

Figure S1. Construction and Validation of FPI Model.

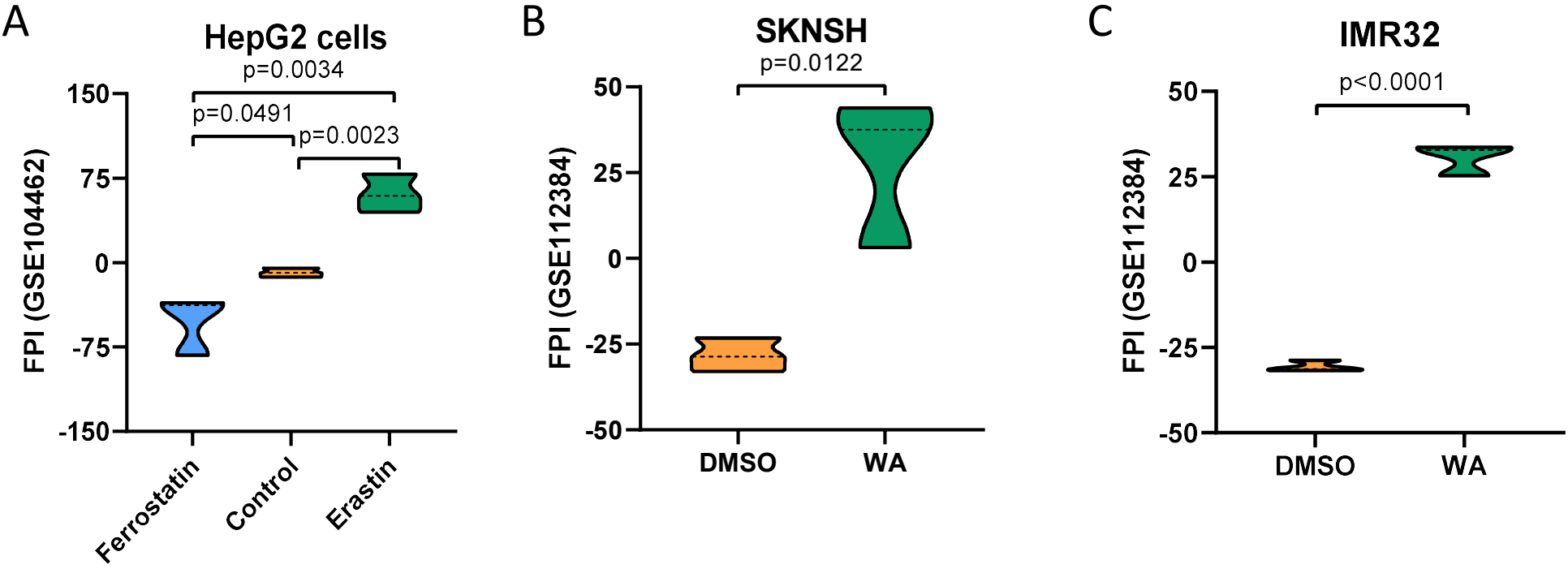


Table S1. The 121 human-related and validated ferroptosis-related genes.

RPL8
IREB2
ATP5MC3
CS
EMC2
ACSF2
G6PD
PGD
VDAC2
TP53
CARS1
KEAP1
HMOX1
ATG5
ATG7
NCOA4
TF
ALOX5
ALOX12
ALOX12B
ALOX15
ALOX15B
ALOXE3
PHKG2
ACSL4
SAT1
EGFR
NOX4
MAPK3
MAPK1
ZEB1
DPP4
CDKN2A
PEBP1
SOCS1
CDO1
MYB
SLC1A5
CHAC1
LINC00472
GOT1
BECN1
PRKAA2
PRKAA1
ELAVL1
BAP1
ABCC1
MIR6852
ACVR1B
TGFB1
IFNG
ANO6
HMGB1
TNFAIP3
ATF3
ATM
YY1AP1

EGLN2
MIOX
TAZ
MTDH
IDH1
PANX1
LONP1
SLC7A11
GPX4
AKR1C1
AKR1C2
AKR1C3
RB1
HSPB1
HSF1
NFE2L2
SQSTM1
NQO1
FTH1
MUC1
MT1G
SLC40A1
CISD1
HSPA5
ATF4
HELLS
SCD
FADS2
SRC
STAT3
PML
NFS1
TP63
CDKN1A
MIR137
FH
CISD2
MIR9-1
MIR9-2
MIR9-3
CBS
ISCU
ACSL3
OTUB1
CD44
LINC00336
BRD4
PRDX6
MIR17
SESN2
NF2
ARNTL
HIF1A
CA9
TMBIM4
AIFM2
LAMP2
ZFP36

PROM2
CHMP5
CHMP6
CAV1
GCH1
PTGS2

Table S2. The gene sets used for marking immune cells.

Activated B cell	ADAM28	CD180	CD79B	BLK	CD19	MS4A1	TNFRSF17
Activated CD4 T cell	AIM2	BIRC3	BRIP1	CCL20	CCL4	CCL5	CCNB1
Activated CD8 T cell	ADRM1	AHSA1	C1GALT1C	CCT6B	CD37	CD3D	CD3E
Central memory CD4	ABHD3	AHNAK	ANXA2P2	AQP3	ATHL1	BMI1	BZW2
Central memory CD8	ACTN4	ADAM12	ADCY9	F13A1	FCER1G	FCGR3B	FGF7
Effector memory CD	ATM	CASP3	CASQ1	CD300E	DARS	DOCK9	EXOSC9
Effector memory CD	ACAP1	APOL3	ARHGAP1	ATP10D	C3AR1	CCR5	CD160
Gamma delta T cell	ACP5	AQP9	BTN3A2	C1orf54	CARD8	CCL18	CD209
Immature B cell	CD22	CYBB	FAM129C	FCRL1	FCRL3	FCRL5	FCRLA
Memory B cell	AICDA	CCNA2	CDKN3	CLCN5	ENPP1	FCER1A	FCRL4
Regulatory T cell	CCL3L1	CD72	CLEC5A	FOXP3	ITGA4	L1CAM	LIPA
T follicular helper cell	B3GAT1	CDK5R1	PDCD1	BCL6	CD200	CD83	CD84
Type 1 T helper cell	CD70	TBX21	ADAM8	AHCYL2	ALCAM	B3GALNT1	BBS12
Type 17 T helper cell	IL17A	IL17RA	C2CD4A	C2CD4B	CA2	CCDC65	CEACAM3
Type 2 T helper cell	ASB2	CSRP2	DAPK1	DLC1	DNAJC12	DUSP6	GNAI1
Activated dendritic ce	ABCD1	C1QC	CAPG	CCL3L3	CD207	CD302	ATP5B
CD56bright natural ki	ABAT	C11orf75	C5orf15	CDHR1	DCAF12	DYNLL1	GPR137B
CD56dim natural kille	CYP27A1	DDX55	DYRK2	RPL37A	NOTCH3	AKR7A3	GPRC5C
Eosinophil	GIPR	KRT18P50	LRMP	FOSB	RRP12	GPR183	NR4A3
Immature dendritic ce	ACADM	AHCYL1	ALDH1A2	ALDH3A2	ALDH9A1	ALOX15	AMT
Macrophage	AIF1	CCL1	CCL14	CCL23	CCL26	CD300LB	CNR1
Mast cell	ADAMTS3	CPA3	CMA1	CTSG	ARHGAP1	CPM	FCN1
MDSC	CCR2	CD14	CD2	CD86	CXCR4	FCGR2A	FCGR2B
Monocyte	ASGR2	CFP	ASGR1	CD1D	UPK3A	ACTG1	ANXA5
Natural killer cell	AKT3	AXL	BST2	CDH2	CRTAM	CSF2RA	CTSZ
Natural killer T cell	BTN2A2	CD101	CD109	CNPY3	CNPY4	CREB1	CRTC2
Neutrophil	CREB5	CDA	CHST15	S100A12	APOBEC3	CASP5	MMP25
Plasmacytoid dendriti	CBX6	DAB2	DDX17	HIGD1A	IDH3A	IL3RA	MAGED1

IGHM	GNG7	MICAL3	SPIB	HLA-DOB	IGKC	PNOC	FCRL2	BACH2
CCR7	DUSP2	ESCO2	ETS1	EXO1	EXOC6	IARS	ITK	KIF11
CD3G	CD69	CD8A	CETN3	CSE1L	GEMIN6	GNLY	GPT2	GZMA
CD63	COL4A1	CYLD	ELMO2	FYN	GLIPR1	GSS	IFITM2	ITGB1
FKBP4	GLUD1	GM2A	GUSB	IL1RN	NOL11	NTRK1	RARA	RNF128
EZH2	GDE1	IL34	NCOA4	NEFL	PDGFRL	PTGS1	REPS1	SCG2
CD55	CFLAR	CMKLR1	DAPP1	FCRL6	FLT3LG	GZMM	HAPLN3	HLA-DMB
CD33	CD36	CDK5	IL10RB	KLRF1	LGALS1	MAPK7	KLHL7	KRT80
HDAC9	HLA-DQA	HVCN1	KIAA0226	NCF1	NCF1B	P2RY10	SP100	TXNIP
MYC	RUNX2	SORL1	SOX5	STAT5A	STAT5B	TLR9		
LRP1	LRRC42	MARCO	MMP12	MNDA	MRC1	MS4A6A	PELO	PLEK
FGF2	GPR18	CEBPA	CECR1	CLEC10A	CLEC4A	CSF1R	CTSS	DMN
BST1	CD151	CD47	CD48	CD52	CD53	CD59	CD6	CD68
IL17C	IL17F	IL17RC	IL17RE	IL23A	ILDR1	LONRF3	SH2D6	TNIP2
LAMP3	NRP2	OSBPL1A	PDE4B	PHLDA1	PLA2G4A	RAB27B	RBMS3	RNF125
ATP5L	ATP6V1A	BCL2L1	C1QB	SNURF	SPCS3	CCNA1	CEACAM8	NOS2
HCP5	HDGFRP2	KRT86	MLST8	ELMOD3	ENTPD5	FAM119A	FAM179A	CLIC2
GRIN1	HLA-E	PORCN	PSMC4	UPP1	IL21R	KIR2DS1	KIR2DS2	KIR2DS5
ST3GAL6	DEPDC5	PDE6C	PKD2L2	GPR65	IL5RA	P2RY14	DACH1	DAPK2
ARL1	ATIC	ATP5A1	CAPZA1	LILRA5	RDX	RRAGD	TACSTD2	INPP5F
CNR2	EIF1	EIF4A1	FPR1	FPR2	FRAT2	GPR27	GPR77	RNASE2
FTL	HSPA6	ITGA9	RNASE3	S100A4	SIGLEC8	SLC6A4	PTGS2	EGR3
FCGR3A	FERMT3	GPSM3	IL18BP	IL4R	ITGAL	ITGAM	PARVG	PSAP
ATP6V1B2	CFL1	DAZAP2	CTBS	EMR4P	HIVEP2	MARCKSL1	MBP	MMP15
CXCL1	CYTH1	DAXX	DGKH	DLL4	DPYD	ERBB3	F11R	FAM27A
CRTC3	CSF2	KLRC1	FUT4	ICAM2	IL32	LAMP2	LILRB5	KLRG1
HAL	C1orf183	FFAR2	MAK	CXCR1	STEAP4	MGAM	BTNL8	CXCR2
NUCB2	OFD1	OGT	PDIA4	SERTAD2	SIRPA	TMED2	ENG	FCAR

CR2	TCL1A	AKNA	ARHGAP21	CCL21	CD27	CD38	CLEC17A	CLEC9A
KNTC1	NUF2	PRC1	PSAT1	RGS1	RTKN2	SAMSN1	SELL	TRAT1
GZMH	GZMK	IL2RB	LCK	MPZL1	NKG7	PIK3IP1	PTRH2	TIMM13
ITGB2	KLF5	LSP1	NDUFB9	PKM2	SFXN3	SIRPG	SMAD4	STX4
SIGLEC1	TNFRSF11	TOX4	UBA52	ULBP1				
SDPR	SIGLEC14	SIGLEC6	TAL1	TFEC	TIPIN	TPK1	UQCRB	USP9Y
HLA-DPA1	HLA-DPB1	IFI16	LIME1	LTK	NFKBIA	SETD7	SIK1	TRIB2
LAMC1	LCORL	LMNB1	MEIS3P1	MPL	FABP1	FABP5	FADD	MFAP3L
STAP1	TAGAP	ZCCHC2						
PRSS23	PTGIR	ST8SIA4	STAB1					
DPP4	LRRC32	MC5R	MICA	NCAM1	NCR2	NRP1	PDCD1LG2	PDCD6
CD7	CD96	CFHR3	CHRM3	CLEC7A	COL23A1	COL4A4	COL5A3	DAB1
ABCA1	ABCB1	ADAMTS1	ANK1	ANKRD22	B3GALT2	CAMTA1	CCR9	CD40
TMPRSS3	GATA3	BIRC5	CDC25C	CDC7	CENPF	CXCR6	DHFR	EVI5
SRA1	TNFRSF6B	TREM1	TREML1	RHOA	SLC25A37	TNFSF14	TREML4	VNN2
COX7A2L	CREB3L4	CSF1	CSNK2A2	CSTA	CSTB	CTPS	CTSD	FST
EMR3								
RAB38	PLAU	CSF3R	SLC18A2	AMPD2	CLTB	C1orf162		
MS4A2	BASP1	IGSF6	HK3	VNN1	FES	NPL	FZD2	FAM198B
PILRA								
PTGER2	PTGES2	S100A8	S100A9					
PNPLA6	TMBIM6	PQBP1	TEX264	IKZF1				
FAM49A	FASLG	FCGR1A	FN1	FSTL1	FUCA1	GBP3	GLS2	GRB2
HSPA4	HSPB6	ISM2	ITIH2	KDM4C	KIR2DS4	KIRREL3	SDCBP	NFATC2IP
TNFRSF10	VNN3							
IGF1	ITGA2B	GABARAP	GPX1	KRT23	PROK2	RALB	RETNLB	RNF141

CLECL1

ZAP70

TRADD VIM XRCC6

WIPF1 ZCRB1

MINPP1 RPS24 RPS7 RPS9 DBNL CCL13

PRDX1 RAE1 RAET1E SIGLEC7 SIGLEC9 TYRO3 CHST12 CLIC3 IVNS1ABP

DLEU7 DOC2B EMP1 F12 FURIN GAB3 GATM GFPT2 GPR25

GPR44 IFT80

GSTA4 HELLS IL26 LAIR2

XPO6 CLEC4C TNFAIP2 UBD ACTR3 RAB1A SLA HLA-DQA:SIGLEC5

GATA2 GMPR HDC HEY1 HOXA1 HS2ST1 HS3ST1 BCL11B CDH3

HNMT SLC15A3 CD4 TXNDC3 FRMD4A CRYBB1 HRH1 WNT5B

LST1 BCL2 CDC5L FGF18 FUT5 FZR1 GAGE2 IGFBP5 KANK2

MICB KIR2DL1 KIR2DL3 KIR3DL1 KIR3DL2 NCR1 FOSL1 TSLP SLC7A7

SEC14L1 SEPX1 EMP3 CD300LF ABTB1 KLHL21 PHRF1

KIR2DL2 LGMN
GREM2 HAVCR1 HSD11B1 HUNK IGF2 RCSD1 RYR1 SAV1 SELE

SLAMF9
MYL6B NAA16 CIQA CIQB CYP27B1 EIF3M

LDB3
SPP1 TREM2 UBASH3A YBX2 CCDC88A CLEC1A THBD PDPN VCAM1

SELP SH3KBP1 SIT1 SLC35B3 SIGLEC10 SKAP1 THUMPD2 TIGIT ZEB2

EMR1

ENC1 FAM134B FBXO30

Table S3.1297 DEGs identified between two subtypes in the meta-GEO primary cohort.

