.ALL.Pancreas	4	rs624833	-5.05	rs1012365	-4.64	1.9541	376	-3.87426	0.000107	0.0243532
SYMPK	GTExv8.ALL.Pancreas	19	rs7258364	3.88	rs7258364	-4.54	3.8847	399	-3.884697	0.000102	0.0243532
PDF	GTExv8.ALL.Thyroid	16	rs9940899	5.18	rs877534	-9.5	4.03723	296	-3.83934	0.000123	0.024354839
SYNM-AS1	GTExv8.ALL.Thyroid	15	rs2593053	3.84	rs2593053	-9.87	3.83551	538	-3.84	0.000125	0.024354839
GOLGA6L5P	GTExv8.ALL.Cells_Cultured_fibroblasts	15	rs11635160	3.39	rs150968	11.9	2.93584	315	3.89085	9.99E-05	0.024397007
CASC3	GTExv8.ALL.Breast_Mammary_Tissue	17	rs11078934	4.44	rs9894845	-4.29	-0.46197	309	3.88121	0.000104	0.024460848
FAM182B	GTExv8.ALL.Breast_Mammary_Tissue	20	rs6132864	3.92	rs4815493	7.18	2.4811	169	3.88268	0.000103	0.024460848
NDUFA6-DT	GTExv8.ALL.Breast_Mammary_Tissue	22	rs133308	4.71	rs4467371	5.52	-2.80209	346	-3.89926	9.65E-05	0.024460848
WDR24	GTExv8.ALL.Breast_Mammary_Tissue	16	rs1128550	-4.66	rs4984907	6.05	-3.8832	440	-3.8832	0.000103	0.024460848
RNF217-AS1	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	6	rs7770974	-4.75	rs1413594	-4.68	3.72	488	-3.913326	9.10E-05	0.024507167
EPHX2	GTExv8.ALL.Thyroid	8	rs11778040	-5.35	rs13439459	10.64	-3.9136	631	-3.82197	0.000132	0.024531692
LINC02550	GTExv8.ALL.Thyroid	11	rs321358	3.88	rs7111445	13.52	3.69419	469	3.831	0.000128	0.024531692
ALG1L13P	GTExv8.ALL.Esophagus_Mucosa	8	rs7823056	4.53	rs2980437	10.12	3.60945	340	3.96276	7.41E-05	0.02454439
IDH3A	GTExv8.ALL.Heart_Atrial_Appendage	15	rs16969968	18.19	rs11631100	12.37	-3.90914	414	-3.85899	0.000114	0.024581657
THAP9	GTExv8.ALL.Heart_Atrial_Appendage	4	rs6842476	-3.87	rs897945	-5.56	-3.8604	470	3.8604	0.000113	0.024581657
RHBDL1	GTExv8.ALL.Artery_Tibial	16	rs1128550	-4.66	rs11640115	9.84	-3.31362	425	-3.86414	0.000111	0.02461366
CFDP1	GTExv8.ALL.Brain_Caudate_basal_ganglia	16	rs8050059	-3.86	rs12933281	4.08	-3.7822	347	-3.7822	0.000155	0.024649559
KRT18P34	GTExv8.ALL.Esophagus_Mucosa	3	rs4680340	4	rs8925	-13.03	3.95323	419	-3.953229	7.71E-05	0.024714281
LUNAR1	GTExv8.ALL.Brain_Caudate_basal_ganglia	15	rs2593053	3.84	rs2593053	-6.51	3.835507	567	-3.77555	0.00016	0.024717714
NUDCD2	GTExv8.ALL.Esophagus_Muscularis	5	rs213505	3.89	rs299286	-6.15	3.878629	464	-3.86789	0.00011	0.024767907
KIF21A	GTExv8.ALL.Artery_Coronary	12	rs12230604	-3.97	rs7974928	5.34	-3.8759	331	-3.8759	0.000106	0.0247885
RHBDL1	GTExv8.ALL.Artery_Coronary	16	rs1128550	-4.66	rs9937369	-4.99	3.32784	444	-3.8442	0.000121	0.0247885
SMDT1	GTExv8.ALL.Artery_Coronary	22	rs133308	4.71	rs6002621	-9.81	3.804623	339	-3.846067	0.00012	0.0247885
TXNL4B	GTExv8.ALL.Artery_Coronary	16	rs8050058	4.34	rs4788614	4.35	3.85511	349	3.8551	0.000116	0.0247885
ALG1L13P	GTExv8.ALL.Kidney_Cortex	8	rs7823056	4.53	rs2948286	4.58	3.8376	343	3.8545	0.000116	0.02491775
CYP2D7	GTExv8.ALL.Kidney_Cortex	22	rs133308	4.71	rs5758566	-3.97	3.802132	357	-3.802132	0.000143	0.02491775
ERAP2	GTExv8.ALL.Kidney_Cortex	5	rs2549782	-4.44	rs3909451	6.5	-4.04721	500	-4.0243	5.72E-05	0.02491775
FAM85B	GTExv8.ALL.Kidney_Cortex	8	rs7823056	4.53	rs4840913	-3.92	3.6568	323	-3.8796	0.000105	0.02491775
GRK4	GTExv8.ALL.Kidney_Cortex	4	rs624833	-5.05	rs2051556	-4.76	-4.2201	379	3.843187	0.000121	0.02491775
KRT18P34	GTExv8.ALL.Kidney_Cortex	3	rs4680340	4	rs8925	-4.43	3.9532	420	-3.9552	7.65E-05	0.02491775
RPL10P19	GTExv8.ALL.Kidney_Cortex	8	rs1562211	4.79	rs9693857	-4.28	-4.148	714	3.8076	0.00014	0.02491775
ANKRD13A	GTExv8.ALL.Cells_Cultured_fibroblasts	12	rs17680262	3.87	rs17680262	4.18	3.87319	305	3.87319	0.000107	0.024943159
SLC37A3	GTExv8.ALL.Esophagus_Mucosa	7	rs4236488	3.46	rs558	-6.32	2.6722	431	-3.94309	8.04E-05	0.024966713
PAFAH1B3	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	19	rs7253209	3.63	rs1206029	4.04	3.32948	152	3.902286	9.53E-05	0.025068333
LITAF	GTExv8.ALL.Muscle_Skeletal	16	rs2457192	-3.2	rs12933316	-14	3.14459	467	-3.92191	8.79E-05	0.025078333
NAGA	GTExv8.ALL.Brain_Hippocampus	22	rs133308	4.71	rs5758566	-5.56	3.80213	339	-3.8587	0.000114	0.025214118
NDUFA6-DT	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	22	rs133308	4.71	rs4467371	8.38	-2.80209	337	-3.88307	0.000103	0.025242357
IGF1R	GTExv8.ALL.Brain_Cerebellar_Hemisphere	15	rs2593053	3.84	rs2593053	-8.36	3.83551	623	-3.829	0.000129	0.025266162
LINGO1	GTExv8.ALL.Brain_Cerebellar_Hemisphere	15	rs4268717	6.68	rs8025691	-5.23	2.39732	408	-3.80457	0.000142	0.025266162
MRPS9	GTExv8.ALL.Brain_Cerebellar_Hemisphere	2	rs12618715	-4.04	rs12611937	-4.42	-3.80181	477	3.801807	0.000144	0.025266162
RPL10P19	GTExv8.ALL.Brain_Cerebellar_Hemisphere	8	rs1562211	4.79	rs13259143	5.57	3.5228	713	3.82591	0.00013	0.025266162
TRIM35	GTExv8.ALL.Brain_Cerebellar_Hemisphere	8	rs11778040	-5.35	rs2292979	5	-3.7833	627	-3.81844	0.000134	0.025266162
DNAH17	GTExv8.ALL.Adipose_Subcutaneous	17	rs4969170	3.58	rs4969170	-6.44	3.576582	530	-3.94237	8.07E-05	0.025278088
FAM86B3P	GTExv8.ALL.Cells_Cultured_fibroblasts	8	rs7823056	4.53	rs2980436	17.04	3.58079	327	3.86512	0.000111	0.0253006
SLC35G5	GTExv8.ALL.Brain_Caudate_basal_ganglia	8	rs2409764	-4.69	rs6990463	3.94	-1.2574	639	-3.75657	0.000172	0.025327526
SLC22A5	GTExv8.ALL.Artery_Coronary	5	rs803054	5.77	rs2070729	4.21	3.8265	417	3.8265	0.00013	0.025474348
AFF4	GTExv8.ALL.Esophagus_Mucosa	5	rs803054	5.77	rs7723827	4.85	3.94694	379	3.89834	9.69E-05	0.025479487
BCAR1	GTExv8.ALL.Esophagus_Mucosa	16	rs8050059	-3.86	rs1559339	10.85	-3.04151	371	-3.89047	1.00E-04	0.025479487
BEND5	GTExv8.ALL.Esophagus_Mucosa	1	rs11579440	-4.81	rs3118214	-3.58	2.039589	381	-3.90393	9.46E-05	0.025479487
MRPS9	GTExv8.ALL.Esophagus_Mucosa	2	rs12618715	-4.042	rs12617795	-7.42	-4.032531	476	3.89061	1.00E-04	0.025479487
SEPTIN8	GTExv8.ALL.Esophagus_Mucosa	5	rs803054	5.77	rs708458	-3.76	4.03772	414	-3.89327	9.89E-05	0.025479487
WDR90	GTExv8.ALL.Artery_Coronary	16	rs1128550	-4.66	rs34775748	3.78	-3.81536	453	-3.8154	0.000136	0.025539667
ARHGAP29	GTExv8.ALL.Adipose_Subcutaneous	1	rs3789688	4.423	rs4847286	-4.04	3.888026	533	-3.88026	0.000101	0.02556
CYP2D7	GTExv8.ALL.Adipose_Subcutaneous	22	rs133308	4.71	rs133368	-10.97	3.896506	350	-3.8857	0.000102	0.02556
GRK4	GTExv8.ALL.Adipose_Subcutaneous	4	rs624833	-5.05	rs2471340	-16.23	-4.19356	383	3.88331	0.000103	0.02556
KRT18P34	GTExv8.ALL.Adipose_Subcutaneous	3	rs4680340	4	rs8925	-9.08	3.953229	421	-3.87205	0.000108	0.02556
MED24	GTExv8.ALL.Adipose_Subcutaneous	17	rs11078934	4.44	rs3935280	-13.42	4.425995	302	-3.93156	8.44E-05	0.02556
MRPS9	GTExv8.ALL.Adipose_Subcutaneous	2	rs12618715	-4.04	rs6735232	-12.3	-3.975691	475	3.871598	0.000108	0.02556
PHACTR4	GTExv8.ALL.Adipose_Subcutaneous	1	rs2236861	3.507	rs10794514	-11.32	3.107255	280	-3.874495	0.000107	0.02556
PYGB	GTExv8.ALL.Adipose_Subcutaneous	20	rs2281559	3.93	rs6138650	5.14	3.88457	427	3.90042	9.60E-05	0.02556
SLC35G5	GTExv8.ALL.Adipose_Subcutaneous	8	rs2409764	-4.69	rs1435277	5.14	-3.92463	636	-3.92463	8.69E-05	0.02556
SLMAP	GTExv8.ALL.Adipose_Subcutaneous	3	rs13066766	-3.86	rs4681764	-4.01	-3.692947	365	3.91285	9.12E-05	0.02556
SMDT1	GTExv8.ALL.Adipose_Subcutaneous	22	rs133308	4.71	rs4147638	-19.86	3.811744	331	-3.9047	9.43E-05	0.02556
LIN54	GTExv8.ALL.Thyroid	4	rs6842476	-3.87	rs13131897	-4.29	-3.80728	452	3.80728	0.000141	0.025602388
MAP4K4	GTExv8.ALL.Thyroid	2	rs1876801	-4.51	rs4851487	5.71	3.80396	420	3.80396	0.000142	0.025602388
ERAP2	GTExv8.ALL.Liver	5	rs2549782	-4.44	rs2549794	11.61	-4.13448	504	-4.00946	6.09E-05	0.025633017
LINC02499	GTExv8.ALL.Liver	4	rs4694626	-3.96	rs4694626	-4.93	-3.9563	282	3.95633	7.61E-05	0.025633017
RPL10P19	GTExv8.ALL.Liver	8	rs1562211	4.79	rs12542733	5.32	3.6882	716	4.0144	5.96E-05	0.025633017
SNTB2	GTExv8.ALL.Liver	16	rs9940899	5.18	rs35076456	-5.47	3.968821	316	-3.980648	6.87E-05	0.025633017
RHBDL1	GTExv8.ALL.Spleen	16	rs1128550	-4.66	rs34409359	6.47	-3.6349	441	-3.91902	8.89E-05	0.025680988
LINC02550	GTExv8.ALL.Uterus	11	rs321358	3.88	rs7111445	6.85	3.69419	469	3.85727	0.000115	0.025715625
METTL26	GTExv8.ALL.Uterus	16	rs1128550	-4.66	rs11642546	4.15	-3.7585	458	-3.79166	0.00015	0.025715625
MRPS9	GTExv8.ALL.Uterus	2	rs12618715	-4.04	rs12611937	-6.4	-3.80181	478	3.80181	0.000144	0.025715625
NDUFA6-DT	GTExv8.ALL.Uterus	22	rs133308	4.71	rs5751229	3.91	-2.70406	340	-3.8148	0.000136	0.025715625
SMDT1	GTExv8.ALL.Uterus	22	rs133308	4.71	rs133369	-8.37	3.822244	333	-3.8222	0.000132	0.025715625
WDR90	GTExv8.ALL.Uterus	16	rs1128550	-4.66	rs4984907	5.76	-3.8832	442	-3.83258	0.000127	0.025715625
DISP2	GTExv8.ALL.Thyroid	15	rs2412511	3.15	rs2289328	8.16	3.12336	393	3.8	0.000147	0.025735652
DEFB134	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	8	rs10903340	4.18	rs4469501	3.88	2.963	321	3.81286	0.000137	0.025746
PHETA2	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	22	rs133308	4.71	rs133382	-3.77	3.843929	338	-3.8439	0.000121	0.025746
SLC35G5	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	8	rs2409764	-4.69	rs13260727	4.55	-4.0146	639	-3.83003	0.000128	0.025746
VPS4A	GTExv8.ALL.Brain_Frontal_Cortex_BA9	16	rs9940899	5.18	rs1127231	6.21	3.97626	305	3.74005	0.000184	0.025770514
GSDMC	GTExv8.ALL.Heart_Atrial_Appendage	8	rs4144737	3.92	rs5006712	6.44	3.8406	462	3.840599	0.000123	0.025785583
GLYATL1	GTExv8.ALL.Pancreas	11	rs565355	4.34	rs501703	-5.32	-3.7057	335	3.81617	0.000136	0.025794667
PHETA2	GTExv8.ALL.Pancreas	22	rs133308	4.71	rs6002609	5.44	3.816996	335	3.817	0.000135	0.025794667
STAG3	GTExv8.ALL.Pancreas	7	rs12705071	4.25	rs1637001	5.66	3.99623	255	3.81583	0.000136	0.025794667
FAM90A25P	GTExv8.ALL.Brain_Hypothalamus	8	rs7459983	-3.55	rs11250186	-3.7	-2.7336	190	3.7536	0.000174	0.025948115
FLNB	GTExv8.ALL.Brain_Hypothalamus	3	rs13066766	-3.86	rs7629727	-3.79	1.72861	400	-3.747	0.000179	0.025948115
KRT18P34	GTExv8.ALL.Pituitary	3	rs4680340	4	rs10936066	-7.36	3.9401	421	-3.9401	8.15E-05	0.025969975
ATP2C1	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	3	rs2037178	4.08	rs218495	-5.6	2.55908	383	-3.85945	0.000114	0.0260756
METTL26	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	16	rs1128550	-4.66	rs1139897	6.9	-3.67927	452	-3.79905	0.000145	0.026082317
GSDMC	GTExv8.ALL.Spleen	8	rs4144737	3.92	rs5006712	7.1	3.8406	462	3.90534	9.41E-05	0.026095812
SMDT1	GTExv8.ALL.Heart_Left_Ventricle	22	rs133308	4.71	rs4147638	-9.2	3.811744	340	-3.81174	0.000138	0.026121429
SNORA71B	GTExv8.ALL.Adipose_Subcutaneous	20	rs2206783	3.58	rs6070221	-4.97	1.75255	465	-3.86107	0.000113	0.026161957
KIF3A	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	5	rs803054	5.77	rs3798130	-6.38	3.11757	400	-3.79282	0.000149	0.02616369
KIF3A	GTExv8.ALL.Heart_Atrial_Appendage	5	rs803054	5.77	rs3798130	-6.19	3.11757	406	-3.8098	0.000139	0.026225825
LINC02288	GTExv8.ALL.Heart_Atrial_Appendage	14	rs17105232	4.66	rs17811461	-6.21	3.49743	547	-3.81873	0.000134	0.026225825
NIBAN1	GTExv8.ALL.Heart_Atrial_Appendage	1	rs10911651	-4.41	rs234650	-4.36	3.86082	402	-3.82251	0.000132	0.026225825
HEXA	GTExv8.ALL.Pancreas	15	rs28368570	3.96	rs16956783	-4.11	-3.17318	264	3.79851	0.000146	0.026233895
MRPS9	GTExv8.ALL.Pancreas	2	rs12618715	-4.04	rs12611937	-7.9	-3.80181	478	3.80181	0.000144	0.026233895
PHETA2	GTExv8.ALL.Artery_Tibial	22	rs133308	4.71	rs133382	-5.46	3.843929	330	-3.8439	0.000121	0.026272125
DRAM2	GTExv8.ALL.Esophagus_Mucosa	1	rs629619	4.21	rs3762374	12.28	-3.672016	574	-3.87587	0.000106	0.02633305
NIBAN1	GTExv8.ALL.Esophagus_Mucosa	1	rs10911651	-4.41	rs481215	-3.97	1.947264	402	-3.86299	0.000112	0.026344605
PIGQ	GTExv8.ALL.Esophagus_Mucosa	16	rs1128550	-4.66	rs4984890	-4.14	-3.85834	458	3.85834	0.000114	0.026344605
VN1R108P	GTExv8.ALL.Esophagus_Mucosa	20	rs2281559	3.93	rs6132862	3.6	3.8705	224	3.8705	0.000109	0.026344605
CYP2D7	GTExv8.ALL.Spleen	22	rs133308	4.71	rs133368	-7.77	3.8965	357	-3.89327	9.89E-05	0.026372065
CYP2D7	GTExv8.ALL.Artery_Tibial	22	rs133308	4.71	rs133382	-8.35	3.843929	349	-3.8381	0.000124	0.026374041
CCNL1	GTExv8.ALL.Thyroid	3	rs4680340	4	rs1403104	-4.39	3.78604	420	-3.78604	0.000153	0.026403429
WDR24	GTExv8.ALL.Spleen	16	rs1128550	-4.66	rs4984907	4.7	-3.8832	443	-3.883205	0.000103	0.026448111
NR2F1-AS1	GTExv8.ALL.Testis	5	rs3776601	-3.97	rs1844343	4.29	-3.846171	253	-3.860495	0.000113	0.026460667
PDE12	GTExv8.ALL.Testis	3	rs17289035	-4.48	rs17216893	3.64	-2.52067	327	-3.86	0.000114	0.026460667
RPA3	GTExv8.ALL.Brain_Caudate_basal_ganglia	7	rs10257694	-3.7	rs3735460	5.49	-3.27532	752	-3.731138	0.000191	0.026480436
ZFP90	GTExv8.ALL.Kidney_Cortex	16	rs193968	-4.08	rs7190307	-3.02	2.91902	310	-3.758	0.000171	0.026486
FAM66A	GTExv8.ALL.Heart_Left_Ventricle	8	rs7459983	-3.55	rs3924736	-5.19	-2.81262	173	3.79382	0.000148	0.0265
WEE1	GTExv8.ALL.Artery_Coronary	11	rs373894	3.8	rs373894	3.33	3.79528	375	3.7953	0.000147	0.02650116
GRK4	GTExv8.ALL.Adrenal_Gland	4	rs624833	-5.05	rs2471351	-7.66	-3.34696	383	3.8821	0.000104	0.026510545
PIGQ	GTExv8.ALL.Adrenal_Gland	16	rs1128550	-4.66	rs4984907	4	-3.8832	464	-3.8832	0.000103	0.026510545
NFATC2IP	GTExv8.ALL.Lung	16	rs12926138	-3.75	rs2370287	3.85	2.33545	178	3.840401	0.000123	0.026525
SYNM-AS1	GTExv8.ALL.Lung	15	rs2593053	3.84	rs2593053	-6.9	3.83551	541	-3.84	0.000125	0.026525
MST1	GTExv8.ALL.Prostate	3	rs6803222	-3.98	rs3197999	4.16	-3.81324	316	-3.8132	0.000137	0.026562192
SMDT1	GTExv8.ALL.Prostate	22	rs133308	4.71	rs4147638	-11.16	3.81174	340	-3.81348	0.000137	0.026562192
DEFB134	GTExv8.ALL.Pancreas	8	rs10903340	4.18	rs2409798	6.43	3.88247	321	3.7874	0.000152	0.026611692
PHETA2	GTExv8.ALL.Esophagus_Muscularis	22	rs133308	4.71	rs133382	-5.43	3.843929	335	-3.84393	0.000121	0.0266255
NUDCD2	GTExv8.ALL.Nerve_Tibial	5	rs213505	3.89	rs213505	-7.5	3.89429	464	-3.894285	9.85E-05	0.026645344
MTMR9	GTExv8.ALL.Artery_Coronary	8	rs2409764	-4.69	rs7825690	-4.47	-2.9719	647	3.78512	0.000154	0.026695308
KIF3A	GTExv8.ALL.Nerve_Tibial	5	rs803054	5.77	rs2299007	-9.66	3.43513	402	-3.888807	0.000101	0.026727674
LUNAR1	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	15	rs2593053	3.84	rs2593053	-7.19	3.83551	567	-3.83551	0.000125	0.02684
FBXO38	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	5	rs7735184	-4.64	rs4597955	4.59	3.03659	449	3.76326	0.000168	0.026934783
GOLGA6L5P	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	15	rs11635160	3.39	rs150968	10.86	2.93584	316	3.76284	0.000168	0.026934783
LNPEP	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	5	rs2549782	-4.44	rs2762	7.37	-4.04793	500	-3.76376	0.000167	0.026934783
P4HA2	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	5	rs803054	5.77	rs7720230	5.16	-4.07574	396	-3.76583	0.000166	0.026934783
WDR90	GTExv8.ALL.Colon_Sigmoid	16	rs1128550	-4.66	rs4984907	6.98	-3.8832	448	-3.81445	0.000136	0.026962
MED24	GTExv8.ALL.Lung	17	rs11078934	4.44	rs3213762	-7.66	4.129981	303	-3.826686	0.00013	0.026986304
PRDX3P2	GTExv8.ALL.Cells_Cultured_fibroblasts	1	rs2236861	3.50702	rs6598929	-6.84	3.342146	268	-3.841523	0.000122	0.027203348
RCN1	GTExv8.ALL.Thyroid	11	rs581573	3.35	rs477838	-9.71	2.76332	380	-3.7743	0.00016	0.027222535
SMDT1	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	22	rs133308	4.71	rs4147638	-18.83	3.811744	329	-3.83232	0.000127	0.027233563
SYNM-AS1	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	15	rs2593053	3.84	rs2593053	-7.19	3.83551	539	-3.84	0.000125	0.027233563
NOP14	GTExv8.ALL.Cells_Cultured_fibroblasts	4	rs624833	-5.05	rs2256086	-8.42	-3.33142	387	3.8358	0.000125	0.027279255
CYP2D7	GTExv8.ALL.Esophagus_Muscularis	22	rs133308	4.71	rs1801311	-8.79	3.790303	355	-3.83147	0.000127	0.027324756
FAM182B	GTExv8.ALL.Adipose_Visceral_Omentum	20	rs6132864	3.92	rs4815493	5.83	2.4811	169	3.77639	0.000159	0.0273248
MRPS9	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	2	rs12618715	-4.04	rs12611937	-7.79	-3.80181	479	3.8018	0.000144	0.027328
SLC22A5	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	5	rs803054	5.77	rs2631360	-5.33	-4.9837	410	3.8043	0.000142	0.027328
SMDT1	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	22	rs133308	4.71	rs4147638	-8.42	3.811744	332	-3.8157	0.000136	0.027328
LIN54	GTExv8.ALL.Lung	4	rs6842476	-3.87	rs13131897	-3.94	-3.80728	453	3.81203	0.000138	0.027453375
RPL10AP1	GTExv8.ALL.Lung	14	rs2403197	5.43	rs2246490	-6.18	3.11796	353	-3.81304	0.000137	0.027453375
TRIM45	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	1	rs12118664	3.57	rs3795655	5.15	3.46715	448	3.82097	0.000133	0.027459385
CYP2D7	GTExv8.ALL.Stomach	22	rs133308	4.71	rs2413669	-9.13	3.810375	357	-3.81037	0.000139	0.027502194
GOLGA6L5P	GTExv8.ALL.Stomach	15	rs11635160	3.39	rs150968	8.79	2.93584	316	3.80521	0.000142	0.027502194
RMDN2-AS1	GTExv8.ALL.Stomach	2	rs4670233	-5.14	rs232599	4.46	-2.82131	589	-3.81405	0.000137	0.027502194
SMDT1	GTExv8.ALL.Stomach	22	rs133308	4.71	rs4147638	-14.54	3.811744	337	-3.81857	0.000134	0.027502194
PBX3	GTExv8.ALL.Artery_Coronary	9	rs12341976	-4.62	rs10819087	4.51	-3.89458	382	-3.75881	0.000171	0.027524893
SH2D7	GTExv8.ALL.Pituitary	15	rs2036527	17.81	rs8036417	4.93	1.60328	416	3.9124	9.14E-05	0.027737724
USP10	GTExv8.ALL.Colon_Transverse	16	rs8051428	-3.99	rs4510001	-6.11	-3.39709	850	3.74	0.000182	0.02787876
SNRK	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	3	rs13433894	3.85	rs17473118	5.85	3.51701	347	3.82057	0.000133	0.027938143
OLFML2A	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	9	rs10818940	3.9	rs912355	3.52	3.74727	305	3.74727	0.000179	0.028087766
DENND6A	GTExv8.ALL.Ovary	3	rs13066766	-3.86	rs6775340	-4	-3.67476	335	3.67476	0.000238	0.028182
AP1G1	GTExv8.ALL.Esophagus_Muscularis	16	rs8050058	4.34	rs11865456	-3.66	4.09422	429	-3.81883	0.000134	0.028204087
ASH2L	GTExv8.ALL.Cells_Cultured_fibroblasts	8	rs2275957	4.16	rs2073351	-3.6	3.82179	243	-3.82179	0.000132	0.02820675
ARF4	GTExv8.ALL.Muscle_Skeletal	3	rs6787279	-4.39	rs7609911	3.75	-3.266155	329	-3.84617	0.00012	0.028213125
PDLIM4	GTExv8.ALL.Muscle_Skeletal	5	rs803054	5.77	rs1007602	5.86	3.01554	388	3.85297	0.000117	0.028213125
PVRIG	GTExv8.ALL.Muscle_Skeletal	7	rs12705071	4.25	rs11764176	10.79	3.996498	259	3.856735	0.000115	0.028213125
TMEM170A	GTExv8.ALL.Muscle_Skeletal	16	rs8050059	-3.86	rs8050059	4.34	-3.85771	345	-3.85771	0.000114	0.028213125
LEPR	GTExv8.ALL.Heart_Atrial_Appendage	1	rs2025803	-3.79	rs7524834	-4.84	-3.78447	456	3.78447	0.000154	0.028347268
GJC3	GTExv8.ALL.Colon_Transverse	7	rs12705071	4.25	rs2285886	-3.76	-1.353165	243	3.73294	0.000189	0.028383353
ABCD3	GTExv8.ALL.Heart_Atrial_Appendage	1	rs3789688	4.42	rs12089927	5.79	2.80286	571	3.77845	0.000158	0.028391095
CYP2D8P	GTExv8.ALL.Esophagus_Mucosa	22	rs133308	4.71	rs5758610	8.61	-2.824674	360	-3.828308	0.000129	0.028486067
P4HA2	GTExv8.ALL.Esophagus_Mucosa	5	rs803054	5.77	rs11955347	10.78	-3.77242	394	-3.82857	0.000129	0.028486067
CYP2D8P	GTExv8.ALL.Liver	22	rs133308	4.71	rs13057094	-4.84	3.8453	359	-3.8614	0.000113	0.028546625
KRT18P34	GTExv8.ALL.Liver	3	rs4680340	4	rs8925	-9.35	3.9532	419	-3.89809	9.70E-05	0.028546625
TSPYL4	GTExv8.ALL.Liver	6	rs13212974	-3.71	rs17201530	3.37	-3.4724	375	-3.8603	0.000113	0.028546625
WDR24	GTExv8.ALL.Liver	16	rs1128550	-4.66	rs4984907	4.06	-3.883205	445	-3.883205	0.000103	0.028546625
KCNQ2-AS1	GTExv8.ALL.Testis	20	rs884851	4.69	rs3746358	-11.6	3.82689	436	-3.82689	0.00013	0.0286193
NOL4L-DT	GTExv8.ALL.Testis	20	rs6121376	3.85	rs6058750	-6.04	3.83334	379	-3.83334	0.000126	0.0286193
SMDT1	GTExv8.ALL.Testis	22	rs133308	4.71	rs6002621	-8.16	3.804623	337	-3.81317	0.000137	0.0286193
TRMT11	GTExv8.ALL.Testis	6	rs4997859	3.79	rs641860	-3.89	2.39	256	-3.81751	0.000135	0.0286193
TSPYL4	GTExv8.ALL.Testis	6	rs13212974	-3.71	rs12193974	4.33	-2.98	376	-3.82134	0.000133	0.0286193
KCNK3	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	2	rs1662992	-4.36	rs11126666	-4.12	2.87241	367	-3.80036	0.000144	0.028629333
LINC02600	GTExv8.ALL.Brain_Cerebellum	4	rs12508004	3.13	rs16844797	-4.76	-2.95301	300	3.872852	0.000108	0.02866469
FNDC9	GTExv8.ALL.Nerve_Tibial	5	rs4579242	5.07	rs3734026	6.37	2.48904	501	3.857237	0.000115	0.028709906
IGF1R	GTExv8.ALL.Nerve_Tibial	15	rs2593053	3.84	rs2593053	-8.7	3.83551	615	-3.83551	0.000125	0.028709906
LUNAR1	GTExv8.ALL.Nerve_Tibial	15	rs2593053	3.84	rs2593053	-6.95	3.83551	561	-3.83551	0.000125	0.028709906
PHETA2	GTExv8.ALL.Nerve_Tibial	22	rs133308	4.71	rs133382	-5.03	3.843929	332	-3.8439	0.000121	0.028709906
PPP1R3C	GTExv8.ALL.Nerve_Tibial	10	rs4933206	-4.95	rs4933687	5.6	3.98913	321	3.84058	0.000123	0.028709906
RNASEL	GTExv8.ALL.Nerve_Tibial	1	rs12735664	-3.728	rs942436	7.26	-2.78658	457	-3.843184	0.000121	0.028709906
CYP2D7	GTExv8.ALL.Vagina	22	rs133308	4.71	rs133382	-5.76	3.8439	352	-3.8439	0.000121	0.028804154
SMDT1	GTExv8.ALL.Vagina	22	rs133308	4.71	rs1801311	-8.55	3.7903	333	-3.8157	0.000136	0.028804154
NIT1	GTExv8.ALL.Breast_Mammary_Tissue	1	rs12129787	-3.89	rs4656985	-5.82	-2.88402	401	3.82356	0.000132	0.028882743
SLC45A4	GTExv8.ALL.Breast_Mammary_Tissue	8	rs1349082	-4.37	rs4961258	5.43	-3.81935	476	-3.81935	0.000134	0.028882743
CKB	GTExv8.ALL.Liver	14	rs2403197	5.43	rs9324063	-6.28	3.80214	354	-3.80214	0.000143	0.0289003
CLDN1	GTExv8.ALL.Liver	3	rs6800425	3.84	rs6800425	-4.69	3.8407	567	-3.84071	0.000123	0.0289003
SMDT1	GTExv8.ALL.Liver	22	rs133308	4.71	rs4147638	-5.49	3.8117	333	-3.8117	0.000138	0.0289003
WDR90	GTExv8.ALL.Liver	16	rs1128550	-4.66	rs34775748	6.3	-3.815355	451	-3.808663	0.00014	0.0289003
SMDT1	GTExv8.ALL.Breast_Mammary_Tissue	22	rs133308	4.71	rs4147638	-16.14	3.81174	339	-3.8125	0.000138	0.028918667
COA8	GTExv8.ALL.Brain_Caudate_basal_ganglia	14	rs2403197	5.43	rs7154948	6.13	-3.70218	359	-3.70218	0.000214	0.02892745
METAP1D	GTExv8.ALL.Colon_Sigmoid	2	rs6734372	3.69	rs13013988	4.3	-3.00386	472	-3.79141	0.00015	0.028933784
SMDT1	GTExv8.ALL.Esophagus_Mucosa	22	rs133308	4.71	rs4147638	-13.91	3.811744	334	-3.812987	0.000137	0.028965298
STAG3	GTExv8.ALL.Brain_Caudate_basal_ganglia	7	rs12705071	4.25	rs1637001	7.49	3.99623	269	3.688592	0.000225	0.028966071
LINC02550	GTExv8.ALL.Breast_Mammary_Tissue	11	rs321358	3.88	rs321356	9.3	3.8813	469	3.7986	0.000146	0.028984842
PDF	GTExv8.ALL.Breast_Mammary_Tissue	16	rs9940899	5.18	rs3743669	-6.17	3.4449	296	-3.79726	0.000146	0.028984842
KIF3A	GTExv8.ALL.Stomach	5	rs803054	5.77	rs30512	-5.09	4.73525	402	-3.76521	0.000166	0.028990743
STUB1-DT	GTExv8.ALL.Stomach	16	rs1128550	-4.66	rs1139897	4.02	-3.6793	438	-3.773487	0.000161	0.028990743
TUBB2B	GTExv8.ALL.Stomach	6	rs9392465	3.91	rs9392465	-5.64	3.9141	600	-3.761852	0.000169	0.028990743
CYP2D7	GTExv8.ALL.Breast_Mammary_Tissue	22	rs133308	4.71	rs1801311	-8.77	3.7903	357	-3.7903	0.00015	0.029015385
OSTF1	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	9	rs2273770	-3.91	rs2273770	-4.02	-3.9099	445	3.7659	0.000166	0.029073714
NDUFA6-DT	GTExv8.ALL.Testis	22	rs133308	4.71	rs6002621	-5.61	3.804623	345	-3.80462	0.000142	0.029177508
LILRB2	GTExv8.ALL.Whole_Blood	19	rs2448289	-3.32	rs12984962	-7.75	-2.65888	466	3.787185	0.000152	0.029180622
