

A gene expression based immune signature for lung adenocarcinoma prognosis

Supplementary Tables

Supplementary Table 1. Lung adenocarcinoma microarray datasets used in the validation stage.

Platform	GEO ID	Samples	LUAD	Stage I	Stage II	Stage III	Stage IV	Smoking Status
	GSE31210	246	226	168	58	0	0	Y
	GSE50081	181	127	92	35	0	0	Y
GPL570	GSE30219	307	85	71	12	2	0	N
	GSE3141	111	58			N		N
	GSE8894	138	63			N		N

Supplementary Table 2. 4479 overlapped significant DEGs (FDR<0.05) in two designs.

Gene	Independent sample design		Paired sample design	
	logFC	FDR	logFC	FDR
STX11	3.02	2.07E-175	3.04	5.53E-79
ACVRL1	2.58	3.16E-164	2.31	1.68E-78
S1PR1	2.82	1.58E-163	2.57	5.98E-83
PECAM1	2.19	9.01E-160	2.08	2.45E-106
TEK	3.31	2.80E-149	3.16	1.58E-92
RAMP3	3.18	5.38E-148	3.18	1.21E-74
EPAS1	2.59	1.29E-140	2.57	9.10E-90
RAMP2	2.80	3.11E-130	2.76	5.27E-105
SH2D3C	2.28	2.79E-123	2.15	8.23E-67
SDPR	3.29	4.32E-123	3.23	4.37E-66
TAL1	2.83	5.44E-123	2.82	4.76E-95
GIMAP8	2.49	1.42E-121	2.29	1.16E-53
EDNRB	3.40	8.19E-121	3.57	3.23E-88
FCN3	4.55	9.92E-120	5.07	3.94E-50
CALCRL	2.78	2.06E-119	2.48	1.85E-67
CDH5	2.48	1.63E-118	2.28	1.38E-69
FOXF1	2.70	1.05E-114	2.48	2.19E-60
FHL1	3.38	1.69E-114	3.52	9.98E-114
HBA2	4.40	1.10E-111	4.03	5.75E-51
LYVE1	3.26	6.02E-108	2.97	2.07E-45
AGER	5.01	9.16E-106	6.79	4.47E-71
ADRB2	3.10	3.41E-105	3.34	3.28E-67
PTPRB	2.67	1.39E-104	2.69	6.56E-75
CLEC1A	2.35	2.20E-104	2.19	2.02E-55
CD101	2.79	1.35E-101	2.60	7.72E-38
TMEM100	4.34	2.98E-101	4.76	3.81E-53
GPIHBP1	3.86	1.97E-100	4.09	9.58E-69
JAM2	2.37	6.31E-100	2.32	5.11E-87
LRRC32	2.24	6.56E-99	1.92	3.87E-31
CLEC14A	2.23	1.09E-97	2.13	1.49E-60
GYPE	3.33	1.10E-97	3.54	2.56E-72
SLC6A4	6.39	2.60E-97	8.54	8.61E-74
VIPR1	3.29	4.11E-97	3.65	1.01E-48
CD93	2.22	1.96E-96	1.81	1.67E-38
PRKCE	1.87	4.07E-95	1.85	1.97E-65
PYCR1	-3.82	7.95E-95	-3.75	1.44E-134
STARD13	2.01	1.87E-94	1.86	1.09E-61
SGCG	4.01	1.44E-93	4.40	8.41E-87
ANGPT4	4.73	2.98E-92	4.57	1.68E-61