row.names	(t logFC	AveExpr	t	P.Value	adj.P.Val	B
LGALS1	-1.05437	11.54113	-20.5639	5.69E-72	1.34E-67	153.0872
RAB31	-1.24272	9.484076	-20.2211	3.74E-70	4.40E-66	148.9335
GAS1	-1.30577	5.579589	-20.036	3.57E-69	2.80E-65	146.6962
DENND5A	-1.02702	8.087314	-20.0054	5.18E-69	3.05E-65	146.3263
GFPT2	-1.2794	5.83239	-19.5614	1.14E-66	5.34E-63	140.9799
FRMD6	-1.43443	7.998776	-18.7166	2.98E-62	1.17E-58	130.8856
FN1	-1.46673	11.32631	-18.6964	3.79E-62	1.27E-58	130.646
TUBA1A	-0.99771	11.04417	-18.227	1.03E-59	3.01E-56	125.0909
DPYSL3	-1.61135	6.568015	-18.2156	1.17E-59	3.07E-56	124.956
TUBB6	-1.20336	9.349039	-18.1407	2.86E-59	6.72E-56	124.0742
PTRF	-1.06923	7.439917	-18.0763	6.13E-59	1.23E-55	123.3164
PRRX1	-1.22962	5.473536	-18.0743	6.28E-59	1.23E-55	123.2925
SPOCK1	-1.94496	6.971497	-18.026	1.11E-58	2.02E-55	122.7245
FAP	-1.64033	7.374816	-17.9711	2.13E-58	3.58E-55	122.0803
C1R	-1.25136	9.518822	-17.8555	8.37E-58	1.31E-54	120.7238
EFEMP2	-1.02105	7.629937	-17.808	1.47E-57	2.16E-54	120.1678
SPARC	-1.0726	10.69433	-17.6902	5.88E-57	8.14E-54	118.7899
CDH11	-1.22803	6.999138	-17.6777	6.81E-57	8.90E-54	118.6438
IFFO1	-0.65911	6.579754	-17.6614	8.25E-57	1.02E-53	118.4537
C1orf54	-0.88634	8.989083	-17.6393	1.07E-56	1.26E-53	118.1961
SERPING1	-1.27945	8.770828	-17.63	1.19E-56	1.34E-53	118.0877
LOC1001328	-0.9884	4.965919	-17.555	2.88E-56	2.98E-53	117.2131
IQCJ-SCHIP1	-1.30368	6.295111	-17.5542	2.91E-56	2.98E-53	117.2028
PCOLCE	-1.18205	8.185896	-17.4934	5.95E-56	5.83E-53	116.4949
NID2	-1.17218	8.074956	-17.4585	8.95E-56	8.42E-53	116.0892
VEGFC	-0.95626	6.165329	-17.4369	1.15E-55	1.04E-52	115.8377
BGN	-1.2139	8.006188	-17.378	2.30E-55	2.00E-52	115.1533
PKD2	-1.12448	7.487499	-17.2876	6.62E-55	5.56E-52	114.104
OLFML2B	-1.20814	7.229852	-17.2813	7.12E-55	5.78E-52	114.0316
CSGALNACT	-0.84567	7.932547	-17.2026	1.79E-54	1.40E-51	113.1195
PLEKHO1	-1.01768	7.498816	-17.1542	3.14E-54	2.38E-51	112.5597
GUCY1B3	-1.25335	7.204476	-17.0895	6.68E-54	4.91E-51	111.8119
DDR2	-1.25757	6.881485	-17.0499	1.06E-53	7.54E-51	111.3552
STON1	-0.96609	5.252641	-17.0445	1.13E-53	7.79E-51	111.2931
COL6A2	-0.93405	7.160881	-16.9979	1.94E-53	1.30E-50	110.756
RILPL1	-0.71075	6.715364	-16.9945	2.01E-53	1.32E-50	110.7164
ANGPTL2	-1.0497	7.021413	-16.927	4.41E-53	2.74E-50	109.9391
BNIP2	-0.70619	8.070104	-16.9267	4.43E-53	2.74E-50	109.9353
MSRB3	-1.33514	6.419154	-16.9032	5.81E-53	3.50E-50	109.6658
TSHZ3	-0.98621	6.165724	-16.8727	8.28E-53	4.87E-50	109.3149
L3HYPDH	-0.71247	5.406064	-16.8467	1.12E-52	6.42E-50	109.0159
VGLL3	-1.24527	5.021221	-16.8333	1.31E-52	7.31E-50	108.8627
FERMT2	-1.24031	7.118974	-16.8098	1.71E-52	9.37E-50	108.5928
WISP1	-1.03742	5.377498	-16.7615	3.00E-52	1.57E-49	108.0383
LOC1019289	-1.33501	9.636889	-16.7562	3.19E-52	1.63E-49	107.9776
CHN1	-0.98504	7.96566	-16.7471	3.54E-52	1.77E-49	107.8732
EDNRA	-1.27581	6.138628	-16.7408	3.81E-52	1.87E-49	107.8007
PPP1R18	-0.77299	8.21565	-16.6876	7.04E-52	3.38E-49	107.1914
CTSL	-0.84602	9.850144	-16.6776	7.90E-52	3.72E-49	107.0775
QKI	-0.72003	6.263108	-16.6402	1.22E-51	5.61E-49	106.6494
RHOQ	-0.74697	8.269578	-16.6298	1.37E-51	6.08E-49	106.5307
TIMP2	-1.17398	9.923711	-16.6143	1.64E-51	7.14E-49	106.3527
CLMP	-1.40783	6.202792	-16.5963	2.02E-51	8.63E-49	106.1473
COL6A3	-1.09498	11.38951	-16.5784	2.48E-51	1.04E-48	105.9433
KATNAL1	-0.6772	5.405013	-16.5492	3.47E-51	1.43E-48	105.6097
GLI3	-0.93738	5.884883	-16.5434	3.71E-51	1.50E-48	105.5431

COLEC12	-1.54301	6.445486	-16.4249	1.45E-50	5.77E-48	104.1934
MXRA7	-1.03312	7.103905	-16.4031	1.86E-50	7.28E-48	103.9455
FBN1	-1.27125	7.501857	-16.3979	1.97E-50	7.61E-48	103.886
FBXL7	-0.94027	6.146044	-16.3964	2.01E-50	7.61E-48	103.869
FSTL1	-0.89745	7.785203	-16.3937	2.07E-50	7.72E-48	103.8389
11-Sep	-0.81477	6.234943	-16.3923	2.10E-50	7.73E-48	103.8221
TTC7B	-0.99092	6.056436	-16.3495	3.43E-50	1.24E-47	103.3366
FNDC1	-2.03331	6.589932	-16.3469	3.54E-50	1.26E-47	103.3064
GLIPR1	-1.10023	7.180956	-16.2432	1.16E-49	4.06E-47	102.1306
THY1	-0.95371	8.110134	-16.1962	1.98E-49	6.85E-47	101.598
CCL2	-1.44602	8.524403	-16.1823	2.32E-49	7.80E-47	101.4412
COL1A2	-1.10533	12.10624	-16.1578	3.07E-49	1.00E-46	101.1637
KLHL5	-1.0757	6.741995	-16.1554	3.15E-49	1.02E-46	101.1372
LOC1009966	-1.0686	6.108948	-16.1248	4.47E-49	1.42E-46	100.7909
FLNA	-1.12218	8.314412	-16.1106	5.26E-49	1.65E-46	100.6305
ZEB2	-0.91594	4.606018	-16.1033	5.71E-49	1.74E-46	100.5483
AKR7A3	1.120237	8.640767	16.09969	5.95E-49	1.79E-46	100.5076
BNC2	-1.11426	5.32323	-16.0828	7.21E-49	2.15E-46	100.3169
SULF1	-1.57523	9.042187	-16.0794	7.49E-49	2.20E-46	100.2791
HSD11B1	-1.33859	6.188894	-16.0736	8.00E-49	2.32E-46	100.2138
PDGFRB	-0.8536	7.583103	-16.0717	8.18E-49	2.35E-46	100.192
AEBP1	-1.179	8.675965	-16.0701	8.33E-49	2.36E-46	100.1733
TSPAN4	-0.74162	7.249444	-16.0597	9.38E-49	2.63E-46	100.0562
COL15A1	-1.18795	9.646945	-16.0462	1.09E-48	3.02E-46	99.90468
C1S	-1.29877	8.688807	-16.0431	1.13E-48	3.10E-46	99.86971
COL3A1	-1.04558	11.77623	-16.0399	1.17E-48	3.18E-46	99.83296
AKAP2 /// P/	-0.86555	8.464672	-15.995	1.95E-48	5.17E-46	99.32779
KCNJ8	-1.08093	6.360664	-15.984	2.22E-48	5.79E-46	99.20381
TRPC1	-1.24426	5.085442	-15.9174	4.71E-48	1.21E-45	98.45485
MPDZ	-1.1276	6.79968	-15.8721	7.88E-48	1.99E-45	97.94597
GLIPR2	-0.99585	6.830225	-15.863	8.73E-48	2.18E-45	97.8439
ENOX1	-0.75254	5.033657	-15.8591	9.13E-48	2.26E-45	97.79973
CMTM3	-0.64954	7.056884	-15.8577	9.27E-48	2.27E-45	97.78415
KIAA1462	-0.93229	5.063384	-15.8223	1.38E-47	3.35E-45	97.38743
MAFB	-0.96819	8.616661	-15.8044	1.69E-47	4.06E-45	97.18671
ZFPM2	-1.55184	5.224875	-15.7995	1.79E-47	4.25E-45	97.13209
GLT8D2	-1.21352	7.104922	-15.7967	1.85E-47	4.34E-45	97.10072
HEG1	-0.75378	8.076049	-15.7744	2.38E-47	5.53E-45	96.85111
SFRP2	-2.3025	7.699841	-15.704	5.26E-47	1.21E-44	96.06378
CHST11	-0.77433	6.69516	-15.6949	5.83E-47	1.33E-44	95.96165
THBS2	-1.71968	8.52545	-15.628	1.24E-46	2.80E-44	95.21534
CDS1	0.978012	7.885184	15.61516	1.43E-46	3.20E-44	95.07242
GUCY1A3	-1.4775	7.839373	-15.5933	1.83E-46	4.05E-44	94.82912
PDGFRL	-1.36115	5.767957	-15.5828	2.06E-46	4.52E-44	94.7116
VIM	-0.73921	8.042972	-15.5387	3.37E-46	7.34E-44	94.22102
CD248	-0.73476	7.932053	-15.5223	4.05E-46	8.74E-44	94.03866
TIMP3	-1.01026	7.682337	-15.5105	4.62E-46	9.88E-44	93.90787
COL8A2	-0.88296	5.880742	-15.5054	4.89E-46	1.04E-43	93.85124
UBE2E2	-0.98886	8.066138	-15.4216	1.25E-45	2.58E-43	92.92154
CCDC80	-1.44358	6.72709	-15.4082	1.45E-45	2.97E-43	92.77244
SLC2A14 ///	-1.01655	7.09355	-15.3964	1.66E-45	3.36E-43	92.64207
PRKD1	-0.58937	4.093267	-15.386	1.86E-45	3.74E-43	92.52612
EMP3	-0.83415	7.494902	-15.3671	2.30E-45	4.54E-43	92.31777
CHSY3	-0.80066	5.383848	-15.3606	2.47E-45	4.84E-43	92.2453
ZNF532	-0.72738	7.38795	-15.3553	2.62E-45	5.10E-43	92.18632
MIR100HG	-1.93297	5.952065	-15.3341	3.32E-45	6.40E-43	91.95252
NEXN	-1.64817	7.417413	-15.3278	3.56E-45	6.81E-43	91.88299
CTHRC1	-1.43551	9.884483	-15.3184	3.96E-45	7.51E-43	91.77846

LINC01279	-2.09821	6.317457	-15.3134	4.18E-45	7.87E-43	91.72342
GADD45B	-0.77898	7.385608	-15.312	4.25E-45	7.93E-43	91.70781
BICC1	-0.76398	5.270124	-15.3053	4.58E-45	8.48E-43	91.63367
VCAN	-1.17163	8.326498	-15.3027	4.72E-45	8.66E-43	91.60501
GPR124	-0.76935	6.903819	-15.255	8.02E-45	1.46E-42	91.07881
DNM3OS	-0.90584	4.615023	-15.2265	1.10E-44	1.99E-42	90.76406
SNAI2	-1.26539	7.212745	-15.2244	1.13E-44	2.02E-42	90.74159
TIMP1	-0.83463	11.5884	-15.2201	1.18E-44	2.11E-42	90.69341
GXYLT2	-1.17049	5.816694	-15.209	1.34E-44	2.36E-42	90.57182
IGFBP7	-0.72759	11.83831	-15.1973	1.52E-44	2.67E-42	90.4432
CNRIP1	-1.02762	7.620476	-15.1919	1.62E-44	2.82E-42	90.38333
AXL	-0.60532	6.964316	-15.1833	1.78E-44	3.08E-42	90.28894
CAV1	-1.21316	9.614808	-15.1644	2.19E-44	3.76E-42	90.08115
PLXDC2	-1.05071	6.284374	-15.1582	2.35E-44	4.01E-42	90.01228
C1orf216	-0.63656	7.199903	-15.1436	2.76E-44	4.67E-42	89.8521
COL5A2	-1.06411	9.629572	-15.1369	2.98E-44	5.00E-42	89.77803
COX7A1	-1.08723	7.721858	-15.126	3.36E-44	5.60E-42	89.65863
TMEM125	1.003453	8.206817	15.12456	3.41E-44	5.65E-42	89.64259
ISLR	-1.21572	6.708025	-15.1135	3.86E-44	6.35E-42	89.52066
ST6GALNAC1	-1.07743	5.20302	-15.0904	4.98E-44	8.14E-42	89.2677
TM6SF1	-0.99502	5.697476	-15.0703	6.23E-44	1.01E-41	89.04634
ATP8B2	-0.66771	6.872237	-15.0561	7.28E-44	1.17E-41	88.89111
CEP170 /// C	-0.69598	7.814077	-15.0464	8.11E-44	1.30E-41	88.78479
SERPINF1	-1.28078	9.095437	-15.0298	9.74E-44	1.55E-41	88.60331
PPP1R12A	-0.64564	8.317365	-15.0046	1.29E-43	2.03E-41	88.32646
LRCH2	-1.0387	4.654329	-15.0025	1.32E-43	2.07E-41	88.30371
CFL2	-1.3683	7.782936	-14.9859	1.58E-43	2.46E-41	88.12207
SYT11	-0.84982	5.346986	-14.9731	1.82E-43	2.82E-41	87.98207
COL4A2	-0.85707	9.195839	-14.9626	2.05E-43	3.11E-41	87.867
CLIC4	-0.88834	7.203362	-14.9624	2.05E-43	3.11E-41	87.86459
MEOX2	-0.84182	3.437699	-14.9511	2.32E-43	3.50E-41	87.74172
CLEC2B	-0.91342	6.553806	-14.9504	2.34E-43	3.51E-41	87.7339
NUAK1	-0.84245	7.690177	-14.9353	2.76E-43	4.09E-41	87.56898
CDC42EP3	-1.13381	7.261306	-14.9097	3.66E-43	5.38E-41	87.28966
EMILIN1	-0.98501	7.060477	-14.8925	4.43E-43	6.47E-41	87.10112
INHBA	-1.44778	7.299709	-14.8905	4.53E-43	6.58E-41	87.07934
ITPKA	0.766158	6.145903	14.88633	4.74E-43	6.84E-41	87.03436
COL4A1	-0.85714	9.941494	-14.88	5.08E-43	7.29E-41	86.96496
ZNF423	-1.14486	6.151163	-14.8552	6.68E-43	9.46E-41	86.69462
COL5A1	-1.02336	8.226434	-14.7568	1.97E-42	2.75E-40	85.62425
AP1S2	-0.79779	7.931998	-14.7394	2.38E-42	3.31E-40	85.43492
PHC1	-0.62246	6.483946	-14.738	2.42E-42	3.34E-40	85.42014
RAB23	-1.32786	7.068015	-14.7356	2.48E-42	3.41E-40	85.39397
TCF4	-0.8423	8.223855	-14.7312	2.60E-42	3.56E-40	85.34594
PDE3A	-0.75042	5.559547	-14.7183	3.00E-42	4.07E-40	85.20652
SLC2A3	-1.00795	7.432676	-14.7131	3.17E-42	4.29E-40	85.14973
RAI14	-0.77165	8.9015	-14.6981	3.74E-42	5.02E-40	84.98688
SLIT2	-1.45845	5.422708	-14.6868	4.23E-42	5.65E-40	84.8644
TAGLN	-1.49544	9.888241	-14.6733	4.90E-42	6.51E-40	84.71827
GLIS2	-0.905	7.296452	-14.6698	5.09E-42	6.73E-40	84.68065
NOX4	-0.72007	4.05815	-14.6394	7.10E-42	9.28E-40	84.35091
MYH10	-1.16993	7.364586	-14.5992	1.10E-41	1.42E-39	83.9169
GLYR1 /// SE	-1.0484	7.451403	-14.5966	1.13E-41	1.45E-39	83.88891
ZNF25	-0.69983	6.027678	-14.5932	1.17E-41	1.50E-39	83.85201
GYPC	-0.75751	7.841449	-14.5522	1.84E-41	2.33E-39	83.40915
SH3BP5	-0.75955	8.065086	-14.5139	2.79E-41	3.52E-39	82.99576
RBMS1	-0.80945	8.680206	-14.4811	3.98E-41	5.00E-39	82.64313
AK021804	-1.4296	5.233368	-14.4609	4.96E-41	6.20E-39	82.4251

RP3-428L16.	-1.39753	5.983611	-14.4564	5.20E-41	6.47E-39	82.37749
SYNC	-1.59183	5.958037	-14.4536	5.36E-41	6.64E-39	82.34742
KDF1	0.610362	6.136994	14.45186	5.47E-41	6.73E-39	82.32821
MXRA8	-0.74292	8.000349	-14.4157	8.09E-41	9.86E-39	81.93921
CTSK	-1.12103	9.653217	-14.413	8.33E-41	1.01E-38	81.9103
MRC1	-1.2874	7.97225	-14.4065	8.93E-41	1.08E-38	81.84125
MAP1B	-1.24755	7.240814	-14.4015	9.44E-41	1.13E-38	81.78684
CD200	-0.84241	6.216292	-14.3992	9.67E-41	1.15E-38	81.7629
LUM	-1.02157	9.520957	-14.387	1.10E-40	1.31E-38	81.63159
TNFAIP6	-1.42894	7.57278	-14.3678	1.36E-40	1.60E-38	81.4261
ITGAM	-0.95024	6.445155	-14.3599	1.48E-40	1.72E-38	81.34065
FGF7 /// KGF	-1.40986	6.842679	-14.3585	1.50E-40	1.74E-38	81.32573
MN1	-1.31763	5.903347	-14.3438	1.76E-40	2.03E-38	81.16861
CNN3	-0.89262	9.274471	-14.3194	2.29E-40	2.63E-38	80.90686
TGFB111	-1.15916	8.780404	-14.3114	2.50E-40	2.85E-38	80.82099
COL8A1	-0.92878	3.756028	-14.2821	3.43E-40	3.90E-38	80.50799
FIBIN	-1.07013	6.377362	-14.2762	3.66E-40	4.13E-38	80.44461
CYP1B1	-1.77459	6.871432	-14.2433	5.21E-40	5.84E-38	80.09341
MCAM	-0.91764	8.245324	-14.2283	6.12E-40	6.79E-38	79.93362
RP11-96D1.1	0.833979	6.68851	14.22735	6.19E-40	6.83E-38	79.92322
FXD6	-1.05529	7.137136	-14.2039	7.97E-40	8.76E-38	79.67264
ASPN	-1.65753	8.43101	-14.1886	9.39E-40	1.03E-37	79.50987
ITGA5	-0.77786	7.24769	-14.1758	1.08E-39	1.17E-37	79.37385
PABPC4L	-0.77233	4.322923	-14.1737	1.10E-39	1.19E-37	79.35145
EPN3	0.837299	6.384871	14.16449	1.22E-39	1.31E-37	79.25318
COL12A1	-1.25081	6.515092	-14.1579	1.31E-39	1.40E-37	79.18306
LRR32	-0.74489	7.491991	-14.1541	1.36E-39	1.45E-37	79.14217
CALHM2	-0.61222	6.69816	-14.1466	1.47E-39	1.55E-37	79.06288
DOK5	-0.73851	5.751937	-14.1254	1.85E-39	1.94E-37	78.83708
LRRK2	-0.99497	5.482142	-14.1238	1.88E-39	1.97E-37	78.8202
TWSG1	-0.72583	8.254282	-14.1159	2.05E-39	2.13E-37	78.73681
LHFP	-1.00524	7.334771	-14.0935	2.61E-39	2.69E-37	78.49847
PTPRM	-0.73644	7.562902	-14.0724	3.27E-39	3.35E-37	78.27427
TGFBI	-0.91222	10.52014	-14.0705	3.33E-39	3.40E-37	78.2545
TRIM6	-0.94873	5.26682	-14.0703	3.34E-39	3.40E-37	78.25228
FGF2	-0.87858	4.653662	-14.0638	3.58E-39	3.63E-37	78.1831
NDN	-1.15022	7.231543	-14.0223	5.58E-39	5.61E-37	77.74322
OLFML1	-0.97088	6.511911	-13.9922	7.70E-39	7.67E-37	77.42432
GPC6	-0.83218	6.812974	-13.9842	8.39E-39	8.29E-37	77.33993
EFS	-0.63639	5.586405	-13.9779	8.97E-39	8.83E-37	77.27314
MYL9	-0.94653	6.84389	-13.9753	9.22E-39	9.04E-37	77.24573
MDFIC	-0.89938	5.637341	-13.9615	1.07E-38	1.04E-36	77.09965
ITGA1	-1.00995	5.587826	-13.9518	1.18E-38	1.15E-36	76.99753
PBX3	-0.95996	7.949986	-13.9317	1.47E-38	1.41E-36	76.78541
PECAM1	-0.84282	7.503368	-13.9263	1.56E-38	1.49E-36	76.72781
GAS7	-0.69748	5.991373	-13.9024	2.01E-38	1.92E-36	76.47551
NQO1	1.140358	10.61627	13.88189	2.49E-38	2.38E-36	76.25979
LOX	-1.11084	5.329528	-13.8671	2.92E-38	2.77E-36	76.10382
FAM198B	-0.82932	7.483209	-13.8374	4.00E-38	3.78E-36	75.79176
LDHD	0.587958	5.06732	13.79569	6.23E-38	5.81E-36	75.35305
AP1M2	0.77471	7.466082	13.79078	6.56E-38	6.10E-36	75.3015
ZNF521	-1.08212	5.54008	-13.7753	7.73E-38	7.13E-36	75.13867
NAP1L3	-1.4125	4.854049	-13.7609	9.01E-38	8.24E-36	74.98776
FCGR2C	-0.79269	6.962903	-13.7373	1.16E-37	1.05E-35	74.7405
MCAM /// M	-0.74753	8.097446	-13.7177	1.42E-37	1.29E-35	74.53559
CKMT1A ///	1.190971	8.999037	13.70657	1.60E-37	1.44E-35	74.41859
VILL	1.179904	7.620538	13.70622	1.61E-37	1.44E-35	74.41496
ITGBL1	-1.45084	5.852397	-13.6972	1.77E-37	1.58E-35	74.32063