SMDT1	GTExv8.ALL.Whole_Blood	22	rs133308	4.71	rs4147638	-20.29	3.811744	331	-3.78867	0.000151	0.029180622
TEF	GTExv8.ALL.Whole_Blood	22	rs2234059	-3.8	rs2234059	11.27	-3.796056	256	-3.79606	0.000147	0.029180622
FAM66A	GTExv8.ALL.Esophagus_Mucosa	8	rs7459983	-3.55	rs7823537	-3.82	-2.84603	173	3.80606	0.000141	0.029189938
AFF4	GTExv8.ALL.Thyroid	5	rs803054	5.77	rs803224	10.78	4.03719	377	3.75	0.000177	0.029289863
CCDC150	GTExv8.ALL.Colon_Transverse	2	rs10804080	-4.368	rs2714146	-5.96	-3.177745	407	3.71967	0.000199	0.029310404
ACSBG1	GTExv8.ALL.Heart_Atrial_Appendage	15	rs16969968	18.19	rs11631100	7.7	-3.90914	409	-3.75262	0.000175	0.029349444
GOLGA6L5P	GTExv8.ALL.Heart_Atrial_Appendage	15	rs11635160	3.39	rs150968	9.96	2.935841	316	3.76139	0.000169	0.029349444
PPP1R3C	GTExv8.ALL.Heart_Atrial_Appendage	10	rs4933206	-4.95	rs4933677	3.91	3.92582	349	3.75396	0.000174	0.029349444
NDUFA6-DT	GTExv8.ALL.Brain_Cerebellar_Hemisphere	22	rs133308	4.71	rs4453786	8.69	-2.81179	346	-3.75749	0.000172	0.029384842
LAMTOR5-	GTExv8.ALL.Testis	1	rs2946571	-4.07	rs4839387	-10.42	-3.72162	550	3.79705	0.000146	0.029444952
RHOT2	GTExv8.ALL.Testis	16	rs1128550	-4.66	rs4984907	9.03	-3.8832	440	-3.79378	0.000148	0.029444952
IKZF3	GTExv8.ALL.Whole_Blood	17	rs11078934	4.44	rs907091	-7.02	3.75295	291	-3.780384	0.000157	0.029485283
CYP2D7	GTExv8.ALL.Adrenal_Gland	22	rs133308	4.71	rs133382	-7.18	3.8439	352	-3.8439	0.000121	0.029502957
BLK	GTExv8.ALL.Adipose_Visceral_Omentum	8	rs2409764	-4.69	rs2736374	4.38	-3.750371	627	-3.75037	0.000177	0.029558077
SLC25A17	GTExv8.ALL.Adipose_Visceral_Omentum	22	rs133074	-4.01	rs9611435	4.3	-2.9133	289	-3.74624	0.00018	0.029558077
TSPAN3	GTExv8.ALL.Testis	15	rs12911362	4.29	rs2404233	-7.15	3.31811	255	-3.789261	0.000151	0.029572406
HMOX2	GTExv8.ALL.Prostate	16	rs7190602	3.92	rs4786490	5.11	1.97827	431	3.75165	0.000176	0.029573867
LINC01569	GTExv8.ALL.Prostate	16	rs7190602	3.92	rs4785955	-6.19	3.67486	379	-3.76605	0.000166	0.029573867
AFF4	GTExv8.ALL.Spleen	5	rs803054	5.77	rs7723827	6.69	3.9469	389	3.84285	0.000122	0.0295808
PHETA2	GTExv8.ALL.Spleen	22	rs133308	4.71	rs133382	-5.17	3.8439	337	-3.83671	0.000125	0.0295808
ZNF23	GTExv8.ALL.Spleen	16	rs8050058	4.34	rs12927445	5.02	-1.7071	317	-3.830978	0.000128	0.0295808
SMDT1	GTExv8.ALL.Artery_Aorta	22	rs133308	4.71	rs6002616	-15.25	3.811487	339	-3.7942	0.000148	0.0296
CYP2D7	GTExv8.ALL.Adipose_Visceral_Omentum	22	rs133308	4.71	rs1801311	-8.64	3.7903	353	-3.7397	0.000184	0.02964483
GFPT1	GTExv8.ALL.Colon_Sigmoid	2	rs2312209	3.41	rs2312209	-5.63	3.41327	409	-3.77164	0.000162	0.029646
P4HA2	GTExv8.ALL.Colon_Sigmoid	5	rs803054	5.77	rs11955347	5.52	-3.77242	399	-3.77242	0.000162	0.029646
DGKE	GTExv8.ALL.Brain_Caudate_basal_ganglia	17	rs2235092	4.1	rs6503772	4.1	-3.396088	453	-3.665153	0.000247	0.029678422
GRK4	GTExv8.ALL.Brain_Caudate_basal_ganglia	4	rs624833	-5.05	rs3021140	-4.95	-4.22217	385	3.67233	0.00024	0.029678422
RPL10P19	GTExv8.ALL.Brain_Caudate_basal_ganglia	8	rs1562211	4.79	rs6981573	6.67	3.2386	716	3.66884	0.000244	0.029678422
EIF3C	GTExv8.ALL.Pituitary	16	rs12926138	-3.75	rs2008514	4.45	3.12227	202	3.88354	0.000103	0.029837227
SMDT1	GTExv8.ALL.Esophagus_Muscularis	22	rs133308	4.71	rs4147638	-17.44	3.811744	335	-3.79961	0.000145	0.02987
PLA2G10CP	GTExv8.ALL.Ovary	16	rs12926138	-3.75	rs12926138	-4.09	-3.75206	136	3.6517	0.00026	0.029907429
SMDT1	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	22	rs133308	4.71	rs4147638	-20.7	3.811744	329	-3.8485	0.000119	0.029911311
CYP2D7	GTExv8.ALL.Muscle_Skeletal	22	rs133308	4.71	rs5996109	-6.37	3.818914	346	-3.818914	0.000134	0.029986585
RERE	GTExv8.ALL.Thyroid	1	rs12029088	4.33958	rs301805	-5.81	-3.13835	373	3.73958	0.000184	0.030036757
MRPS9	GTExv8.ALL.Esophagus_Muscularis	2	rs12618715	-4.04	rs12617795	-9.5	-4.032531	476	3.79273	0.000149	0.030054542
PGPEP1L	GTExv8.ALL.Brain_Cerebellum	15	rs2593053	3.84	rs2593053	-5.25	3.83551	579	-3.83551	0.000125	0.030066406
AFF4	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	5	rs803054	5.77	rs708458	5.93	4.03772	369	3.78737	0.000152	0.030087231
CYP2D7	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	22	rs133308	4.71	rs6002623	-12.67	3.804623	349	-3.78914	0.000151	0.030087231
TAF6	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	7	rs12705071	4.25	rs4729568	4.88	-2.715175	243	-3.79157	0.00015	0.030087231
LNPEP	GTExv8.ALL.Adrenal_Gland	5	rs2549782	-4.44	rs2549794	4.22	-4.13448	501	-3.8264	0.00013	0.030117037
SMDT1	GTExv8.ALL.Adrenal_Gland	22	rs133308	4.71	rs4147638	-10.07	3.8117	333	-3.8146	0.000136	0.030117037
TMEM218	GTExv8.ALL.Adrenal_Gland	11	rs7030	-3.53	rs4612816	-3.92	2.92837	494	-3.7994	0.000145	0.030117037
NIP7	GTExv8.ALL.Testis	16	rs9940899	5.18	rs8053471	4.61	4.08053	298	3.77391	0.00016	0.030119015
RHBDL1	GTExv8.ALL.Testis	16	rs1128550	-4.66	rs11640115	7.4	-3.31362	437	-3.77456	0.00016	0.030119015
LINC02950	GTExv8.ALL.Thyroid	8	rs7823056	4.53	rs2976876	-11.26	4.3027	483	-3.7257	0.000195	0.0302
TERF2	GTExv8.ALL.Thyroid	16	rs9940899	5.18	rs3785074	-11.82	3.58743	302	-3.73359	0.000189	0.0302
ZKSCAN1	GTExv8.ALL.Nerve_Tibial	7	rs12705071	4.25	rs4729566	9.78	3.497676	236	3.81825	0.000134	0.030207074
ADCY1	GTExv8.ALL.Spleen	7	rs6961888	-3.73	rs6961888	5	-3.7327	448	-3.805204	0.000142	0.030253091
LIN54	GTExv8.ALL.Spleen	4	rs6842476	-3.87	rs11942255	-6.04	-3.74218	456	3.80156	0.000144	0.030253091
SMDT1	GTExv8.ALL.Spleen	22	rs133308	4.71	rs4147638	-12	3.8117	337	-3.81174	0.000138	0.030253091
CKB	GTExv8.ALL.Nerve_Tibial	14	rs2403197	5.43	rs9324063	-5.52	3.80214	346	-3.80214	0.000143	0.030329339
DUS2	GTExv8.ALL.Nerve_Tibial	16	rs10852440	-3.57	rs1073632	5.43	-2.93173	250	-3.79991	0.000145	0.030329339
NIPAL4	GTExv8.ALL.Nerve_Tibial	5	rs4579242	5.07	rs3734026	10.05	2.48904	518	3.796977	0.000146	0.030329339
SYNM-AS1	GTExv8.ALL.Nerve_Tibial	15	rs2593053	3.84	rs2593053	-9.66	3.83551	542	-3.79544	0.000147	0.030329339
PBX3	GTExv8.ALL.Colon_Transverse	9	rs12341976	-4.62	rs10118570	5.62	-3.70707	383	-3.70707	0.00021	0.030346981
KIF21A	GTExv8.ALL.Breast_Mammary_Tissue	12	rs12230604	-3.97	rs7979329	4.15	-3.71402	331	-3.77	0.000161	0.0303646
ALG1L13P	GTExv8.ALL.Colon_Transverse	8	rs7823056	4.53	rs2980436	6.72	3.58079	340	3.684	0.00023	0.030371897
BTBD2	GTExv8.ALL.Colon_Transverse	19	rs11669527	-3.76	rs12461737	5.66	-2.6464	394	-3.696567	0.000219	0.030371897
DPH1	GTExv8.ALL.Colon_Transverse	17	rs9899468	3.64	rs8065878	8.1	3.36195	462	3.69948	0.000216	0.030371897
TRIM45	GTExv8.ALL.Colon_Transverse	1	rs12118664	3.57	rs7546885	4.69	3.1697	434	3.68881	0.000225	0.030371897
VN1R1	GTExv8.ALL.Colon_Transverse	19	rs6510070	-3.46	rs886336	-6.01	2.9018	484	-3.684092	0.00023	0.030371897
RHBDL1	GTExv8.ALL.Colon_Transverse	16	rs1128550	-4.66	rs1139897	5.78	-3.67927	433	-3.68	0.000234	0.030376373
LINC01569	GTExv8.ALL.Colon_Transverse	16	rs7190602	3.92	rs4785955	-5.22	3.67486	378	-3.67	0.000238	0.0303807
NUDCD2	GTExv8.ALL.Spleen	5	rs213505	3.89	rs213505	-4.84	3.8943	464	-3.79231	0.000149	0.030382853
LINC02950	GTExv8.ALL.Colon_Transverse	8	rs7823056	4.53	rs4841005	3.87	3.43624	482	3.6693	0.000243	0.030510443
NR2E3	GTExv8.ALL.Thyroid	15	rs8040015	4.32	rs11855326	4.75	3.85896	495	3.72	2.00E-04	0.030582278
LUNAR1	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	15	rs2593053	3.84	rs2593053	-8.82	3.83551	555	-3.84	0.000125	0.030736413
KRT18P34	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	3	rs4680340	4	rs1522392	-7.34	3.7578	420	-3.75784	0.000171	0.030744
AFAP1	GTExv8.ALL.Whole_Blood	4	rs6824093	3.54	rs11930623	18.43	-3.36209	733	-3.757731	0.000171	0.030776438
CSNK1G2	GTExv8.ALL.Whole_Blood	19	rs11668090	-3.46	rs3810414	-4.65	-3.17812	378	3.760125	0.00017	0.030776438
CHMP7	GTExv8.ALL.Brain_Cerebellum	8	rs13263101	3.8	rs13263101	-6.43	3.79563	623	-3.795629	0.000147	0.030788
RPL23AP65	GTExv8.ALL.Brain_Cerebellum	11	rs373894	3.8	rs373894	-3.6	3.79528	368	-3.79528	0.000147	0.030788
RPS29P5	GTExv8.ALL.Brain_Cerebellum	1	rs6665385	4.03	rs6665385	-3.93	4.02954	389	-3.79399	0.000148	0.030788
SNTB2	GTExv8.ALL.Brain_Cerebellum	16	rs9940899	5.18	rs9302599	-5.11	3.90745	317	-3.8006	0.000144	0.030788
TSPAN3	GTExv8.ALL.Brain_Cerebellum	15	rs12911362	4.29	rs4886847	-4.6	3.27955	255	-3.79884	0.000145	0.030788
VN1R108P	GTExv8.ALL.Muscle_Skeletal	20	rs2281559	3.93	rs35364051	4.13	3.88619	223	3.80645	0.000141	0.030801786
GSDMA	GTExv8.ALL.Esophagus_Mucosa	17	rs11078934	4.44	rs3902025	5.33	-3.72655	297	-3.78761	0.000152	0.03082498
TMEM170A	GTExv8.ALL.Adrenal_Gland	16	rs8050059	-3.86	rs12933281	-6.05	-3.78217	348	3.78217	0.000155	0.031044286
CYP2D7	GTExv8.ALL.Prostate	22	rs133308	4.71	rs133382	-8.87	3.84393	358	-3.71923	2.00E-04	0.031063459
FAM85B	GTExv8.ALL.Prostate	8	rs7823056	4.53	rs2921060	-4.2	4.04075	323	-3.71749	0.000201	0.031063459
NEK6	GTExv8.ALL.Prostate	9	rs10818940	3.9	rs2282085	-5.66	3.56731	406	-3.69816	0.000217	0.031063459
POLK	GTExv8.ALL.Prostate	5	rs6878990	-3.72	rs12916	4.72	-2.97672	352	-3.71416	0.000204	0.031063459
SH3RF1	GTExv8.ALL.Prostate	4	rs6842644	3.35	rs13139803	3.13	1.58587	378	3.68654	0.000227	0.031063459
XPNPEP3	GTExv8.ALL.Prostate	22	rs133074	-4.01	rs5758168	3.63	-3.13699	278	-3.68631	0.000228	0.031063459
CCNL1	GTExv8.ALL.Esophagus_Mucosa	3	rs4680340	4	rs6799567	-4.08	3.77454	418	-3.774536	0.00016	0.031123434
FAM86B3P	GTExv8.ALL.Esophagus_Mucosa	8	rs7823056	4.53	rs2980437	14.42	3.60945	324	3.76635	0.000166	0.031123434
NPM1	GTExv8.ALL.Esophagus_Mucosa	5	rs29652	-3.59	rs11134696	3.01	-1.78749	407	-3.77189	0.000162	0.031123434
ENPP7P1	GTExv8.ALL.Testis	8	rs7823056	4.53	rs2980436	-9.66	3.58079	285	-3.76164	0.000169	0.031150676
SMAD3	GTExv8.ALL.Adipose_Subcutaneous	15	rs744910	4.78	rs7181556	5.67	-3.87157	559	-3.81217	0.000138	0.031270213
LINC02550	GTExv8.ALL.Colon_Sigmoid	11	rs321358	3.88	rs17537360	8.46	3.72918	469	3.72918	0.000192	0.031305477
RHOA-IT1	GTExv8.ALL.Colon_Sigmoid	3	rs6803222	-3.98	rs9814873	4.28	-3.72864	281	-3.72864	0.000192	0.031305477
SEPTIN7P2	GTExv8.ALL.Colon_Sigmoid	7	rs6961888	-3.73	rs6961888	5.48	-3.7327	404	-3.7327	0.000189	0.031305477
SLMAP	GTExv8.ALL.Colon_Sigmoid	3	rs13066766	-3.86	rs9818221	6.51	-3.7433	365	-3.7433	0.000182	0.031305477
GUCA1C	GTExv8.ALL.Ovary	3	rs7641406	-3.63	rs7641406	7.09	-3.62619	392	-3.62619	0.000288	0.031337514
UST-AS2	GTExv8.ALL.Cells_Cultured_fibroblasts	6	rs1320575	-4.22	rs10457074	5.2	-3.79	568	-3.79029	0.00015	0.03139898
GLYATL1B	GTExv8.ALL.Testis	11	rs565355	4.34	rs11602551	-4.24	-3.78185	350	3.75482	0.000173	0.031425826
BLK	GTExv8.ALL.Brain_Cerebellar_Hemisphere	8	rs2409764	-4.69	rs10088853	-4.43	-3.8307	630	3.72725	0.000194	0.0314862
ZNF19	GTExv8.ALL.Brain_Cortex	16	rs8050058	4.34	rs7187165	-4.13	-2.65497	372	3.76157	0.000169	0.031492094
PHETA2	GTExv8.ALL.Brain_Cortex	22	rs133308	4.71	rs6002621	-5.71	3.8046	339	-3.7524	0.000175	0.03162197
SNORA48	GTExv8.ALL.Adipose_Visceral_Omentum	17	rs3809830	-3.44	rs9913778	-4.65	2.6192	477	-3.71462	0.000204	0.031671927
SNX5	GTExv8.ALL.Adipose_Visceral_Omentum	20	rs6080927	3.74	rs1884708	5.26	3.52056	568	3.714	0.000204	0.031671927
RAB14	GTExv8.ALL.Adipose_Visceral_Omentum	9	rs10985140	-3.49	rs10081760	3.74	-2.71399	414	-3.70816	0.000209	0.031868768
RHOT2	GTExv8.ALL.Artery_Tibial	16	rs1128550	-4.66	rs9937369	-5.26	3.32784	428	-3.78616	0.000153	0.03189132
GULOP	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	8	rs11778040	-5.35	rs7012010	-6.62	-4.07903	615	3.81593	0.000136	0.032047833
AFF4	GTExv8.ALL.Adipose_Subcutaneous	5	rs803054	5.77	rs803224	8.28	4.037191	370	3.79966	0.000145	0.032171875
XRCC3	GTExv8.ALL.Pancreas	14	rs2403197	5.43	rs942863	-4.28	-3.7327	344	3.7327	0.000189	0.0322623
DRAM2	GTExv8.ALL.Lung	1	rs629619	4.20922	rs3762374	15.43	-3.67202	574	-3.76311	0.000168	0.03227562
DSP	GTExv8.ALL.Lung	6	rs2076295	-3.8	rs2076295	-15.14	-3.8	582	3.76171	0.000169	0.03227562
DPH1	GTExv8.ALL.Cells_Cultured_fibroblasts	17	rs9899468	3.64	rs8065878	10.61	3.36	462	3.77864	0.000158	0.03241212
TDH	GTExv8.ALL.Pancreas	8	rs2409764	-4.69	rs4841525	-10.92	-4.13885	638	3.72541	0.000195	0.032474634
BTBD2	GTExv8.ALL.Brain_Cerebellum	19	rs11669527	-3.76	rs11669527	4.87	-3.757682	391	-3.75768	0.000171	0.032477585
CNST	GTExv8.ALL.Brain_Cerebellum	1	rs6677096	-3.91	rs10802432	5.58	2.59542	469	3.75542	0.000173	0.032477585
NIPAL4-DT	GTExv8.ALL.Brain_Cerebellum	5	rs4579242	5.07	rs2161396	-5.7	-0.80042	520	3.77345	0.000161	0.032477585
NOP14-AS1	GTExv8.ALL.Brain_Cerebellum	4	rs624833	-5.05	rs2488809	-3.96	-3.27095	376	3.758775	0.000171	0.032477585
STUB1-DT	GTExv8.ALL.Artery_Tibial	16	rs1128550	-4.66	rs4984915	5.68	-3.39368	425	-3.77592	0.000159	0.032492118
LINC01807	GTExv8.ALL.Adipose_Subcutaneous	2	rs17235156	-3.63	rs6717576	3.41	1.87906	383	3.790892	0.00015	0.032602041
EPHX2	GTExv8.ALL.Uterus	8	rs11778040	-5.35	rs7003694	5.19	-3.8605	635	-3.6881	0.000226	0.032627263
FAM85B	GTExv8.ALL.Artery_Coronary	8	rs7823056	4.53	rs2979151	-5.25	3.1866	323	-3.70697	0.00021	0.032636897
CYP2D7	GTExv8.ALL.Brain_Hippocampus	22	rs133308	4.71	rs742086	4.84	-2.79259	357	-3.7547	0.000174	0.032712
PGS1	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	17	rs4969170	3.58	rs4969170	-5.19	3.57658	486	-3.7036	0.000213	0.032726563
IL18R1	GTExv8.ALL.Adipose_Visceral_Omentum	2	rs2110661	4.1	rs4988955	-6.52	-3.69258	567	3.69258	0.000222	0.032853441
PYGB	GTExv8.ALL.Liver	20	rs2281559	3.93	rs2281559	4.59	3.9265	428	3.7589	0.000171	0.032913429
KRT18P34	GTExv8.ALL.Spleen	3	rs4680340	4	rs1522392	-5.46	3.75784	420	-3.75784	0.000171	0.03293175
ERI1	GTExv8.ALL.Esophagus_Mucosa	8	rs1562211	4.79	rs2288671	-4.58	4.20729	694	-3.74648	0.000179	0.032939315
DENND2D	GTExv8.ALL.Ovary	1	rs629619	4.209	rs630505	6.88	3.8841	561	3.6061	0.000311	0.032949632
CYP2D8P	GTExv8.ALL.Pituitary	22	rs133308	4.71	rs742086	6.68	-2.792587	358	-3.848658	0.000119	0.032973348
ALG1L11P	GTExv8.ALL.Brain_Hippocampus	8	rs7459983	-3.55	rs4841662	3.79	3.44627	207	3.7222	0.000197	0.033168571
COA8	GTExv8.ALL.Brain_Hippocampus	14	rs2403197	5.43	rs7154948	5.82	-3.70218	359	-3.7022	0.000214	0.033168571
DRAM2	GTExv8.ALL.Brain_Hippocampus	1	rs629619	4.21	rs3762374	8.53	-3.67202	573	-3.66493	0.000247	0.033168571
FAM167A	GTExv8.ALL.Brain_Hippocampus	8	rs2409764	-4.69	rs12115021	4.86	-1.87424	625	-3.6899	0.000224	0.033168571
KRT18P34	GTExv8.ALL.Brain_Hippocampus	3	rs4680340	4	rs4680340	-5.43	3.998915	421	-3.72627	0.000194	0.033168571
PHACTR4	GTExv8.ALL.Brain_Hippocampus	1	rs2236861	3.51	rs10751728	-5	3.3563	280	-3.69304	0.000222	0.033168571
PHETA2	GTExv8.ALL.Brain_Hippocampus	22	rs133308	4.71	rs2070116	-3.51	4.33622	339	-3.6743	0.000238	0.033168571
PVRIG	GTExv8.ALL.Brain_Hippocampus	7	rs12705071	4.25	rs1617502	6.78	3.44429	275	3.67052	0.000242	0.033168571
CHIT1	GTExv8.ALL.Adipose_Subcutaneous	1	rs12749310	-3.843	rs2486070	-4.03	1.258492	487	-3.77735	0.000159	0.033202941
LINC01569	GTExv8.ALL.Brain_Hypothalamus	16	rs7190602	3.92	rs4785955	-4.7	3.6749	381	-3.6749	0.000238	0.033223037
LINC02550	GTExv8.ALL.Adrenal_Gland	11	rs321358	3.88	rs6589210	6.36	3.51728	469	3.75727	0.000172	0.033261241
RPL10P19	GTExv8.ALL.Adipose_Visceral_Omentum	8	rs1562211	4.79	rs6981573	8.43	3.238623	709	3.67921	0.000234	0.0333021
DNAH17	GTExv8.ALL.Lung	17	rs4969170	3.58	rs2271613	-5.85	3.522953	531	-3.74885	0.000178	0.033327882
FBXO38	GTExv8.ALL.Nerve_Tibial	5	rs7735184	-4.64	rs17704764	-4.13	-1.29639	438	3.76757	0.000165	0.03347575
CYP2D7	GTExv8.ALL.Brain_Amygdala	22	rs133308	4.71	rs5758566	-5.89	3.802132	356	-3.8021	0.000143	0.033761143
DEFB131E	GTExv8.ALL.Brain_Amygdala	8	rs10903340	4.18	rs2618443	4.14	3.90989	316	3.9099	9.23E-05	0.033761143
ERAP2	GTExv8.ALL.Brain_Amygdala	5	rs2549782	-4.44	rs2762	8.97	-4.04793	503	-4.047929	5.17E-05	0.033761143
FAM167A	GTExv8.ALL.Brain_Amygdala	8	rs2409764	-4.69	rs7016361	4.76	-3.95996	625	-3.7971	0.000146	0.033761143
KRT18P34	GTExv8.ALL.Brain_Amygdala	3	rs4680340	4	rs1403104	-5.73	3.786	419	-3.786	0.000153	0.033761143
MRPS9	GTExv8.ALL.Brain_Amygdala	2	rs12618715	-4.04	rs12620928	-5.1	-3.02701	477	3.82653	0.00013	0.033761143
NAGA	GTExv8.ALL.Brain_Amygdala	22	rs133308	4.71	rs5751204	-5.15	3.760135	338	-3.7601	0.00017	0.033761143
PVRIG	GTExv8.ALL.Brain_Amygdala	7	rs12705071	4.25	rs2950520	6.6	3.8834	276	3.8834	0.000103	0.033761143
SMDT1	GTExv8.ALL.Brain_Amygdala	22	rs133308	4.71	rs5751204	-6.11	3.760135	338	-3.7601	0.00017	0.033761143
ZSCAN21	GTExv8.ALL.Brain_Amygdala	7	rs12705071	4.25	rs1527423	4.22	-3.3213	267	-3.8376	0.000124	0.033761143
ALG1L11P	GTExv8.ALL.Brain_Frontal_Cortex_BA9	8	rs7459983	-3.55	rs6601649	-4.63	-2.77222	207	3.6573	0.000255	0.033784054
TMEM14A	GTExv8.ALL.Adipose_Subcutaneous	6	rs569275	-4.03	rs578078	3.82	-3.69	572	-3.7679	0.000165	0.033793269
SKIC8	GTExv8.ALL.Heart_Atrial_Appendage	15	rs16969968	18.19	rs9806257	-4.33	3.71165	397	-3.71165	0.000206	0.033797435
CYP2D7	GTExv8.ALL.Pancreas	22	rs133308	4.71	rs1801311	-8.71	3.790303	354	-3.70948	0.000208	0.033814857
LEPR	GTExv8.ALL.Adipose_Visceral_Omentum	1	rs2025803	-3.79	rs2025805	-6.68	-3.73544	455	3.67032	0.000242	0.033876033
PDLIM4	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	5	rs803054	5.77	rs4705928	-10.26	-3.87858	390	3.795658	0.000147	0.033933
PRAG1	GTExv8.ALL.Testis	8	rs7823056	4.53	rs2979151	-6.27	3.1866	439	-3.72743	0.000193	0.034071296
LINC01569	GTExv8.ALL.Brain_Putamen_basal_ganglia	16	rs7190602	3.92	rs417083	4.43	-2.7499	381	-3.74162	0.000183	0.0340746
DRAM2	GTExv8.ALL.Colon_Transverse	1	rs629619	4.21	rs3762374	11.81	-3.672	572	-3.63638	0.000276	0.034094903
FAM85B	GTExv8.ALL.Brain_Substantia_nigra	8	rs7823056	4.53	rs2980436	-6.55	3.5808	323	-3.7505	0.000176	0.034198154
SMG1P5	GTExv8.ALL.Brain_Hippocampus	16	rs6565176	3.34	rs11865086	-3.89	-3.14926	209	3.6483	0.000264	0.034228966
NAGA	GTExv8.ALL.Colon_Transverse	22	rs133308	4.71	rs133367	-7.64	3.63088	331	-3.63	0.000282	0.034283143
LIPE	GTExv8.ALL.Lung	19	rs7253209	3.63	rs13346092	5.54	3.34553	124	3.736248	0.000187	0.034339673
CHRD	GTExv8.ALL.Ovary	3	rs6443999	3.33	rs6443999	3.26	3.32949	509	3.57692	0.000348	0.034368293
FAM86B3P	GTExv8.ALL.Nerve_Tibial	8	rs7823056	4.53	rs2945251	5.91	3.62183	323	3.75496	0.000173	0.034393556
RHOT2	GTExv8.ALL.Nerve_Tibial	16	rs1128550	-4.66	rs12599342	-7.25	3.31951	431	-3.7509	0.000176	0.034393556
KRT18P34	GTExv8.ALL.Adrenal_Gland	3	rs4680340	4	rs16827322	-4.51	3.73961	422	-3.73961	0.000184	0.034395733
DEFB131E	GTExv8.ALL.Colon_Transverse	8	rs10903340	4.18	rs11998678	4.67	3.43456	314	3.6257	0.000288	0.0344655
PIGQ	GTExv8.ALL.Colon_Transverse	16	rs1128550	-4.66	rs34409359	-4.83	-3.61623	457	3.62	0.000297	0.0344655
SLC37A3	GTExv8.ALL.Colon_Transverse	7	rs4236488	3.46	rs3936105	-8.03	3.186369	436	-3.61939	0.000295	0.0344655
SMDT1	GTExv8.ALL.Muscle_Skeletal	22	rs133308	4.71	rs6002621	-16.36	3.804623	327	-3.77213	0.000162	0.034566279
SLC15A4	GTExv8.ALL.Cells_Cultured_fibroblasts	12	rs10847697	4.65	rs12305142	7.76	4.62239	704	3.74765	0.000179	0.034641566
TIE1	GTExv8.ALL.Cells_Cultured_fibroblasts	1	rs1199039	-4.40081	rs11210860	3.76	-2.548353	457	-3.753399	0.000174	0.034641566
ZNF19	GTExv8.ALL.Cells_Cultured_fibroblasts	16	rs8050058	4.34	rs2288486	-4	-3.00725	372	3.75157	0.000176	0.034641566
CYP2D7	GTExv8.ALL.Brain_Hypothalamus	22	rs133308	4.71	rs4147638	-5.92	3.811744	357	-3.6408	0.000272	0.0346748
DPH1	GTExv8.ALL.Brain_Hypothalamus	17	rs9899468	3.64	rs9899468	3.71	3.64298	469	3.64298	0.00027	0.0346748
DRAM2	GTExv8.ALL.Brain_Hypothalamus	1	rs629619	4.21	rs3762374	7.36	-3.67202	573	-3.63731	0.000276	0.0346748
RHBDL1	GTExv8.ALL.Adipose_Visceral_Omentum	16	rs1128550	-4.66	rs34409359	7.91	-3.63938	428	-3.65612	0.000256	0.034698159
METTL26	GTExv8.ALL.Small_Intestine_Terminal_Ileum	16	rs1128550	-4.66	rs1139897	5.28	-3.6793	458	-3.6793	0.000234	0.0348075
APEH	GTExv8.ALL.Adipose_Visceral_Omentum	3	rs6803222	-3.98	rs3811699	5.04	-3.762275	321	-3.651263	0.000261	0.034823109
TRPT1	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	11	rs11231727	3.41	rs11603042	7.89	-2.79354	342	-3.68143	0.000232	0.034918367
PEAK1	GTExv8.ALL.Small_Intestine_Terminal_Ileum	15	rs8035384	5.09	rs4886874	-4.92	-2.09794	321	3.66815	0.000244	0.035043448
NUDCD2	GTExv8.ALL.Colon_Sigmoid	5	rs213505	3.89	rs299286	-4.5	3.87863	464	-3.69331	0.000221	0.035050506
COL28A1	GTExv8.ALL.Minor_Salivary_Gland	7	rs10257694	-3.7	rs3779375	-3.71	-3.437655	712	3.67095	0.000242	0.035072917
EPHX2	GTExv8.ALL.Minor_Salivary_Gland	8	rs11778040	-5.35	rs17057310	4.9	-3.90844	635	-3.6841	0.00023	0.035072917
FAM183BP	GTExv8.ALL.Minor_Salivary_Gland	7	rs11763728	3.76	rs9987012	3.42	-3.23576	545	-3.66271	0.00025	0.035072917
FAM85B	GTExv8.ALL.Minor_Salivary_Gland	8	rs7823056	4.53	rs2945230	-4.92	3.29431	321	-3.6719	0.000241	0.035072917
PDLIM4	GTExv8.ALL.Minor_Salivary_Gland	5	rs803057	5.89	rs2136187	4.77	3.5229	403	3.6667	0.000246	0.035072917
SMDT1	GTExv8.ALL.Minor_Salivary_Gland	22	rs133308	4.71	rs6002616	-9.04	3.81149	339	-3.6858	0.000228	0.035072917
WDR90	GTExv8.ALL.Minor_Salivary_Gland	16	rs1128550	-4.66	rs1139897	5.43	-3.67927	452	-3.6793	0.000234	0.035072917
GLYATL1B	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	11	rs565355	4.34	rs525589	-4.7	-3.68447	352	3.69965	0.000216	0.035136
SLC25A18	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	22	rs4819639	3.91	rs4269007	-3.46	-1.385425	584	3.69918	0.000216	0.035136
NEK6	GTExv8.ALL.Thyroid	9	rs10818940	3.9	rs7853472	-11.73	3.39968	397	-3.68062	0.000233	0.035183
DRAM2	GTExv8.ALL.Colon_Sigmoid	1	rs629619	4.209	rs3762374	12.54	-3.67202	574	-3.68692	0.000227	0.035219543
DRAM2	GTExv8.ALL.Brain_Putamen_basal_ganglia	1	rs629619	4.209	rs3762374	8.73	-3.67202	573	-3.71312	0.000205	0.035222833
PGAP3	GTExv8.ALL.Brain_Putamen_basal_ganglia	17	rs11078934	4.44	rs2517956	4.95	3.702844	319	3.686912	0.000227	0.035222833
RELL2	GTExv8.ALL.Brain_Putamen_basal_ganglia	5	rs251018	-3.78	rs251018	-3.87	-3.7759	527	3.6923	0.000222	0.035222833
TRMT61A	GTExv8.ALL.Brain_Putamen_basal_ganglia	14	rs2403197	5.43	rs7154948	4.94	-3.70218	358	-3.702178	0.000214	0.035222833
DRAM2	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	1	rs629619	4.21	rs3762374	7.94	-3.67202	573	-3.672016	0.000241	0.03545592
FAM86B3P	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	8	rs7823056	4.53	rs2945230	-7.83	3.2943	327	-3.67624	0.000237	0.03545592
NAGA	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	22	rs133308	4.71	rs6002609	-6.1	3.816996	338	-3.6747	0.000238	0.03545592
NDUFA6-DT	GTExv8.ALL.Adrenal_Gland	22	rs133308	4.71	rs5751221	6.18	-2.2742	340	-3.7237	0.000196	0.035457032
PRDM6	GTExv8.ALL.Thyroid	5	rs4836001	3.72	rs4349713	-5.63	-1.62983	420	3.68	0.000238	0.035494321
MED8	GTExv8.ALL.Brain_Spinal_cord_cervical_c-1	1	rs1199039	-4.4	rs11587504	4.29	-4.2732	457	-4.0393	5.36E-05	0.0355368
IL18R1	GTExv8.ALL.Stomach	2	rs2110661	4.1	rs4988955	-5.57	-3.69258	568	3.69553	0.000219	0.035537189
ATP2C1	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	3	rs2037178	4.08	rs17329848	4.83	3.55048	384	3.7289	0.000192	0.035539862