HBB	4.52	4.09E-92	3.98	2.76E-45
FPR2	3.37	8.04E-92	2.69	1.07E-35
SMAD6	2.52	2.84E-91	2.52	4.63E-41
ERG	2.12	1.38E-90	1.94	7.51E-66
GPD1	4.11	1.38E-90	5.07	2.26E-57
ANGPTL7	4.77	1.67E-90	5.06	9.04E-50
GIMAP6	2.13	7.54E-90	1.95	5.89E-41
CAV1	3.27	1.10E-89	3.69	1.76E-89
PTRF	2.02	5.85E-87	1.77	8.13E-46
CSRNP1	2.26	9.74E-87	2.00	3.82E-37
GLIPR2	2.24	1.37E-86	2.05	1.01E-59
AOC3	2.54	1.94E-86	2.35	5.19E-65
LMO2	1.91	2.91E-86	1.78	7.01E-49
BMPR2	1.29	5.02E-84	1.10	2.05E-25
BTNL9	3.47	9.46E-84	4.30	1.47E-77
HEG1	2.09	1.32E-83	1.73	2.23E-32
NLRC4	2.29	6.79E-83	2.17	2.83E-41
SPTBN1	1.65	8.31E-82	1.50	6.97E-50
PKHD1L1	3.47	5.11E-81	3.49	2.77E-40
CD5L	4.31	6.59E-81	4.83	3.55E-49
JPH4	2.61	1.47E-80	2.79	4.03E-72
SOX17	2.68	1.62E-80	2.45	2.68E-37
FGFBP2	3.56	1.93E-80	3.83	1.82E-50
ALAS2	5.08	1.32E-78	3.55	9.24E-33
SIRPB1	2.60	2.59E-78	2.30	1.15E-49
CD300LG	5.17	3.65E-78	6.10	6.28E-58
TNNC1	3.53	4.25E-78	4.81	2.99E-62
CAT	1.79	6.17E-78	1.95	7.61E-61
TCF21	3.07	1.30E-76	3.33	2.62E-87
TRPV2	1.93	5.29E-76	1.77	1.35E-40
PDLIM2	1.76	8.49E-76	1.78	9.05E-50
HBEGF	2.58	2.08E-74	2.28	6.93E-38
ARHGAP31	2.11	1.70E-72	2.03	1.05E-59
ADARB1	1.74	2.71E-72	1.60	1.51E-33
TGFBR3	2.58	6.91E-72	2.71	1.36E-50
ADCY4	1.96	8.11E-72	1.95	6.49E-43
HPS5	1.13	9.93E-72	0.95	1.13E-31
PPP1R15A	1.75	1.41E-71	1.73	9.01E-47
FGR	2.16	2.75E-71	2.10	1.27E-47
SRPK1	-1.74	3.93E-71	-1.73	1.45E-84
CLEC4M	4.90	4.71E-71	4.48	4.06E-27
TMEM204	1.90	6.02E-71	1.54	1.07E-30
TNS1	2.04	7.74E-71	2.19	3.20E-54