SMIM22	0.712474	8.797848	13.68559	2.00E-37	1.78E-35	74.1991
C1orf210	0.824959	5.89147	13.67496	2.23E-37	1.98E-35	74.08796
CYR61	-1.09617	9.56428	-13.6549	2.76E-37	2.44E-35	73.87836
LOC1027252	-0.99313	5.710568	-13.6532	2.81E-37	2.47E-35	73.86063
MRGPRF	-1.44707	6.834754	-13.6348	3.41E-37	2.99E-35	73.66887
C5AR1	-0.96408	6.651991	-13.6322	3.50E-37	3.06E-35	73.64152
RHOJ	-0.71805	5.262857	-13.6224	3.89E-37	3.37E-35	73.53877
CA9	1.482432	6.955139	13.62202	3.90E-37	3.37E-35	73.53511
FKBP1A-SDC	1.091081	9.154064	13.60854	4.50E-37	3.87E-35	73.39457
DZIP1	-0.90685	5.045329	-13.5994	4.95E-37	4.25E-35	73.29894
SELM	-0.94347	9.082445	-13.595	5.19E-37	4.44E-35	73.25289
SLC9A3R1	0.629892	8.195602	13.58143	5.98E-37	5.10E-35	73.11198
PKIG	-0.84398	8.827096	-13.5341	9.83E-37	8.31E-35	72.61991
CCL28	1.094804	6.561435	13.52977	1.03E-36	8.67E-35	72.5745
FBLN2	-0.95	6.583428	-13.5195	1.15E-36	9.63E-35	72.46729
ATP2B4	-0.85384	8.221492	-13.5183	1.16E-36	9.71E-35	72.45579
ZNF667-AS1	-1.0323	5.563642	-13.5146	1.21E-36	1.00E-34	72.41682
AKR1C3	1.423113	10.79624	13.50491	1.34E-36	1.11E-34	72.3162
S1PR3	-0.62173	6.329263	-13.5034	1.36E-36	1.12E-34	72.30094
FAM83E	0.66174	6.156714	13.50156	1.38E-36	1.13E-34	72.28144
PALLD	-1.01353	9.335242	-13.4858	1.63E-36	1.33E-34	72.11775
TWIST1	-1.30876	5.738924	-13.4841	1.66E-36	1.35E-34	72.10065
ENTPD1	-0.76642	6.703045	-13.4838	1.67E-36	1.35E-34	72.09758
FCGR2B	-1.11111	6.700634	-13.4809	1.72E-36	1.38E-34	72.06696
CD14	-0.92459	8.751403	-13.476	1.81E-36	1.45E-34	72.01586
COL1A1	-1.04405	8.080171	-13.4662	2.00E-36	1.59E-34	71.91478
C1orf162	-0.89015	7.163158	-13.4584	2.17E-36	1.72E-34	71.83336
PEG3	-1.18948	4.163299	-13.446	2.48E-36	1.95E-34	71.70482
ROR2	-0.89452	5.059957	-13.4402	2.63E-36	2.07E-34	71.64559
LOC1019297	-0.83165	5.695609	-13.4375	2.70E-36	2.12E-34	71.61741
NXN	-0.98668	9.230482	-13.4291	2.95E-36	2.30E-34	71.52989
GREM1	-1.90196	9.665586	-13.429	2.96E-36	2.30E-34	71.52883
DNAJB4	-0.7277	6.893335	-13.4273	3.01E-36	2.33E-34	71.51209
RNF150	-1.09074	4.791573	-13.4138	3.46E-36	2.68E-34	71.37207
THBS4	-1.68767	7.380889	-13.4123	3.52E-36	2.71E-34	71.35654
RAB17	0.635032	6.951466	13.38051	4.90E-36	3.75E-34	71.02775
TCEAL7	-1.33186	5.49272	-13.3703	5.45E-36	4.14E-34	70.92267
EHD2	-0.70242	7.215775	-13.3581	6.19E-36	4.67E-34	70.79648
PRICKLE2	-1.07067	6.113459	-13.3576	6.23E-36	4.68E-34	70.79077
CPXM1	-0.94482	5.973032	-13.3514	6.64E-36	4.97E-34	70.72762
MAGI2-AS3	-0.81494	4.018933	-13.3391	7.55E-36	5.64E-34	70.60015
CXCL12	-1.29796	7.265525	-13.3269	8.57E-36	6.38E-34	70.47475
ZCCHC24	-1.06205	7.79498	-13.3229	8.94E-36	6.63E-34	70.43274
ISM1	-0.73025	3.995723	-13.3183	9.37E-36	6.93E-34	70.38612
ECSCR	-0.72229	7.00606	-13.3084	1.04E-35	7.66E-34	70.28375
LOC283278 /	0.736695	6.991121	13.30609	1.06E-35	7.82E-34	70.25996
TNS1	-0.8497	6.720729	-13.3038	1.09E-35	7.98E-34	70.23667
GPM6B	-1.18797	5.039672	-13.3022	1.11E-35	8.09E-34	70.22036
CRYAB	-1.29709	7.261024	-13.3013	1.12E-35	8.14E-34	70.21114
CD93	-0.77357	8.491065	-13.2701	1.55E-35	1.12E-33	69.88982
GABARAPL1	-0.63729	7.048722	-13.2677	1.59E-35	1.14E-33	69.86445
ELTD1	-0.84374	8.047815	-13.2666	1.60E-35	1.15E-33	69.85376
OMD	-1.43434	4.606676	-13.2592	1.73E-35	1.24E-33	69.77708
C8orf88	-1.20335	4.840044	-13.2585	1.74E-35	1.25E-33	69.77076
CRISPLD1	-1.55736	6.024099	-13.2489	1.93E-35	1.37E-33	69.67201
AOC3	-1.376	7.270323	-13.2445	2.02E-35	1.43E-33	69.62678
HDGFRP3	-0.99758	5.670797	-13.2032	3.09E-35	2.19E-33	69.20263
C4orf19	1.135537	7.204606	13.18052	3.91E-35	2.76E-33	68.97

PRSS8	1.168462	8.145942	13.15963	4.86E-35	3.40E-33	68.75604
FRK	0.845936	6.497445	13.15264	5.22E-35	3.64E-33	68.68455
EML1	-1.21455	6.268703	-13.148	5.48E-35	3.79E-33	68.63707
HSPB2	-0.60734	5.620057	-13.1471	5.53E-35	3.81E-33	68.62828
VSIG2	1.436733	7.603207	13.14653	5.56E-35	3.82E-33	68.62202
C3AR1	-0.78828	8.107091	-13.1422	5.82E-35	3.99E-33	68.57725
LOC1002890	0.777466	7.456844	13.12834	6.71E-35	4.59E-33	68.43594
RARRES2	-0.92493	8.909361	-13.123	7.09E-35	4.84E-33	68.3812
ELOVL6	1.014383	6.591078	13.09358	9.61E-35	6.47E-33	68.08088
CTGF	-0.9453	10.36868	-13.0902	9.95E-35	6.68E-33	68.04614
C11orf96	-0.96977	10.28078	-13.0884	1.01E-34	6.79E-33	68.02807
AKAP12	-1.20159	5.124141	-13.0842	1.06E-34	7.07E-33	67.98473
TJP3	0.732628	7.101624	13.08085	1.10E-34	7.30E-33	67.95099
DAB2 /// LOC	-0.82394	7.888109	-13.077	1.14E-34	7.55E-33	67.91188
CSRP2	-0.90059	8.335291	-13.0633	1.31E-34	8.67E-33	67.77163
MOXD1	-1.05073	6.075539	-13.0621	1.33E-34	8.75E-33	67.75965
SMPD3	0.614867	5.433075	13.04565	1.57E-34	1.03E-32	67.59211
EGR2	-0.90361	7.141901	-13.0389	1.69E-34	1.10E-32	67.52287
TMEM54	0.751928	8.047411	13.02916	1.86E-34	1.21E-32	67.4242
CPXM2	-0.83172	5.649344	-13.017	2.11E-34	1.36E-32	67.30032
CDO1	-0.61977	4.110574	-13.0164	2.12E-34	1.37E-32	67.2946
PTGFR	-0.76757	3.945599	-13.0066	2.35E-34	1.50E-32	67.19495
GPX7	-0.90482	6.268846	-13.0025	2.45E-34	1.56E-32	67.15262
NPHP3	-0.6909	6.016032	-13.0019	2.47E-34	1.57E-32	67.14729
SH3RF3	-0.72361	6.451655	-12.9983	2.56E-34	1.62E-32	67.11019
MCC	-0.70796	6.206835	-12.9938	2.68E-34	1.69E-32	67.0646
ZNF542P	-0.76438	4.84374	-12.9905	2.77E-34	1.75E-32	67.03095
SDC2	-0.96634	7.415207	-12.9816	3.04E-34	1.91E-32	66.94031
TLR4	-0.65562	5.51447	-12.9777	3.16E-34	1.98E-32	66.90121
HSPA6	-0.74161	6.421736	-12.9759	3.22E-34	2.01E-32	66.88286
RSPO3	-1.64505	7.31633	-12.9467	4.35E-34	2.69E-32	66.5861
LPPR4	-1.00102	4.685732	-12.9392	4.69E-34	2.89E-32	66.5104
NRK	-0.71077	3.555169	-12.9256	5.39E-34	3.30E-32	66.37231
AKR1B10	2.638697	9.416801	12.91413	6.06E-34	3.69E-32	66.2562
GPX8	-0.94904	7.055534	-12.9138	6.09E-34	3.70E-32	66.25255
HGD	0.991288	6.029677	12.90173	6.88E-34	4.17E-32	66.13061
MGP	-1.36785	7.191495	-12.8901	7.76E-34	4.69E-32	66.01241
ALPK2	-0.77595	4.485083	-12.8888	7.85E-34	4.74E-32	66.00005
WIPF1	-0.68679	6.09009	-12.8878	7.94E-34	4.77E-32	65.98947
ACTN1	-0.68513	9.036912	-12.8863	8.06E-34	4.84E-32	65.97405
FKBP14	-0.67734	6.358231	-12.8798	8.61E-34	5.15E-32	65.90846
IGFBP6	-0.88396	7.435574	-12.8639	1.01E-33	6.02E-32	65.74759
FMO1	-1.15122	5.627141	-12.8616	1.04E-33	6.14E-32	65.72452
FAM49A	-0.64655	5.558984	-12.843	1.25E-33	7.40E-32	65.5372
GALNT6	1.073586	7.630642	12.83765	1.32E-33	7.78E-32	65.48283
DCN	-1.24678	9.37649	-12.8258	1.49E-33	8.74E-32	65.36318
SMIM24	1.560065	8.269807	12.82014	1.58E-33	9.23E-32	65.3062
SFRP4	-1.88231	6.747038	-12.8125	1.71E-33	9.95E-32	65.22936
WWTR1	-0.89661	7.595549	-12.8118	1.72E-33	1.00E-31	65.22174
PDZRN4	-1.51808	4.143947	-12.8109	1.74E-33	1.01E-31	65.21313
CYP4F12	0.619531	6.694632	12.8105	1.75E-33	1.01E-31	65.20893
RASSF2	-0.82198	7.384209	-12.804	1.86E-33	1.07E-31	65.14364
VCAM1	-0.9707	8.546605	-12.8016	1.91E-33	1.10E-31	65.11935
SLC22A18	0.926465	8.340252	12.78137	2.35E-33	1.35E-31	64.91545
GEM	-0.99804	9.169277	-12.7734	2.55E-33	1.46E-31	64.83482
PDE4B	-0.94012	6.166174	-12.7707	2.62E-33	1.49E-31	64.80816
EPS8L3	0.973041	7.719368	12.75547	3.05E-33	1.74E-31	64.65487
DACT1	-1.13713	7.159229	-12.7394	3.60E-33	2.03E-31	64.49327

6-Sep	-0.68349	5.853879	-12.7295	3.98E-33	2.24E-31	64.3939
CD163	-1.06855	8.620306	-12.7051	5.09E-33	2.85E-31	64.14855
LINC00623 //	-0.80032	7.624606	-12.7041	5.14E-33	2.87E-31	64.13879
TNC	-1.18411	4.674955	-12.6817	6.45E-33	3.60E-31	63.91473
STARD10	0.825447	8.522241	12.66615	7.55E-33	4.17E-31	63.75846
TLR2	-0.77285	7.373685	-12.6635	7.76E-33	4.27E-31	63.73185
MARVELD2	0.754358	7.163671	12.66052	8.00E-33	4.38E-31	63.70203
FKBP7	-0.74671	6.240598	-12.6603	8.02E-33	4.38E-31	63.69968
CCL8	-1.33913	7.430515	-12.6477	9.10E-33	4.94E-31	63.57389
ADAMTS3	-0.73656	4.282684	-12.6451	9.35E-33	5.07E-31	63.54742
TST	0.768433	10.21955	12.63757	1.01E-32	5.45E-31	63.4724
EBF1	-0.89039	5.732635	-12.632	1.07E-32	5.76E-31	63.41631
ROBO1	-0.85352	8.480825	-12.6301	1.09E-32	5.85E-31	63.39787
FLRT2 /// LO	-0.89403	6.097703	-12.6285	1.11E-32	5.94E-31	63.38153
HMCN1	-1.22759	5.654623	-12.6139	1.28E-32	6.85E-31	63.23579
CAP2	-1.12666	6.361747	-12.5993	1.48E-32	7.88E-31	63.0899
NFIL3	-0.62507	8.649922	-12.5964	1.53E-32	8.06E-31	63.06085
LAD1	0.643541	7.137174	12.58996	1.63E-32	8.56E-31	62.99669
TMEM38A	0.707081	6.287291	12.58995	1.63E-32	8.56E-31	62.99659
PRKCDPB	-0.80009	7.701968	-12.5784	1.83E-32	9.57E-31	62.88168
HSPB8	-0.84748	5.979833	-12.5712	1.97E-32	1.03E-30	62.80927
ESRP2 /// MI	0.782685	8.101059	12.55744	2.26E-32	1.18E-30	62.67241
LINC01133	0.843168	5.384727	12.55672	2.28E-32	1.18E-30	62.66523
RASL12	-0.65104	6.544852	-12.5496	2.45E-32	1.27E-30	62.59423
FAM129A	-1.17594	8.24671	-12.5492	2.46E-32	1.27E-30	62.59022
MEF2C	-0.89224	7.59393	-12.5435	2.60E-32	1.34E-30	62.5338
CELF2	-0.79841	6.229343	-12.542	2.64E-32	1.36E-30	62.5191
GPNMB	-1.07096	8.027127	-12.5278	3.05E-32	1.55E-30	62.37707
SOX17	-0.62041	4.717691	-12.5045	3.85E-32	1.96E-30	62.14555
FOXA3	1.093791	7.894	12.49195	4.37E-32	2.21E-30	62.02086
RRG	-1.31181	5.875176	-12.4803	4.91E-32	2.48E-30	61.90544
ECM2	-0.65846	6.282575	-12.4748	5.19E-32	2.61E-30	61.85096
FILIP1	-1.1032	4.590511	-12.4725	5.31E-32	2.67E-30	61.82731
CALCRL	-0.85456	6.109721	-12.4657	5.68E-32	2.84E-30	61.76037
FAM3B	2.143184	8.245218	12.46482	5.74E-32	2.86E-30	61.75152
COMTD1	0.619697	7.825784	12.46134	5.94E-32	2.95E-30	61.71697
SSTR1	0.835785	5.080361	12.4595	6.05E-32	3.00E-30	61.69876
NR3C1	-0.81277	8.53548	-12.459	6.08E-32	3.01E-30	61.69392
CREBRF	-0.60883	6.715587	-12.4515	6.55E-32	3.23E-30	61.61956
SMIM3	-0.72048	7.713939	-12.4412	7.27E-32	3.57E-30	61.51708
PLEKHA6	0.612409	6.518807	12.43866	7.45E-32	3.65E-30	61.49211
RP11-363E7.	1.30315	6.684376	12.42032	8.95E-32	4.36E-30	61.31054
B3GNT3	0.627189	7.844874	12.4087	1.01E-31	4.88E-30	61.19555
HS3ST3A1	-0.81311	4.803834	-12.4081	1.01E-31	4.90E-30	61.18977
ALDH3A1	1.338576	6.514004	12.39821	1.12E-31	5.39E-30	61.09171
PXDN	-0.76736	8.189368	-12.398	1.12E-31	5.40E-30	61.08923
LNX1	0.636034	6.040601	12.39745	1.13E-31	5.41E-30	61.08424
CAPN5	0.709777	7.202784	12.38943	1.22E-31	5.85E-30	61.00497
CCDC50	-0.64796	6.683321	-12.3805	1.33E-31	6.37E-30	60.91628
ITGA7	-0.79218	5.69894	-12.3783	1.36E-31	6.50E-30	60.89519
MICU3	-0.97256	3.960467	-12.3721	1.45E-31	6.90E-30	60.83322
LARP6	-0.893	6.086495	-12.3679	1.51E-31	7.18E-30	60.79195
LOC1005071	-0.77737	4.280707	-12.3642	1.57E-31	7.44E-30	60.75543
KCNE4	-0.63373	5.123776	-12.3593	1.65E-31	7.74E-30	60.70772
GNG11	-0.68015	6.227231	-12.3468	1.87E-31	8.76E-30	60.58395
IFI16	-0.79499	9.432231	-12.3422	1.95E-31	9.15E-30	60.53812
PLSCR4	-1.01376	7.439553	-12.3388	2.02E-31	9.45E-30	60.50507
IL6	-1.43563	7.054071	-12.3382	2.03E-31	9.48E-30	60.49911