RMDN3	GTExv8.ALL.Brain_Cerebellum	15	rs4924514	3.87	rs4924514	3.6	3.86802	309	3.72682	0.000194	0.03555281
ZNF19	GTExv8.ALL.Adrenal_Gland	16	rs8050058	4.34	rs12925901	-4.11	-3.71468	372	3.71468	0.000203	0.035557575
GSDMA	GTExv8.ALL.Minor_Salivary_Gland	17	rs11078934	4.44	rs3859192	-6.78	3.6472	296	-3.65	0.000265	0.03556902
FAM86B3P	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	8	rs7823056	4.53	rs2945251	5.19	3.6218	324	3.6707	0.000242	0.035695
DHX32	GTExv8.ALL.Artery_Aorta	10	rs10901530	-3.8	rs7358157	-7.33	-3.2994	597	3.7278	0.000193	0.035776
DRAM2	GTExv8.ALL.Artery_Aorta	1	rs629619	4.209	rs11102212	13.17	-3.47883	574	-3.72319	0.000197	0.035776
FAM182B	GTExv8.ALL.Artery_Aorta	20	rs6132864	3.92	rs11697535	5.96	3.6398	169	3.7155	0.000203	0.035776
LINC01569	GTExv8.ALL.Artery_Aorta	16	rs7190602	3.92	rs4786480	-4.37	3.71347	381	-3.71347	0.000204	0.035776
LINC02550	GTExv8.ALL.Artery_Aorta	11	rs321358	3.88	rs6589210	8.81	3.517281	469	3.70907	0.000208	0.035776
TSPAN3	GTExv8.ALL.Artery_Aorta	15	rs12911362	4.29	rs4886509	-4.8	3.38664	255	-3.73163	0.00019	0.035776
SLC37A3	GTExv8.ALL.Muscle_Skeletal	7	rs4236488	3.46	rs3936105	-6.91	3.186369	417	-3.757479	0.000172	0.035865909
ADAMTSL3	GTExv8.ALL.Artery_Aorta	15	rs2585064	-4.78	rs2562785	-7.62	-4.77254	334	3.70067	0.000215	0.035888462
KCNE2	GTExv8.ALL.Artery_Aorta	21	rs2834435	3.7	rs16991453	4.48	3.6982	445	3.69815	0.000217	0.035888462
USP22	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	17	rs1045162	-3.74	rs1045162	3.98	-3.73915	215	-3.73915	0.000185	0.035928396
GRK4	GTExv8.ALL.Colon_Sigmoid	4	rs624833	-5.05	rs2960306	-11.65	-4.27056	386	3.6755	0.000237	0.035988702
CCDC150	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	2	rs10804080	-4.37	rs1533661	-4.25	-3.68157	408	3.6816	0.000232	0.036023273
VN1R108P	GTExv8.ALL.Brain_Putamen_basal_ganglia	20	rs2281559	3.93	rs2227891	4.33	3.8982	223	3.67258	0.00024	0.0360387
LAT	GTExv8.ALL.Colon_Transverse	16	rs12926138	-3.75	rs9929088	4.67	2.51216	180	3.6	0.000317	0.036042353
SMIM19	GTExv8.ALL.Colon_Transverse	8	rs13280604	-4.87	rs2923428	12.36	3.47853	256	3.5988	0.000319	0.036042353
GOLGA6L5P	GTExv8.ALL.Colon_Sigmoid	15	rs11635160	3.39	rs150968	10.57	2.93584	316	3.66954	0.000243	0.036131063
CHRNA2	GTExv8.ALL.Whole_Blood	8	rs11778040	-5.35	rs2565059	4.99	-2.47114	635	-3.71296	0.000205	0.036142755
COA8	GTExv8.ALL.Adrenal_Gland	14	rs2403197	5.43	rs7154948	6.06	-3.702178	358	-3.70218	0.000214	0.03636703
FAM66A	GTExv8.ALL.Testis	8	rs7459983	-3.55	rs12550733	-7.12	-2.79681	175	3.70774	0.000209	0.036383417
HHIP-AS1	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	4	rs1512288	-5.57	rs4835180	5.62	-4.47986	253	-3.73038	0.00019	0.036406722
RHBDL1	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	16	rs1128550	-4.66	rs4984683	5.18	-3.29421	428	-3.725553	0.000195	0.036493364
SMYD2	GTExv8.ALL.Adipose_Visceral_Omentum	1	rs1472444	-3.64	rs3013444	-5.04	-3.63469	547	3.63469	0.000278	0.036520646
ENPP7P12	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	8	rs7459983	-3.55	rs12676145	5.1	3.47038	200	3.76705	0.000165	0.036594412
NEK6	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	9	rs10818940	3.9	rs10760344	-6.79	3.76909	393	-3.76685	0.000165	0.036594412
DRAM2	GTExv8.ALL.Vagina	1	rs629619	4.21	rs3762374	6.83	-3.672	573	-3.672	0.000241	0.036640421
SLC37A3	GTExv8.ALL.Vagina	7	rs4236488	3.46	rs10237118	-4.04	0.29214	435	-3.65316	0.000259	0.036640421
TAF6	GTExv8.ALL.Vagina	7	rs12705071	4.25	rs3735242	-3.89	3.50915	274	-3.64805	0.000264	0.036640421
WDR90	GTExv8.ALL.Vagina	16	rs1128550	-4.66	rs1139897	4.29	-3.67927	453	-3.67736	0.000236	0.036640421
TNKS	GTExv8.ALL.Brain_Nucleus_accumbens_basal_ganglia	8	rs483916	4.19	rs6990300	-4.1	3.11872	598	-3.7131	0.000205	0.036681333
FAM85B	GTExv8.ALL.Brain_Hippocampus	8	rs7823056	4.53	rs2980436	-8.25	3.58079	323	-3.6121	0.000304	0.036872258
FAM86B3P	GTExv8.ALL.Brain_Hippocampus	8	rs7823056	4.53	rs2945230	-5.9	3.29431	327	-3.6135	0.000302	0.036872258
LINC02550	GTExv8.ALL.Esophagus_Mucosa	11	rs321358	3.88	rs6589210	7.35	3.51728	469	3.7085	0.000208	0.036908857
SLMAP	GTExv8.ALL.Esophagus_Mucosa	3	rs13066766	-3.86	rs6796752	4.76	-3.70976	365	-3.709763	0.000207	0.036908857
GSDMA	GTExv8.ALL.Kidney_Cortex	17	rs11078934	4.44	rs3859192	-5.22	3.6472	298	-3.6472	0.000265	0.036941
FLNB-AS1	GTExv8.ALL.Artery_Tibial	3	rs13066766	-3.86	rs6445954	-5.46	-1.881939	445	3.73834	0.000185	0.037056
LINC02550	GTExv8.ALL.Testis	11	rs321358	3.88	rs6589210	4.23	3.51728	469	3.69992	0.000216	0.037086904
URB1	GTExv8.ALL.Adrenal_Gland	21	rs12626504	2.96	rs7278489	3.75	1.91053	485	3.68874	0.000225	0.037111765
PHACTR4	GTExv8.ALL.Whole_Blood	1	rs2236861	3.51	rs2840758	-10.65	3.48159	268	-3.69949	0.000216	0.03732048
DRAM2	GTExv8.ALL.Thyroid	1	rs629619	4.20922	rs3762374	15.87	-3.67202	573	-3.65502	0.000257	0.037404337
ENPP7P12	GTExv8.ALL.Thyroid	8	rs7459983	-3.55	rs11998678	4.81	3.4346	205	3.65864	0.000254	0.037404337
FAM85B	GTExv8.ALL.Brain_Putamen_basal_ganglia	8	rs7823056	4.53	rs2948286	-7.11	3.83756	323	-3.65393	0.000258	0.037530938
PPP1R13B	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	14	rs2403197	5.43	rs12891477	-6.57	4.24074	325	-3.75117	0.000176	0.037561057
SLC22A4	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	5	rs803054	5.77	rs274559	5.7	3.37743	389	3.754994	0.000173	0.037561057
METTL26	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	16	rs1128550	-4.66	rs1139897	9.18	-3.67927	447	-3.74597	0.00018	0.037703333
DHODH	GTExv8.ALL.Pituitary	16	rs8050058	4.34	rs4788605	-4.78	3.80513	369	-3.80513	0.000142	0.037706917
BCAR1	GTExv8.ALL.Artery_Tibial	16	rs8050059	-3.86	rs12933281	-10.05	-3.78217	374	3.72022	0.000199	0.037708691
DEFB131E	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	8	rs10903340	4.18	rs4240678	-5.09	-3.2502	314	3.6419	0.000271	0.037709906
DRAM2	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	1	rs629619	4.21	rs3762374	11.54	-3.67202	574	-3.64339	0.000269	0.037709906
UBASH3B	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	11	rs11607161	-3.21	rs6589937	5.44	-3.20074	495	-3.64265	0.00027	0.037709906
GSDMB	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	17	rs11078934	4.44	rs8067378	6.58	3.636624	289	3.636624	0.000276	0.03771264
METTL26	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	16	rs1128550	-4.66	rs34409359	5.09	-3.651	460	-3.65096	0.000261	0.03771264
ORMDL3	GTExv8.ALL.Cells_EBV-transformed_lymphocytes	17	rs11078934	4.44	rs8067378	8.75	3.636624	291	3.63662	0.000276	0.03771264
DRAM2	GTExv8.ALL.Uterus	1	rs629619	4.21	rs3762374	6.44	-3.67202	570	-3.63645	0.000276	0.0378534
LINC02550	GTExv8.ALL.Cells_Cultured_fibroblasts	11	rs321358	3.88	rs6589210	9.26	3.51728	468	3.71492	0.000203	0.037857655
TRIM38	GTExv8.ALL.Cells_Cultured_fibroblasts	6	rs16891359	-5.04	rs10425	5.23	0.944	657	3.71936	2.00E-04	0.037857655
ATP2C1	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	3	rs2037178	4.08	rs16835460	-5.58	3.582065	366	-3.707481	0.000209	0.037882873
FBXL16	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	16	rs1128550	-4.66	rs12599342	-4.21	3.31951	444	-3.72804	0.000193	0.037882873
GLYATL1	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	11	rs565355	4.34	rs503591	-4.03	3.70807	331	-3.708066	0.000209	0.037882873
HEXA	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	15	rs28368570	3.96	rs16956783	-5.74	-3.17318	246	3.71	0.000207	0.037882873
SMG1P5	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	16	rs6565176	3.34	rs6565176	-12.94	3.34051	209	-3.71072	0.000207	0.037882873
SYNM-AS1	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	15	rs2593053	3.84	rs2593053	-7.61	3.83551	536	-3.74	0.000184	0.037882873
TOMIL1	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	17	rs4794538	3.5	rs7226272	-4.3	-2.52224	475	3.70566	0.000211	0.037882873
DRAM2	GTExv8.ALL.Artery_Coronary	1	rs629619	4.21	rs3762374	8.47	-3.67202	574	-3.64226	0.00027	0.038027813
GSDMA	GTExv8.ALL.Artery_Coronary	17	rs11078934	4.44	rs3859192	-10.26	3.6472	296	-3.6472	0.000265	0.038027813
GUCA1C	GTExv8.ALL.Brain_Cortex	3	rs7641406	-3.63	rs7641406	5.38	-3.62619	393	-3.6983	0.000217	0.038057971
DRAM2	GTExv8.ALL.Stomach	1	rs629619	4.21	rs3762374	10.76	-3.672016	574	-3.67202	0.000241	0.038078
FAM66A	GTExv8.ALL.Brain_Caudate_basal_ganglia	8	rs7459983	-3.55	rs11250186	-7.48	-2.7336	175	3.59565	0.000324	0.038084087
DRAM2	GTExv8.ALL.Brain_Cerebellar_Hemisphere	1	rs629619	4.21	rs3762374	9.4	-3.67202	573	-3.67202	0.000241	0.038160293
HMG20A	GTExv8.ALL.Brain_Cerebellar_Hemisphere	15	rs8035384	5.09	rs11639314	-3.7	3.17115	326	-3.66303	0.000249	0.038197116
MTCYBP28	GTExv8.ALL.Brain_Cerebellar_Hemisphere	16	rs16956576	3.51	rs9940865	-3.45	3.20303	715	-3.6593	0.000253	0.038197116
SMG6	GTExv8.ALL.Adipose_Subcutaneous	17	rs9899468	3.64	rs9899468	3.44	3.642979	405	3.72672	0.000194	0.038261111
AP4M1	GTExv8.ALL.Adrenal_Gland	7	rs12705071	4.25	rs4729577	7.9	-2.89988	262	-3.6669	0.000246	0.038321333
STUB1	GTExv8.ALL.Adipose_Subcutaneous	16	rs1128550	-4.66	rs11642546	5.13	-3.75848	428	-3.7176	0.000201	0.038416071
NSMAF	GTExv8.ALL.Artery_Aorta	8	rs1050488	-3.6	rs6981601	-4.87	-3.55303	525	3.67596	0.000237	0.038456604
RMDN2-AS1	GTExv8.ALL.Adipose_Subcutaneous	2	rs4670233	-5.14	rs2855658	4.05	-4.625886	584	-3.710109	0.000207	0.038676316
GSDMA	GTExv8.ALL.Adrenal_Gland	17	rs11078934	4.44	rs3859192	-10.25	3.6472	297	-3.6472	0.000265	0.038680821
PMS2P1	GTExv8.ALL.Adrenal_Gland	7	rs12705071	4.25	rs34919929	3.74	2.81928	299	3.6436	0.000269	0.038680821
LINC02550	GTExv8.ALL.Artery_Tibial	11	rs321358	3.88	rs7111445	13.77	3.69419	465	3.70954	0.000208	0.038710286
CYP2D7	GTExv8.ALL.Thyroid	22	rs133308	4.71	rs1801311	-15.3	3.790303	352	-3.642422	0.00027	0.038828571
CFDP1	GTExv8.ALL.Brain_Cerebellum	16	rs8050059	-3.86	rs2161684	6.34	-3.77673	346	-3.6959	0.000219	0.038834864
RAB40C	GTExv8.ALL.Brain_Cerebellum	16	rs1128550	-4.66	rs4984902	4.83	-3.03942	467	-3.6926	0.000222	0.038834864
GRK4	GTExv8.ALL.Brain_Hippocampus	4	rs624833	-5.05	rs2471336	-5.36	-3.3299	385	3.58931	0.000332	0.03901
DNAH17	GTExv8.ALL.Testis	17	rs4969170	3.58	rs691094	-3.74	2.841503	533	-3.67354	0.000239	0.039029924
FAM85B	GTExv8.ALL.Testis	8	rs7823056	4.53	rs2980436	-12.44	3.58079	323	-3.66959	0.000243	0.039029924
HTRA1	GTExv8.ALL.Testis	10	rs2284665	3.729	rs10490924	6.69	3.63007	615	3.6669	0.000246	0.039029924
SDC4P	GTExv8.ALL.Testis	22	rs8141318	-3.77	rs9608941	10.08	-3.677171	439	-3.67717	0.000236	0.039029924
TMCC2	GTExv8.ALL.Testis	1	rs11240302	3.69	rs2305277	3.53	2.0784	581	3.66637	0.000246	0.039029924
ZPBP2	GTExv8.ALL.Testis	17	rs11078934	4.44	rs2305480	-8.86	-3.838139	289	3.67057	0.000242	0.039029924
TRPT1	GTExv8.ALL.Stomach	11	rs11231727	3.41	rs599549	-5.41	2.10941	343	-3.65821	0.000254	0.039102974
COA8	GTExv8.ALL.Brain_Amygdala	14	rs2403197	5.43	rs7154948	4.57	-3.7022	360	-3.7022	0.000214	0.0392048
SLC15A4	GTExv8.ALL.Muscle_Skeletal	12	rs10847697	4.65	rs12305142	6.04	4.62	699	3.72856	0.000193	0.039350556
RPL10P19	GTExv8.ALL.Colon_Transverse	8	rs1562211	4.79	rs6981573	8.73	3.23862	712	3.5716	0.000355	0.039405
NEK6	GTExv8.ALL.Lung	9	rs10818940	3.9	rs12379417	-5.09	3.48516	399	-3.69173	0.000223	0.039433533
WDR24	GTExv8.ALL.Artery_Tibial	16	rs1128550	-4.66	rs4984907	4.14	-3.8832	427	-3.6998	0.000216	0.039493895
LAMB2P1	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	3	rs6803222	-3.98	rs9875617	4.23	-3.72147	258	-3.61697	0.000298	0.039508929
LEPR	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	1	rs2025803	-3.79	rs17412368	-4.86	-3.7175	454	3.61554	3.00E-04	0.039508929
STAG3	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	7	rs12705071	4.25	rs11771331	4.73	3.504182	247	3.701038	0.000215	0.039517768
LINC01569	GTExv8.ALL.Whole_Blood	16	rs7190602	3.92	rs4785955	-5.67	3.67486	369	-3.674858	0.000238	0.039540038
PHLPP2	GTExv8.ALL.Whole_Blood	16	rs8050058	4.34	rs9929840	3.9	-2.25788	438	-3.67545	0.000237	0.039540038
CALHM5	GTExv8.ALL.Cells_Cultured_fibroblasts	6	rs6904837	3.56	rs6904837	-5.07	3.56	369	-3.69827	0.000217	0.039745875
CPEB3	GTExv8.ALL.Esophagus_Mucosa	10	rs1589067	4.39	rs1099379	5.88	-2.55998	305	-3.68533	0.000228	0.039748
IQCH	GTExv8.ALL.Ovary	15	rs744910	4.78	rs11071949	-4.18	-2.03668	481	3.5306	0.000415	0.039780714
FLNB-AS1	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	3	rs13066766	-3.86	rs2686634	-4.55	3.2212	451	3.60848	0.000308	0.039850877
SEMA3E	GTExv8.ALL.Lung	7	rs17157685	-3.93	rs17157685	7.52	-3.92762	508	-3.683109	0.00023	0.039932182
GSDMA	GTExv8.ALL.Heart_Atrial_Appendage	17	rs11078934	4.44	rs3859192	-11.7	3.6472	298	-3.647197	0.000265	0.039954706
LINC03022	GTExv8.ALL.Heart_Atrial_Appendage	8	rs7837979	4.32	rs4841339	-4.16	-1.91077	708	3.643806	0.000269	0.039954706
METTL26	GTExv8.ALL.Heart_Atrial_Appendage	16	rs1128550	-4.66	rs4984907	7.65	-3.8832	447	-3.65968	0.000253	0.039954706
RPL10P19	GTExv8.ALL.Heart_Atrial_Appendage	8	rs1562211	4.79	rs3827806	5.59	2.55173	711	3.651337	0.000261	0.039954706
SPINK9	GTExv8.ALL.Heart_Atrial_Appendage	5	rs7735184	-4.64	rs1368390	3.37	-1.27157	436	-3.64274	0.00027	0.039954706
PPA2	GTExv8.ALL.Stomach	4	rs3960769	-5.17	rs1994636	-4.59	-1.92646	400	3.64562	0.000267	0.0400767
CEPT1	GTExv8.ALL.Whole_Blood	1	rs629619	4.21	rs9970286	8.95	-3.56853	571	-3.6658	0.000247	0.040261
SLC35G5	GTExv8.ALL.Esophagus_Mucosa	8	rs2409764	-4.69	rs2572371	-6.65	3.19197	635	-3.67825	0.000235	0.040261963
CTBP2	GTExv8.ALL.Brain_Cerebellum	10	rs10901850	4.25	rs2363893	5.26	-3.63937	498	-3.67705	0.000236	0.040366489
IL1RN	GTExv8.ALL.Adipose_Subcutaneous	2	rs10181720	-3.77	rs6734238	-4.76	2.911912	468	-3.69518	0.00022	0.040396552
NOP14-AS1	GTExv8.ALL.Brain_Substantia_nigra	4	rs624833	-5.05	rs2301376	-4.25	1.7394	375	-3.6902	0.000224	0.040416
WDR24	GTExv8.ALL.Stomach	16	rs1128550	-4.66	rs1139897	4.25	-3.6793	440	-3.636849	0.000276	0.040417171
CASTOR3P	GTExv8.ALL.Brain_Frontal_Cortex_BA9	7	rs12705071	4.25	rs2285886	-3.48	-1.35317	248	3.59678	0.000322	0.040472923
EXOSC3P2	GTExv8.ALL.Brain_Cerebellum	19	rs8112157	3.67	rs8112157	-4.44	3.670994	432	-3.67099	0.000242	0.040492913
HHIP-AS1	GTExv8.ALL.Nerve_Tibial	4	rs1512288	-5.57	rs11727583	-6.99	3.86758	247	-3.69504	0.00022	0.040576667
BCAR1	GTExv8.ALL.Artery_Aorta	16	rs8050059	-3.86	rs12933281	-8.97	-3.78217	376	3.65701	0.000255	0.040611111
GAPDHP63	GTExv8.ALL.Brain_Hypothalamus	6	rs9350823	-4.59	rs9359390	3.55	-4.22	466	-3.58627	0.000335	0.040729516
ABLIM3	GTExv8.ALL.Artery_Tibial	5	rs9325132	-4.64	rs10491337	-3.82	2.78967	525	-3.682348	0.000231	0.04080478
CNTRL	GTExv8.ALL.Artery_Tibial	9	rs10985140	-3.49	rs2039144	4.09	-2.25	375	-3.6846	0.000229	0.04080478
ADD1	GTExv8.ALL.Lung	4	rs624833	-5.05	rs1263360	5.69	3.2913	382	3.652716	0.000259	0.040814274
GSDMA	GTExv8.ALL.Lung	17	rs11078934	4.44	rs3859192	-15.37	3.647197	297	-3.647197	0.000265	0.040814274
LINC02289	GTExv8.ALL.Lung	14	rs17105232	4.66	rs2160664	-7.99	3.35864	545	-3.6638	0.000249	0.040814274
RMDN2-AS1	GTExv8.ALL.Lung	2	rs4670233	-5.14	rs336031	4.43	-5.031	584	-3.647326	0.000265	0.040814274
TPRA1	GTExv8.ALL.Lung	3	rs1900674	3.27	rs920233	-5.85	1.885327	465	-3.67064	0.000242	0.040814274
TSPYL1	GTExv8.ALL.Lung	6	rs13212974	-3.71	rs1041883	-6.21	-2.6	376	3.6525	0.00026	0.040814274
LINC02550	GTExv8.ALL.Ovary	11	rs321358	3.88	rs6589210	7.02	3.5173	469	3.51728	0.000436	0.040821767
FAM85B	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	8	rs7823056	4.53	rs2945230	-5.62	3.29431	320	-3.6822	0.000231	0.040825641
FAM85B	GTExv8.ALL.Brain_Cerebellum	8	rs7823056	4.53	rs2948286	-9.03	3.83756	323	-3.662138	0.00025	0.040941489
IL18R1	GTExv8.ALL.Liver	2	rs2110661	4.1	rs4988955	-5.02	-3.69258	569	3.69193	0.000223	0.040971182
DRAM2	GTExv8.ALL.Brain_Cerebellum	1	rs629619	4.21	rs3762374	10.69	-3.67202	573	-3.65085	0.000261	0.040998306
FAM86B3P	GTExv8.ALL.Brain_Frontal_Cortex_BA9	8	rs7823056	4.53	rs2945230	-8.26	3.29431	327	-3.5806	0.000343	0.041009415
RABGAP1L	GTExv8.ALL.Brain_Frontal_Cortex_BA9	1	rs6656188	-3.54946	rs6681780	3.87	-3.36169	276	-3.58085	0.000342	0.041009415
PINX1	GTExv8.ALL.Lung	8	rs7837979	4.32	rs17774023	-3.9	-3.25174	634	3.64121	0.000271	0.041030859
Y_RNA	GTExv8.ALL.Lung	5	rs803054	5.77	rs10077785	3.89	4.807251	409	3.63787	0.000275	0.041030859
DRAM2	GTExv8.ALL.Brain_Substantia_nigra	1	rs629619	4.21	rs3762374	6.98	-3.672	572	-3.66	0.000249	0.0410475
PHACTR4	GTExv8.ALL.Brain_Substantia_nigra	1	rs2236861	3.51	rs10794514	-3.53	3.1073	279	-3.65	0.00026	0.0410475
WDR90	GTExv8.ALL.Brain_Amygdala	16	rs1128550	-4.66	rs34775748	3.82	-3.81536	451	-3.65793	0.000254	0.041058353
DRAM2	GTExv8.ALL.Brain_Cortex	1	rs629619	4.209	rs3762374	10.09	-3.67202	570	-3.67202	0.000241	0.041059514
PLAC9P1	GTExv8.ALL.Colon_Transverse	2	rs7585458	-3.657	rs10928942	-4.38	-3.555456	283	3.55546	0.000377	0.041099704
SDCBP	GTExv8.ALL.Colon_Transverse	8	rs1050488	-3.6	rs6981601	7.23	-3.55303	532	-3.553	0.000381	0.041099704
ALG1L13P	GTExv8.ALL.Vagina	8	rs7823056	4.53	rs2980436	5.05	3.5808	342	3.58079	0.000343	0.041113227
CYP2D8P	GTExv8.ALL.Vagina	22	rs133308	4.71	rs5751229	3.96	-2.7041	359	-3.6018	0.000316	0.041113227
FAM86B3P	GTExv8.ALL.Vagina	8	rs7823056	4.53	rs2980436	6.9	3.5808	326	3.58079	0.000343	0.041113227
CCDC171	GTExv8.ALL.Vagina	9	rs4741546	-3.81	rs10962263	-5.88	1.70699	449	-3.63314	0.00028	0.041134154
ALG1L13P	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	8	rs7823056	4.53	rs2945230	6	3.29431	341	3.685742	0.000228	0.041172
RAB14	GTExv8.ALL.Testis	9	rs10985140	-3.49	rs10760154	-3.65	2.66316	416	-3.64711	0.000265	0.041518875
SBF2	GTExv8.ALL.Colon_Transverse	11	rs4444073	-3.8	rs11602469	4.02	-1.48835	488	-3.54249	0.000396	0.041547452
DIS3L-AS1	GTExv8.ALL.Testis	15	rs2469141	3.2	rs7198181	9.8	-2.38067	490	-3.63843	0.000274	0.041630786
MSRA	GTExv8.ALL.Testis	8	rs7837979	4.32	rs6985267	-6.33	3.14375	627	-3.63447	0.000279	0.041630786
RABGAP1L-	GTExv8.ALL.Testis	1	rs6656188	-3.55	rs4442420	7.72	-3.44484	275	-3.63787	0.000275	0.041630786
SH2D7	GTExv8.ALL.Testis	15	rs2036527	17.81	rs8039850	5.72	2.65273	412	3.635938	0.000277	0.041630786
FAM86B3P	GTExv8.ALL.Kidney_Cortex	8	rs7823056	4.53	rs2948300	5.11	3.5692	327	3.5914	0.000329	0.041693273
CYP2D7	GTExv8.ALL.Nerve_Tibial	22	rs133308	4.71	rs1801311	-11.73	3.790303	350	-3.6834	0.00023	0.041710426
DRAM2	GTExv8.ALL.Artery_Tibial	1	rs629619	4.20922	rs3762374	15.71	-3.67202	571	-3.672016	0.000241	0.0418617
CLEC4GP1	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	19	rs8112157	3.67	rs8112157	8.27	3.67099	424	3.670994	0.000242	0.041867582
SNRK	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	3	rs13433894	3.85	rs17473118	5.71	3.517008	346	3.66409	0.000248	0.041867582
WNT2B	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	1	rs351359	3.33	rs351360	-5.79	-2.289921	401	3.66614	0.000246	0.041867582
SLC2A10	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	20	rs4810539	3.63	rs4810543	-7.61	3.5811	566	-3.6771	0.000236	0.041881862
ALG1L13P	GTExv8.ALL.Stomach	8	rs7823056	4.53	rs2945251	4.91	3.6218	342	3.62183	0.000292	0.041885048
ADAMTS7P3	GTExv8.ALL.Breast_Mammary_Tissue	15	rs17483721	16.25	rs7173128	4.78	1.72506	426	3.68552	0.000228	0.041911111
COP1	GTExv8.ALL.Breast_Mammary_Tissue	1	rs16849826	4.07	rs2455730	-4.31	3.52219	335	-3.67803	0.000235	0.041911111
DRAM2	GTExv8.ALL.Breast_Mammary_Tissue	1	rs629619	4.21	rs3762374	12.51	-3.67202	574	-3.67202	0.000241	0.041911111
GOLGA6L5P	GTExv8.ALL.Breast_Mammary_Tissue	15	rs11635160	3.39	rs150968	11.17	2.93584	316	3.66263	0.00025	0.041911111
NFATC2IP	GTExv8.ALL.Breast_Mammary_Tissue	16	rs12926138	-3.75	rs8049439	5.69	3.22901	181	3.66717	0.000245	0.041911111
ADM	GTExv8.ALL.Cells_Cultured_fibroblasts	11	rs4444073	-3.8	rs11042689	-4.42	-2.90324	491	3.67973	0.000233	0.041927737
DRAM2	GTExv8.ALL.Esophagus_Muscularis	1	rs629619	4.21	rs3762374	15.28	-3.67202	573	-3.69087	0.000223	0.042016226
RPL10P19	GTExv8.ALL.Esophagus_Muscularis	8	rs1562211	4.79	rs12542733	5.79	3.68816	711	3.68816	0.000226	0.042016226
SLMAP	GTExv8.ALL.Esophagus_Muscularis	3	rs13066766	-3.86	rs17058639	7.92	-3.68409	365	-3.68409	0.00023	0.042016226
GPX1	GTExv8.ALL.Brain_Hippocampus	3	rs6803222	-3.98	rs6766131	-4.26	-3.668686	277	3.5613	0.000369	0.042043636
ADAMTS7	GTExv8.ALL.Brain_Hypothalamus	15	rs16969968	18.19	rs3743068	-4.91	-3.56997	421	3.57	0.000357	0.042047906
PHACTR4	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	1	rs2236861	3.51	rs10751728	-4.99	3.3563	279	-3.609064	0.000307	0.042092667
TRMT61A	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	14	rs2403197	5.43	rs7154948	3.77	-3.70218	352	-3.6073	0.000309	0.042092667
GSDMB	GTExv8.ALL.Stomach	17	rs11078934	4.44	rs11557467	6.88	3.60854	291	3.60854	0.000308	0.042164455
HPR	GTExv8.ALL.Stomach	16	rs8050058	4.34	rs4788614	5.28	3.8551	359	3.607793	0.000309	0.042164455
LINC01831	GTExv8.ALL.Liver	2	rs7572010	3.67	rs7572010	5.56	3.67233	363	3.67233	0.00024	0.042177391
GOLGA6L5P	GTExv8.ALL.Thyroid	15	rs11635160	3.39	rs150968	14.61	2.93584	314	3.61	0.000306	0.042210575
NOP14	GTExv8.ALL.Thyroid	4	rs624833	-5.05	rs16843629	-8.49	-3.21285	380	3.61352	0.000302	0.042210575
NOP14	GTExv8.ALL.Brain_Cerebellum	4	rs624833	-5.05	rs13106867	5.28	0.87454	383	3.63738	0.000275	0.04233335
MFSD10	GTExv8.ALL.Whole_Blood	4	rs624833	-5.05	rs6824567	-4.19	-4.88054	376	3.647212	0.000265	0.042395093
PITPNB	GTExv8.ALL.Cells_Cultured_fibroblasts	22	rs134110	3.75	rs5752658	3.63	0.298574	520	3.669256	0.000243	0.04241878
PRRT2	GTExv8.ALL.Cells_Cultured_fibroblasts	16	rs6565176	3.34	rs4788186	5.58	-2.02555	164	-3.66887	0.000244	0.04241878
SEC14L4	GTExv8.ALL.Stomach	22	rs8141318	-3.77	rs8141318	5.27	-3.768584	434	-3.60006	0.000318	0.042428267
MED8	GTExv8.ALL.Nerve_Tibial	1	rs1199039	-4.401	rs839755	7.69	-4.37445	448	-3.672093	0.000241	0.04251729
THSD4	GTExv8.ALL.Lung	15	rs8040015	4.32	rs1441358	4.97	3.39074	434	3.62	0.000294	0.042536455
FOXN3	GTExv8.ALL.Muscle_Skeletal	14	rs7422	4.4	rs4904569	-5.16	3.68925	493	-3.7014	0.000214	0.042683696
ARHGEF35-	GTExv8.ALL.Testis	7	rs6979994	2.94	rs6979994	-4.09	2.941627	290	-3.62178	0.000293	0.042703047
CYP2D7	GTExv8.ALL.Testis	22	rs133308	4.71	rs1801311	-9.91	3.790303	357	-3.62364	0.000291	0.042703047
TERF2	GTExv8.ALL.Brain_Cerebellar_Hemisphere	16	rs9940899	5.18	rs3743669	-5.88	3.4449	302	-3.6243	0.00029	0.042788182
FAM66A	GTExv8.ALL.Colon_Transverse	8	rs7459983	-3.55	rs11994417	-4.57	-3.08743	174	3.5271	0.00042	0.0428904
TMEM218	GTExv8.ALL.Colon_Transverse	11	rs7030	-3.53	rs7030	5.6	-3.52895	493	-3.52895	0.000417	0.0428904
ENPP7P12	GTExv8.ALL.Minor_Salivary_Gland	8	rs7459983	-3.55	rs7460395	-3.78	-3.05425	205	3.5793	0.000344	0.042898074
FAM86B3P	GTExv8.ALL.Minor_Salivary_Gland	8	rs7823056	4.53	rs2980436	4.98	3.58079	325	3.5808	0.000343	0.042898074
RBM15-AS1	GTExv8.ALL.Adipose_Visceral_Omentum	1	rs2946571	-4.07	rs3904626	3.89	-3.30059	556	-3.58867	0.000332	0.042953758