ALDH18A1	-1.72	1.03E-69	-1.83	4.63E-86
ANGPTL1	2.75	1.54E-69	2.83	1.62E-60
FLI1	1.71	3.25E-68	1.53	6.96E-34
CHRM1	4.54	6.83E-68	5.43	1.58E-46
THBD	2.34	1.20E-67	2.17	6.93E-71
NDST1	1.46	7.49E-67	1.34	6.04E-42
ETV4	-4.27	8.53E-67	-3.60	1.91E-73
SIGLEC11	2.62	1.11E-66	2.95	1.89E-29
OVCH1	4.96	1.12E-66	5.56	2.42E-46
SPN	2.26	1.63E-66	2.29	2.30E-44
HBA1	4.71	2.26E-66	4.81	2.97E-30
RCAN1	1.77	5.41E-66	1.39	1.94E-27
LTBP4	2.11	7.32E-66	2.13	2.06E-55
NMUR1	2.56	1.09E-65	2.97	8.37E-72
ADPRH	1.54	1.31E-65	1.38	7.35E-49
CLDN5	2.68	1.84E-65	2.82	5.41E-64
PDE5A	1.82	3.68E-65	1.53	1.30E-35
TIE1	1.91	4.32E-65	1.75	4.07E-49
MYOC	4.60	4.90E-65	5.26	1.09E-66
IL3RA	1.78	5.78E-65	1.71	8.03E-46
MGAT3	3.07	6.36E-65	3.77	3.79E-68
ITLN1	5.38	1.33E-64	4.71	9.79E-22
LAMP3	2.70	3.25E-64	3.23	4.51E-46
VWF	2.24	3.25E-64	2.06	3.77E-29
PRAM1	2.38	7.42E-64	2.50	7.95E-42
GOLM1	-2.68	8.76E-64	-2.74	7.15E-89
LDLR	1.98	1.32E-63	1.88	1.83E-27
TGM1	2.63	2.00E-63	3.29	3.97E-74
CA4	4.31	5.22E-63	6.43	1.62E-58
GYPC	1.71	6.53E-63	1.59	4.78E-48
WFS1	1.58	7.07E-63	1.55	1.61E-46
RASGRP4	2.14	7.32E-63	2.11	1.08E-43
C5AR1	2.03	1.05E-62	1.71	2.82E-27
VSIG4	2.50	1.11E-62	2.39	1.65E-29
MFAP4	2.58	2.86E-62	2.63	5.02E-46
GIMAP5	1.93	3.31E-62	1.88	8.22E-32
DNASE1L3	3.62	1.12E-61	3.87	9.77E-34
CD36	3.04	1.84E-61	3.33	3.96E-60
OSCAR	2.28	3.54E-61	2.27	2.58E-45
CD52	2.35	5.39E-61	2.46	3.57E-43
TOP2A	-4.10	6.27E-61	-3.98	4.02E-58
TGFBR2	1.59	1.47E-60	1.47	3.56E-43
OLR1	2.60	2.04E-60	2.87	2.20E-37

UBE2T	-3.59	2.76E-60	-3.37	2.75E-62
MSR1	2.39	8.27E-60	2.29	8.07E-32
NPR1	2.51	1.45E-59	2.93	6.62E-76
GIMAP7	1.83	1.56E-59	1.79	1.70E-34
CFP	2.27	1.63E-59	2.29	1.21E-49
CASP12	2.78	2.59E-58	3.04	3.91E-38
RECQL4	-3.50	1.32E-57	-2.92	1.17E-48
SYNPO	1.66	2.33E-57	1.60	7.99E-42
CD300C	2.17	7.38E-57	1.96	2.66E-35
CD34	1.58	9.43E-57	1.29	3.50E-27
UHRF1	-3.62	9.62E-57	-3.71	3.58E-51
HYAL2	1.24	1.69E-56	1.08	2.00E-31
TUBB3	-4.32	2.00E-56	-4.36	2.19E-76
B3GNT3	-4.44	2.34E-56	-4.33	3.70E-65
F8	1.65	3.50E-56	1.50	7.67E-29
BCL6B	1.69	4.68E-56	1.60	3.35E-36
PPP1R14B	-2.22	7.98E-56	-2.02	2.17E-69
KIF4A	-4.29	8.91E-56	-4.38	7.95E-50
SEMA5A	2.45	1.29E-55	2.47	4.04E-45
SELP	2.33	1.34E-55	2.44	4.81E-34
DKK2	2.32	2.60E-55	2.23	1.17E-32
MARCO	3.04	2.85E-55	3.42	3.10E-35
KLF4	2.34	4.77E-55	2.13	1.26E-30
KIF20A	-3.52	2.65E-54	-3.68	9.22E-59
SPTBN2	-2.70	2.83E-54	-2.59	3.62E-44
RNF144B	1.68	2.95E-54	1.51	2.40E-34
MFNG	1.55	3.10E-54	1.65	5.41E-49
RECK	1.59	4.57E-54	1.36	8.54E-26
LGR4	-2.84	5.03E-54	-2.73	7.57E-60
PI16	3.88	1.10E-53	4.33	7.04E-42
GIMAP1	1.74	1.64E-53	1.69	3.43E-31
RAD54L	-3.81	2.39E-53	-3.45	1.71E-49
SLC19A3	2.89	4.19E-53	3.62	3.98E-64
CXCR2	2.72	4.20E-53	2.20	2.97E-27
CDC25C	-4.29	5.34E-53	-4.36	1.24E-61
EZH2	-2.83	6.64E-53	-2.57	4.50E-43
BUB1B	-3.79	7.54E-53	-3.83	4.92E-55
COX7A1	1.91	7.90E-53	1.71	9.63E-32
SFTPC	4.93	1.07E-52	7.28	1.87E-30
SH2D4B	2.45	1.08E-52	2.78	1.01E-50
CCL14	2.68	1.56E-52	2.47	4.25E-22
ACP5	1.80	1.74E-52	1.82	1.00E-35
NEK2	-3.86	1.75E-52	-3.91	1.50E-40