PRSS23	-0.84537	7.481578	-12.3347	2.11E-31	9.81E-30	60.46418
PRR15	1.031585	7.868695	12.32214	2.38E-31	1.11E-29	60.34084
PDLIM3	-0.88816	5.282785	-12.32	2.44E-31	1.13E-29	60.31976
ARMCX1	-1.08247	7.330234	-12.3169	2.51E-31	1.16E-29	60.2892
CCDC69	-1.0577	6.418514	-12.3168	2.51E-31	1.16E-29	60.28864
GJA1	-0.89176	10.27538	-12.3122	2.63E-31	1.21E-29	60.24338
SPARCL1	-1.08566	11.08084	-12.2986	3.01E-31	1.38E-29	60.10937
GJC1	-0.59342	4.757698	-12.2977	3.04E-31	1.39E-29	60.09998
MAP3K7CL	-0.58958	5.166089	-12.2965	3.08E-31	1.41E-29	60.08849
TMEM47	-1.04474	8.287483	-12.2878	3.36E-31	1.53E-29	60.00284
MMEL1	0.625924	6.373536	12.25793	4.51E-31	2.04E-29	59.70923
OLFML3	-1.03989	7.774264	-12.2357	5.63E-31	2.53E-29	59.49097
SGK2	0.774502	6.081691	12.22127	6.49E-31	2.90E-29	59.34945
MUC5AC	2.153209	8.002166	12.2123	7.10E-31	3.16E-29	59.26152
ELMO3	0.675892	6.749581	12.20845	7.37E-31	3.28E-29	59.22386
LOC1005060	0.82646	6.633109	12.19218	8.66E-31	3.84E-29	59.06452
SH3BGRL2	0.759316	8.848027	12.19143	8.72E-31	3.85E-29	59.05713
PDGFC	-0.86194	7.330748	-12.1914	8.73E-31	3.85E-29	59.057
SSPN	-0.99763	6.697403	-12.1823	9.55E-31	4.19E-29	58.9679
PTX3	-1.27108	4.433585	-12.1607	1.18E-30	5.17E-29	58.75694
IGSF9	0.737402	5.390568	12.1591	1.20E-30	5.24E-29	58.74093
C11orf52 ///	0.786435	6.402591	12.14578	1.37E-30	5.95E-29	58.61074
BRI3BP ///	0.692743	8.578475	12.14056	1.44E-30	6.26E-29	58.55975
KGFLP2	-0.82117	4.811649	-12.131	1.58E-30	6.86E-29	58.46694
LY96	-0.96843	8.073725	-12.1204	1.76E-30	7.58E-29	58.36259
RGL1	-0.64566	7.924757	-12.1123	1.91E-30	8.17E-29	58.28365
ENTPD5	0.588217	5.491228	12.09752	2.20E-30	9.36E-29	58.13998
EPB41L3	-0.97937	6.130136	-12.0934	2.29E-30	9.72E-29	58.10004
LRP12	-0.69105	4.554439	-12.0794	2.63E-30	1.11E-28	57.96396
USH1C	0.935277	7.478836	12.07857	2.66E-30	1.12E-28	57.95542
MGC24103	-0.93357	4.16393	-12.074	2.78E-30	1.17E-28	57.9107
SRGN	-0.97223	10.35971	-12.071	2.86E-30	1.20E-28	57.88142
OR7E14P	0.92968	5.980322	12.06623	3.00E-30	1.25E-28	57.83534
FBXO32	-0.66714	5.029615	-12.0545	3.36E-30	1.40E-28	57.72142
BCL2L15	0.972893	6.490582	12.04797	3.59E-30	1.49E-28	57.65784
PTGS2	-1.49231	7.067488	-12.0434	3.75E-30	1.56E-28	57.61332
BOC	-0.89818	6.53251	-12.0371	3.99E-30	1.65E-28	57.55211
DPCR1	2.20072	7.153066	12.036	4.03E-30	1.67E-28	57.54157
GABARAPL1	-0.77358	8.783527	-12.0354	4.06E-30	1.67E-28	57.5358
MAPK13	0.791816	8.450125	12.0333	4.14E-30	1.71E-28	57.51526
FCGR1B	-1.03425	6.794488	-12.0206	4.69E-30	1.92E-28	57.39229
SGIP1	-0.60884	4.304175	-12.0152	4.95E-30	2.02E-28	57.33969
ITPR1	-0.70865	6.092439	-12.0045	5.49E-30	2.24E-28	57.23614
SERPINE1	-1.00898	7.17098	-12.002	5.63E-30	2.28E-28	57.21171
BEX4	-1.16168	6.951372	-11.9981	5.85E-30	2.37E-28	57.17368
MYO5C	0.693646	9.235846	11.99689	5.92E-30	2.39E-28	57.16204
TYROBP	-0.87126	8.724226	-11.9836	6.74E-30	2.72E-28	57.03314
AIF1	-0.69198	8.728056	-11.9645	8.13E-30	3.25E-28	56.84793
CSGALNACT	-0.94946	7.906237	-11.9596	8.53E-30	3.40E-28	56.80108
MAGEH1	-0.76494	7.760175	-11.9562	8.82E-30	3.51E-28	56.76818
CNN1	-1.70149	8.154073	-11.9509	9.29E-30	3.70E-28	56.71649
MBNL1-AS1	-1.1475	5.914231	-11.944	9.93E-30	3.95E-28	56.65033
CCR1	-0.73687	7.043133	-11.9415	1.02E-29	4.04E-28	56.6255
LAMA2	-0.83954	6.335343	-11.9384	1.05E-29	4.15E-28	56.59584
PCDH17	-0.73518	6.992546	-11.9373	1.06E-29	4.19E-28	56.58547
SACS	-0.90799	7.000099	-11.9339	1.10E-29	4.33E-28	56.55228
SMIM6	0.998225	6.928024	11.92993	1.14E-29	4.48E-28	56.51411
HDHD3	0.604471	7.385706	11.90012	1.52E-29	5.97E-28	56.22642

EOGT	-0.68652	7.344501	-11.8995	1.53E-29	6.00E-28	56.22054
RAB11FIP4	0.610194	6.125229	11.89623	1.58E-29	6.18E-28	56.18892
CORO2A	0.861851	7.383605	11.89333	1.63E-29	6.35E-28	56.161
NUDT11	-0.65266	4.977424	-11.8815	1.83E-29	7.10E-28	56.04661
FILIP1L	-0.90852	8.407908	-11.8744	1.96E-29	7.58E-28	55.97811
NREP	-0.59452	5.789592	-11.8735	1.98E-29	7.63E-28	55.9697
SLC44A4	1.159861	7.40247	11.87189	2.01E-29	7.74E-28	55.95436
CDH5	-0.72749	6.749211	-11.866	2.12E-29	8.16E-28	55.89803
LOC1001308	-0.76117	8.330709	-11.8659	2.13E-29	8.16E-28	55.89649
SGCD	-0.6086	5.337897	-11.8622	2.21E-29	8.45E-28	55.86062
LRRC66	1.224647	5.464813	11.86176	2.21E-29	8.47E-28	55.85684
RP11-999E24	-0.74899	3.865749	-11.8496	2.49E-29	9.50E-28	55.74012
VSIG4	-0.89962	7.233125	-11.8417	2.69E-29	1.02E-27	55.66406
PDPN	-0.65504	6.236898	-11.8253	3.16E-29	1.20E-27	55.50626
PLS1	1.088983	10.33536	11.8184	3.37E-29	1.28E-27	55.43997
FUT2	0.707768	7.341455	11.81788	3.39E-29	1.28E-27	55.43498
CHRD12	-1.2796	6.066389	-11.8171	3.42E-29	1.29E-27	55.42748
FNBP1	-0.65431	6.816935	-11.816	3.45E-29	1.30E-27	55.41683
RAB25	1.008342	9.58904	11.81253	3.57E-29	1.34E-27	55.3836
BAIAP2L1	0.672593	7.919438	11.80302	3.92E-29	1.46E-27	55.29237
IGFBP4	-0.83203	8.19763	-11.7962	4.18E-29	1.55E-27	55.22742
ASL	0.681727	8.915983	11.78277	4.77E-29	1.76E-27	55.09819
SVIL	-0.93808	7.320773	-11.782	4.80E-29	1.77E-27	55.09067
LINC01094	-0.80189	4.425079	-11.7766	5.06E-29	1.85E-27	55.03907
ABHD14A-A	0.728235	8.123589	11.76973	5.41E-29	1.97E-27	54.97328
LBH	-0.69075	8.314015	-11.7662	5.60E-29	2.03E-27	54.93941
THBS1	-0.89499	6.108697	-11.7616	5.85E-29	2.12E-27	54.89576
CSF1R	-0.61768	7.172645	-11.7596	5.97E-29	2.16E-27	54.8762
EFEMP1	-1.45811	6.956921	-11.7587	6.02E-29	2.17E-27	54.86771
PRNP	-0.70872	8.691012	-11.7574	6.10E-29	2.20E-27	54.85508
DHRS11	0.990513	6.438294	11.75271	6.38E-29	2.29E-27	54.81035
TMEM45B	1.173354	9.243892	11.75091	6.49E-29	2.33E-27	54.79311
LILRB2	-0.62296	5.733425	-11.712	9.45E-29	3.36E-27	54.42162
LTBP1	-0.85401	8.189158	-11.7085	9.77E-29	3.47E-27	54.3882
UGT1A1 /// (1.318836	8.117979	11.70381	1.02E-28	3.63E-27	54.34299
CYP3A5	1.322412	7.902363	11.69404	1.12E-28	3.98E-27	54.24978
HAND2-AS1	-1.1636	4.131393	-11.6868	1.20E-28	4.26E-27	54.181
C14orf132	-0.84799	5.977249	-11.6858	1.22E-28	4.30E-27	54.17159
DEGS2	0.679836	6.090781	11.68466	1.23E-28	4.34E-27	54.16035
MAP3K8	-0.62101	5.957985	-11.68	1.29E-28	4.53E-27	54.11597
PYGL	-0.82334	6.768719	-11.6754	1.35E-28	4.72E-27	54.07175
FA2H	0.718804	6.510082	11.67363	1.37E-28	4.80E-27	54.0552
GALNT15	-0.73609	4.364808	-11.6659	1.47E-28	5.15E-27	53.98123
ARRDC3	-0.63324	8.433246	-11.6495	1.73E-28	5.99E-27	53.8251
BAG2	-0.75257	5.134278	-11.6461	1.78E-28	6.17E-27	53.79341
SULT1C2	1.74674	7.901943	11.63519	1.98E-28	6.82E-27	53.68931
COL10A1	-1.731	7.105493	-11.6348	1.99E-28	6.83E-27	53.68574
PRELP	-0.84824	6.29803	-11.6265	2.15E-28	7.38E-27	53.60673
UGT1A1 /// (1.454686	7.313006	11.62337	2.22E-28	7.60E-27	53.57696
RDX	-0.78779	5.301941	-11.599	2.80E-28	9.57E-27	53.34595
PLLP	1.031624	8.427465	11.59326	2.96E-28	1.01E-26	53.2911
MIR143HG	-0.8718	5.473859	-11.5849	3.21E-28	1.09E-26	53.21185
PRICKLE1	-0.7504	5.174272	-11.574	3.56E-28	1.20E-26	53.10868
PRUNE2	-1.10162	4.618529	-11.5623	3.99E-28	1.34E-26	52.99752
BSPRY	0.661062	6.85141	11.55534	4.26E-28	1.42E-26	52.93183
GIMAP4	-0.78074	7.670156	-11.5426	4.81E-28	1.60E-26	52.81093
MLLT11	-1.00106	7.369939	-11.5138	6.34E-28	2.10E-26	52.53871
GPR65	-0.7821	7.011467	-11.5131	6.38E-28	2.10E-26	52.53237

GPR116	-0.62349	7.323051	-11.5129	6.39E-28	2.11E-26	52.53015
ADTRP	1.214648	6.58472	11.51008	6.57E-28	2.16E-26	52.50391
SPON1	-1.20297	6.394844	-11.5001	7.22E-28	2.37E-26	52.40946
ATP8B4	-0.66489	4.082336	-11.4967	7.46E-28	2.44E-26	52.37758
THBD	-0.72174	7.110594	-11.4774	8.96E-28	2.92E-26	52.19604
SPHK1	-0.65926	6.329838	-11.4596	1.06E-27	3.45E-26	52.02767
MYO1A	1.011589	6.78695	11.45639	1.10E-27	3.55E-26	51.99767
TFF2	2.336307	10.05656	11.45465	1.11E-27	3.60E-26	51.98132
PTPRH	0.871796	6.866706	11.45301	1.13E-27	3.64E-26	51.96587
GPRASP1	-1.11177	5.518996	-11.4458	1.21E-27	3.89E-26	51.89764
MSANTD3-T	-0.70243	4.739875	-11.4448	1.22E-27	3.92E-26	51.88852
PLOD2	-0.78223	8.643541	-11.443	1.24E-27	3.98E-26	51.87191
DPYSL2	-0.60965	10.3098	-11.4422	1.25E-27	4.01E-26	51.86427
RBM24	-1.00878	4.379469	-11.4382	1.30E-27	4.16E-26	51.8265
FMO2	-0.97434	5.954241	-11.4345	1.35E-27	4.29E-26	51.79208
TSTA3	0.654553	9.641749	11.42924	1.42E-27	4.50E-26	51.74229
MMRN2	-0.77468	5.975617	-11.3988	1.89E-27	6.00E-26	51.45612
LRRFIP1	-0.6133	7.71429	-11.3916	2.03E-27	6.41E-26	51.38923
ARHGEF6	-0.68075	7.600149	-11.3832	2.20E-27	6.93E-26	51.31018
STOM	-0.62985	9.540433	-11.3709	2.47E-27	7.78E-26	51.19456
C1orf116	1.047813	7.975607	11.36916	2.51E-27	7.90E-26	51.17856
THEMIS2	-0.68949	6.85808	-11.3608	2.72E-27	8.53E-26	51.09984
HTRA1	-0.74201	9.28164	-11.3595	2.75E-27	8.62E-26	51.08778
BCHE	-1.39277	4.316196	-11.3583	2.78E-27	8.69E-26	51.0772
LLGL2	0.59326	7.2744	11.35269	2.93E-27	9.15E-26	51.02441
CD69	-1.08444	6.865037	-11.3249	3.81E-27	1.18E-25	50.76488
POPDC2	-0.90722	4.610562	-11.3217	3.93E-27	1.22E-25	50.73445
RDH12	0.766187	5.025279	11.3208	3.96E-27	1.23E-25	50.7262
TMEM55A	-0.81885	6.284029	-11.3205	3.97E-27	1.23E-25	50.72379
HSPA2	-1.01687	7.160076	-11.3099	4.39E-27	1.36E-25	50.62419
FCGR1A /// F	-0.92533	6.812236	-11.3072	4.50E-27	1.39E-25	50.59944
CYSTM1	0.764159	12.01353	11.29915	4.86E-27	1.49E-25	50.52412
DCLK1	-0.94415	4.518582	-11.2945	5.08E-27	1.56E-25	50.48102
PARVA	-0.68237	6.889209	-11.2894	5.33E-27	1.63E-25	50.43323
TMEM71	-0.80895	5.709522	-11.2803	5.81E-27	1.78E-25	50.34826
MNDA	-1.00671	7.471507	-11.28	5.82E-27	1.78E-25	50.34547
ADAM12	-0.87292	5.213381	-11.2741	6.16E-27	1.88E-25	50.29014
PPFIBP2	0.594264	8.053417	11.27057	6.36E-27	1.94E-25	50.25768
TENM4	-0.59001	4.925634	-11.2579	7.17E-27	2.17E-25	50.13988
SRPX	-1.29869	7.021989	-11.2541	7.43E-27	2.25E-25	50.10396
CHRD1	-1.60093	5.947595	-11.2534	7.48E-27	2.26E-25	50.09787
TMEM246	0.632724	6.988501	11.24753	7.91E-27	2.39E-25	50.04318
PDZRN3	-0.58742	5.692736	-11.2426	8.28E-27	2.50E-25	49.99716
ACTA2 /// A	-0.9835	4.752046	-11.2415	8.36E-27	2.52E-25	49.98761
DNAJB5	-0.64004	5.246363	-11.2409	8.42E-27	2.53E-25	49.98124
BCAT1	-0.77995	6.301623	-11.2344	8.94E-27	2.68E-25	49.92132
KDELC1	-0.64071	6.401625	-11.2285	9.45E-27	2.83E-25	49.86649
LIMS2	-0.69567	6.412239	-11.2247	9.79E-27	2.93E-25	49.83134
CAPN9	1.289829	5.660369	11.22379	9.88E-27	2.95E-25	49.82254
FAM83F	0.616529	6.144893	11.22241	1.00E-26	2.98E-25	49.80978
FGL2	-1.02212	8.771138	-11.2207	1.02E-26	3.02E-25	49.79345
LMOD1	-1.11336	6.267283	-11.2111	1.11E-26	3.30E-25	49.70475
MEIS1	-0.91328	6.742705	-11.205	1.18E-26	3.48E-25	49.64803
TMC4	0.765108	8.307015	11.20344	1.20E-26	3.53E-25	49.63365
MYO5B	0.940227	7.823239	11.18775	1.39E-26	4.07E-25	49.4882
SCRG1	-1.07752	4.380482	-11.1838	1.44E-26	4.22E-25	49.45143
CMTM8	0.633971	7.805836	11.18261	1.45E-26	4.26E-25	49.44057
AKR1C2 /// L	1.223953	9.179247	11.18056	1.48E-26	4.34E-25	49.4215