DRAM2	GTExv8.ALL.Pancreas	1	rs629619	4.21	rs3762374	10.87	-3.67202	574	-3.64165	0.000271	0.043032279
SDC4P	GTExv8.ALL.Liver	22	rs8141318	-3.77	rs737942	7.55	-3.6956	440	-3.6561	0.000256	0.043114667
PHACTR4	GTExv8.ALL.Colon_Transverse	1	rs2236861	3.51	rs11247771	-5.13	3.0491	280	-3.52205	0.000428	0.043132263
ATP2C1	GTExv8.ALL.Brain_Putamen_basal_ganglia	3	rs2037178	4.08	rs1913251	5.15	3.6119	385	3.6103	0.000306	0.043164545
CCDC150	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	2	rs10804080	-4.37	rs1533660	-6.36	-3.64423	404	3.64423	0.000268	0.043304971
GSDMA	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	17	rs11078934	4.44	rs3859192	-7.23	3.6472	296	-3.6472	0.000265	0.043304971
LINC02550	GTExv8.ALL.Colon_Transverse	11	rs321358	3.88	rs6589210	8.18	3.51728	469	3.51728	0.000436	0.043367844
CLN8-AS1	GTExv8.ALL.Brain_Spinal_cord_cervical_c-1	8	rs4552929	3.85	rs4552929	4.1	3.854715	727	3.8547	0.000116	0.043463333
METTL26	GTExv8.ALL.Brain_Spinal_cord_cervical_c-1	16	rs1128550	-4.66	rs1139897	4.5	-3.6793	456	-3.89251	9.92E-05	0.043463333
ALG1L13P	GTExv8.ALL.Pancreas	8	rs7823056	4.53	rs2945251	5.53	3.62183	343	3.62183	0.000293	0.043491391
COMMD8	GTExv8.ALL.Pancreas	4	rs1512142	-3.93	rs13115740	-3.24	1.8398	398	-3.62148	0.000293	0.043491391
FAM86B3P	GTExv8.ALL.Pancreas	8	rs7823056	4.53	rs2945251	8.8	3.62183	327	3.62183	0.000293	0.043491391
FAM86B3P	GTExv8.ALL.Lung	8	rs7823056	4.53	rs2980437	8.42	3.60945	326	3.60945	0.000307	0.043532206
SEC14L4	GTExv8.ALL.Lung	22	rs8141318	-3.77	rs2023967	11.92	-3.766666	434	-3.60676	0.00031	0.043532206
ACTMAP	GTExv8.ALL.Spleen	19	rs8103444	-4.51	rs2607420	5.73	-0.99215	432	-3.66562	0.000247	0.043909
GNGT2	GTExv8.ALL.Spleen	17	rs16948048	5.48	rs4794029	5.18	4.317752	376	3.66891	0.000244	0.043909
NAGA	GTExv8.ALL.Spleen	22	rs133308	4.71	rs6002609	-5.43	3.817	337	-3.66659	0.000246	0.043909
NAGA	GTExv8.ALL.Brain_Caudate_basal_ganglia	22	rs133308	4.71	rs133382	-6.79	3.843929	338	-3.5521	0.000382	0.043946255
DRAM2	GTExv8.ALL.Prostate	1	rs629619	4.21	rs3762374	8.41	-3.67202	572	-3.58395	0.000338	0.043947179
FAM90A25P	GTExv8.ALL.Prostate	8	rs7459983	-3.55	rs4240678	-3.96	-3.25017	190	3.58307	0.00034	0.043947179
ARHGEF28	GTExv8.ALL.Artery_Aorta	5	rs6888810	3.34	rs735705	-4.24	2.77153	542	-3.63168	0.000282	0.044094545
LINC02550	GTExv8.ALL.Esophagus_Muscularis	11	rs321358	3.88	rs7111445	11.7	3.69419	469	3.66623	0.000246	0.044106889
LMOD1	GTExv8.ALL.Small_Intestine_Terminal_Ileum	1	rs2820315	3.16	rs2820315	-4.79	3.16117	477	-3.59992	0.000318	0.044149
DRAM2	GTExv8.ALL.Nerve_Tibial	1	rs629619	4.209	rs3762374	16.18	-3.67202	571	-3.649142	0.000263	0.0442505
GSDMA	GTExv8.ALL.Nerve_Tibial	17	rs11078934	4.44	rs3859192	-15.33	3.6472	297	-3.6472	0.000265	0.0442505
LRRC25	GTExv8.ALL.Nerve_Tibial	19	rs2305742	3.35	rs11668719	-6.19	1.933081	382	-3.6462	0.000266	0.0442505
METTL26	GTExv8.ALL.Nerve_Tibial	16	rs1128550	-4.66	rs1139897	10.08	-3.67927	444	-3.64386	0.000269	0.0442505
TMEM218	GTExv8.ALL.Nerve_Tibial	11	rs7030	-3.53	rs7030	6.82	-3.52895	487	-3.643668	0.000269	0.0442505
RPL10P19	GTExv8.ALL.Brain_Substantia_nigra	8	rs1562211	4.79	rs12542733	4.65	3.6882	714	3.61696	0.000298	0.044279294
GRK4	GTExv8.ALL.Testis	4	rs624833	-5.05	rs3021140	-9.62	-4.222168	383	3.60801	0.000309	0.044438727
ZNF19	GTExv8.ALL.Testis	16	rs8050058	4.34	rs12919417	6.35	0.95019	372	3.6055	0.000312	0.044438727
SMYD2	GTExv8.ALL.Nerve_Tibial	1	rs1472444	-3.635	rs1472444	-5.79	-3.63513	541	3.639108	0.000274	0.044472027
MST1	GTExv8.ALL.Brain_Cerebellum	3	rs6803222	-3.98	rs9858542	5.47	-3.4163	316	-3.61993	0.000295	0.044521863
FAM86B3P	GTExv8.ALL.Heart_Atrial_Appendage	8	rs7823056	4.53	rs2980437	6.05	3.60945	324	3.609453	0.000307	0.044556327
XRCC3	GTExv8.ALL.Heart_Atrial_Appendage	14	rs2403197	5.43	rs10135248	-4.9	-3.11641	344	3.60454	0.000313	0.044570019
PPP1R1B	GTExv8.ALL.Heart_Atrial_Appendage	17	rs11078934	4.44	rs2247862	6.6	3.90602	329	3.599392	0.000319	0.044583204
PPP1R13B	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	14	rs2403197	5.43	rs2223937	-5.75	4.48279	327	-3.65582	0.000256	0.044661153
GSDMA	GTExv8.ALL.Cells_Cultured_fibroblasts	17	rs11078934	4.44	rs3859192	10.51	3.65	298	3.6472	0.000265	0.044727246
RCC1	GTExv8.ALL.Cells_Cultured_fibroblasts	1	rs2236861	3.50702	rs12139243	-7.38	3.034012	274	-3.646669	0.000266	0.044727246
LINC02176	GTExv8.ALL.Testis	16	rs8051428	-3.99	rs1027330	3.87	0.85301	732	3.6005	0.000318	0.044784404
ALG1L13P	GTExv8.ALL.Brain_Cortex	8	rs7823056	4.53	rs2980437	-4.47	3.609453	342	-3.63918	0.000273	0.04479522
DEFB134	GTExv8.ALL.Brain_Cortex	8	rs10903340	4.18	rs6601649	-4.7	-2.772218	321	3.61817	0.000297	0.04479522
GOLGA6L5P	GTExv8.ALL.Brain_Cortex	15	rs11635160	3.39	rs12901468	8.83	3.30697	314	3.609785	0.000306	0.04479522
LINC01569	GTExv8.ALL.Brain_Cortex	16	rs7190602	3.92	rs9936111	-4.73	3.60833	378	-3.60833	0.000308	0.04479522
LRFN5	GTExv8.ALL.Brain_Cortex	14	rs10138982	3.89	rs4513003	4.03	3.1125	351	3.63075	0.000283	0.04479522
PPP1R1B	GTExv8.ALL.Vagina	17	rs11078934	4.44	rs12449852	-4.37	1.50377	329	-3.54607	0.000391	0.044829
STAG3	GTExv8.ALL.Muscle_Skeletal	7	rs12705071	4.25	rs2950520	9.87	3.883418	246	3.683724	0.00023	0.044898936
MRPS16	GTExv8.ALL.Adipose_Subcutaneous	10	rs4746143	-2.8	rs7083344	4.02	1.64645	204	3.66337	0.000249	0.04494661
CERS6	GTExv8.ALL.Cells_Cultured_fibroblasts	2	rs13034116	-3.56	rs1453405	-4.64	-3.48984	553	3.640257	0.000272	0.044998452
FAM86B3P	GTExv8.ALL.Stomach	8	rs7823056	4.53	rs2948300	6.56	3.5692	326	3.57861	0.000345	0.04503
FAM85B	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	8	rs7823056	4.53	rs2980436	-8.83	3.5808	323	-3.58079	0.000343	0.04505555
SMIM19	GTExv8.ALL.Ovary	8	rs13280604	-4.87	rs2923428	7.68	3.47853	258	3.47853	0.000504	0.0450912
ALG1L13P	GTExv8.ALL.Brain_Cerebellar_Hemisphere	8	rs7823056	4.53	rs712253	5.02	-2.8484	343	-3.57747	0.000347	0.045194308
C1orf127	GTExv8.ALL.Brain_Cerebellar_Hemisphere	1	rs6540959	-3.99	rs11121663	-9.6	-3.59164	392	3.59164	0.000329	0.045194308
CYP2D7	GTExv8.ALL.Brain_Cerebellar_Hemisphere	22	rs133308	4.71	rs133368	-7.55	3.89651	357	-3.56786	0.00036	0.045194308
LINC02600	GTExv8.ALL.Brain_Cerebellar_Hemisphere	4	rs12508004	3.13	rs11731847	4.62	1.103	300	3.57187	0.000354	0.045194308
PIK3C3	GTExv8.ALL.Brain_Cerebellar_Hemisphere	18	rs9807506	3.94	rs620052	-4.37	3.10197	379	-3.57216	0.000354	0.045194308
RANBP17	GTExv8.ALL.Brain_Cerebellar_Hemisphere	5	rs29652	-3.59	rs29652	-4.59	-3.59433	467	3.5943	0.000325	0.045194308
TMEM256	GTExv8.ALL.Brain_Cerebellar_Hemisphere	17	rs3809830	-3.44	rs7216864	3.19	-0.527117	473	3.597812	0.000321	0.045194308
UBASH3B	GTExv8.ALL.Esophagus_Muscularis	11	rs11607161	-3.21	rs6589937	5.47	-3.20074	493	-3.65526	0.000257	0.045241345
ADAMTS7	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	15	rs16969968	18.19	rs3743068	-5.5	-3.56997	421	3.56997	0.000357	0.045277448
SLC45A4	GTExv8.ALL.Thyroid	8	rs1349082	-4.37	rs3739240	7.47	-4.0723	470	-3.59088	0.00033	0.0453
CYFIP2	GTExv8.ALL.Nerve_Tibial	5	rs4579242	5.07	rs13154298	-4.95	-2.792	469	3.629992	0.000283	0.045328408
FAM86B3P	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	8	rs7823056	4.53	rs2945251	9.84	3.62183	324	3.61621	0.000299	0.045702554
FCGR3A	GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	1	rs1340978	4.11	rs511278	5.65	2.625351	436	3.61759	0.000298	0.045702554
ALB	GTExv8.ALL.Colon_Sigmoid	4	rs4694626	-3.96	rs6829551	3.61	-3.07446	301	-3.6033	0.000314	0.045735061
CEPT1	GTExv8.ALL.Adipose_Visceral_Omentum	1	rs629619	4.21	rs9970286	6.91	-3.56853	573	-3.56853	0.000359	0.045753746
LAMTOR4	GTExv8.ALL.Brain_Amygdala	7	rs12705071	4.25	rs34995835	4.41	2.6791	273	3.6145	0.000301	0.045952667
ALG1L13P	GTExv8.ALL.Thyroid	8	rs7823056	4.53	rs2980436	5.4	3.5808	341	3.58079	0.000343	0.046038222
FAM85B	GTExv8.ALL.Thyroid	8	rs7823056	4.53	rs2980436	-10.07	3.5808	321	-3.58079	0.000343	0.046038222
DRAM2	GTExv8.ALL.Muscle_Skeletal	1	rs629619	4.209	rs3762374	17.44	-3.67202	571	-3.67202	0.000241	0.046066146
C17orf67	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	17	rs2235092	4.1	rs3760157	-5.95	3.8386	454	-3.4994	0.000466	0.046118333
CNTRL	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	9	rs10985140	-3.49	rs2057465	4.01	-2.63977	378	-3.53197	0.000412	0.046118333
DNAH17	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	17	rs4969170	3.58	rs2271613	-5.34	3.52295	531	-3.523	0.000427	0.046118333
ENPP7P12	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	8	rs7459983	-3.55	rs7459983	-4.98	-3.5479	205	3.5135	0.000442	0.046118333
EPHX2	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	8	rs11778040	-5.35	rs13439459	11.44	-3.9136	633	-3.5302	0.000415	0.046118333
FAM182B	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	20	rs6132864	3.92	rs4815493	6.98	2.4811	169	3.5122	0.000444	0.046118333
GAL3ST4	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	7	rs12705071	4.25	rs4729566	3.72	3.49768	266	3.497676	0.000469	0.046118333
KIF21A	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	12	rs12230604	-3.97	rs11830643	4.77	-3.40758	331	-3.55373	0.00038	0.046118333
LINC01569	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	16	rs7190602	3.92	rs9936111	-4.85	3.60833	381	-3.54891	0.000387	0.046118333
LINC02550	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	11	rs321358	3.88	rs6589210	10	3.51728	469	3.50466	0.000457	0.046118333
PMM1	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	22	rs133308	4.71	rs4820438	-4.61	-2.91813	306	3.53838	0.000403	0.046118333
PTCHD4	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	6	rs1360074	4.16	rs10948386	4.2	3.20547	411	3.50208	0.000462	0.046118333
SH3BP2	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	4	rs624833	-5.05	rs6600766	-4.88	-1.35016	396	3.52	0.000427	0.046118333
STAG3	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	7	rs12705071	4.25	rs4729566	4.34	3.49768	262	3.497676	0.000469	0.046118333
SULT1A4	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	16	rs12926138	-3.75	rs12933229	-3.71	-3.52815	159	3.52815	0.000418	0.046118333
TMEM218	GTExv8.ALL.Esophagus_Gastroesophageal_Junction	11	rs7030	-3.53	rs7030	5.85	-3.52895	493	-3.52895	0.000417	0.046118333
CCDC150	GTExv8.ALL.Adipose_Subcutaneous	2	rs10804080	-4.37	rs1533660	-4.58	-3.64423	408	3.64423	0.000268	0.04615
METTL26	GTExv8.ALL.Adipose_Subcutaneous	16	rs1128550	-4.66	rs11642546	12.18	-3.75848	443	-3.6395	0.000273	0.04615
PHETA2	GTExv8.ALL.Adipose_Subcutaneous	22	rs133308	4.71	rs133368	-3.96	3.896506	331	-3.6502	0.000262	0.04615
WDR24	GTExv8.ALL.Adipose_Subcutaneous	16	rs1128550	-4.66	rs11642546	7.6	-3.75848	429	-3.6416	0.000271	0.04615
MIRLET7IHG	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	12	rs12228015	-3.61	rs11174561	-7.08	3.46366	517	-3.63912	0.000274	0.046234131
MED18	GTExv8.ALL.Testis	1	rs2236861	3.51	rs6598927	-3.8	3.32414	267	-3.58585	0.000336	0.046279385
FAM85B	GTExv8.ALL.Brain_Amygdala	8	rs7823056	4.53	rs2980436	-6.88	3.58079	322	-3.5989	0.00032	0.046282105
RANBP17	GTExv8.ALL.Brain_Cerebellum	5	rs29652	-3.59	rs29652	-4.45	-3.59433	468	3.59433	0.000325	0.046324537
RPA3	GTExv8.ALL.Brain_Cerebellum	7	rs10257694	-3.7	rs3735460	4.63	-3.275319	751	-3.599012	0.000319	0.046324537
USP3-AS1	GTExv8.ALL.Brain_Cerebellum	15	rs4326996	-3.53	rs7183892	-3.92	-3.05741	387	3.59601	0.000323	0.046324537
PGAP3	GTExv8.ALL.Heart_Left_Ventricle	17	rs11078934	4.44	rs907087	9.41	3.85235	319	3.64143	0.000271	0.046375
PVRIG	GTExv8.ALL.Heart_Left_Ventricle	7	rs12705071	4.25	rs3800951	-3.98	-3.23341	271	3.63966	0.000273	0.046375
TDH-AS1	GTExv8.ALL.Stomach	8	rs2409764	-4.69	rs1435277	-9.34	-3.9246	637	3.56457	0.000364	0.046499064
KIF21A	GTExv8.ALL.Adipose_Subcutaneous	12	rs12230604	-3.97	rs4284427	9.31	-3.434	331	-3.62913	0.000284	0.046532308
ZFYVE21	GTExv8.ALL.Adipose_Subcutaneous	14	rs2403197	5.43	rs1955660	5.65	4.22936	343	3.63302	0.00028	0.046532308
FAM86B3P	GTExv8.ALL.Adipose_Subcutaneous	8	rs7823056	4.53	rs2945251	8.19	3.62183	323	3.62183	0.000293	0.046573881
LINC02550	GTExv8.ALL.Adipose_Subcutaneous	11	rs321358	3.88	rs6589210	12.67	3.51728	465	3.625379	0.000289	0.046573881
C1orf127	GTExv8.ALL.Brain_Cerebellum	1	rs6540959	-3.99	rs11121663	-10.61	-3.59164	392	3.58831	0.000333	0.046601836
FOXA3	GTExv8.ALL.Minor_Salivary_Gland	19	rs7258364	3.88	rs8103278	-4.65	-2.32358	398	3.54794	0.000388	0.046657
CERT1	GTExv8.ALL.Esophagus_Mucosa	5	rs6878990	-3.72	rs11749783	-6.33	-3.36744	344	3.63139	0.000282	0.0467039
TP53RK	GTExv8.ALL.Esophagus_Mucosa	20	rs4810539	3.63	rs2664523	4.66	3.6314	568	3.6314	0.000282	0.0467039
FAM66A	GTExv8.ALL.Adipose_Subcutaneous	8	rs7459983	-3.55	rs12550733	-5.05	-2.79681	173	3.61644	0.000299	0.046828676
FAM86B3P	GTExv8.ALL.Heart_Left_Ventricle	8	rs7823056	4.53	rs2980437	8.31	3.60945	321	3.624	0.00029	0.046859756
GUCA1C	GTExv8.ALL.Heart_Left_Ventricle	3	rs7641406	-3.63	rs7641406	6.87	-3.62619	389	-3.62619	0.000288	0.046859756
LRRN2	GTExv8.ALL.Thyroid	1	rs3789044	-4.39219	rs4951090	8.71	2.27174	601	3.57267	0.000353	0.04685978
MIRLET7IHG	GTExv8.ALL.Testis	12	rs12228015	-3.61	rs11174549	-5.64	3.57884	521	-3.57884	0.000345	0.0470025
NRBP2	GTExv8.ALL.Minor_Salivary_Gland	8	rs7015323	-3.26	rs7015048	-3.11	-1.38048	280	3.5366	0.000405	0.047021897
FAM85B	GTExv8.ALL.Adipose_Subcutaneous	8	rs7823056	4.53	rs777709	-6.88	2.83568	319	-3.61137	0.000305	0.047076087
ENPP7P1	GTExv8.ALL.Pituitary	8	rs7823056	4.53	rs2945251	-5.61	3.62183	284	-3.7191	2.00E-04	0.047207407
LINC02550	GTExv8.ALL.Pituitary	11	rs321358	3.88	rs17537360	4.54	3.72918	469	3.72918	0.000192	0.047207407
SMDT1	GTExv8.ALL.Pituitary	22	rs133308	4.71	rs4147638	-10.5	3.811744	333	-3.720509	0.000199	0.047207407
ARHGEF38	GTExv8.ALL.Pituitary	4	rs3960769	-5.17	rs17253672	4	-2.06602	419	-3.59969	0.000319	0.047278767
COA8	GTExv8.ALL.Pituitary	14	rs2403197	5.43	rs7154948	7.23	-3.70218	360	-3.70218	0.000214	0.047278767
DRAM2	GTExv8.ALL.Pituitary	1	rs629619	4.21	rs3762374	11.07	-3.67202	573	-3.668474	0.000244	0.047278767
EPHX2	GTExv8.ALL.Pituitary	8	rs11778040	-5.35	rs17057310	7.42	-3.90844	638	-3.6389	0.000274	0.047278767
GRK4	GTExv8.ALL.Pituitary	4	rs624833	-5.05	rs16843629	-6.45	-3.21285	383	3.65976	0.000252	0.047278767
GUCA1C	GTExv8.ALL.Pituitary	3	rs7641406	-3.63	rs7641406	6.2	-3.6262	393	-3.6262	0.000288	0.047278767
NDUFA6-DT	GTExv8.ALL.Pituitary	22	rs133308	4.71	rs4467371	7.97	-2.80209	340	-3.620985	0.000293	0.047278767
NOP14	GTExv8.ALL.Pituitary	4	rs624833	-5.05	rs13106867	4.31	0.87454	384	3.63619	0.000277	0.047278767
SEC14L4	GTExv8.ALL.Pituitary	22	rs8141318	-3.77	rs9608941	6.03	-3.677171	434	-3.677171	0.000236	0.047278767
SNAP47	GTExv8.ALL.Pituitary	1	rs6672559	4.43	rs12093031	-4.43	4.10395	378	-3.601146	0.000317	0.047278767
TRAM2	GTExv8.ALL.Pituitary	6	rs569275	-4.03	rs2076633	4.96	-3.4	573	-3.6	0.000315	0.047278767
TRIM45	GTExv8.ALL.Pituitary	1	rs12118664	3.57	rs1289658	3.7	3.32957	450	3.613146	0.000303	0.047278767
YTHDF2	GTExv8.ALL.Pituitary	1	rs2236861	3.51	rs528265	3.35	-2.4298	298	-3.601229	0.000317	0.047278767
PLAC9P1	GTExv8.ALL.Prostate	2	rs7585458	-3.66	rs10928942	-4.76	-3.555456	286	3.555456	0.000377	0.047511425
SNORA48	GTExv8.ALL.Lung	17	rs3809830	-3.44	rs9903150	-5.77	2.472034	481	-3.579546	0.000344	0.047606609
ALG1L13P	GTExv8.ALL.Colon_Sigmoid	8	rs7823056	4.53	rs2980436	4.83	3.58079	341	3.58079	0.000343	0.04762575
FAM86B3P	GTExv8.ALL.Colon_Sigmoid	8	rs7823056	4.53	rs2980436	6.85	3.58079	325	3.58079	0.000343	0.04762575
TFR2	GTExv8.ALL.Colon_Sigmoid	7	rs11764176	4	rs12666785	-3.68	-2.93019	308	3.57753	0.000347	0.04762575
C1orf127	GTExv8.ALL.Pituitary	1	rs6540959	-3.99	rs11121663	6.39	-3.59164	392	-3.591645	0.000329	0.047652659
DEFB131E	GTExv8.ALL.Colon_Sigmoid	8	rs10903340	4.18	rs7828977	-4.87	-2.27405	316	3.558	0.000374	0.047664964
LINC01569	GTExv8.ALL.Colon_Sigmoid	16	rs7190602	3.92	rs757462	-4.86	3.55808	379	-3.55808	0.000374	0.047664964
NFATC3	GTExv8.ALL.Colon_Sigmoid	16	rs10852440	-3.57	rs10852440	-8.06	-3.56687	274	3.56687	0.000361	0.047664964
MCM7	GTExv8.ALL.Brain_Caudate_basal_ganglia	7	rs12705071	4.25	rs12705073	3.4	3.20995	270	3.519501	0.000432	0.047669878
STUM	GTExv8.ALL.Lung	1	rs7534366	3.77365	rs837444	-4.83	2.87465	438	-3.57553	0.00035	0.047745
LINC01678	GTExv8.ALL.Uterus	21	rs2838486	-3.12	rs2277805	4.79	-2.47344	363	-3.54499	0.000393	0.047823609
RPL10P19	GTExv8.ALL.Uterus	8	rs1562211	4.79	rs17700611	-4.6	-2.5555	716	3.5395	0.000401	0.047823609
GSDMB	GTExv8.ALL.Spleen	17	rs11078934	4.44	rs8067378	10.34	3.636624	288	3.63662	0.000276	0.0478377
CEPT1	GTExv8.ALL.Lung	1	rs629619	4.20922	rs9970286	5.16	-3.56853	574	-3.56853	0.000359	0.047877625
TRPC1	GTExv8.ALL.Lung	3	rs953641	3.62	rs1533939	-4.01	3.567155	384	-3.56716	0.000361	0.047877625
CDK5RAP1	GTExv8.ALL.Stomach	20	rs184110	-3.14	rs3746460	-3.08	-2.0627	351	3.55185	0.000383	0.047906917
BTBD2	GTExv8.ALL.Esophagus_Mucosa	19	rs11669527	-3.76	rs7254820	7.19	-2.1831	394	-3.6166	0.000299	0.047921984
PMFBP1	GTExv8.ALL.Esophagus_Mucosa	16	rs8050058	4.34	rs17604349	-6.16	3.61708	331	-3.61708	0.000298	0.047921984
FAM86B3P	GTExv8.ALL.Breast_Mammary_Tissue	8	rs7823056	4.53	rs2945251	8.69	3.62183	323	3.62183	0.000293	0.047992681
ST13	GTExv8.ALL.Breast_Mammary_Tissue	22	rs133074	-4.01	rs5758150	3.92	-2.90609	278	-3.61604	0.000299	0.047992681
FAM86B3P	GTExv8.ALL.Pituitary	8	rs7823056	4.53	rs2980436	-6.89	3.58079	326	-3.5835	0.000339	0.048009933
MTMR9	GTExv8.ALL.Nerve_Tibial	8	rs2409764	-4.69	rs2736258	-6.04	-2.54774	645	3.61187	0.000304	0.048059636
SDCBP	GTExv8.ALL.Heart_Atrial_Appendage	8	rs1050488	-3.6	rs12680996	-7.58	-3.55142	532	3.574723	0.000351	0.048163582
FAM66A	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	8	rs7459983	-3.55	rs11250186	-7.3	-2.7336	175	3.54445	0.000393	0.0481818
PSTPIP1	GTExv8.ALL.Brain_Putamen_basal_ganglia	15	rs2036896	4.22	rs11636803	-4.18	-2.62073	230	3.574	0.000352	0.048192941
SYNM-AS1	GTExv8.ALL.Whole_Blood	15	rs2593053	3.84	rs2593053	-8.99	3.83551	538	-3.60036	0.000318	0.048196526
MRPS7	GTExv8.ALL.Stomach	17	rs2291031	-3.35	rs2242231	-8.49	-3.2118	374	3.54333	0.000395	0.048399592
VN1R108P	GTExv8.ALL.Heart_Left_Ventricle	20	rs2281559	3.93	rs6138650	3.99	3.88457	224	3.60902	0.000307	0.048425595
TRAPPC14	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	7	rs12705071	4.25	rs858506	-5.71	3.869165	248	-3.622506	0.000292	0.04847671
FAM86B3P	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	8	rs7823056	4.53	rs2980436	11.28	3.58079	325	3.617883	0.000297	0.048524143
LINC03033	GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	14	rs798788	2.51	rs17834593	3.84	1.03217	449	3.61329	0.000302	0.048570094
UTP4	GTExv8.ALL.Esophagus_Muscularis	16	rs9940899	5.18	rs17624400	-8.46	-0.11907	322	3.63182	0.000281	0.048582893
EIF3C	GTExv8.ALL.Breast_Mammary_Tissue	16	rs12926138	-3.75	rs12443881	4.54	3.06171	198	3.59662	0.000322	0.04858336
FNTA	GTExv8.ALL.Breast_Mammary_Tissue	8	rs13280604	-4.87	rs13253966	-5.16	3.59964	196	-3.59964	0.000319	0.04858336
FTOP1	GTExv8.ALL.Breast_Mammary_Tissue	2	rs4613335	-3.469	rs6727142	-4.97	1.32518	452	-3.6	0.000319	0.04858336
FAM85B	GTExv8.ALL.Brain_Cortex	8	rs7823056	4.53	rs2980436	-9.19	3.580792	322	-3.58079	0.000343	0.048697833
ADAM19	GTExv8.ALL.Colon_Sigmoid	5	rs4579242	5.07	rs1422795	7.25	5.05476	528	3.54766	0.000389	0.048706895
CYP2D7	GTExv8.ALL.Whole_Blood	22	rs133308	4.71	rs11090076	-9.25	3.801816	351	-3.59134	0.000329	0.048759102
TNFRSF10A-	GTExv8.ALL.Colon_Transverse	8	rs13263101	3.8	rs13268919	-4.97	-3.48218	624	3.4822	0.000497	0.048801577
RPA3	GTExv8.ALL.Brain_Putamen_basal_ganglia	7	rs10257694	-3.7	rs10236714	4.49	-3.56253	752	-3.5625	0.000367	0.048811
NDUFA6-DT	GTExv8.ALL.Minor_Salivary_Gland	22	rs133308	4.71	rs133337	-4.72	4.65693	346	-3.51751	0.000436	0.048933733
NUPR1	GTExv8.ALL.Brain_Anterior_cingulate_cortex_BA24	16	rs8058566	3.68	rs11647191	-3.68	-1.73676	208	3.53171	0.000413	0.049000452
IL17RD	GTExv8.ALL.Lung	3	rs17289035	-4.48	rs12496746	6.3	-2.649777	385	-3.55364	0.00038	0.049035405
VPS8	GTExv8.ALL.Muscle_Skeletal	3	rs9875052	3.81	rs3821748	4.85	3.703895	421	3.650457	0.000262	0.049058163
DRAM2	GTExv8.ALL.Small_Intestine_Terminal_Ileum	1	rs629619	4.21	rs3762374	7.47	-3.67202	573	-3.53638	0.000406	0.049079459
GSDMD	GTExv8.ALL.Small_Intestine_Terminal_Ileum	8	rs4874138	-3.15	rs7013633	-4.04	-2.86	344	3.52074	0.00043	0.049079459
LINC02550	GTExv8.ALL.Small_Intestine_Terminal_Ileum	11	rs321358	3.88	rs6589210	6.24	3.5173	469	3.5173	0.000436	0.049079459
LRFN5	GTExv8.ALL.Small_Intestine_Terminal_Ileum	14	rs10138982	3.89	rs12323560	-3.77	3.2432	351	-3.54258	0.000396	0.049079459
MIRLET7IHG	GTExv8.ALL.Small_Intestine_Terminal_Ileum	12	rs12228015	-3.61	rs3825305	-4.2	3.40531	524	-3.53669	0.000405	0.049079459
PVRIG	GTExv8.ALL.Small_Intestine_Terminal_Ileum	7	rs12705071	4.25	rs7785392	-4.11	-3.281302	276	3.53835	0.000403	0.049079459
SDCBP	GTExv8.ALL.Small_Intestine_Terminal_Ileum	8	rs1050488	-3.6	rs4579515	4.29	-3.44	532	-3.5171	0.000436	0.049079459
FAM85B	GTExv8.ALL.Brain_Caudate_basal_ganglia	8	rs7823056	4.53	rs2948286	-7.74	3.8376	323	-3.50641	0.000454	0.04909556
F3	GTExv8.ALL.Thyroid	1	rs3789688	4.42254	rs2971944	-3.82	1.20467	536	-3.55787	0.000374	0.049107826
DRAM2	GTExv8.ALL.Brain_Caudate_basal_ganglia	1	rs629619	4.21	rs3762374	8.69	-3.67202	573	-3.50099	0.000464	0.049193098
SNORA73A	GTExv8.ALL.Minor_Salivary_Gland	1	rs2236861	3.51	rs2236861	4.34	3.50702	276	3.50702	0.000453	0.049201645
ARMS2	GTExv8.ALL.Vagina	10	rs2284665	3.73	rs2736911	6.02	-2.78736	608	-3.48526	0.000492	0.049224
CHMP7	GTExv8.ALL.Vagina	8	rs13263101	3.8	rs13268919	4.37	-3.4822	623	-3.48218	0.000497	0.049224
SMIM19	GTExv8.ALL.Vagina	8	rs13280604	-4.87	rs2923428	6.43	3.4785	256	3.47853	0.000504	0.049224
ARHGEF38	GTExv8.ALL.Testis	4	rs3960769	-5.17	rs10454792	3.34	2.549378	419	3.55759	0.000374	0.049344379
LPCAT1	GTExv8.ALL.Testis	5	rs11133793	-3.61	rs36993	10.32	-3.475624	552	-3.557487	0.000374	0.049344379
MBOAT7	GTExv8.ALL.Kidney_Cortex	19	rs2448289	-3.32	rs4806499	-3.32	-2.57197	475	3.5241	0.000425	0.049370833
ORMDL3	GTExv8.ALL.Lung	17	rs11078934	4.44	rs2290400	9.47	3.546568	293	3.546568	0.00039	0.0496548
TXNL4B	GTExv8.ALL.Breast_Mammary_Tissue	16	rs8050058	4.34	rs4788614	5.81	3.85511	344	3.58578	0.000336	0.049701647
CDK5RAP1	GTExv8.ALL.Spleen	20	rs184110	-3.14	rs293727	-3.39	-1.84861	352	3.6208	0.000294	0.049714683
C17orf67	GTExv8.ALL.Testis	17	rs2235092	4.1	rs6503765	-5.95	3.114179	454	-3.553	0.000381	0.049744313
FAM85B	GTExv8.ALL.Artery_Aorta	8	rs7823056	4.53	rs2980436	-7.3	3.58079	318	-3.59517	0.000324	0.049757143
C1GALT1P1	GTExv8.ALL.Lung	12	rs7310083	3.25	rs317685	3.33	1.94268	530	3.54041	0.000399	0.049977234
SLC45A1	GTExv8.ALL.Lung	1	rs12029088	4.33958	rs7535752	4.4	-2.85288	321	-3.53797	0.000403	0.049977234
GRK4	GTExv8.ALL.Cells_Cultured_fibroblasts	4	rs624833	-5.05	rs2471338	-15.41	-3.32046	386	3.6096	0.000307	0.049982524