CDC6	-3.73	2.47E-52	-3.43	2.85E-52
KIF2C	-4.00	2.92E-52	-3.95	7.11E-53
DES	3.06	3.11E-52	3.68	1.29E-44
DOK2	1.89	4.12E-52	1.90	4.20E-35
EPM2A	1.22	6.78E-52	0.97	2.68E-37
SLC4A1	3.64	9.08E-52	2.83	4.10E-20
PCDH12	1.68	1.70E-51	1.38	9.84E-22
COX4I2	2.33	2.36E-51	2.62	4.17E-59
GAB1	1.32	4.12E-51	1.28	4.87E-44
CDC20	-3.94	5.87E-51	-3.98	4.21E-54
ALOX5	1.94	1.16E-50	1.93	8.61E-32
CASQ2	2.94	1.40E-50	3.36	6.70E-30
EXO1	-3.97	1.40E-50	-3.84	1.16E-56
CENPF	-3.53	2.10E-50	-3.45	4.46E-50
NCF2	1.78	2.17E-50	1.49	1.04E-24
MMRN1	2.42	2.88E-50	2.34	8.02E-30
PLK1	-3.46	4.35E-50	-3.51	2.90E-54
LRRC2	2.54	6.18E-50	2.86	2.69E-39
LILRA5	2.22	7.69E-50	2.05	1.42E-36
ADRB1	3.07	9.22E-50	4.00	6.77E-42
TROAP	-4.31	1.15E-49	-3.61	1.17E-41
MRC1	2.46	1.48E-49	2.41	1.90E-27
TLR4	1.75	1.91E-49	1.34	4.00E-22
N4BP1	0.90	1.98E-49	0.76	1.30E-25
STX1A	-3.21	2.00E-49	-2.99	4.23E-53
ENG	1.55	1.11E-48	1.38	7.59E-30
MYL9	1.64	1.44E-48	1.56	1.90E-28
PTCRA	2.40	1.44E-48	2.59	6.88E-34
TPX2	-3.82	2.74E-48	-3.77	4.78E-50
IL33	2.30	3.20E-48	2.36	2.27E-27
CCNB1	-3.08	3.34E-48	-2.94	3.41E-52
KIF11	-2.92	3.70E-48	-2.95	2.45E-46
SLC14A1	2.83	4.02E-48	3.37	1.30E-33
METTL7A	1.80	4.26E-48	1.99	2.59E-51
JDP2	1.34	4.76E-48	1.26	1.64E-23
LY6G6F	4.22	5.13E-48	4.04	3.04E-29
BIRC5	-4.09	9.66E-48	-4.06	1.12E-49
CTHRC1	-3.72	1.02E-47	-4.02	1.16E-50
GPX3	2.23	1.34E-47	2.35	1.01E-49
FERMT1	-3.35	2.06E-47	-3.29	3.00E-77
HELLS	-3.03	2.50E-47	-2.93	2.72E-52
GNAQ	1.10	4.32E-47	0.99	9.55E-36
UBE2C	-4.38	4.33E-47	-3.99	5.03E-58