A2M-AS1	-0.62784	4.417149	-11.1792	1.50E-26	4.39E-25	49.40927
THSD7A	-0.76969	4.919801	-11.1757	1.55E-26	4.52E-25	49.37632
CLEC4A	-0.80355	6.09694	-11.1722	1.60E-26	4.66E-25	49.34387
GIMAP6	-0.83031	7.214848	-11.1644	1.73E-26	5.00E-25	49.27163
EID1	-0.58795	8.768725	-11.148	2.01E-26	5.78E-25	49.12026
FAM101B	-0.61047	8.067374	-11.1475	2.02E-26	5.80E-25	49.11594
INMT	-0.85028	6.052105	-11.144	2.09E-26	5.98E-25	49.08274
PAQR8	0.780629	8.507091	11.14252	2.12E-26	6.04E-25	49.06948
PRSS3	1.089786	9.075132	11.13575	2.25E-26	6.43E-25	49.00698
FPR3	-0.77991	6.745791	-11.1096	2.88E-26	8.12E-25	48.76579
LRRN4CL	-0.88107	5.740692	-11.1041	3.03E-26	8.53E-25	48.71442
GHR	-1.13635	4.630823	-11.1037	3.04E-26	8.54E-25	48.71146
RBMS3	-0.64755	4.741331	-11.0907	3.43E-26	9.64E-25	48.59091
CXADR	0.858853	8.088064	11.08917	3.48E-26	9.76E-25	48.57713
CSF2RB	-0.90573	7.782644	-11.0811	3.75E-26	1.05E-24	48.50299
TNFSF4	-0.81321	5.573109	-11.076	3.94E-26	1.10E-24	48.45611
LTBP2	-0.72686	7.630964	-11.0759	3.94E-26	1.10E-24	48.45513
MS4A7	-0.88648	8.053086	-11.0735	4.03E-26	1.12E-24	48.43269
FAM127A	-0.58805	8.991062	-11.073	4.05E-26	1.12E-24	48.42819
ATP7B	0.892343	6.87993	11.06804	4.24E-26	1.17E-24	48.38253
AGR2	1.356702	11.39744	11.06216	4.48E-26	1.23E-24	48.32846
BCAS1	1.203823	7.196718	11.05609	4.74E-26	1.30E-24	48.27263
FKBP5	-0.72775	7.41582	-11.0525	4.90E-26	1.34E-24	48.2396
SYNM	-1.67857	8.00078	-11.0514	4.95E-26	1.36E-24	48.2294
ANGPTL1	-1.10699	4.417161	-11.0477	5.13E-26	1.40E-24	48.19503
FCER1G	-0.91001	7.984334	-11.0313	5.97E-26	1.62E-24	48.04519
FAM229B	-0.75967	6.469141	-11.0282	6.14E-26	1.67E-24	48.01649
WWC3	-0.62434	7.671285	-11.0256	6.29E-26	1.71E-24	47.99269
PLN	-1.58261	5.750141	-11.0212	6.56E-26	1.78E-24	47.95183
TMEM119	-0.78481	5.602073	-11.0121	7.13E-26	1.93E-24	47.86835
PRR15L	1.053608	9.174606	10.99553	8.32E-26	2.24E-24	47.71669
FLNC	-0.88908	7.349824	-10.992	8.59E-26	2.31E-24	47.68462
COL16A1	-0.8414	7.70307	-10.9891	8.83E-26	2.37E-24	47.65772
GDPD3	0.858826	6.766254	10.98193	9.43E-26	2.52E-24	47.59216
CLEC7A	-0.60769	4.434322	-10.9794	9.66E-26	2.57E-24	47.56888
GBP2	-0.69435	8.455468	-10.9682	1.07E-25	2.85E-24	47.46665
ELF3	0.937734	9.005854	10.9617	1.14E-25	3.01E-24	47.40708
RBPMS2	-1.03627	6.369923	-10.96	1.16E-25	3.06E-24	47.39169
ADAMTS1	-0.92315	7.304915	-10.9403	1.39E-25	3.65E-24	47.21108
CYP2C18	1.413065	6.873005	10.93369	1.47E-25	3.86E-24	47.15116
S100A14	1.187654	8.545663	10.91811	1.70E-25	4.44E-24	47.00908
C9orf152	1.326101	7.448827	10.91789	1.71E-25	4.45E-24	47.00706
MS4A4A	-0.93401	7.071963	-10.9053	1.92E-25	4.96E-24	46.89236
ARL4C	-0.5969	7.477728	-10.9021	1.97E-25	5.10E-24	46.86352
FAM13B	-0.64083	7.625078	-10.8907	2.19E-25	5.65E-24	46.75902
GLRB	-0.72721	3.785976	-10.8839	2.33E-25	5.98E-24	46.6976
LOC728392	-0.77894	6.370245	-10.8797	2.43E-25	6.20E-24	46.65876
BARX1	-0.8382	5.398578	-10.8788	2.45E-25	6.25E-24	46.65065
DHCR24	0.751656	9.075415	10.87742	2.48E-25	6.32E-24	46.6385
RGS4	-0.71266	5.454857	-10.8643	2.79E-25	7.10E-24	46.51902
ST14	0.770153	8.056753	10.85666	3.00E-25	7.60E-24	46.44972
EVI2A	-0.868	7.697116	-10.8449	3.34E-25	8.42E-24	46.34316
FHOD3	-0.73457	4.552559	-10.8344	3.68E-25	9.25E-24	46.24745
SLC35A3	0.601058	8.836633	10.83435	3.68E-25	9.25E-24	46.24718
CLIC2	-0.83234	6.546688	-10.8279	3.90E-25	9.79E-24	46.18917
FBP1	0.819935	8.519222	10.80943	4.62E-25	1.15E-23	46.02131
KDSR	-0.60539	6.666758	-10.7982	5.13E-25	1.27E-23	45.91928
RIMKLB	-0.7579	4.756798	-10.7909	5.48E-25	1.36E-23	45.85376

NR0B2	0.803163	6.786967	10.79026	5.51E-25	1.36E-23	45.84777
KCNK5	0.749308	6.89675	10.78558	5.75E-25	1.42E-23	45.80552
LDOC1	-0.68287	6.408803	-10.7812	5.99E-25	1.47E-23	45.76592
CFH /// CFHF	-0.91539	8.783629	-10.7744	6.37E-25	1.57E-23	45.70474
RNF128	1.248333	9.638589	10.77029	6.62E-25	1.62E-23	45.66728
KCNMB1	-0.61217	4.844549	-10.7641	7.00E-25	1.71E-23	45.61151
LAPTM5	-0.6784	9.708212	-10.7587	7.35E-25	1.79E-23	45.56285
BRI3BP	0.623458	9.614997	10.75635	7.51E-25	1.83E-23	45.54141
LINC00675	0.614719	5.943761	10.74482	8.35E-25	2.03E-23	45.43735
SLIT3	-0.65534	5.301717	-10.7419	8.58E-25	2.08E-23	45.41095
C1QTNF2	-0.76117	4.990411	-10.7385	8.84E-25	2.14E-23	45.38053
ADAMTS5	-0.68983	6.276216	-10.7276	9.77E-25	2.35E-23	45.28169
NAP1L2	-0.8656	3.860065	-10.7238	1.01E-24	2.43E-23	45.2477
KRT19	0.690112	7.84223	10.72042	1.04E-24	2.51E-23	45.21736
NCF2	-0.85077	6.819375	-10.7137	1.11E-24	2.66E-23	45.15689
C3orf80	-0.68969	4.335263	-10.6977	1.28E-24	3.07E-23	45.01297
FAM101A ///	0.958283	7.919286	10.67892	1.52E-24	3.63E-23	44.84414
HOOK1	0.735601	7.381207	10.67768	1.54E-24	3.67E-23	44.83304
ZC2HC1A	-0.70054	5.559742	-10.6667	1.70E-24	4.04E-23	44.73416
EMCN	-0.84098	6.333247	-10.6661	1.71E-24	4.05E-23	44.72893
PTBP2	-0.59853	6.031921	-10.6493	1.99E-24	4.70E-23	44.57822
VSIG1	1.809876	6.959229	10.64855	2.01E-24	4.73E-23	44.57164
KIAA1804	0.712066	7.591992	10.64803	2.01E-24	4.74E-23	44.56696
HCK	-0.69083	6.854985	-10.6455	2.06E-24	4.84E-23	44.54435
KCNMA1	-0.80742	4.101049	-10.6409	2.15E-24	5.04E-23	44.50347
FAM228B	-0.62072	6.186387	-10.6382	2.20E-24	5.16E-23	44.47852
RP11-134G8	-0.58885	5.515287	-10.6313	2.35E-24	5.48E-23	44.4167
RAB27B	0.855416	5.443084	10.63094	2.35E-24	5.49E-23	44.41383
TRPS1	-0.71885	5.919531	-10.6214	2.57E-24	5.97E-23	44.32814
FXYD3	0.897101	9.746014	10.61667	2.68E-24	6.22E-23	44.28608
PNMAL1	-1.00152	4.942774	-10.6118	2.80E-24	6.49E-23	44.24276
TTC28	-0.76639	5.96608	-10.6083	2.89E-24	6.69E-23	44.2111
LOC1006527	1.188896	8.231732	10.58909	3.44E-24	7.93E-23	44.03962
DAAM2	-0.71712	6.182118	-10.5868	3.51E-24	8.09E-23	44.01894
SOD3	-0.64579	6.883714	-10.5806	3.71E-24	8.53E-23	43.96348
GPR183	-0.77405	7.845507	-10.5758	3.87E-24	8.89E-23	43.92083
PBLD	0.98775	7.257309	10.57354	3.95E-24	9.04E-23	43.90078
LOC285812	-0.79472	6.402326	-10.5652	4.27E-24	9.73E-23	43.82604
MFAP2	-0.82631	7.562995	-10.5644	4.30E-24	9.79E-23	43.81901
IPO11 /// LRI	-0.68421	5.144853	-10.5467	5.04E-24	1.14E-22	43.6618
CYP2S1	0.836907	6.760265	10.54173	5.27E-24	1.19E-22	43.61726
RHPN2	0.975357	9.33629	10.54056	5.32E-24	1.21E-22	43.60691
CAV2	-0.86662	8.139632	-10.531	5.81E-24	1.31E-22	43.52144
ANKRD35	-0.59563	5.815623	-10.5297	5.87E-24	1.33E-22	43.5103
LST1	-0.58599	7.149483	-10.5176	6.55E-24	1.48E-22	43.40252
ZAK	-0.75569	7.422843	-10.4945	8.06E-24	1.80E-22	43.19786
CGN	0.830189	7.887876	10.48825	8.52E-24	1.89E-22	43.14204
TMEM45A	-0.92496	8.063336	-10.4826	8.97E-24	1.99E-22	43.09212
AGTR1	-0.92908	4.098068	-10.4746	9.64E-24	2.13E-22	43.02072
FBLN5	-0.88648	6.853116	-10.4681	1.02E-23	2.25E-22	42.96377
RSPH1	0.775134	6.437593	10.46683	1.03E-23	2.28E-22	42.95212
PSCA	1.92314	7.271888	10.46545	1.05E-23	2.30E-22	42.9399
MST1R	0.742619	7.347565	10.46075	1.09E-23	2.40E-22	42.8983
SALL2	-0.63277	5.967014	-10.4592	1.11E-23	2.43E-22	42.88438
LINC00543 /	0.627256	4.623406	10.4519	1.18E-23	2.59E-22	42.81997
FAM19A5	-0.78707	4.437256	-10.4507	1.19E-23	2.62E-22	42.80903
IL10RA	-0.7061	7.615398	-10.4487	1.22E-23	2.66E-22	42.79166
ELMO1	-0.58558	6.087133	-10.4398	1.32E-23	2.87E-22	42.71288

PTK6	0.741434	7.47091	10.43642	1.36E-23	2.95E-22	42.68298
TLR1	-0.79606	5.620156	-10.4325	1.40E-23	3.05E-22	42.64869
1-Mar	-0.77105	6.136437	-10.4302	1.43E-23	3.11E-22	42.62803
AOX1	-0.72476	5.238227	-10.4251	1.50E-23	3.25E-22	42.58292
MRAP2	1.055041	6.668291	10.41569	1.63E-23	3.52E-22	42.49986
ARMCX2	-0.94308	7.432811	-10.4116	1.69E-23	3.64E-22	42.46353
ETNK1	0.636198	7.788238	10.40083	1.87E-23	3.98E-22	42.36873
SLA	-0.6054	7.863089	-10.396	1.95E-23	4.15E-22	42.32601
KCTD12	-0.80543	9.703769	-10.3955	1.96E-23	4.17E-22	42.32186
TFF1	2.056452	11.27701	10.38416	2.16E-23	4.60E-22	42.22181
HSD17B2	1.554822	8.438562	10.3722	2.41E-23	5.11E-22	42.11646
WASF1	-0.88702	5.977439	-10.3681	2.50E-23	5.29E-22	42.08052
TPM1	-0.71065	8.504178	-10.3653	2.56E-23	5.42E-22	42.05552
RASEF	0.896875	8.227139	10.36379	2.60E-23	5.48E-22	42.04247
EP300-AS1	0.934623	5.586779	10.34708	3.01E-23	6.33E-22	41.89559
CILP	-1.07097	6.594657	-10.3456	3.05E-23	6.39E-22	41.88272
GKN2	2.892598	7.478612	10.33911	3.23E-23	6.75E-22	41.82552
GGT6	0.997242	6.314035	10.33044	3.49E-23	7.27E-22	41.74943
CENPV	0.705907	8.538737	10.32915	3.53E-23	7.34E-22	41.73811
GPT2	0.68693	6.439062	10.32668	3.61E-23	7.49E-22	41.71643
GPR133	-0.99636	5.170147	-10.3232	3.73E-23	7.73E-22	41.68546
TSPAN1	1.211945	9.868485	10.32118	3.79E-23	7.86E-22	41.66815
EMP1	-0.63974	5.539615	-10.3195	3.85E-23	7.97E-22	41.65311
JAM2	-0.94686	6.081784	-10.3168	3.94E-23	8.15E-22	41.6301
APOBEC1	1.142863	5.872909	10.31453	4.02E-23	8.31E-22	41.60981
FUT3	0.861217	6.528971	10.30734	4.29E-23	8.84E-22	41.54679
IL6ST	-0.60211	7.007545	-10.2875	5.11E-23	1.05E-21	41.37311
AMIGO2	-0.98081	8.493551	-10.2808	5.42E-23	1.11E-21	41.3148
RP11-532F1	0.596558	6.859223	10.27687	5.62E-23	1.14E-21	41.28007
ARL14	1.46922	8.338059	10.2711	5.91E-23	1.20E-21	41.22958
GOLT1A	0.877679	6.443852	10.26905	6.02E-23	1.22E-21	41.21165
MCU	0.588456	8.764234	10.26707	6.13E-23	1.24E-21	41.19435
C3	-1.07673	10.51139	-10.2654	6.22E-23	1.26E-21	41.1794
CLIP4	-0.59976	5.949312	-10.2586	6.60E-23	1.33E-21	41.12019
OGN	-1.86527	5.708408	-10.2549	6.83E-23	1.37E-21	41.08761
PI15	-0.79444	5.361155	-10.2524	6.98E-23	1.40E-21	41.06589
SLC24A3	-0.83223	6.832869	-10.2475	7.28E-23	1.46E-21	41.02355
AL832909 ///	-0.76188	6.780745	-10.2468	7.33E-23	1.47E-21	41.0177
SGPP2	0.845391	6.961234	10.24458	7.47E-23	1.49E-21	40.998
CYYR1	-0.69135	6.446115	-10.2445	7.48E-23	1.49E-21	40.99729
CHMP4C	0.809449	8.992919	10.24252	7.61E-23	1.52E-21	40.98001
HAS2	-0.78881	5.78031	-10.2332	8.26E-23	1.64E-21	40.89874
CAPN8	1.311499	7.557603	10.2255	8.85E-23	1.75E-21	40.83154
GSTA1	0.898204	6.616462	10.22116	9.19E-23	1.81E-21	40.79377
ST8SIA4	-0.66419	5.46037	-10.2171	9.53E-23	1.87E-21	40.75845
RAPGEFL1	0.649981	6.834098	10.21109	1.00E-22	1.97E-21	40.70607
BTNL8	1.200986	6.866126	10.19343	1.17E-22	2.30E-21	40.55238
EPS8L1	0.629098	6.928478	10.18889	1.22E-22	2.39E-21	40.51294
SH3BGRL	-0.6487	9.843701	-10.1827	1.29E-22	2.52E-21	40.45935
SLC39A11	0.586088	8.332757	10.1818	1.30E-22	2.54E-21	40.45132
GCNT1	0.892654	7.150517	10.17579	1.37E-22	2.67E-21	40.39909
PLEK	-0.68935	7.059738	-10.1365	1.94E-22	3.72E-21	40.05847
CDHR2	0.783028	7.097521	10.1348	1.97E-22	3.77E-21	40.04362
STEAP4	-0.78651	5.297467	-10.1333	1.99E-22	3.81E-21	40.03109
LOXL1	-0.7624	7.488256	-10.1317	2.02E-22	3.86E-21	40.01707
MFAP5	-1.20816	6.083755	-10.1311	2.03E-22	3.88E-21	40.01194
TSPAN2	-0.73725	5.003405	-10.1256	2.13E-22	4.06E-21	39.96366
MIR143HG //	-0.75538	5.954913	-10.115	2.34E-22	4.44E-21	39.8723