Table S4.FUSION identified 26 significant COPD-related genes in 8 types of single cells

Gene symbole	PANEL	CHR	BEST.GWAS.ID	BEST.GWAS.Z	NSNP	TWAS.Z	TWAS.P	FDR
IREB2	IREB2.CONTENT_full.nk	15	rs10519203	17.31	265	13.569802	6.05E-42	2.47E-37
IREB2	IREB2.CONTENT_specific.nk	15	rs10519203	17.31	265	11.944227	6.96E-33	1.42E-28
IREB2	IREB2.CONTENT_full.t4	15	rs10519203	17.31	265	8.365347	5.99E-17	8.14E-13
IDH3A	IDH3A.CONTENT_specific.b	15	rs10519203	17.31	223	8.244308	1.66E-16	1.69E-12
DNAJA4	DNAJA4.CONTENT_specific.t8	15	rs10519203	17.31	253	-7.336244	2.20E-13	1.79E-09
IREB2	IREB2.CONTENT_shared.Average	15	rs10519203	17.31	265	7.156836	8.26E-13	5.61E-09
MORF4L1	MORF4L1.CONTENT_full.t8	15	rs10519203	17.31	263	6.330176	2.45E-10	1.43E-06
IREB2	IREB2.CONTENT_specific.t4	15	rs10519203	17.31	265	5.345337	9.02E-08	0.00045967
HGSNAT	HGSNAT.CONTENT_specific.nk	8	rs13280604	-4.87	120	-4.98457	6.21E-07	0.002813061
NFATC3	NFATC3.CONTENT_specific.pdc	16	rs9332431	3.59	136	-4.662913	3.12E-06	0.011563571
POLR3H	POLR3H.CONTENT_specific.pdc	22	rs133308	4.71	175	-4.67027	3.01E-06	0.011563571
ZNF513	ZNF513.CONTENT_specific.nk	2	rs1662992	-4.36	232	-4.577326	4.71E-06	0.013715856
CTSH	CTSH.CONTENT_full.t8	15	rs10519203	17.31	266	4.60743	4.08E-06	0.013715856
TSPAN3	TSPAN3.CONTENT_full.pdc	15	rs8035384	5.09	165	4.579407	4.66E-06	0.013715856
FCGR2B	FCGR2B.CONTENT_full.t4	1	rs1340978	4.11	294	4.557439	5.18E-06	0.014078895
ENGASE	ENGASE.CONTENT_full.cdc	17	rs4969170	3.58	326	4.45531	8.38E-06	0.021352764
FNTA	FNTA.CONTENT_specific.ncm	8	rs13280604	-4.87	127	4.42919	9.46E-06	0.022686749
SMIM19	SMIM19.CONTENT_specific.t4	8	rs13280604	-4.87	146	-4.38108	1.18E-05	0.023296571
RABEPK	RABEPK.CONTENT_full.b	9	rs12341976	-4.62	182	-4.408285	1.04E-05	0.023296571
PKM	PKM.CONTENT_full.t4	15	rs6494904	3.85	265	-4.387022	1.15E-05	0.023296571
TMED3	TMED3.CONTENT_full.pdc	15	rs10519203	17.31	281	4.377524	1.20E-05	0.023296571
RMDN2	RMDN2.CONTENT_specific.cdc	2	rs4670233	-5.14	208	4.278846	1.88E-05	0.03343058
MAPKAPK3	MAPKAPK3.CONTENT_specific.nk	3	rs739983	-2.82	267	-4.25898	2.05E-05	0.03343058
MAN2B2	MAN2B2.CONTENT_specific.cm	4	rs744356	-3.15	411	-4.26246	2.02E-05	0.03343058
RABEPK	RABEPK.CONTENT_specific.b	9	rs12341976	-4.62	182	-4.262434	2.02E-05	0.03343058
TSPAN3	TSPAN3.CONTENT_full.b	15	rs8035384	5.09	165	4.203172	2.63E-05	0.041239412
RRP7A	RRP7A.CONTENT_full.b	22	rs133308	4.71	223	4.18381	2.87E-05	0.043335937
SURF1	SURF1.CONTENT_full.b	9	rs2519765	4.75	267	4.159576	3.19E-05	0.045970562
RRP7A	RRP7A.CONTENT_shared.Average	22	rs133308	4.71	223	4.15394	3.27E-05	0.045970562
RCN1	RCN1.CONTENT_specific.ncm	11	rs3026390	-3.24	191	4.140759	3.46E-05	0.047020247
TRPM7	TRPM7.CONTENT_full.pdc	15	rs606670	-3.84	183	4.129417	3.64E-05	0.047870697
FCGR2B	FCGR2B.CONTENT_specific.t4	1	rs1340978	4.11	294	4.109467	3.97E-05	0.049046342
MSRA	MSRA.CONTENT_specific.t8	8	rs4841409	4.24	359	4.11165	3.93E-05	0.049046342