GDF10	3.08	4.96E-47	4.00	1.33E-58
MDK	-3.28	5.26E-47	-2.71	3.21E-69
GIMAP4	1.52	5.41E-47	1.38	2.10E-22
KAT2A	-1.81	1.84E-46	-1.30	2.37E-39
CXCR1	2.98	2.68E-46	2.33	2.56E-20
NME1	-2.29	3.03E-46	-2.27	3.90E-77
COL10A1	-4.67	3.45E-46	-5.26	2.19E-59
TNXB	2.58	5.69E-46	3.21	3.50E-42
EPCAM	-1.83	5.77E-46	-1.49	4.27E-59
MAMDC2	2.68	5.93E-46	3.10	1.35E-45
TRAP1	-1.29	6.12E-46	-1.11	1.22E-46
EME1	-3.03	8.06E-46	-2.52	2.73E-35
NRG3	2.93	8.58E-46	3.55	1.21E-47
FGF11	-4.03	1.36E-45	-3.37	1.48E-58
HMGB3	-3.70	1.36E-45	-3.00	2.03E-54
ESAM	1.81	1.50E-45	2.02	1.34E-54
ADH1B	3.30	1.67E-45	4.21	7.64E-35
CCT3	-1.43	1.93E-45	-1.45	9.56E-51
TNFRSF21	-2.14	3.39E-45	-2.01	4.58E-53
HMMR	-3.39	3.75E-45	-3.50	5.52E-58
AHNAK	1.87	5.91E-45	1.88	4.72E-49
MMP19	1.59	7.01E-45	1.33	1.27E-24
RILPL2	1.18	7.36E-45	1.22	5.78E-54
FOXM1	-3.62	9.90E-45	-3.34	4.41E-40
CCNB2	-3.44	1.03E-44	-3.36	6.53E-51
RHBDL2	-3.02	1.03E-44	-2.82	2.73E-36
CFD	2.36	1.05E-44	2.61	5.67E-36
ARHGEF6	1.46	1.08E-44	1.38	2.45E-30
PRKCH	1.02	1.15E-44	0.91	5.34E-23
FGF2	2.11	1.18E-44	1.95	3.15E-40
S1PR4	1.75	1.21E-44	1.88	4.48E-34
CD83	1.63	2.16E-44	1.64	4.78E-23
COLEC10	3.70	3.38E-44	3.52	3.38E-40
DNA2	-2.59	3.43E-44	-2.20	1.34E-38
ANGPT1	2.24	4.22E-44	2.47	1.55E-38
SLC11A1	1.94	4.25E-44	2.08	1.35E-49
MEF2A	0.79	4.32E-44	0.69	1.90E-29
CCNF	-2.16	4.95E-44	-1.93	1.18E-39
E2F3	-1.52	6.84E-44	-1.57	3.68E-36
CSF3	4.08	7.36E-44	4.20	1.72E-21
PLEKHO2	1.21	7.78E-44	0.95	7.38E-24
INPP5K	0.98	7.82E-44	1.07	8.27E-43
FANCI	-2.21	8.69E-44	-2.13	1.97E-41