SUSD5	-0.66161	3.397274	-10.1123	2.39E-22	4.54E-21	39.84905
NAMPT	-0.62213	9.079536	-10.1083	2.48E-22	4.68E-21	39.81465
SOWAHA	1.092082	6.681305	10.10788	2.49E-22	4.70E-21	39.81078
TMPRSS4	0.888894	8.48399	10.10659	2.52E-22	4.74E-21	39.79966
ZG16B	1.383698	8.129875	10.10393	2.58E-22	4.85E-21	39.77663
FOXA1	0.669566	4.935449	10.10138	2.63E-22	4.95E-21	39.75459
HCLS1	-0.72129	7.849183	-10.0978	2.72E-22	5.10E-21	39.72385
ESRP1	0.817769	9.239683	10.07454	3.33E-22	6.22E-21	39.52293
FYB	-0.5957	6.058419	-10.0669	3.56E-22	6.64E-21	39.4571
MFAP4	-0.95813	7.060301	-10.0542	3.98E-22	7.39E-21	39.34798
PCDHB10 ///	-0.83304	4.832654	-10.0519	4.06E-22	7.53E-21	39.32772
TMEM35	-0.99318	4.428857	-10.0513	4.08E-22	7.56E-21	39.32288
TM4SF5	0.959431	7.514863	10.04603	4.27E-22	7.89E-21	39.27739
NUPR1	-0.84462	8.205935	-10.0449	4.31E-22	7.96E-21	39.26756
ASB5	-1.15425	3.314926	-10.0445	4.33E-22	7.98E-21	39.26432
TGFBR1	-0.67266	5.902789	-10.0397	4.51E-22	8.31E-21	39.22321
MLPH	0.992074	9.596836	10.03787	4.59E-22	8.44E-21	39.20714
F8	-0.7151	6.558173	-10.0346	4.72E-22	8.66E-21	39.17878
SCGB2A1	1.60224	5.365398	10.03258	4.80E-22	8.79E-21	39.16166
AKR1C1 /// /	1.164863	4.858325	10.0275	5.02E-22	9.15E-21	39.11804
MS4A6A	-0.73959	8.371133	-10.0275	5.02E-22	9.15E-21	39.11774
MEOX1	-0.76899	6.154994	-10.0261	5.08E-22	9.26E-21	39.10555
CYTL1	-0.58914	4.74095	-10.0185	5.43E-22	9.85E-21	39.04063
PDE1A	-0.59751	4.079616	-10.0155	5.57E-22	1.01E-20	39.01454
CLDN23	0.929262	6.474256	10.00108	6.32E-22	1.14E-20	38.89121
PPARG	0.786429	8.044241	9.99991	6.38E-22	1.15E-20	38.88114
ITIH5	-0.75754	6.09312	-9.99461	6.68E-22	1.20E-20	38.83567
ANXA10	2.078582	9.422407	9.985889	7.21E-22	1.29E-20	38.76094
PRSS3P2	0.698419	8.049742	9.975748	7.87E-22	1.40E-20	38.67408
FMO5	0.676378	5.028393	9.975629	7.88E-22	1.40E-20	38.67307
CSRP1	-0.72478	10.11328	-9.97352	8.02E-22	1.42E-20	38.65501
ATP1A2	-0.87029	4.407627	-9.96441	8.68E-22	1.54E-20	38.57705
GRHL2	0.639369	7.947887	9.963933	8.72E-22	1.54E-20	38.57297
SMAGP	0.604134	8.85562	9.957209	9.24E-22	1.63E-20	38.51547
MAN1C1	-0.70059	6.407623	-9.95143	9.72E-22	1.71E-20	38.46608
NR2F1	-0.94767	7.320433	-9.9426	1.05E-21	1.84E-20	38.39058
SMTN	-0.83561	6.561867	-9.94047	1.07E-21	1.87E-20	38.37246
SGCE	-0.95003	7.765427	-9.93698	1.10E-21	1.93E-20	38.34262
OLR1	-1.03874	5.103291	-9.91613	1.32E-21	2.29E-20	38.16477
PLAGL1	-0.81447	7.32842	-9.91579	1.32E-21	2.30E-20	38.16182
RASSF6	0.974378	6.491633	9.911085	1.38E-21	2.39E-20	38.12175
TMTC1	-0.63539	5.728967	-9.90381	1.47E-21	2.54E-20	38.05973
TCEAL2	-1.21504	4.671601	-9.89759	1.55E-21	2.67E-20	38.00681
PPP1R14A	-0.99328	6.481156	-9.89495	1.58E-21	2.73E-20	37.98432
RAB11FIP1	0.590568	8.941093	9.891804	1.63E-21	2.81E-20	37.95756
ITGB2	-0.68335	7.068694	-9.88724	1.69E-21	2.92E-20	37.91871
SAMSN1	-0.73371	7.571031	-9.88487	1.73E-21	2.97E-20	37.89858
CTSO	-0.66467	7.824707	-9.8784	1.83E-21	3.14E-20	37.84358
TMPRSS2	0.720992	7.488458	9.865258	2.04E-21	3.50E-20	37.73187
PPP1R14D	0.944938	6.871184	9.862912	2.09E-21	3.57E-20	37.71195
LOC729970	-0.59379	4.339388	-9.85999	2.14E-21	3.65E-20	37.68714
ANGPT1	-0.72986	5.52007	-9.85695	2.20E-21	3.74E-20	37.66132
NPTX2	-0.73953	4.532426	-9.85383	2.26E-21	3.84E-20	37.63489
C3orf70	-0.97151	6.157055	-9.8528	2.28E-21	3.87E-20	37.62608
NAPRT	0.61864	8.752828	9.851302	2.31E-21	3.91E-20	37.6134
GKN1	2.984021	7.925445	9.849203	2.35E-21	3.98E-20	37.5956
HSPB6	-0.80365	4.895594	-9.84908	2.35E-21	3.98E-20	37.59452
SETBP1	-0.95203	6.023931	-9.84708	2.39E-21	4.05E-20	37.57755

CES2	0.847923	9.125662	9.8334	2.69E-21	4.55E-20	37.46162
F2RL1	0.818327	8.437646	9.819217	3.04E-21	5.12E-20	37.3415
SLC28A2	0.752272	4.531873	9.795361	3.73E-21	6.22E-20	37.13976
AGR3	1.631757	10.06769	9.772373	4.54E-21	7.51E-20	36.9457
NR1I2	0.67329	5.591748	9.770319	4.62E-21	7.63E-20	36.92837
MYH11	-1.18186	5.657945	-9.76198	4.96E-21	8.16E-20	36.85808
ARMCX5-GP	-0.6478	6.996718	-9.75629	5.20E-21	8.56E-20	36.81014
SLAMF8	-0.63291	6.380619	-9.75332	5.34E-21	8.77E-20	36.78512
SHROOM3	0.627596	8.343219	9.746072	5.68E-21	9.31E-20	36.72407
SCN7A	-0.78825	3.533521	-9.74144	5.91E-21	9.64E-20	36.68508
MCTP1	-0.72915	5.728326	-9.73548	6.22E-21	1.01E-19	36.63491
GMDS	0.918135	8.797303	9.73296	6.35E-21	1.03E-19	36.61375
FAXC	-0.68416	3.872643	-9.72954	6.54E-21	1.06E-19	36.58497
TOX3	1.129321	8.62167	9.719774	7.11E-21	1.15E-19	36.50291
COL21A1	-0.96506	5.777375	-9.71175	7.61E-21	1.22E-19	36.43548
RNF183	0.842387	6.264844	9.702244	8.25E-21	1.32E-19	36.35573
SLMAP	-0.77153	6.255073	-9.69137	9.05E-21	1.44E-19	36.26455
IRF6	0.739642	6.289144	9.69111	9.07E-21	1.44E-19	36.26234
SLC41A2	0.649235	6.986168	9.685491	9.51E-21	1.51E-19	36.21525
DFNA5	-0.81387	7.654124	-9.68224	9.78E-21	1.56E-19	36.18803
PIGR	1.329092	9.402789	9.671842	1.07E-20	1.70E-19	36.10093
SFRP1	-0.73907	4.822877	-9.6689	1.10E-20	1.74E-19	36.07634
HAPLN1	0.660929	4.167136	9.668726	1.10E-20	1.74E-19	36.07485
KRT8	0.768772	11.47899	9.653918	1.24E-20	1.96E-19	35.95099
LRR31	1.114122	5.94482	9.653581	1.25E-20	1.97E-19	35.94817
CTB-167B5.2	-0.65126	3.975244	-9.64589	1.33E-20	2.09E-19	35.88391
FBLN1	-0.92301	7.005416	-9.64435	1.35E-20	2.12E-19	35.87101
PPAPDC1A	-0.84391	5.058849	-9.64017	1.40E-20	2.19E-19	35.83609
MPEG1	-0.76169	7.955338	-9.63964	1.40E-20	2.20E-19	35.83174
GALNT7	0.602925	9.485922	9.638045	1.42E-20	2.23E-19	35.81837
SELENBP1	0.810664	8.074698	9.63499	1.46E-20	2.29E-19	35.79287
BLVRA	-0.59796	6.494661	-9.62937	1.53E-20	2.40E-19	35.74596
LOC283070	-0.60078	6.226739	-9.61703	1.70E-20	2.65E-19	35.64301
LINC00341 /,	-0.65147	6.584961	-9.6133	1.75E-20	2.73E-19	35.61194
SLC44A3	0.68628	8.052132	9.597835	2.00E-20	3.10E-19	35.48316
FHL1	-1.26859	7.270322	-9.59075	2.12E-20	3.28E-19	35.42419
NRXN3	-0.8459	5.149091	-9.58902	2.15E-20	3.33E-19	35.40979
LINC00483	1.134933	5.960858	9.587023	2.19E-20	3.38E-19	35.3932
ACTC1	-0.78152	7.061669	-9.58582	2.21E-20	3.41E-19	35.38321
BHMT2	-0.68631	4.174829	-9.58119	2.30E-20	3.54E-19	35.3447
C1QA	-0.69959	8.212144	-9.57825	2.36E-20	3.63E-19	35.32024
IGDCC4	-0.74775	5.886071	-9.5681	2.57E-20	3.95E-19	35.23597
CPE	-1.08253	7.649348	-9.56269	2.69E-20	4.13E-19	35.19102
LYVE1	-0.73209	4.52142	-9.55903	2.77E-20	4.25E-19	35.16065
TFCP2L1	0.618763	6.291267	9.556271	2.84E-20	4.34E-19	35.13774
TMEM97	0.6505	9.2065	9.547654	3.05E-20	4.65E-19	35.06627
RTN1	-0.74847	5.419616	-9.53719	3.33E-20	5.05E-19	34.97955
OCLN	0.672262	7.305204	9.534664	3.40E-20	5.15E-19	34.95862
TFEC	-0.73418	5.041503	-9.51462	4.02E-20	6.06E-19	34.79272
ENPEP	-0.75037	5.033217	-9.51213	4.11E-20	6.18E-19	34.77211
KRTCAP3	0.740062	8.49569	9.502297	4.46E-20	6.68E-19	34.69085
LCN2	1.552742	11.02418	9.497963	4.63E-20	6.92E-19	34.65505
CDH1	0.765337	8.263913	9.491826	4.87E-20	7.26E-19	34.60437
CYS1	-0.85585	4.928998	-9.47604	5.56E-20	8.27E-19	34.47417
ANG	0.767918	8.235255	9.470567	5.82E-20	8.65E-19	34.42901
ABCA6	-0.60291	4.034777	-9.46905	5.89E-20	8.75E-19	34.41651
PPP1R36	0.691299	6.459952	9.466141	6.04E-20	8.95E-19	34.39254
NAT1	0.62359	8.56645	9.44395	7.27E-20	1.07E-18	34.20987

ALOX5AP	-0.7549	8.611646	-9.44357	7.29E-20	1.07E-18	34.20678
IRX5	0.674383	4.706112	9.434471	7.87E-20	1.15E-18	34.13194
CPED1	-0.70031	6.759404	-9.43392	7.90E-20	1.16E-18	34.12742
PGM5-AS1	-0.90308	5.446149	-9.4212	8.79E-20	1.28E-18	34.02296
GGTA1P	-0.8147	6.785705	-9.40962	9.67E-20	1.41E-18	33.9279
C1orf106	0.79408	9.522263	9.405004	1.01E-19	1.46E-18	33.89006
FAM216A	-0.60415	6.445593	-9.39962	1.05E-19	1.53E-18	33.84595
CAPN13	0.909814	4.473974	9.395344	1.09E-19	1.58E-18	33.81088
SPINT2	0.617684	10.77124	9.385604	1.18E-19	1.71E-18	33.73111
TUSC3	-0.63956	4.350651	-9.37461	1.29E-19	1.87E-18	33.64118
AOC1	1.344378	8.004258	9.371887	1.32E-19	1.91E-18	33.61888
AKR1C4	0.799911	4.463247	9.366329	1.39E-19	1.99E-18	33.57344
VIP	-1.1109	3.682815	-9.36365	1.42E-19	2.04E-18	33.55152
GDA	0.828352	6.257467	9.354857	1.52E-19	2.18E-18	33.47971
RCSD1	-0.65586	6.385048	-9.34937	1.60E-19	2.28E-18	33.4349
DSP	0.70234	10.74652	9.347446	1.62E-19	2.32E-18	33.41921
CYSLTR1	-0.66957	5.09825	-9.3421	1.69E-19	2.41E-18	33.37558
RHBDL2	0.776794	5.750456	9.340664	1.71E-19	2.44E-18	33.36388
SDC1	0.614022	9.091027	9.323978	1.97E-19	2.79E-18	33.22786
CALML4	0.596138	6.12738	9.323591	1.97E-19	2.80E-18	33.2247
MAL2	0.875502	11.05841	9.322935	1.99E-19	2.81E-18	33.21936
LYPD6B	0.993083	6.751316	9.320332	2.03E-19	2.86E-18	33.19816
GCNT3	1.266903	9.612732	9.317899	2.07E-19	2.92E-18	33.17835
CYP2C9	0.762696	5.828795	9.317054	2.08E-19	2.93E-18	33.17147
CA2	1.49191	10.28025	9.315312	2.11E-19	2.97E-18	33.15729
RP11-389C8	-0.6092	5.584006	-9.31125	2.19E-19	3.07E-18	33.12423
CASQ2	-0.93464	5.401397	-9.30815	2.24E-19	3.14E-18	33.09896
RRAD	-0.5895	5.142977	-9.29877	2.42E-19	3.38E-18	33.02269
SLFN11	-0.67154	6.991221	-9.29844	2.43E-19	3.39E-18	33.02004
TC2N	0.698766	7.887442	9.2941	2.52E-19	3.51E-18	32.98476
SNRPN /// SI	-0.68093	7.073065	-9.2909	2.59E-19	3.60E-18	32.95878
FCN1	-0.6013	5.276648	-9.2717	3.03E-19	4.20E-18	32.80291
PLEK2	0.690184	8.928265	9.268776	3.10E-19	4.29E-18	32.77918
HOXB2	-0.59213	7.545542	-9.26235	3.27E-19	4.52E-18	32.72707
C1QC	-0.66285	8.676437	-9.25073	3.60E-19	4.96E-18	32.63296
TCEAL3	-0.63619	8.257821	-9.24411	3.80E-19	5.22E-18	32.57931
PTPRC	-0.80256	7.808659	-9.24222	3.86E-19	5.30E-18	32.56406
ICAM1	-0.68334	6.922246	-9.2313	4.22E-19	5.78E-18	32.47568
S100P	1.225785	11.97213	9.217921	4.71E-19	6.42E-18	32.36761
ACTG2	-0.69589	7.21222	-9.21467	4.84E-19	6.58E-18	32.34133
HLF	-0.74248	4.420305	-9.21171	4.96E-19	6.74E-18	32.31747
NR4A3	-0.61821	4.800922	-9.2096	5.04E-19	6.84E-18	32.30041
PGC	2.205644	9.323164	9.184054	6.22E-19	8.36E-18	32.09448
ABHD17C	0.611555	9.484614	9.174375	6.73E-19	9.03E-18	32.01656
DES	-0.70668	5.154274	-9.1561	7.81E-19	1.04E-17	31.86959
C6orf58	1.379794	4.936522	9.1444	8.59E-19	1.14E-17	31.77565
F13A1	-0.99667	6.851933	-9.1371	9.12E-19	1.21E-17	31.71708
SLC5A1	0.808788	6.544541	9.125985	9.98E-19	1.32E-17	31.62794
HSD11B2	0.707075	5.984024	9.122124	1.03E-18	1.37E-17	31.597
BIK	0.793187	9.200027	9.114468	1.10E-18	1.45E-17	31.53567
STYK1	0.743288	5.986846	9.110586	1.13E-18	1.49E-17	31.50459
FRZB	-0.69969	5.450764	-9.09729	1.26E-18	1.65E-17	31.39825
IFIT2	-0.67677	7.068364	-9.09514	1.28E-18	1.68E-17	31.38102
ASB2	-0.67944	5.448652	-9.09503	1.28E-18	1.68E-17	31.38019
STX19	0.714495	5.123181	9.090304	1.33E-18	1.74E-17	31.34238
RGS2	-0.70039	10.44808	-9.07933	1.46E-18	1.90E-17	31.25473
UGT2B15	1.148439	6.012414	9.064487	1.64E-18	2.14E-17	31.1363
PRSS16	0.715078	6.47338	9.046042	1.91E-18	2.48E-17	30.98934