Table S5. The results of conditional and joint analysis

PANEL	Gene symbole	Ensembl ID	TWAS.Z	TWAS.P	JOINT.BETA	JOINT.BETA.SE	JOINT.Z	JOINT.P	COND.BETA	COND.BETA.SE	COND.Z	COND.P
GTExv8.ALL.Adipose_Subcutaneous	IREB2	ENSG00000136381	-5.58	2.36E-08					-0.174	0.398	-0.438	0.661
GTExv8.ALL.Artery_Aorta	DNAJA4	ENSG00000140403	-4.42	9.89E-06					-0.878	0.743	-1.18	0.237
GTExv8.ALL.Artery_Coronary	DNAJA4	ENSG00000140403	-7.6	2.86E-14	-7.6	1	-7.6	2.86E-14				
GTExv8.ALL.Brain_Cerebellum	DNAJA4	ENSG00000140403	-5.65	1.62E-08	-6.6	1.08	-6.11	1.01E-09				
GTExv8.ALL.Brain_Cortex	DNAJA4	ENSG00000140403	-4.67	3.02E-06	-3.07	1.07	-2.86	0.0042				
GTExv8.ALL.Brain_Frontal_Cortex_BA9	DNAJA4	ENSG00000140403	-4.6	4.32E-06					-6.6	0.88	-7.5	6.21E-14
GTExv8.ALL.Cells_Cultured_fibroblasts	IREB2	ENSG00000136381	6.33	2.45E-10					-2.03	0.762	-2.66	0.0078
GTExv8.ALL.Lung	IREB2	ENSG00000136381	-12.4	2.01E-35	-14.27	1.17	-12.23	2.15E-34				
GTExv8.ALL.Minor_Salivary_Gland	DNAJA4	ENSG00000140403	5.51	3.57E-08	3.12	1.13	2.76	0.00571				
GTExv8.ALL.Nerve_Tibial	IREB2	ENSG00000136381	-5.72	1.08E-08					-9.36	0.819	-11.42	3.20E-30
GTExv8.ALL.Skin_Not_Sun_Exposed_Suprapubic	IREB2	ENSG00000136381	-10.1	3.81E-24	-10.1	1	-10.1	5.52E-24				
GTExv8.ALL.Skin_Sun_Exposed_Lower_leg	IREB2	ENSG00000136381	-10.2	3.09E-24	-6.31	1.09	-5.79	7.16E-09				
GTExv8.ALL.Testis	IREB2	ENSG00000136381	7.5	6.18E-14	4.99	1.5	3.32	0.000909				
GTExv8.ALL.Testis	DNAJA4	ENSG00000140403	-5.5	3.86E-08	-5.5	1	-5.5	3.86E-08				
Whole_Blood	DNAJA4	ENSG00000140403	5.61	2.02E-08	5.61	1	5.61	2.02E-08				
Whole_Blood	IREB2	ENSG00000136381	-15.72	1.17E-55	-6.28	1.47	-4.27	1.92E-05				

Table S6. MAGMA gene-based test identified 369 significant genes associated with COPD