FUT2	-3.25	1.04E-43	-2.97	3.77E-41
MASP1	2.66	1.09E-43	3.54	3.76E-49
ESPL1	-3.61	3.05E-43	-3.28	5.00E-41
ALOX5AP	1.96	3.14E-43	1.98	1.62E-24
GP9	3.38	3.14E-43	3.43	2.55E-22
ZEB1	1.39	4.58E-43	1.14	6.64E-22
SOX4	-1.85	6.04E-43	-1.78	8.92E-46
TRAIP	-2.21	6.27E-43	-1.97	3.96E-28
C2orf71	3.71	7.26E-43	4.73	9.65E-41
OTC	4.04	7.68E-43	4.48	2.26E-41
FPR1	2.04	1.11E-42	1.42	1.77E-22
SEPT4	1.45	1.12E-42	1.46	3.68E-33
MEFV	1.96	1.21E-42	1.78	7.71E-26
CENPA	-3.90	1.24E-42	-3.67	2.93E-47
GGCT	-1.83	1.76E-42	-1.47	2.05E-37
PIP5K1B	2.30	2.15E-42	2.56	2.95E-28
ACTN2	2.88	2.45E-42	3.80	1.88E-88
KCNA5	2.23	3.77E-42	2.16	2.00E-17
CD68	1.55	3.99E-42	1.26	1.13E-19
HBG1	5.16	4.07E-42	3.54	9.71E-29
CYP3A7	3.45	4.37E-42	4.30	2.22E-45
SLC2A1	-3.43	4.74E-42	-3.36	5.53E-46
GAS6	1.68	4.75E-42	1.75	9.27E-33
ABCG2	2.04	4.95E-42	2.07	4.17E-39
TOM1L2	1.22	7.04E-42	1.46	1.99E-51
EPB42	4.27	7.28E-42	3.33	4.22E-15
DNASE2B	3.06	8.03E-42	3.55	6.67E-30
POLQ	-3.53	8.13E-42	-3.04	2.69E-33
A2M	1.75	8.63E-42	1.78	6.55E-34
CDT1	-2.95	8.66E-42	-2.81	2.07E-39
ACE	1.67	9.50E-42	1.70	7.86E-41
CCL23	2.66	1.00E-41	2.81	4.55E-29
SOSTDC1	3.71	1.12E-41	5.56	2.93E-42
BRIP1	-3.03	1.25E-41	-2.88	7.75E-38
CLDN18	4.21	1.34E-41	6.46	1.88E-36
MKI67	-3.16	1.77E-41	-3.21	1.78E-41
PVT1	-2.72	2.13E-41	-2.16	2.82E-39
SLC7A7	1.51	2.19E-41	1.42	9.20E-23
FZD4	1.66	2.21E-41	1.48	9.00E-26
GJA5	1.69	2.66E-41	1.21	4.04E-10
TBX2	1.80	2.70E-41	1.82	3.56E-42
KIF15	-3.32	2.79E-41	-3.15	4.81E-34
GPBAR1	1.87	2.87E-41	2.02	7.54E-42