PRSS2	0.895601	7.567286	9.040822	1.99E-18	2.58E-17	30.94779
FOXQ1	1.010939	10.91907	9.037465	2.05E-18	2.64E-17	30.92108
PLAU	-0.71669	7.586634	-9.02937	2.18E-18	2.82E-17	30.85668
SNX10	-0.6654	8.268493	-9.02563	2.25E-18	2.90E-17	30.82699
CCDC146	-0.69573	5.781943	-9.01242	2.50E-18	3.21E-17	30.72203
RRAGD	-0.6726	6.898218	-9.01033	2.55E-18	3.26E-17	30.70544
DES /// SUPT	-1.141	8.029729	-8.99548	2.87E-18	3.66E-17	30.58766
BMPR1B	-0.62377	4.191775	-8.99279	2.93E-18	3.74E-17	30.56632
SMOC2	-0.81807	6.704442	-8.99221	2.95E-18	3.75E-17	30.56176
C7	-1.03076	5.399065	-8.99028	2.99E-18	3.81E-17	30.54645
LOC1027242	0.648475	7.618235	8.98998	3.00E-18	3.82E-17	30.54408
JUP	0.69566	9.378212	8.986602	3.08E-18	3.91E-17	30.51731
ZNF331	-0.65639	6.628815	-8.97968	3.26E-18	4.13E-17	30.46247
GPX2	0.765135	8.289235	8.974859	3.39E-18	4.28E-17	30.42434
CCL4	-0.80939	8.416563	-8.97431	3.40E-18	4.30E-17	30.41998
C6orf132	0.606951	6.224302	8.971846	3.47E-18	4.38E-17	30.4005
DUOX2	1.482382	7.08521	8.970368	3.51E-18	4.43E-17	30.38881
CCDC102B	-0.64586	4.875859	-8.95785	3.88E-18	4.87E-17	30.2898
LOC440934	-0.63208	3.521797	-8.95595	3.94E-18	4.95E-17	30.27484
AHNAK2	-0.86443	6.271937	-8.93618	4.62E-18	5.77E-17	30.11878
BPIFB1	1.821022	8.109917	8.923185	5.13E-18	6.38E-17	30.01634
DUOXA2	0.890027	7.010549	8.916528	5.41E-18	6.72E-17	29.96391
AX746755 //	-0.59289	5.062557	-8.90522	5.92E-18	7.33E-17	29.87494
CXCL17	1.39735	7.482097	8.885818	6.91E-18	8.51E-17	29.72243
FCGR3A /// F	-1.0455	6.640753	-8.8756	7.50E-18	9.21E-17	29.64222
C1QB	-0.76839	8.910407	-8.86272	8.31E-18	1.02E-16	29.54123
MYOT	-0.68282	3.427779	-8.86144	8.39E-18	1.03E-16	29.53121
MUC13	1.024512	8.991144	8.85383	8.91E-18	1.09E-16	29.47159
SYNPO2	-1.41303	7.415102	-8.84569	9.51E-18	1.16E-16	29.40787
TLR8	-0.58754	5.249297	-8.83034	1.07E-17	1.30E-16	29.28785
CD24	0.80183	11.16587	8.823755	1.13E-17	1.37E-16	29.23638
C4A /// C4B	-0.75947	8.274588	-8.81986	1.17E-17	1.41E-16	29.20597
GATA6-AS1	0.754413	6.385431	8.819599	1.17E-17	1.41E-16	29.20393
MIR155 /// M	-0.69668	5.22255	-8.81112	1.25E-17	1.51E-16	29.13778
LIPH	0.745288	6.999142	8.79911	1.38E-17	1.65E-16	29.04411
KCTD14 /// P	0.710269	7.293094	8.797382	1.40E-17	1.67E-16	29.03064
CD44	-0.62861	7.725288	-8.78283	1.57E-17	1.87E-16	28.91731
P2RY13	-0.65185	4.824451	-8.77826	1.62E-17	1.94E-16	28.88174
IGF1	-0.9306	6.006494	-8.77329	1.69E-17	2.01E-16	28.84315
DSG2	0.787431	9.596516	8.76921	1.74E-17	2.08E-16	28.8114
SOSTDC1	1.381489	6.14339	8.76851	1.75E-17	2.09E-16	28.80596
LINC00702	-0.83646	3.751752	-8.76529	1.80E-17	2.14E-16	28.78094
MUC17	0.748041	5.912465	8.761922	1.85E-17	2.19E-16	28.75477
CYP2J2	0.683207	6.46293	8.757275	1.92E-17	2.27E-16	28.71868
TACR2	-0.70968	5.224598	-8.75376	1.97E-17	2.33E-16	28.69136
TNFSF13B	-0.70891	8.372607	-8.7533	1.98E-17	2.34E-16	28.68781
FZD7	-0.76681	7.112647	-8.74956	2.04E-17	2.41E-16	28.65879
POSTN	-0.59142	6.390634	-8.73552	2.27E-17	2.67E-16	28.54993
ATP2C2	0.671919	6.269837	8.735503	2.27E-17	2.67E-16	28.54979
PRKAR2B	-0.92292	7.255106	-8.73527	2.28E-17	2.68E-16	28.54799
AGMAT	0.626467	6.423175	8.722469	2.52E-17	2.95E-16	28.44885
CFH	-0.92202	7.931489	-8.7199	2.57E-17	3.01E-16	28.42899
CCL3 /// CCL	-0.96812	7.632721	-8.71796	2.61E-17	3.05E-16	28.41394
MISP	0.623472	9.324331	8.712556	2.72E-17	3.18E-16	28.37215
NKX3-2	-0.60051	4.832816	-8.69957	3.02E-17	3.52E-16	28.2718
PSAPL1	0.661468	6.45855	8.698587	3.04E-17	3.54E-16	28.26419
LSR	0.615634	9.323896	8.696777	3.08E-17	3.59E-16	28.25021
EGR3	-0.83626	6.999016	-8.69656	3.09E-17	3.59E-16	28.2485

AF070581	-0.63793	4.140215	-8.6908	3.23E-17	3.75E-16	28.20403
MUC1	0.930412	9.934088	8.675211	3.65E-17	4.22E-16	28.08383
FOXF1	-0.74915	8.304782	-8.67168	3.75E-17	4.34E-16	28.05664
GIMAP7	-0.75673	7.239758	-8.66711	3.89E-17	4.48E-16	28.02138
IL7R	-0.68815	8.223223	-8.66185	4.05E-17	4.67E-16	27.98089
TMEM255A	-0.80927	4.341734	-8.66077	4.09E-17	4.71E-16	27.97262
PCDHB14	-0.69269	5.253515	-8.65214	4.37E-17	5.01E-16	27.90619
CTSE	1.473484	10.76122	8.651137	4.41E-17	5.05E-16	27.89846
GPR34	-0.81499	6.934053	-8.6491	4.48E-17	5.13E-16	27.88277
SELE	-1.00625	5.218043	-8.64731	4.54E-17	5.19E-16	27.86907
PLP1	-0.85893	3.855646	-8.64146	4.75E-17	5.42E-16	27.82408
TMC5	0.901467	8.858126	8.639789	4.82E-17	5.48E-16	27.81124
KLF5	0.721876	9.79614	8.616496	5.78E-17	6.53E-16	27.63246
ENO2	-0.61223	6.244052	-8.61603	5.80E-17	6.55E-16	27.62886
RCAN2	-0.86362	7.653798	-8.60249	6.44E-17	7.24E-16	27.52513
RNASE6	-0.67524	7.669238	-8.60024	6.55E-17	7.36E-16	27.5079
SH3BGR	-0.61663	5.760128	-8.59751	6.70E-17	7.51E-16	27.487
COL11A1	-1.36592	6.186807	-8.58752	7.24E-17	8.07E-16	27.41062
RP11-1L12.3	0.772715	6.072285	8.574341	8.02E-17	8.90E-16	27.30989
ACSL5	0.660669	9.128018	8.574096	8.03E-17	8.91E-16	27.30802
FOXA2	0.768598	6.72068	8.55872	9.05E-17	1.00E-15	27.19067
RBP7	-0.63245	6.096905	-8.55176	9.55E-17	1.05E-15	27.13763
AADAC	1.247546	7.447401	8.550363	9.65E-17	1.06E-15	27.12696
CLDN18	1.607372	8.99276	8.54183	1.03E-16	1.13E-15	27.06196
ZWINT	0.598475	9.677596	8.538421	1.06E-16	1.16E-15	27.03601
PTN	-0.72923	6.484324	-8.52009	1.22E-16	1.33E-15	26.89662
SULF2	-0.59128	8.538494	-8.51454	1.27E-16	1.39E-15	26.85444
HNF4G	0.633678	5.727525	8.513759	1.28E-16	1.39E-15	26.84849
CECR1	-0.6582	8.066314	-8.51169	1.30E-16	1.41E-15	26.8328
LGALS4	1.220505	11.23956	8.505533	1.37E-16	1.48E-15	26.78604
UPK1B	1.243148	5.589499	8.472147	1.77E-16	1.90E-15	26.53306
SYTL5	0.6842	4.97022	8.470981	1.78E-16	1.91E-15	26.52425
APOBEC3F //	-0.59228	5.509358	-8.46238	1.90E-16	2.03E-15	26.4592
BCL2A1	-0.93391	7.665455	-8.44615	2.16E-16	2.29E-15	26.33661
MRVI1	-0.83066	6.229261	-8.41982	2.64E-16	2.77E-15	26.13813
C2orf40	-1.5625	6.322327	-8.36645	3.97E-16	4.11E-15	25.73735
ANKRD6	-0.60974	4.92417	-8.35801	4.23E-16	4.38E-15	25.67415
NRN1	-0.79243	5.873757	-8.34886	4.53E-16	4.68E-15	25.60573
MYLK	-0.68253	4.44975	-8.34881	4.54E-16	4.68E-15	25.60533
MUC6	0.898123	5.855767	8.335879	5.00E-16	5.16E-15	25.50871
TRIM22	-0.64738	9.42747	-8.33511	5.03E-16	5.18E-15	25.50298
FCGR3B	-0.75007	7.966358	-8.30716	6.22E-16	6.37E-15	25.29449
FAM19A4	-0.7804	3.207039	-8.30171	6.49E-16	6.63E-15	25.2539
TMEM158	-0.65123	7.76656	-8.29217	6.97E-16	7.08E-15	25.18297
SMARCA1	-0.73455	6.444508	-8.28996	7.09E-16	7.20E-15	25.16651
MACC1	0.754836	6.94025	8.28893	7.14E-16	7.25E-15	25.15884
RAB9B	-0.60297	5.408729	-8.27602	7.88E-16	7.96E-15	25.06295
DDC	0.812976	6.899203	8.27242	8.09E-16	8.17E-15	25.03619
ERICH5	0.758754	4.650616	8.264847	8.57E-16	8.62E-15	24.97999
DSC2	0.807086	6.71289	8.260598	8.85E-16	8.90E-15	24.94848
SULT1B1	0.736381	6.582977	8.259693	8.91E-16	8.95E-15	24.94177
FABP4	-0.73869	4.927755	-8.25465	9.26E-16	9.29E-15	24.90442
XDH	0.663975	6.050575	8.229136	1.12E-15	1.12E-14	24.71554
PIK3C2G	1.069261	5.894967	8.215828	1.24E-15	1.23E-14	24.61724
EVI2B	-0.66982	7.755325	-8.2079	1.32E-15	1.30E-14	24.5587
SELL	-0.74184	7.067506	-8.20784	1.32E-15	1.30E-14	24.55826
HABP2	0.798568	6.49039	8.207467	1.32E-15	1.30E-14	24.55553
ONECUT2	0.905796	6.349986	8.200393	1.39E-15	1.37E-14	24.50337

CLEC5A	-0.76583	4.753798	-8.19556	1.44E-15	1.42E-14	24.46775
HOXA5	-0.6759	7.057526	-8.1888	1.52E-15	1.49E-14	24.41796
TPD52	0.609778	9.470442	8.184974	1.56E-15	1.53E-14	24.38979
SI	1.982326	6.074472	8.184508	1.57E-15	1.54E-14	24.38637
NBEA	-0.82009	5.539396	-8.16812	1.77E-15	1.73E-14	24.26582
GOS2	-0.82702	8.155542	-8.14913	2.04E-15	1.99E-14	24.12646
MXRA5	-0.66255	10.19438	-8.1488	2.05E-15	1.99E-14	24.12402
KCNE3	0.713316	7.22348	8.146141	2.09E-15	2.03E-14	24.10451
MIEN1	0.606238	9.664508	8.144916	2.11E-15	2.04E-14	24.09553
IGFBP3	-0.59478	9.774982	-8.11662	2.60E-15	2.51E-14	23.88835
NGFRAP1	-0.68082	10.57365	-8.10852	2.76E-15	2.65E-14	23.82917
PWAR6	-0.67407	4.129088	-8.10732	2.79E-15	2.67E-14	23.82041
SDPR	-0.76818	6.100543	-8.09905	2.97E-15	2.84E-14	23.76007
APOE	-0.64752	8.257062	-8.09745	3.00E-15	2.87E-14	23.74836
SOCS2	-0.67156	5.54635	-8.09551	3.05E-15	2.91E-14	23.73422
NEGR1	-0.64505	4.564224	-8.07967	3.42E-15	3.26E-14	23.61876
GPR84	-0.59314	4.756691	-8.07456	3.56E-15	3.38E-14	23.58154
SLC6A20	0.702168	5.641358	8.066636	3.77E-15	3.57E-14	23.52386
PGAP3	0.614339	7.44755	8.063213	3.87E-15	3.66E-14	23.49895
SLPI	1.028489	10.17174	8.060012	3.96E-15	3.75E-14	23.47568
TGFBR3	-0.74709	7.741978	-8.04729	4.35E-15	4.10E-14	23.38325
HYAL1	0.827752	6.514084	8.04366	4.47E-15	4.20E-14	23.35691
KIAA1324	1.003622	6.866942	8.03955	4.61E-15	4.32E-14	23.32708
CCL21	-0.69565	6.672491	-8.01978	5.33E-15	4.96E-14	23.1838
RGS1	-0.68257	8.248418	-8.0095	5.75E-15	5.33E-14	23.1094
GBP1	-0.60863	9.398723	-7.98331	6.98E-15	6.40E-14	22.92021
C19orf33	0.909732	10.19422	7.976263	7.35E-15	6.72E-14	22.86942
REG3A	1.021162	5.989029	7.963652	8.06E-15	7.35E-14	22.77857
EPCAM	0.669869	12.33281	7.956955	8.46E-15	7.71E-14	22.73037
PPAP2C	0.62581	8.181164	7.948653	8.99E-15	8.17E-14	22.67068
TMPRSS3	0.858648	7.197294	7.933935	1.00E-14	9.04E-14	22.56496
SFN	0.808037	10.93431	7.931178	1.02E-14	9.20E-14	22.54517
MEP1B	0.68858	4.272823	7.930557	1.03E-14	9.24E-14	22.54072
CLRN3	1.229524	8.558874	7.922946	1.09E-14	9.74E-14	22.48614
GPR160	0.723646	9.635681	7.915092	1.15E-14	1.03E-13	22.42985
CH25H	-0.76933	6.51188	-7.89563	1.32E-14	1.18E-13	22.29054
TAC1	-1.02279	3.620538	-7.88372	1.44E-14	1.28E-13	22.2055
KRT20	1.858285	8.02835	7.86787	1.62E-14	1.43E-13	22.0924
ACE2	1.177643	6.091294	7.857517	1.75E-14	1.54E-13	22.01864
TMEM178A	-0.62576	4.490938	-7.85126	1.83E-14	1.60E-13	21.97412
GPR128	1.233741	6.076053	7.842063	1.95E-14	1.71E-13	21.90869
SCIN	0.723648	5.785021	7.833947	2.07E-14	1.81E-13	21.85101
LXN	-0.59421	8.499973	-7.8284	2.16E-14	1.88E-13	21.81165
TNFRSF11A	0.707451	7.146306	7.825534	2.20E-14	1.91E-13	21.79127
FAT4	-0.61998	6.323057	-7.81935	2.30E-14	2.00E-13	21.74738
A1CF	0.810254	5.640177	7.815795	2.36E-14	2.05E-13	21.72219
ZNF415	-0.68824	4.496564	-7.81381	2.40E-14	2.07E-13	21.70812
MS4A8	0.736571	5.991756	7.800561	2.64E-14	2.27E-13	21.61427
UGT8	0.856231	7.390286	7.798909	2.67E-14	2.30E-13	21.60258
ACKR1	-0.88278	6.726517	-7.79093	2.83E-14	2.43E-13	21.54612
PRAP1	0.999626	6.9865	7.773965	3.20E-14	2.73E-13	21.42627
AZGP1	1.096525	6.050028	7.767842	3.34E-14	2.84E-13	21.38306
PPP1R1B	1.037228	7.572861	7.740103	4.08E-14	3.42E-13	21.18767
ADH1C	1.424726	8.961211	7.739986	4.08E-14	3.42E-13	21.18685
PROM1	1.235852	9.380324	7.71614	4.84E-14	4.01E-13	21.01935
AZGP1 /// A2	0.597857	5.903489	7.714152	4.91E-14	4.06E-13	21.0054
E2F8	0.606578	7.127143	7.709491	5.07E-14	4.19E-13	20.97271
WNT2	-0.64072	5.976312	-7.70223	5.34E-14	4.41E-13	20.92186