Gene symbole	CHR	Ensemeble ID	START	STOP	NSNPS	NPARAM	N	ZSTAT	P	FDR
ADAMTS7	15	ENSG00000136378	79051545	79103773	340	35	358369	8.1094	2.54E-16	4.86E-12
PSMA4	15	ENSG00000041357	78832747	78841604	51	10	358369	7.8683	1.80E-15	1.72E-11
MORF4L1	15	ENSG00000185787	79102829	79190475	474	36	358369	7.3815	7.83E-14	4.99E-10
CHRNA4	20	ENSG00000101204	61975420	62009753	266	48	358369	7.0073	1.22E-12	5.80E-09
CHRNB4	15	ENSG00000117971	78916461	79020096	410	54	358369	6.7532	7.23E-12	2.76E-08
CHRNA3	15	ENSG00000080644	78885394	78913637	138	22	358369	6.1094	5.00E-10	9.55E-07
IREB2	15	ENSG00000136381	78729773	78793798	207	31	358369	6.1094	5.00E-10	9.55E-07
DNAJA4	15	ENSG00000140403	78556428	78574538	86	24	358369	6.1785	3.23E-10	9.55E-07
CHRNA5	15	ENSG00000169684	78857862	78887611	104	22	358369	6.1094	5.00E-10	9.55E-07
HYKK	15	ENSG00000188266	78799906	78829714	116	17	358369	6.1094	5.00E-10	9.55E-07
CCNI2	5	ENSG00000205089	132083137	132089856	12	5	358369	5.7458	4.58E-09	7.95E-06
FAM13A	4	ENSG00000138640	89647106	90032549	1677	72	358369	5.6907	6.33E-09	1.01E-05
WDR61	15	ENSG00000140395	78570177	78592136	71	22	358369	5.6393	8.54E-09	1.25E-05
ACSBG1	15	ENSG00000103740	78459810	78538030	363	72	358369	5.4733	2.21E-08	3.01E-05
TRIM38	6	ENSG00000112343	25963030	25987384	95	33	358369	5.422	2.95E-08	3.75E-05
RASGRF1	15	ENSG00000058335	79252289	79383115	587	101	358369	5.1516	1.29E-07	0.000142188
HIST1H3A	6	ENSG00000198366	26020718	26021186	4	2	358369	5.1447	1.34E-07	0.000142188
APOPT1	14	ENSG00000256053	104029299	104073860	180	32	358369	5.1649	1.20E-07	0.000142188
BAG5	14	ENSG00000166170	104022881	104029168	20	8	358369	5.1216	1.52E-07	0.000152363
HIST1H4A	6	ENSG00000196176	26021907	26022278	3	2	358369	5.038	2.35E-07	0.000224698
XRCC3	14	ENSG00000126215	104163946	104181841	64	24	358369	5.0084	2.74E-07	0.000240027
CYP1B1	2	ENSG00000138061	38294116	38337044	253	36	358369	5.007	2.76E-07	0.000240027
BMP1	8	ENSG00000168487	22022249	22069839	262	44	358369	4.9867	3.07E-07	0.000255103
VARS	6	ENSG00000204394	31745295	31763730	63	30	358369	4.9473	3.76E-07	0.00029955
MICA	6	ENSG00000204520	31371356	31383092	234	30	358369	4.8864	5.13E-07	0.00039242
POU6F2	7	ENSG00000106536	39017598	39532694	2264	112	358369	4.8631	5.78E-07	0.000408982
LINGO1	15	ENSG00000169783	77905369	78113242	902	74	358369	4.8682	5.63E-07	0.000408982
CIRH1A	16	ENSG00000141076	69165194	69265033	294	46	358369	4.8459	6.30E-07	0.000429983
ANKRD44	2	ENSG00000065413	197831741	198175897	1393	96	358369	4.8109	7.51E-07	0.000495095
SKIV2L	6	ENSG00000204351	31926857	31937532	50	21	358369	4.8034	7.80E-07	0.000496858
HMGN4	6	ENSG00000182952	26538633	26546482	23	6	358369	4.7823	8.67E-07	0.000534207
ZFYVE21	14	ENSG00000100711	104182067	104200005	84	29	358369	4.7544	9.95E-07	0.000594108
C5orf56	5	ENSG00000197536	131746328	131811736	289	30	358369	4.7403	1.07E-06	0.000599679
LSM2	6	ENSG00000204392	31765173	31774761	43	21	358369	4.7415	1.06E-06	0.000599679
CHTF8	16	ENSG00000168802	69151913	69166487	43	20	358369	4.727	1.14E-06	0.000622015
ZNF652	17	ENSG00000198740	47366568	47439835	241	33	358369	4.714	1.21E-06	0.000644437
C8orf12	8	ENSG00000184608	11225911	11296167	517	54	358369	4.7005	1.30E-06	0.000670243
SH2D7	15	ENSG00000183476	78370150	78397251	108	33	358369	4.6805	1.43E-06	0.000719429
PPP1R13B	14	ENSG00000088808	104200089	104313927	444	32	358369	4.6506	1.66E-06	0.000810872
PPT2	6	ENSG00000221988	32121218	32134011	56	26	358369	4.6362	1.77E-06	0.000847682
XKR6	8	ENSG00000171044	10753555	11058875	1719	72	358369	4.6211	1.91E-06	0.000889314
VPS4A	16	ENSG00000132612	69345259	69358949	60	17	358369	4.6148	1.97E-06	0.000894935
SEPT8	5	ENSG00000164402	132086509	132142933	166	30	358369	4.5883	2.23E-06	0.000973675
C2	6	ENSG00000166278	31865562	31913449	207	52	358369	4.5876	2.24E-06	0.000973675
RP11-343C2.11	16	ENSG00000260914	69333585	69354614	62	16	358369	4.5696	2.44E-06	0.001037553
BTN2A2	6	ENSG00000124508	26383324	26395102	74	21	358369	4.5351	2.88E-06	0.001195517
GPANK1	6	ENSG00000204438	31629006	31634060	32	14	358369	4.4966	3.45E-06	0.001403755
ADAM19	5	ENSG00000135074	156822542	157002783	904	54	358369	4.4707	3.90E-06	0.001520215
SNTB2	16	ENSG00000168807	69221032	69342955	403	44	358369	4.4733	3.85E-06	0.001520215
SMAD3	15	ENSG00000166949	67356101	67487533	552	86	358369	4.4566	4.16E-06	0.001590772
WDR90	16	ENSG00000161996	699311	717833	111	15	358369	4.4454	4.39E-06	0.001643539
KLC1	14	ENSG00000126214	104028233	104167888	563	41	358369	4.4336	4.63E-06	0.001702287
MPL	1	ENSG00000117400	43803478	43818443	31	14	358369	4.4281	4.75E-06	0.0017053
PRRT1	6	ENSG00000204314	32116136	32122150	12	7	358369	4.4251	4.82E-06	0.0017053
BTN1A1	6	ENSG00000124557	26501449	26510650	39	13	358369	4.4058	5.27E-06	0.001797935
FNDC9	5	ENSG00000172568	156768608	156772729	22	8	358369	4.4062	5.26E-06	0.001797935
IL17RD	3	ENSG00000144730	57124010	57204334	328	39	358369	4.4008	5.39E-06	0.00180769
AGPAT1	6	ENSG00000204310	32135989	32145873	28	13	358369	4.3745	6.09E-06	0.001944679
AL049840.1	14	ENSG00000224997	104177607	104179149	4	2	358369	4.3762	6.04E-06	0.001944679
CTC-490E21.12	19	ENSG00000268797	41307202	41404187	593	73	358369	4.3737	6.11E-06	0.001944679
TET2	4	ENSG00000168769	106067032	106200973	503	55	358369	4.3581	6.56E-06	0.002054629
CFB	6	ENSG00000243649	31895475	31919861	118	33	358369	4.3505	6.79E-06	0.002065558
CFB	6	ENSG00000244255	31895475	31919825	117	33	358369	4.3499	6.81E-06	0.002065558
PPT2-EGFL8	6	ENSG00000258388	32121622	32139755	76	32	358369	4.3455	6.95E-06	0.002074722
IDH3A	15	ENSG00000166411	78423840	78464291	138	34	358369	4.3047	8.36E-06	0.002457307
ZNF322	6	ENSG00000181315	26636518	26659980	118	23	358369	4.2877	9.03E-06	0.002613461
SEMA6D	15	ENSG00000137872	47476298	48066420	2581	104	358369	4.27	9.77E-06	0.002786685
APOE	19	ENSG00000130203	45409011	45412650	11	7	358369	4.2572	1.04E-05	0.002883519
C6orf48	6	ENSG00000204387	31802385	31807541	31	17	358369	4.2526	1.06E-05	0.002883519
RP11-73M18.2	14	ENSG00000256500	104029299	104152261	494	48	358369	4.2531	1.05E-05	0.002883519
TIE1	1	ENSG00000066056	43766664	43788779	62	17	358369	4.2454	1.09E-05	0.002936288
TNKS	8	ENSG00000173273	9413424	9639856	1224	36	358369	4.2329	1.15E-05	0.003034087
HIST1H2BK	6	ENSG00000197903	27106073	27114619	25	13	358369	4.2318	1.16E-05	0.003034087
MSH5	6	ENSG00000204410	31707725	31732622	116	39	358369	4.207	1.29E-05	0.003341401
CPEB3	10	ENSG00000107864	93806449	94050844	667	61	358369	4.1932	1.38E-05	0.003458116
MSH5-SAPCD1	6	ENSG00000255152	31707797	31732628	115	38	358369	4.1959	1.36E-05	0.003458116
DENND2D	1	ENSG00000162777	111729796	111747157	72	31	358369	4.1902	1.39E-05	0.003458367
TERF2	16	ENSG00000132604	69389464	69442474	145	38	358369	4.1804	1.46E-05	0.003563335
CYP21A2	6	ENSG00000231852	32006042	32009447	42	23	358369	4.1775	1.47E-05	0.003563335
ABT1	6	ENSG00000146109	26597180	26600278	18	7	358369	4.1727	1.51E-05	0.003594982
CIB4	2	ENSG00000157884	26804070	26864236	269	44	358369	4.1612	1.58E-05	0.003717244
ATF6B	6	ENSG00000213676	32065953	32096030	109	44	358369	4.1594	1.60E-05	0.003717244
HMG20A	15	ENSG00000140382	77712754	77777949	200	35	358369	4.1301	1.81E-05	0.004172832
TNXB	6	ENSG00000168477	32008931	32083111	317	59	358369	4.1274	1.83E-05	0.004172832
CSNK2B	6	ENSG00000204435	31633013	31638120	22	11	358369	4.1237	1.86E-05	0.004190502
STAR	8	ENSG00000147465	38001167	38008783	23	12	358369	4.0989	2.08E-05	0.004611452
LOXL3	2	ENSG00000115318	74759541	74782817	64	21	358369	4.0876	2.18E-05	0.004786853
MGA	15	ENSG00000174197	41913422	42062141	456	48	358369	4.0842	2.21E-05	0.004801068
TMED6	16	ENSG00000157315	69377151	69385712	29	16	358369	4.0772	2.28E-05	0.004891821
PVRIG	7	ENSG00000213413	99815864	99819113	25	9	358369	4.0715	2.34E-05	0.00495763
RTKN	2	ENSG00000114993	74652963	74669549	45	19	358369	4.0656	2.40E-05	0.00502997
TCF20	22	ENSG00000100207	42556019	42739622	639	69	358369	4.048	2.58E-05	0.005363875
NR2F1	5	ENSG00000175745	92919043	92930321	21	14	358369	4.0448	2.62E-05	0.005378929
MSRA	8	ENSG00000175806	9911778	10286401	2491	126	358369	4.0414	2.66E-05	0.005400776
TBC1D2B	15	ENSG00000167202	78276378	78370066	484	48	358369	4.0362	2.72E-05	0.005463194
AGER	6	ENSG00000204305	32148745	32152101	21	12	358369	4.0272	2.82E-05	0.005616264
RHOT2	16	ENSG00000140983	718086	724174	40	14	358369	4.0027	3.13E-05	0.006042058
NELFE	6	ENSG00000204356	31919864	31926887	30	15	358369	4.0038	3.12E-05	0.006042058
HSPA1B	6	ENSG00000204388	31795512	31798031	7	5	358369	4.003	3.13E-05	0.006042058
GPSM3	6	ENSG00000213654	32158543	32163300	18	10	358369	3.9862	3.36E-05	0.006414029
SERGEF	11	ENSG00000129158	17809595	18034709	682	87	358369	3.98	3.45E-05	0.006519838
ASH2L	8	ENSG00000129691	37962760	38001594	131	34	358369	3.9772	3.49E-05	0.006530286
LNPEP	5	ENSG00000113441	96271098	96373219	433	33	358369	3.9392	4.09E-05	0.007552724
PEAK1	15	ENSG00000173517	77400471	77712486	875	59	358369	3.9355	4.15E-05	0.007552724
FAM109B	22	ENSG00000177096	42470255	42475445	15	5	358369	3.937	4.13E-05	0.007552724
PPP2R5C	14	ENSG00000078304	102228135	102394326	723	78	358369	3.925	4.34E-05	0.007747442
ERAP2	5	ENSG00000164308	96211643	96255420	267	16	358369	3.9249	4.34E-05	0.007747442
STAG3	7	ENSG00000066923	99775186	99819111	181	24	358369	3.9225	4.38E-05	0.007750896
SYN3	22	ENSG00000185666	32908539	33454358	2623	167	358369	3.9154	4.51E-05	0.007910123
THAP9	4	ENSG00000168152	83821837	83841122	62	13	358369	3.9121	4.57E-05	0.007946254
RP1L1	8	ENSG00000183638	10463859	10569697	671	108	358369	3.9086	4.64E-05	0.007949024
C6orf10	6	ENSG00000204296	32256303	32339684	970	34	358369	3.9077	4.66E-05	0.007949024
BLK	8	ENSG00000136573	11351510	11422113	559	48	358369	3.893	4.95E-05	0.008369711
HIST1H2BJ	6	ENSG00000124635	27093676	27100541	23	12	358369	3.8873	5.07E-05	0.008493229
RNF5	6	ENSG00000204308	32146131	32151930	33	13	358369	3.8758	5.31E-05	0.008830092
HLA-DRB5	6	ENSG00000198502	32485120	32498064	3	2	358369	3.872	5.40E-05	0.008890685
MRPS9	2	ENSG00000135972	105654441	105716418	288	13	358369	3.8656	5.54E-05	0.009050349
WBP2NL	22	ENSG00000183066	42394729	42454460	168	23	358369	3.857	5.74E-05	0.009293127
AAGAB	15	ENSG00000103591	67493371	67547533	178	27	358369	3.8348	6.28E-05	0.009934535
CSF3	17	ENSG00000108342	38171614	38174066	12	4	358369	3.8345	6.29E-05	0.009934535
CTBP2	10	ENSG00000175029	126676421	126849739	999	112	358369	3.8372	6.22E-05	0.009934535
SEC14L4	22	ENSG00000133488	30884900	30901698	93	20	358369	3.828	6.46E-05	0.010114807
DGKE	17	ENSG00000153933	54911460	54946036	145	21	358369	3.8102	6.94E-05	0.010786445
DBH	9	ENSG00000123454	136501482	136524466	172	42	358369	3.7998	7.24E-05	0.011069679
IST1	16	ENSG00000182149	71879899	71962913	301	41	358369	3.7999	7.24E-05	0.011069679
RP11-343C2.7	16	ENSG00000259900	69369179	69385633	61	22	358369	3.785	7.69E-05	0.011654815
THRA	17	ENSG00000126351	38214543	38250120	100	36	358369	3.7785	7.89E-05	0.011850602
SDK1	7	ENSG00000146555	3341080	4308632	6181	193	358369	3.7765	7.95E-05	0.011850602
LIN54	4	ENSG00000189308	83831126	83934079	351	25	358369	3.7739	8.04E-05	0.011850602
CYP2A6	19	ENSG00000255974	41349443	41356352	53	20	358369	3.7731	8.06E-05	0.011850602
MFHAS1	8	ENSG00000147324	8640864	8751155	792	62	358369	3.7647	8.34E-05	0.012161824
FBXW7	4	ENSG00000109670	153242410	153457253	728	42	358369	3.7607	8.47E-05	0.012191952
CNPY4	7	ENSG00000166997	99717236	99723134	23	14	358369	3.7597	8.51E-05	0.012191952
HIST1H1C	6	ENSG00000187837	26055968	26056699	13	8	358369	3.7575	8.58E-05	0.012191952
GPC2	7	ENSG00000213420	99767229	99774995	22	13	358369	3.7555	8.65E-05	0.012191952
RP11-343C2.9	16	ENSG00000260371	69368994	69390209	67	25	358369	3.7547	8.68E-05	0.012191952
ERI1	8	ENSG00000104626	8859657	8974256	814	58	358369	3.7474	8.93E-05	0.012457346
KCNQ2	20	ENSG00000075043	62037542	62103993	390	50	358369	3.7298	9.58E-05	0.013124341
BTAF1	10	ENSG00000095564	93683526	93790082	312	35	358369	3.7285	9.63E-05	0.013124341
FAM129A	1	ENSG00000135842	184759858	184943682	747	79	358369	3.7271	9.69E-05	0.013124341
AC018470.1	2	ENSG00000268241	175200601	175202151	3	2	358369	3.7271	9.68E-05	0.013124341
GRK4	4	ENSG00000125388	2965335	3042474	383	36	358369	3.7161	0.00010117	0.013613065
EPS8L3	1	ENSG00000198758	110292702	110306649	70	27	358369	3.7134	0.00010223	0.013659501
ADD1	4	ENSG00000087274	2845584	2931803	342	37	358369	3.7014	0.00010722	0.013980605
C20orf112	20	ENSG00000197183	31030862	31172876	451	59	358369	3.7023	0.00010681	0.013980605
SLC22A5	5	ENSG00000197375	131705444	131731306	144	24	358369	3.7006	0.00010756	0.013980605
CTD-2260A17.2	5	ENSG00000247121	96149731	96271513	760	46	358369	3.7022	0.00010689	0.013980605
ZKSCAN1	7	ENSG00000106261	99613204	99639312	79	26	358369	3.6953	0.00010982	0.013988872
DOK1	2	ENSG00000115325	74776153	74784681	26	11	358369	3.6982	0.00010855	0.013988872
AIF1	6	ENSG00000204472	31582961	31584798	9	4	358369	3.6955	0.00010972	0.013988872
ARHGAP29	1	ENSG00000137962	94614544	94740624	360	72	358369	3.6826	0.00011543	0.014606099
SBF2	11	ENSG00000133812	9800214	10315754	2676	67	358369	3.6724	0.00012016	0.015104586
RBMS3	3	ENSG00000144642	29322473	30051886	3953	235	358369	3.6704	0.00012109	0.015113141
NAGA	22	ENSG00000198951	42454358	42466846	33	11	358369	3.6689	0.00012181	0.015113141
ZPBP2	17	ENSG00000186075	38024417	38034149	48	8	358369	3.6657	0.00012334	0.015186391
THSD4	15	ENSG00000187720	71389291	72075722	3290	240	358369	3.6643	0.00012399	0.015186391
HLA-DQB1	6	ENSG00000179344	32627244	32636160	285	17	358369	3.6583	0.00012696	0.015451113
TCF19	6	ENSG00000137310	31126319	31134936	66	13	358369	3.656	0.00012808	0.015488763
ATP6V1H	8	ENSG00000047249	54628117	54756118	403	46	358369	3.6535	0.00012932	0.01554036
SLMAP	3	ENSG00000163681	57741177	57914895	465	60	358369	3.6515	0.00013034	0.01556504
RNF217	6	ENSG00000146373	125283691	125413779	503	94	358369	3.6494	0.00013144	0.015598907
CCNL1	3	ENSG00000163660	156864297	156878549	40	10	358369	3.6439	0.00013428	0.015740417
ANAPC10	4	ENSG00000164162	145888264	146019693	291	61	358369	3.6445	0.00013396	0.015740417
FOXP1	3	ENSG00000114861	71003844	71633140	2240	210	358369	3.6404	0.00013612	0.015762696
HS3ST6	16	ENSG00000162040	1961464	1968441	63	12	358369	3.6405	0.00013607	0.015762696
AC010646.3	19	ENSG00000269095	17346749	17366257	85	25	358369	3.638	0.00013736	0.015810467
DEFB130	8	ENSG00000232948	12168471	12175825	2	1	358369	3.6343	0.00013934	0.015942332
XXbac-BPG32J3.20	6	ENSG00000204422	31654739	31681849	105	34	358369	3.6323	0.00014043	0.015971405
RBPJ	4	ENSG00000168214	26165077	26436541	975	119	358369	3.6295	0.00014197	0.016051011
RP11-81K2.1	17	ENSG00000262039	47448102	47554350	450	88	358369	3.6243	0.00014486	0.016281412
SLC45A4	8	ENSG00000022567	142217265	142318404	542	71	358369	3.622	0.00014615	0.016330339
SLC7A6	16	ENSG00000103064	68298433	68335722	111	28	358369	3.6188	0.00014801	0.016411035
GLYATL1	11	ENSG00000166840	58672871	58811000	650	39	358369	3.6177	0.00014859	0.016411035
COG8	16	ENSG00000213380	69354043	69373570	81	22	358369	3.615	0.0001502	0.016493514
ADAMTSL3	15	ENSG00000156218	84322838	84708594	1526	73	358369	3.6072	0.00015476	0.016897139
SMDT1	22	ENSG00000183172	42475695	42480288	12	7	358369	3.602	0.00015789	0.017140933
CHMP2A	19	ENSG00000130724	59062933	59066491	11	7	358369	3.5989	0.0001598	0.017250275
NIP7	16	ENSG00000132603	69373333	69377014	21	9	358369	3.589	0.00016596	0.017715071
ERBB2	17	ENSG00000141736	37844167	37886679	129	41	358369	3.5898	0.00016546	0.017715071
CYFIP2	5	ENSG00000055163	156693089	156822606	556	38	358369	3.5759	0.0001745	0.018373873
CCDC142	2	ENSG00000135637	74699113	74710535	36	17	358369	3.5726	0.00017674	0.018373873
CELF6	15	ENSG00000140488	72577068	72612470	148	27	358369	3.5723	0.00017694	0.018373873
HLA-DRA	6	ENSG00000204287	32407619	32412823	71	14	358369	3.5771	0.00017371	0.018373873
RP11-77K12.1	16	ENSG00000261717	75446582	75498604	327	25	358369	3.5739	0.00017584	0.018373873
HIC1	17	ENSG00000177374	1957448	1962981	24	15	358369	3.5654	0.00018168	0.018764107
MED24	17	ENSG00000008838	38175350	38217468	144	27	358369	3.5579	0.00018694	0.019203562
WNT3A	1	ENSG00000154342	228194752	228248961	182	37	358369	3.5534	0.00019017	0.01939767
M1AP	2	ENSG00000159374	74785010	74875465	248	45	358369	3.5524	0.00019086	0.01939767
CLU	8	ENSG00000120885	27454434	27472548	70	20	358369	3.5464	0.00019526	0.019646019
GSDMA	17	ENSG00000167914	38119226	38134019	70	16	358369	3.5463	0.00019536	0.019646019
KIF21A	12	ENSG00000139116	39687030	39837192	429	45	358369	3.5424	0.00019824	0.019831265
WWC1	5	ENSG00000113645	167718656	167899308	923	127	358369	3.5358	0.00020326	0.020227546
CFDP1	16	ENSG00000153774	75327596	75467383	829	31	358369	3.5334	0.0002051	0.0203049
SEPT3	22	ENSG00000100167	42372276	42394225	104	32	358369	3.523	0.00021331	0.020718001
ZNF821	16	ENSG00000102984	71893583	71929239	110	27	358369	3.5246	0.00021208	0.020718001
ARHGEF3	3	ENSG00000163947	56761446	57113357	1559	145	358369	3.5227	0.00021361	0.020718001
ARMS2	10	ENSG00000254636	124214169	124216868	17	4	358369	3.5254	0.00021145	0.020718001
FCRLA	1	ENSG00000132185	161676762	161684142	41	11	358369	3.5208	0.0002151	0.02075715
SLC44A4	6	ENSG00000204385	31830969	31846823	90	22	358369	3.5131	0.00022144	0.021261578
STK10	5	ENSG00000072786	171469077	171615390	756	74	358369	3.5006	0.00023208	0.021421993
GSDMB	17	ENSG00000073605	38060848	38076107	79	12	358369	3.5055	0.00022787	0.021421993
EPHX2	8	ENSG00000120915	27348296	27403081	232	28	358369	3.5076	0.00022613	0.021421993
KDM4B	19	ENSG00000127663	4969125	5153606	972	69	358369	3.5007	0.00023206	0.021421993
ABCD2	12	ENSG00000173208	39943835	40013553	257	40	358369	3.5035	0.00022957	0.021421993
SLC22A4	5	ENSG00000197208	131630136	131679899	218	30	358369	3.5057	0.0002277	0.021421993
ATXN1L	16	ENSG00000224470	71879894	71919171	121	31	358369	3.5092	0.00022472	0.021421993
GPX1	3	ENSG00000233276	49394609	49396033	3	1	358369	3.5007	0.00023204	0.021421993
HMMR	5	ENSG00000072571	162887209	162918947	121	27	358369	3.4958	0.00023631	0.021707573
MARCHF5	10	ENSG00000198060	94050920	94113721	155	36	358369	3.4941	0.00023783	0.021742669
P4HA2	5	ENSG00000072682	131527531	131631008	460	50	358369	3.4862	0.00024499	0.022081203
C6orf25	6	ENSG00000204420	31686371	31694491	34	17	358369	3.4868	0.00024438	0.022081203
ATP6V1G2	6	ENSG00000213760	31512239	31516204	22	12	358369	3.4862	0.000245	0.022081203
CELF6	15	ENSG00000273025	72559087	72612287	212	37	358369	3.483	0.0002479	0.022237677
TAF6	7	ENSG00000106290	99704693	99717464	47	22	358369	3.4802	0.00025053	0.022368583
BACH2	6	ENSG00000112182	90636248	91006627	1372	149	358369	3.4742	0.00025615	0.022763991
COPS4	4	ENSG00000138663	83955600	83996971	115	33	358369	3.4715	0.0002588	0.022893017
PGAP3	17	ENSG00000161395	37827375	37853050	107	13	358369	3.4535	0.00027671	0.024364507
PMFBP1	16	ENSG00000118557	72146056	72210777	258	33	358369	3.4513	0.00027898	0.024451701
BSN	3	ENSG00000164061	49591922	49708978	296	38	358369	3.4475	0.00028292	0.024683801
MEI1	22	ENSG00000167077	42095503	42195460	395	28	358369	3.4448	0.00028578	0.024707685
MTFP1	22	ENSG00000242114	30821518	30825045	18	10	358369	3.4457	0.00028475	0.024707685
RCN2	15	ENSG00000117906	77223960	77242601	50	25	358369	3.4364	0.0002948	0.025372719
TOMM40	19	ENSG00000130204	45393826	45406946	73	20	358369	3.4351	0.00029613	0.025372896
CHMP7	8	ENSG00000147457	23101150	23119512	94	26	358369	3.4277	0.00030437	0.02580375
SLC37A3	7	ENSG00000157800	139993493	140104233	549	61	358369	3.4271	0.00030507	0.02580375
GABRB1	4	ENSG00000163288	46995740	47428461	1778	124	358369	3.4269	0.00030521	0.02580375
CCDC150	2	ENSG00000144395	197504278	197628214	370	34	358369	3.424	0.00030858	0.025859816
FAM167A	8	ENSG00000154319	11278972	11332224	432	50	358369	3.424	0.00030855	0.025859816
HLA-B	6	ENSG00000234745	31321649	31324965	14	6	358369	3.4145	0.00031952	0.026659688
RNF112	17	ENSG00000128482	19314438	19320589	14	4	358369	3.4133	0.00032092	0.02666008
BCL11B	14	ENSG00000127152	99635624	99737861	400	72	358369	3.4102	0.00032456	0.026730034
PPP1R3A	7	ENSG00000154415	113516832	113715975	619	38	358369	3.4113	0.0003233	0.026730034
ESRP2	16	ENSG00000103067	68263014	68272005	16	9	358369	3.4073	0.000328	0.026897408
HCG27	6	ENSG00000206344	31165537	31171745	88	15	358369	3.406	0.0003296	0.026913108
TRAM2	6	ENSG00000065308	52362200	52441713	453	51	358369	3.4018	0.00033469	0.026982793
PKM	15	ENSG00000067225	72491370	72524164	108	32	358369	3.402	0.00033447	0.026982793
SEC14L6	22	ENSG00000214491	30918786	30942669	142	25	358369	3.4023	0.00033409	0.026982793
RP11-127H5.1	8	ENSG00000253350	105602961	106431488	3274	184	358369	3.3999	0.00033701	0.027055673
CIB2	15	ENSG00000136425	78396948	78423886	133	28	358369	3.397	0.00034066	0.02723427
PAFAH1B3	19	ENSG00000079462	42801185	42807698	13	6	358369	3.3906	0.00034875	0.027764859
MFSD10	4	ENSG00000109736	2932288	2936586	22	12	358369	3.3834	0.00035798	0.028266517
TP53TG3D	16	ENSG00000205456	32264040	32267240	3	2	358369	3.3834	0.00035801	0.028266517
NOP14	4	ENSG00000087269	2939660	2965112	123	32	358369	3.3794	0.00036317	0.02843889
LEPR	1	ENSG00000116678	65886248	66107242	870	46	358369	3.3805	0.00036183	0.02843889
EFHC1	6	ENSG00000096093	52285106	52387892	456	53	358369	3.3701	0.00037576	0.028760983
NHP2L1	22	ENSG00000100138	42069934	42086508	70	11	358369	3.3691	0.00037711	0.028760983
DHODH	16	ENSG00000102967	72042487	72058954	83	23	358369	3.3686	0.00037782	0.028760983
CNFN	19	ENSG00000105427	42891171	42894439	14	6	358369	3.3696	0.00037645	0.028760983
GATS	7	ENSG00000160844	99798283	99869855	260	53	358369	3.3725	0.00037246	0.028760983
AF131215.5	8	ENSG00000215346	10983980	10987745	19	7	358369	3.3709	0.00037458	0.028760983
SP9	2	ENSG00000217236	175199674	175203220	19	8	358369	3.3716	0.00037369	0.028760983
NDUFA6	22	ENSG00000184983	42481529	42486959	18	7	358369	3.3589	0.00039125	0.029665134
CEACAM8	19	ENSG00000124469	43084393	43099207	32	20	358369	3.3572	0.00039373	0.029735174
TPRG1L	1	ENSG00000158109	3541566	3546691	18	8	358369	3.3552	0.00039661	0.029834753
CELF4	18	ENSG00000101489	34823010	35146000	1337	161	358369	3.3537	0.00039867	0.029872109
CLDN1	3	ENSG00000163347	190023490	190040264	113	31	358369	3.3511	0.00040253	0.030043518
ZRANB1	10	ENSG00000019995	126630692	126676758	143	26	358369	3.3492	0.00040528	0.03013107
RP11-343C2.12	16	ENSG00000272617	69362547	69368774	22	10	358369	3.3473	0.00040802	0.030217202
GABRA2	4	ENSG00000151834	46250444	46477247	835	64	358369	3.3453	0.00041092	0.030314473
LY6G6C	6	ENSG00000204421	31686425	31689622	17	9	358369	3.3438	0.00041321	0.030366167
HLA-DQA1	6	ENSG00000196735	32595956	32614839	560	21	358369	3.3281	0.00043727	0.03201118
ZFHX3	16	ENSG00000140836	72816784	73093597	1382	166	358369	3.3265	0.00043966	0.032063296
COL28A1	7	ENSG00000215018	7395834	7575484	1065	49	358369	3.3212	0.00044817	0.032559636
OBFC1	10	ENSG00000107960	105642300	105677963	129	19	358369	3.3192	0.00045144	0.03267297
DFFA	1	ENSG00000160049	10516579	10532583	62	27	358369	3.317	0.0004549	0.032799148
RMDN2	2	ENSG00000115841	38150330	38294285	709	52	358369	3.315	0.00045829	0.032894096
CYP2C8	10	ENSG00000138115	96796530	96829254	204	29	358369	3.3141	0.00045966	0.032894096
MAN2A1	5	ENSG00000112893	109025067	109205326	888	42	358369	3.3101	0.00046623	0.033239763
TENM2	5	ENSG00000145934	166711804	167691162	3765	332	358369	3.3056	0.00047388	0.033659573
DAG1	3	ENSG00000173402	49506146	49573048	187	34	358369	3.2972	0.00048829	0.034554656
NPRL2	3	ENSG00000114388	50384761	50388522	7	4	358369	3.2941	0.00049365	0.034578771
NEK6	9	ENSG00000119408	127019885	127115586	391	46	358369	3.2939	0.00049406	0.034578771
TMEM170A	16	ENSG00000166822	75476952	75499395	162	27	358369	3.2959	0.0004905	0.034578771
RAB32	6	ENSG00000118508	146864829	146876101	39	15	358369	3.2899	0.00050108	0.034942101
MROH1	8	ENSG00000179832	145202919	145316843	203	47	358369	3.2888	0.00050306	0.034952609
PRR19	19	ENSG00000188368	42806250	42814973	20	10	358369	3.2845	0.00051082	0.03536318
ATXN1	6	ENSG00000124788	16299343	16761722	2203	256	358369	3.2817	0.00051588	0.035584546
ELAVL4	1	ENSG00000162374	50513686	50669458	394	81	358369	3.2762	0.00052612	0.035679274
TRMT61A	14	ENSG00000166166	103995521	104003410	37	13	358369	3.2796	0.00051984	0.035679274
HTT	4	ENSG00000197386	3076408	3245676	638	52	358369	3.2771	0.00052441	0.035679274
KM-PA-2	8	ENSG00000204775	145317003	145331153	1	1	358369	3.2759	0.00052659	0.035679274
MUC22	6	ENSG00000261272	30978251	31003179	430	38	358369	3.2789	0.000521	0.035679274
HGSNAT	8	ENSG00000165102	42995556	43057998	156	54	358369	3.2707	0.00053636	0.036212829
AP4M1	7	ENSG00000221838	99699172	99707968	32	11	358369	3.2652	0.00054692	0.036795776
KIF3A	5	ENSG00000131437	132028320	132073330	164	23	358369	3.2579	0.00056123	0.037483555
SDCBP	8	ENSG00000137575	59465483	59495419	130	22	358369	3.256	0.00056499	0.037483555
TEF	22	ENSG00000167074	41763337	41795330	119	25	358369	3.2566	0.0005638	0.037483555
LY6G6F	6	ENSG00000204424	31674640	31685581	53	21	358369	3.2583	0.00056035	0.037483555
CYP2A7	19	ENSG00000198077	41381344	41388657	105	14	358369	3.2501	0.00057679	0.038134002
MEGT1	6	ENSG00000250641	31674681	31685695	54	21	358369	3.2439	0.00058952	0.038841237
RABGAP1L	1	ENSG00000152061	174128548	174964445	2874	44	358369	3.2427	0.00059207	0.038875194
PDLIM4	5	ENSG00000131435	131593364	131609147	70	17	358369	3.2415	0.00059451	0.038901721
SLC25A17	22	ENSG00000100372	41165634	41215403	125	28	358369	3.238	0.00060195	0.039013903
C15orf27	15	ENSG00000169758	76352178	76521462	646	80	358369	3.2396	0.00059845	0.039013903
HLA-DPB1	6	ENSG00000223865	33043703	33054978	340	23	358369	3.2378	0.00060235	0.039013903
LONRF2	2	ENSG00000170500	100889753	100939195	272	22	358369	3.236	0.000606	0.039117709
FANK1	10	ENSG00000203780	127585108	127698161	487	38	358369	3.2302	0.00061841	0.039784377
MOGS	2	ENSG00000115275	74688184	74692537	11	6	358369	3.2268	0.00062583	0.039806881
TRIM24	7	ENSG00000122779	138145079	138274738	392	57	358369	3.225	0.00062987	0.039806881
SLCO5A1	8	ENSG00000137571	70579282	70747299	750	98	358369	3.2244	0.00063126	0.039806881
APEH	3	ENSG00000164062	49711435	49721396	18	9	358369	3.2286	0.00062202	0.039806881
TDRD6	6	ENSG00000180113	46655612	46672056	46	27	358369	3.2244	0.0006312	0.039806881
ARHGEF38	4	ENSG00000236699	106473777	106629250	687	79	358369	3.2278	0.00062381	0.039806881
SLC35G5	8	ENSG00000177710	11188397	11189717	14	5	358369	3.2206	0.00063966	0.040155396
SZT2	1	ENSG00000198198	43855553	43918321	172	31	358369	3.22	0.00064099	0.040155396
RERE	1	ENSG00000142599	8412457	8877702	1207	58	358369	3.217	0.00064767	0.040416595
EHMT2	6	ENSG00000204371	31847536	31865464	84	38	358369	3.2163	0.00064939	0.040416595
TRIM35	8	ENSG00000104228	27142404	27168836	97	30	358369	3.2119	0.00065929	0.04073674
AP1G1	16	ENSG00000166747	71762913	71843104	320	40	358369	3.2129	0.00065703	0.04073674
VWA7	6	ENSG00000204396	31733367	31745108	54	22	358369	3.2112	0.00066093	0.04073674
IFI27L2	14	ENSG00000119632	94594116	94596590	7	4	358369	3.208	0.0006683	0.041016972
DSTYK	1	ENSG00000133059	205111632	205180727	226	29	358369	3.2074	0.00066977	0.041016972
ZC3H7B	22	ENSG00000100403	41697526	41756151	182	40	358369	3.202	0.00068242	0.041477961
FCGR2A	1	ENSG00000143226	161475220	161493803	112	33	358369	3.2021	0.00068221	0.041477961
STAT5B	17	ENSG00000173757	40351186	40428725	203	54	358369	3.2014	0.00068381	0.041477961
GAL3ST4	7	ENSG00000197093	99756867	99766373	34	18	358369	3.1993	0.00068874	0.041644795
ABI3	17	ENSG00000108798	47287589	47300587	62	19	358369	3.1966	0.00069538	0.041679614
APOC1	19	ENSG00000130208	45417504	45422606	20	11	358369	3.1964	0.00069586	0.041679614
FLJ20373	2	ENSG00000233404	102508955	102511150	4	2	358369	3.1966	0.00069539	0.041679614
MAP4K4	2	ENSG00000071054	102313312	102511149	635	59	358369	3.1938	0.00070203	0.041917773
PSRC1	1	ENSG00000134222	109822178	109825808	16	11	358369	3.1843	0.00072564	0.043027788
PEX14	1	ENSG00000142655	10532345	10690815	580	55	358369	3.1822	0.00073088	0.043027788
NUDCD2	5	ENSG00000170584	162873532	162887146	38	15	358369	3.1819	0.00073163	0.043027788
FAM26E	6	ENSG00000178033	116832809	116845955	52	12	358369	3.1818	0.00073188	0.043027788
DEFB134	8	ENSG00000205882	11850692	11853821	20	8	358369	3.1832	0.00072828	0.043027788
TRPC1	3	ENSG00000144935	142442916	142526730	255	27	358369	3.18	0.00073631	0.043155445
KRTAP19-1	21	ENSG00000184351	31852018	31852663	2	1	358369	3.1742	0.00075133	0.043789982
RP11-481A20.11	8	ENSG00000255098	11870545	11873043	33	13	358369	3.174	0.00075172	0.043789982
FXYD3	19	ENSG00000089356	35606732	35615228	44	14	358369	3.1712	0.00075915	0.044088386
CHD3	17	ENSG00000170004	7788124	7816078	86	37	358369	3.1692	0.00076441	0.044259339
STAT5A	17	ENSG00000126561	40439565	40463961	99	21	358369	3.1662	0.0007723	0.044581076
MYO9A	15	ENSG00000066933	72114632	72410918	901	48	358369	3.163	0.00078063	0.044888253
MSI2	17	ENSG00000153944	55333212	55762046	1962	254	358369	3.1624	0.00078232	0.044888253
TUSC2	3	ENSG00000114383	50357458	50365682	15	9	358369	3.1603	0.00078811	0.044950501
DCTN1	2	ENSG00000204843	74588281	74619214	90	33	358369	3.1607	0.00078682	0.044950501
MZF1	19	ENSG00000099326	59073298	59084942	47	18	358369	3.1545	0.00080387	0.045577282
HYAL1	3	ENSG00000114378	50337320	50349812	37	16	358369	3.1546	0.00080363	0.045577282
TANGO6	16	ENSG00000103047	68877507	69119083	799	52	358369	3.1476	0.000823	0.046014447
TRPS1	8	ENSG00000104447	116420724	116821899	1297	79	358369	3.1468	0.00082532	0.046014447
USP15	12	ENSG00000135655	62654119	62811211	571	45	358369	3.1466	0.00082585	0.046014447
FOXA3	19	ENSG00000170608	46367247	46377055	39	16	358369	3.1474	0.00082371	0.046014447
LBX2	2	ENSG00000179528	74724644	74730443	22	10	358369	3.1507	0.00081442	0.046014447
PRR16	5	ENSG00000184838	119799973	120023027	1286	89	358369	3.1466	0.00082603	0.046014447
KCTD11	17	ENSG00000213859	7255208	7258258	4	2	358369	3.1443	0.0008325	0.046240051
IL12RB1	19	ENSG00000096996	18169805	18209754	199	31	358369	3.1398	0.00084525	0.046706123
PHF5A	22	ENSG00000100410	41855721	41864729	39	13	358369	3.1396	0.00084578	0.046706123
ELAVL2	9	ENSG00000107105	23690102	23826335	613	93	358369	3.1386	0.00084866	0.046730106
STK19	6	ENSG00000204344	31938868	31950598	53	23	358369	3.1367	0.00085421	0.046900547
TRPT1	11	ENSG00000149743	63991271	63993726	7	4	358369	3.1348	0.00085998	0.046947537
PHACTR4	1	ENSG00000204138	28696114	28826881	532	21	358369	3.1348	0.00085993	0.046947537
TSPAN3	15	ENSG00000140391	77336359	77376326	89	27	358369	3.1318	0.00086869	0.04728792
ATP6V1G2-DDX39B	6	ENSG00000254870	31497996	31514385	121	31	358369	3.1289	0.00087723	0.047617141
NLGN2	17	ENSG00000169992	7308193	7323179	59	30	358369	3.1264	0.00088493	0.047629176
GRAMD2	15	ENSG00000175318	72452148	72490126	127	43	358369	3.127	0.00088305	0.047629176
LSMEM2	3	ENSG00000179564	50316458	50325545	20	10	358369	3.1276	0.00088128	0.047629176
CDC20	1	ENSG00000117399	43824626	43828874	11	7	358369	3.124	0.00089202	0.047728115
PAQR8	6	ENSG00000170915	52226219	52272575	226	55	358369	3.1234	0.00089381	0.047728115
HSPA6	1	ENSG00000173110	161494036	161496681	16	8	358369	3.1226	0.00089635	0.047728115
RANBP17	5	ENSG00000204764	170288874	170727019	1446	47	358369	3.1225	0.00089676	0.047728115
TLX2	2	ENSG00000115297	74740590	74744274	3	2	358369	3.1148	0.00092033	0.048466511
PPP1R1C	2	ENSG00000150722	182818968	182996125	732	86	358369	3.1152	0.00091915	0.048466511
PHOSPHO1	17	ENSG00000173868	47300724	47308128	23	9	358369	3.1147	0.00092078	0.048466511
TOB2	22	ENSG00000183864	41829496	41843027	47	14	358369	3.1166	0.00091482	0.048466511
COL4A2	13	ENSG00000134871	110958159	111165374	1367	164	358369	3.1113	0.0009312	0.048880325
IL18R1	2	ENSG00000115604	102927989	103015218	519	32	358369	3.109	0.00093863	0.049001102
SCAPER	15	ENSG00000140386	76640526	77197785	1703	49	358369	3.1091	0.00093826	0.049001102
C16orf13	16	ENSG00000130731	684429	686358	8	5	358369	3.1051	0.00095116	0.049385364
CSNK2B-LY6G5B-1181	6	ENSG00000263020	31633879	31641323	35	17	358369	3.1052	0.00095085	0.049385364
ITPRIP	10	ENSG00000148841	106071894	106098162	98	26	358369	3.1007	0.00096533	0.049985258