MARCKSL1	-1.99	3.96E-41	-2.09	2.03E-35
TIMP3	1.85	4.01E-41	1.64	2.21E-21
TK1	-2.77	4.01E-41	-2.65	9.04E-58
MAP3K3	0.98	4.17E-41	0.94	1.11E-33
PTPN5	3.61	4.37E-41	4.30	7.89E-42
KLF13	1.27	6.15E-41	1.27	3.83E-35
HSPB8	1.87	1.21E-40	2.16	2.32E-41
C1orf106	-2.28	1.26E-40	-2.16	5.47E-39
TRAF4	-1.47	1.30E-40	-1.11	7.78E-36
LMOD1	1.78	1.47E-40	1.55	8.67E-22
IL7R	2.17	1.55E-40	1.77	1.23E-15
FIG4	0.92	1.56E-40	0.77	6.62E-25
PDK4	2.39	1.60E-40	2.55	2.48E-54
RASAL1	-4.42	1.67E-40	-4.24	1.97E-68
KIF1C	1.18	1.86E-40	1.32	9.23E-55
GNL3	-1.22	2.53E-40	-1.10	4.76E-31
DCC	2.74	3.07E-40	2.77	1.39E-22
GREM1	-4.81	3.36E-40	-5.22	7.51E-41
PTPRH	-5.70	4.16E-40	-5.33	4.50E-47
MMP11	-5.25	4.24E-40	-5.64	5.37E-66
SPI1	1.61	4.61E-40	1.55	7.75E-25
FANCD2	-1.81	4.84E-40	-1.62	5.53E-32
MYH2	3.35	5.80E-40	3.47	2.35E-27
P2RY14	1.61	6.00E-40	1.33	1.52E-15
MME	2.68	6.40E-40	3.16	4.72E-42
SSFA2	1.15	8.48E-40	1.24	2.37E-42
CLCN2	-1.78	1.11E-39	-1.36	2.57E-22
SVEP1	2.11	1.25E-39	1.91	2.62E-28
XPR1	-2.07	1.26E-39	-1.68	2.38E-55
TFAP4	-1.43	1.49E-39	-1.30	1.46E-27
CCNA2	-2.98	1.50E-39	-2.93	6.03E-41
P4HB	-1.24	1.99E-39	-1.17	6.94E-42
GMFG	1.51	2.14E-39	1.47	1.46E-29
FGF10	3.70	2.15E-39	3.90	2.22E-24
TBX4	2.09	2.75E-39	2.25	6.77E-42
GPR4	1.46	3.38E-39	1.22	2.79E-15
ZNF366	1.93	3.82E-39	1.73	8.88E-26
MCM4	-2.30	3.88E-39	-2.20	1.39E-43
BLM	-2.52	4.28E-39	-2.29	7.18E-43
GADD45B	1.63	4.28E-39	1.27	7.91E-15
GJB2	-4.71	4.37E-39	-4.16	6.50E-56
KIF23	-3.02	5.70E-39	-2.79	3.52E-41
TNFSF12	1.13	5.77E-39	1.10	5.49E-30

BUB1	-3.00	5.88E-39	-2.90	1.05E-47
GATA2	1.77	9.72E-39	1.94	9.78E-24
GAPDH	-1.82	9.75E-39	-1.66	3.03E-39
NEIL3	-4.72	1.29E-38	-3.96	1.93E-46
SELPLG	1.46	1.45E-38	1.30	1.00E-22
AURKA	-2.77	1.80E-38	-2.48	9.16E-44
ABCA12	-6.13	2.09E-38	-6.44	2.92E-47
UTRN	1.32	2.23E-38	1.36	1.38E-37
WDR46	-1.01	2.57E-38	-0.94	3.13E-37
XDH	-4.57	3.70E-38	-4.10	9.80E-49
IRAK1	-1.33	4.50E-38	-1.31	1.26E-55
LAD1	-2.10	4.89E-38	-1.87	1.09E-26
JUND	1.33	6.48E-38	1.35	6.64E-19
DKC1	-1.26	7.50E-38	-1.21	3.45E-47
PBK	-3.70	8.03E-38	-3.60	5.38E-37
FANCA	-2.05	8.17E-38	-1.93	1.66E-55
SFXN4	-1.50	8.17E-38	-1.32	5.51E-41
MYBL2	-3.93	8.40E-38	-4.25	4.47E-55
CENPE	-2.95	8.48E-38	-2.78	6.91E-35
PTH1R	2.03	8.67E-38	2.28	4.08E-43
PILRA	1.57	9.03E-38	1.38	6.05E-21
IL1RL1	3.35	1.14E-37	3.47	2.34E-23
RAPGEF4	1.87	1.41E-37	2.11	3.28E-53
FAM111B	-2.82	1.50E-37	-2.81	5.86E-40
PKP3	-1.69	1.80E-37	-1.41	4.16E-40
KPNA2	-2.07	1.91E-37	-2.02	2.87E-47
ICAM2	1.36	2.13E-37	1.32	3.51E-33
SYT7	-3.62	2.97E-37	-2.68	5.34E-28
PAK1	-1.28	3.19E-37	-1.36	1.86E-69
SHANK3	1.35	3.91E-37	1.29	1.03E-25
ENO1	-1.35	4.51E-37	-1.36	8.26E-42
CCNE1	-3.35	5.67E-37	-3.19	1.10E-48
HEATR1	-1.11	5.76E-37	-1.16	1.46E-48
ESCO2	-2.85	7.54E-37	-2.79	1.17E-40
DAPK2	1.76	7.85E-37	2.55	2.14E-63
OGN	2.66	1.06E-36	2.90	1.35E-29
HMGA1	-2.30	1.14E-36	-2.22	1.10E-44
ST14	-1.59	1.19E-36	-1.51	9.95E-54
MSI2	-1.64	2.13E-36	-1.69	4.17E-39
TMEM79	-1.47	2.53E-36	-1.26	3.14E-25
TFR2	-3.74	3.02E-36	-2.98	4.10E-58
FOLR3	3.74	3.30E-36	4.35	5.19E-65
GPM6B	1.96	3.30E-36	2.25	4.14E-35