GNAI1	-0.64533	7.05346	-7.70104	5.39E-14	4.44E-13	20.91349
SLC26A3	0.823637	4.065849	7.698003	5.51E-14	4.53E-13	20.89222
C1QTNF7	-0.65088	4.385776	-7.6932	5.70E-14	4.68E-13	20.85862
TREM1	-0.79004	6.233857	-7.671	6.68E-14	5.44E-13	20.70343
NAP1L5	-0.62904	6.371114	-7.63651	8.53E-14	6.88E-13	20.46305
PRH1-PRR4	0.862534	5.477774	7.619034	9.66E-14	7.74E-13	20.34163
GP2	1.026024	5.978894	7.588933	1.19E-13	9.48E-13	20.13299
POF1B	0.785511	6.091552	7.563737	1.43E-13	1.12E-12	19.95888
DIRAS3	-0.65137	4.869741	-7.55951	1.47E-13	1.15E-12	19.92973
CLDN7	0.678308	9.725042	7.524076	1.88E-13	1.47E-12	19.68578
OTC	0.893179	4.773871	7.515874	2.00E-13	1.55E-12	19.62945
PKIB	0.854954	5.630151	7.514069	2.02E-13	1.56E-12	19.61706
WASF3	-0.79512	6.396668	-7.50472	2.16E-13	1.67E-12	19.55295
AQP5	0.760569	6.091276	7.497328	2.27E-13	1.75E-12	19.50227
GPR155	-0.61275	5.566267	-7.49529	2.31E-13	1.77E-12	19.48831
DPT	-0.86402	5.672269	-7.47869	2.59E-13	1.98E-12	19.37472
LINC01207	1.242211	6.709676	7.464949	2.85E-13	2.17E-12	19.28086
CFD	-0.79127	8.184514	-7.39622	4.59E-13	3.42E-12	18.81355
FABP1	1.170214	6.126155	7.393032	4.69E-13	3.49E-12	18.79194
TMEM139	0.637543	6.184489	7.378999	5.17E-13	3.83E-12	18.697
FAM3D	0.990131	8.37421	7.367752	5.59E-13	4.13E-12	18.62102
TDGF1 /// TC	0.820266	6.18783	7.362845	5.78E-13	4.26E-12	18.5879
KCNN4	0.656517	7.569321	7.352262	6.22E-13	4.57E-12	18.51653
ABCG5	0.688383	4.671235	7.347514	6.42E-13	4.72E-12	18.48454
GBP5	-0.73934	6.543081	-7.33771	6.87E-13	5.03E-12	18.41856
UNC5CL	0.770467	7.191004	7.336755	6.92E-13	5.06E-12	18.41211
LOC1019288	0.802476	5.294017	7.329973	7.25E-13	5.29E-12	18.3665
CDH17	1.380344	8.983318	7.326248	7.43E-13	5.41E-12	18.34147
MORN5	-0.59752	4.276773	-7.29258	9.36E-13	6.74E-12	18.11568
IPW /// LOC:	-0.7583	5.849803	-7.28915	9.58E-13	6.89E-12	18.09274
HLA-DQA1 /	-0.79186	10.05926	-7.2746	1.06E-12	7.56E-12	17.99544
PCDHB5	-0.65643	4.043064	-7.26819	1.11E-12	7.89E-12	17.95264
SEMA3C	-0.59984	7.156021	-7.26466	1.13E-12	8.07E-12	17.92908
PRIMA1	-0.76363	5.8172	-7.25762	1.19E-12	8.44E-12	17.88211
CCL14 /// CC	-0.64545	7.095062	-7.25543	1.21E-12	8.56E-12	17.86756
GRB7	0.610775	6.393568	7.237813	1.36E-12	9.60E-12	17.75024
GZMH	-0.64596	6.436578	-7.23397	1.40E-12	9.85E-12	17.7247
SMPX	-1.0101	4.520596	-7.2274	1.46E-12	1.03E-11	17.68105
ID4	-0.59835	5.568891	-7.22549	1.48E-12	1.04E-11	17.66836
NARR /// RA	-0.61266	8.408836	-7.22429	1.49E-12	1.05E-11	17.66036
RARRES1	-0.9235	8.130682	-7.20742	1.67E-12	1.17E-11	17.54846
GZMK	-0.78233	6.961842	-7.20267	1.73E-12	1.20E-11	17.51695
FOLR1	0.929084	5.757453	7.199799	1.76E-12	1.22E-11	17.49795
TRIM31	0.771454	7.217075	7.197225	1.79E-12	1.24E-11	17.48091
ITK	-0.59104	6.187169	-7.18622	1.93E-12	1.33E-11	17.40812
PROK2	-0.76599	4.214261	-7.18173	1.99E-12	1.37E-11	17.37846
LIPF	2.103247	7.664445	7.177128	2.05E-12	1.41E-11	17.34803
CXCR4	-0.60466	8.580622	-7.17453	2.09E-12	1.43E-11	17.33088
ST6GALNAC:	0.926004	8.6364	7.17387	2.10E-12	1.44E-11	17.32652
AQP9	-0.71691	6.74767	-7.1706	2.14E-12	1.47E-11	17.30492
TMEM200A	-0.77621	7.296349	-7.16163	2.28E-12	1.56E-11	17.24579
NMU	1.043182	8.056741	7.157354	2.34E-12	1.60E-11	17.21759
KCNE2	0.841626	6.41338	7.152055	2.43E-12	1.65E-11	17.18269
NAT2	0.718688	5.769461	7.150194	2.46E-12	1.67E-11	17.17044
CXCL14	1.093409	8.820789	7.136138	2.70E-12	1.83E-11	17.07798
CYP39A1	-0.64275	4.641026	-7.13434	2.73E-12	1.85E-11	17.0662
SNAP25	-0.61065	4.370456	-7.12302	2.95E-12	1.98E-11	16.99181
LYZ	0.747408	11.38706	7.114959	3.11E-12	2.08E-11	16.93897

REEP6	0.656303	6.540774	7.102326	3.39E-12	2.26E-11	16.85621
MYOCD	-0.82365	6.09169	-7.04517	4.96E-12	3.23E-11	16.48332
TNXA /// TN	-0.58706	7.191466	-7.00222	6.60E-12	4.23E-11	16.20483
TSPAN8	0.867481	12.63741	6.99449	6.94E-12	4.44E-11	16.15489
GAST	0.796913	6.10621	6.980758	7.60E-12	4.85E-11	16.06624
HPGD	0.991496	8.421866	6.973305	7.99E-12	5.08E-11	16.01818
TM4SF4	1.232391	7.050431	6.968552	8.24E-12	5.23E-11	15.98756
GPA33	0.912003	7.293277	6.967474	8.30E-12	5.26E-11	15.98062
BLNK	0.600244	8.431867	6.939466	9.98E-12	6.24E-11	15.80055
FCGBP	1.230175	8.277766	6.938108	1.01E-11	6.29E-11	15.79184
AURKA	0.596262	8.478655	6.93407	1.03E-11	6.45E-11	15.76594
A4GNT	0.681508	5.121279	6.923907	1.10E-11	6.88E-11	15.7008
PDZK1IP1	0.911353	9.119017	6.902058	1.27E-11	7.86E-11	15.56103
MSMB	1.681121	6.631235	6.896452	1.32E-11	8.14E-11	15.52523
LTF	1.372284	7.963845	6.8861	1.41E-11	8.69E-11	15.45919
BNIP3	-0.68258	7.136771	-6.86284	1.65E-11	9.99E-11	15.3111
FGF13	-0.76617	5.790696	-6.86009	1.68E-11	1.01E-10	15.29365
ANKRD22	0.646613	8.307445	6.841414	1.89E-11	1.14E-10	15.17508
PCOLCE2	-0.65772	4.496361	-6.82716	2.08E-11	1.25E-10	15.08476
ALDH1A1	0.854943	10.14638	6.825503	2.10E-11	1.26E-10	15.07431
STXBP1	-0.58603	7.343443	-6.825	2.10E-11	1.26E-10	15.07111
VLDLR	-0.71796	5.468212	-6.82131	2.16E-11	1.29E-10	15.04776
REG1A	1.649927	9.558243	6.803232	2.42E-11	1.44E-10	14.93359
RAI2	-0.67266	6.465914	-6.78927	2.65E-11	1.57E-10	14.84555
CEACAM5	0.630651	8.082739	6.786113	2.71E-11	1.60E-10	14.82569
SST	1.17076	5.854854	6.764873	3.10E-11	1.82E-10	14.69214
GIPC2	0.663459	7.446953	6.761837	3.16E-11	1.85E-10	14.67308
FKBP1B	0.617743	8.070471	6.754125	3.32E-11	1.94E-10	14.6247
PROS1	-0.61433	8.027794	-6.75411	3.32E-11	1.94E-10	14.62463
KLHL13	-0.78155	5.64013	-6.73287	3.81E-11	2.21E-10	14.49163
CDC20	0.586137	8.488624	6.727097	3.95E-11	2.29E-10	14.45552
CYBRD1	-0.62611	7.778684	-6.72567	3.99E-11	2.31E-10	14.44661
LINC00261	0.975663	6.925434	6.704139	4.58E-11	2.63E-10	14.31227
EPDR1	-0.66808	7.500446	-6.70128	4.66E-11	2.67E-10	14.29443
CCL5	-0.61576	8.55373	-6.66558	5.85E-11	3.30E-10	14.07263
GPR64	0.729952	4.870188	6.659002	6.10E-11	3.43E-10	14.03186
EPYC	-0.63653	3.139256	-6.65701	6.18E-11	3.47E-10	14.0195
H19 /// MIR6	-1.02421	6.651662	-6.65677	6.19E-11	3.47E-10	14.01807
MALL	0.628163	8.59872	6.651041	6.42E-11	3.60E-10	13.98258
METTL7B	0.591909	7.34512	6.625094	7.56E-11	4.20E-10	13.8223
MEP1A	1.091894	6.278543	6.605197	8.57E-11	4.74E-10	13.69976
SERPINA4	0.629802	6.453326	6.585221	9.72E-11	5.33E-10	13.57705
TFF3	1.027525	8.818916	6.582103	9.92E-11	5.43E-10	13.55793
SLC7A11	0.640785	6.570477	6.580818	1.00E-10	5.47E-10	13.55005
TM4SF20	1.22913	6.863206	6.572644	1.05E-10	5.73E-10	13.49996
S100A8	-0.66993	7.151216	-6.56949	1.07E-10	5.84E-10	13.48067
SFTA2	0.947712	6.454348	6.567979	1.08E-10	5.89E-10	13.4714
KLK11	0.782592	6.675258	6.566164	1.10E-10	5.95E-10	13.46029
MAP7D2	0.877685	4.943134	6.53434	1.34E-10	7.19E-10	13.26597
P2RY14	-0.71207	7.044931	-6.51707	1.49E-10	7.95E-10	13.16085
TMED6	0.770473	4.917	6.481538	1.86E-10	9.80E-10	12.94536
APOD	-0.91459	7.399778	-6.47935	1.88E-10	9.92E-10	12.9321
ORM1 /// OF	0.991128	5.407264	6.477592	1.90E-10	1.00E-09	12.92149
CCL18	-0.78448	8.313283	-6.46532	2.06E-10	1.08E-09	12.84735
CRNDE	0.635479	6.951605	6.464616	2.06E-10	1.08E-09	12.84309
AFAP1-AS1	0.728516	5.743023	6.450076	2.26E-10	1.18E-09	12.7554
GBA3	0.82166	4.657332	6.436782	2.45E-10	1.27E-09	12.67538
AQP1	-0.64512	8.265253	-6.42063	2.71E-10	1.39E-09	12.57832

RASSF10	0.733955	5.309952	6.415712	2.79E-10	1.43E-09	12.54885
OLFM4	1.636316	9.731053	6.394886	3.17E-10	1.61E-09	12.42414
SLC26A9	0.734219	5.646925	6.376023	3.56E-10	1.80E-09	12.31148
TSPYL5	-0.74282	7.024878	-6.37262	3.64E-10	1.83E-09	12.29117
HMGCS2	0.810496	6.490515	6.284853	6.20E-10	3.04E-09	11.77113
FAM110C	0.705556	7.157174	6.268765	6.84E-10	3.32E-09	11.67649
FLJ22763	0.798197	4.126722	6.263808	7.04E-10	3.41E-09	11.64737
CCL19	-0.84057	7.12988	-6.21339	9.54E-10	4.53E-09	11.35236
REG4	1.494655	8.287943	6.185871	1.12E-09	5.29E-09	11.19223
SPINK1	1.018287	11.88018	6.164275	1.28E-09	5.97E-09	11.06701
CEACAM6	1.094303	10.50969	6.148645	1.40E-09	6.52E-09	10.97662
TCN1	1.172814	8.162634	6.148014	1.41E-09	6.54E-09	10.97297
DMBT1	1.040602	9.342089	6.143227	1.45E-09	6.72E-09	10.94533
KIT	-0.63463	7.314633	-6.14155	1.46E-09	6.78E-09	10.93568
F5	0.8419	6.796857	6.128692	1.58E-09	7.28E-09	10.86152
ACSM3	0.60406	6.133781	6.089495	1.99E-09	9.05E-09	10.63638
SBSPON	-0.70403	5.022311	-6.08621	2.03E-09	9.20E-09	10.61759
SHISA3	-0.59951	4.206076	-6.08561	2.04E-09	9.23E-09	10.61416
HCAR3	-0.90846	6.418545	-6.07917	2.12E-09	9.58E-09	10.57727
SDR16C5	0.929095	7.805307	6.040343	2.66E-09	1.18E-08	10.35587
CYP4F3	0.635504	5.732597	6.021198	2.97E-09	1.31E-08	10.24716
SLC6A14	1.129975	7.672433	6.00034	3.36E-09	1.47E-08	10.12906
QPCT	-0.62099	7.02378	-5.96304	4.17E-09	1.80E-08	9.918768
PBK	0.60535	8.481762	5.960744	4.22E-09	1.83E-08	9.905887
PFN2	-0.60354	8.766134	-5.9456	4.61E-09	1.98E-08	9.820902
TFPI2	-0.6591	5.095419	-5.92822	5.10E-09	2.18E-08	9.723548
IL1R2	0.68437	7.758841	5.828822	9.00E-09	3.71E-08	9.171841
MAMDC2	-0.7921	4.640331	-5.81418	9.78E-09	4.01E-08	9.091257
TMPRSS15	0.692988	4.76486	5.813384	9.82E-09	4.03E-08	9.0869
LOC1019298	1.480102	7.64011	5.776739	1.21E-08	4.88E-08	8.886086
GSPT2	-0.59478	6.581338	-5.76825	1.27E-08	5.10E-08	8.839738
SCG2	-0.66287	4.921871	-5.76501	1.29E-08	5.19E-08	8.822038
DEFB1	0.795899	6.474301	5.721148	1.65E-08	6.54E-08	8.583621
CHI3L1	-0.78721	6.684163	-5.67265	2.16E-08	8.40E-08	8.321912
MMP9	-0.59388	8.188809	-5.63286	2.69E-08	1.03E-07	8.108694
APOA1	0.62477	5.336634	5.61268	3.01E-08	1.14E-07	8.001048
RBP2	0.794417	5.960267	5.579052	3.62E-08	1.36E-07	7.822477
PLAC8	0.763584	9.814542	5.562958	3.95E-08	1.47E-07	7.737357
HTR2B	-0.7399	5.14459	-5.55775	4.07E-08	1.51E-07	7.709876
CCL11	-0.71766	8.327245	-5.54178	4.44E-08	1.64E-07	7.625709
CYP2B6 /// C	0.710445	6.99561	5.517501	5.06E-08	1.85E-07	7.498141
GUCY2C	0.849508	6.905393	5.486164	6.00E-08	2.16E-07	7.334263
REEP1	-0.64148	6.102765	-5.45553	7.07E-08	2.53E-07	7.174872
LRRC19	0.652014	4.41981	5.444017	7.53E-08	2.68E-07	7.115198
GC	0.843933	4.400397	5.415932	8.74E-08	3.08E-07	6.970069
AADACP1	0.618166	5.035621	5.353161	1.22E-07	4.21E-07	6.648171
GIF	1.122284	5.658435	5.283327	1.76E-07	5.93E-07	6.294075
PDZK1	0.689941	5.034763	5.270359	1.88E-07	6.32E-07	6.228789
IFI44L	-0.63952	7.306234	-5.24529	2.15E-07	7.13E-07	6.102993
STK31	0.640337	5.797463	5.241859	2.19E-07	7.25E-07	6.085819
CYP4X1	0.677803	5.748537	5.217899	2.47E-07	8.14E-07	5.966174
CHP2	0.631234	5.754295	5.153675	3.44E-07	1.11E-06	5.647946
CLCA1	0.901126	5.750157	5.152233	3.47E-07	1.11E-06	5.640842
DAZ1 /// DA	1.00426	4.86596	5.106929	4.37E-07	1.38E-06	5.418596
MLF1	-0.61447	5.883131	-5.09589	4.62E-07	1.46E-06	5.364718
VNN1	0.718795	7.162685	5.091624	4.72E-07	1.49E-06	5.343918
CLDN2	0.603271	6.434714	5.076723	5.09E-07	1.59E-06	5.271413
IGH /// IGHA	0.830128	11.2933	5.003257	7.36E-07	2.25E-06	4.9168

ANXA13	0.714499	7.400294	4.974369	8.50E-07	2.56E-06	4.778669
CXCL10	-0.59935	8.933506	-4.97404	8.51E-07	2.57E-06	4.777095
TMEM100	-0.68848	6.01452	-4.95847	9.19E-07	2.76E-06	4.702958
ITLN1	0.976245	6.864362	4.954995	9.35E-07	2.80E-06	4.686439
LOC1019300	0.588749	4.249816	4.883205	1.33E-06	3.89E-06	4.347592
CXCL9	-0.62692	8.659212	-4.88027	1.35E-06	3.94E-06	4.333823
HS6ST2	-0.60383	3.934051	-4.83774	1.66E-06	4.76E-06	4.135378
CCL15 /// CC	0.67304	6.807473	4.827889	1.74E-06	4.98E-06	4.089624
IGJ	0.722754	10.82514	4.708375	3.09E-06	8.46E-06	3.541576
PPBP	-0.66297	4.772479	-4.60346	5.05E-06	1.34E-05	3.071022
CLDN3	0.603896	7.340711	4.596504	5.21E-06	1.38E-05	3.040169
MTTP	0.742421	4.749589	4.538073	6.82E-06	1.77E-05	2.782754
LGALS2	0.59734	7.643521	4.471574	9.24E-06	2.34E-05	2.493546
IL33	-0.61956	6.878655	-4.45217	1.01E-05	2.55E-05	2.409911
LEFTY1	0.809681	5.520216	4.438664	1.07E-05	2.70E-05	2.351898
ADH1B	-0.6213	5.209647	-4.42075	1.16E-05	2.90E-05	2.275194
PI3	0.719354	8.393255	4.394526	1.31E-05	3.23E-05	2.163465
PCK1	0.705415	5.773236	4.280884	2.16E-05	5.17E-05	1.686452
SPINK4	0.849286	7.516716	4.059849	5.54E-05	0.000123	0.792457
CXCL11	-0.60215	6.769035	-3.97403	7.90E-05	0.000171	0.457457
CXCL13	-0.63161	7.930186	-3.77263	0.000177	0.000362	-0.30199
HLA-DQA1 /	-0.63304	6.058747	-3.43119	0.000641	0.001192	-1.50308
CPS1	0.59207	6.702625	2.988244	0.002917	0.004844	-2.8975