START = start base position, STOP = end base position, hg19/GRCh37 build.

Table S7. 2 candidate genes obtained by multiple overlapping validation.

Gene symbole	CHR	Number [a]	Tissues
IREB2	15	8	Lung， Skin_Sun_Exposed_Lower_leg， Skin_Not_Sun_Exposed_Suprapubic， Testis， Cells_Cultured_fibroblasts， Nerve_Tibial， Adipose_Subcutaneous， Whole_Blood
DNAJA4	15	8	Artery_Coronary,Brain_Cerebellum,Testis,Minor_Salivary_Gland,Brain_Cortex,Brain_Frontal_Cortex_BA9,Artery_Aorta， Whole_Blood

[a] The number of tissues with FDR corrected PFUSION ≤ 0.05.

Table S8. The results of Bayesian co-localisation and SMR analysis

PANEL	Exposure	topSNP	Outcome	ProbeChr	probeID	b	se	or	or_lci95	or_uci95	pval	p_HEIDI	nsnp_HEIDI	PP.H0.abf	PP.H1.abf	PP.H2.abf	PP.H3.abf	PP.H4.abf
Testis	DNAJA4	rs10152977	COPD	15	ENSG00000140403	-0.346779	0.0815633	0.706961549	0.602514789	0.829514299	2.12E-05	0.005508255	9	3.98E-74	8.51E-68	4.68E-07	0.999999487	4.52E-08
Brain_Cerebellum		rs12915309	COPD	15	ENSG00000140403	0.0256351	0.0499829	1.025966505	0.930222584	1.131564948	0.6080379	0.005194513	5	1.49E-68	6.93E-68	0.1753467	0.814441105	0.010212228
Brain_Cortex		rs113415057	COPD	15	ENSG00000140403	-0.181979	0.0615678	0.833618846	0.738856256	0.940535287	0.003119045	NA	NA	3.93E-68	4.34E-68	0.4618775	0.509435114	0.028687392
eqtlgen_blood		rs2139444	COPD	15	ENSG00000140403	0.17504	0.037783	1.191293867	1.106260402	1.282863489	3.61E-06	0.001278122	20	2.80265619937894e-316	8.41E-68	3.33E-249	1	2.48E-65
Brain_Frontal_Cortex_BA9		rs8025999	COPD	15	ENSG00000140403	-0.227163	0.0703457	0.796790895	0.694168487	0.914584488	0.001241217	NA	NA	4.28E-68	3.59E-68	0.5029343	0.42175882	0.075306863
Adipose_Subcutaneous	IREB2	rs2869030	COPD	15	ENSG00000136381	-0.849645	0.193899	0.427566691	0.292384068	0.625250468	1.18E-05	1.79E-07	3	2.78E-69	8.22E-68	0.0326783	0.966036935	0.001284798
lung		rs7359276	COPD	15	ENSG00000136381	-1.39064	0.288405	0.248915947	0.141435174	0.43807454	1.42E-06	0.09598932	5	2.19E-69	7.95E-68	0.0257028	0.934362098	0.039935097
Nerve_Tibial		rs3743078	COPD	15	ENSG00000136381	-1.15221	0.245519	0.315937775	0.195259226	0.511200826	2.69E-06	0.01843723	3	7.90E-69	7.68E-68	0.0928288	0.902598437	0.004572763
Testis		rs11639224	COPD	15	ENSG00000136381	0.590174	0.140828	1.804302337	1.369096619	2.377850385	2.78E-05	0.005401373	5	1.38E-69	7.58E-68	0.0161935	0.890962774	0.092843766
eqtlgen_blood		rs12903295	COPD	15	ENSG00000136381	-0.272391	0.0229581	0.761556434	0.72804758	0.796607555	1.81E-32	1.05E-25	20	0	8.41E-68	0	1	1.90E-38
Cells_Cultured_fibroblasts		rs2568500	COPD	15	ENSG00000136381	0.4354	0.092021	1.545581168	1.290511743	1.85106502	2.23E-06	0.01673878	7	5.70E-72	8.51E-68	6.69E-05	0.99991173	2.13E-05
Skin_Not_Sun_Exposed_Suprapubic		rs74925218	COPD	15	ENSG00000136381	-0.617864	0.102246	0.539094715	0.441195955	0.658716628	1.51E-09	5.95E-06	20	6.59E-75	8.51E-68	7.74E-08	0.999999896	2.61E-08
Skin_Sun_Exposed_Lower_leg		rs11072763	COPD	15	ENSG00000136381	-0.82087	0.150679	0.440048646	0.327521741	0.591236507	5.10E-08	0.002995623	15	5.14E-72	8.51E-68	6.04E-05	0.999934668	4.98E-06

PP.H0 = posterior probability for no association. PP.H1 = posterior probability for association to trait 1 only.

PP.H2 = posterior probability for association to trait 2 only. PP.H3 = posterior probability for distinct signal values.

PP.H4 = posterior probability for shared signal values.

Bold values mean posterior probabilities PP.H3+PP.H4 > 0.8 and the genes probably shared the same signals of GWAS and eQTL.

Table S9. The functional pathway analysis of IREB2-related genemania

Function	FDR	Genes in network	Genes in genome
hydro-lyase activity	0.001929129	4	49
tricarboxylic acid metabolic process	0.001929129	3	10
carbon-oxygen lyase activity	0.004595009	4	67
iron-sulfur cluster binding	0.008978605	3	23
metal cluster binding	0.013241457	3	28
lyase activity	0.054389673	4	148
aerobic respiration	0.070347156	3	54
iron ion homeostasis	0.097941121	3	63
cellular transition metal ion homeostasis	0.399311655	3	105
metallo-sulfur cluster assembly	0.441951058	2	22

Table S10. The functional pathway analysis of DNAJA4-related genemania

Function	FDR	Genes in network	Genes in genome
protein folding	2.69E-10	8	83
de novo' posttranslational protein folding	1.15E-09	6	25
chaperone-mediated protein folding	1.92E-09	6	30
'de novo' protein folding	1.92E-09	6	30
ubiquitin-like protein ligase binding	1.31E-08	9	266
response to topologically incorrect protein	2.19E-08	8	177
ATPase regulator activity	0.00015462	4	36
regulation of inclusion body assembly	0.000421713	3	11
response to unfolded protein	0.000593214	5	136
response to temperature stimulus	0.000734463	5	145
cellular response to topologically incorrect protein	0.000900474	5	154
inclusion body assembly	0.001642039	3	19
cellular response to heat	0.002514292	4	83
response to heat	0.005540093	4	103