SERPING1	1.30	4.18E-36	1.21	1.23E-22
PPM1D	0.86	5.76E-36	0.66	4.65E-14
CAMP	3.08	6.12E-36	3.55	1.65E-43
ZFYVE9	1.30	6.71E-36	1.02	4.76E-26
SOX18	1.58	7.19E-36	1.41	1.68E-17
HDGF	-1.15	7.27E-36	-1.13	1.51E-33
DCAF13	-1.47	8.47E-36	-1.33	2.39E-39
SPP1	-4.64	8.99E-36	-4.74	1.97E-49
FOSB	3.21	9.15E-36	3.63	1.54E-22
FKBP11	-2.00	9.75E-36	-1.78	2.06E-37
PGLYRP1	3.06	1.01E-35	2.23	1.24E-08
SHCBP1	-2.44	1.17E-35	-2.53	7.13E-41
SALL4	-3.61	1.37E-35	-3.19	4.97E-41
PLEKHA8	-1.52	1.38E-35	-1.53	5.34E-40
F12	-3.35	1.45E-35	-3.08	6.61E-42
COL11A1	-7.05	1.57E-35	-7.53	4.31E-30
HAS1	3.38	1.63E-35	1.74	4.45E-04
RGS17	-4.28	1.69E-35	-3.80	1.29E-40
WDR12	-1.37	1.79E-35	-1.37	7.17E-48
VAMP2	1.01	1.99E-35	1.07	1.54E-41
FBXO32	-2.69	2.01E-35	-2.42	1.04E-39
TFAP2A	-3.90	2.02E-35	-3.98	6.46E-37
MCOLN1	0.95	2.25E-35	0.83	2.14E-26
HSPA5	-1.03	2.50E-35	-1.09	2.80E-36
ANXA3	1.85	3.04E-35	2.00	4.58E-27
MAD2L1	-2.76	3.10E-35	-2.60	5.64E-42
CD300LF	1.85	3.28E-35	2.01	6.36E-31
PTTG1	-2.58	3.46E-35	-2.28	3.56E-51
GRHL3	-4.36	3.47E-35	-4.06	8.22E-39
PTPN1	0.91	4.60E-35	0.80	1.51E-26
TMEM150B	2.04	4.63E-35	2.13	1.25E-26
ABCC3	-2.70	4.99E-35	-2.10	1.80E-27
FEN1	-1.71	5.00E-35	-1.65	1.55E-43
CHEK1	-2.26	5.02E-35	-2.13	1.19E-35
CBX4	-1.24	5.85E-35	-1.03	6.31E-29
ARRB2	0.90	6.94E-35	0.85	4.80E-23
WASF3	1.78	8.25E-35	2.01	2.08E-47
GCNT3	-5.11	8.31E-35	-3.86	1.35E-28
LIPN	3.36	8.31E-35	2.80	2.42E-16
PC	-1.90	1.02E-34	-1.65	7.97E-28
PMM2	-1.17	1.04E-34	-1.09	2.23E-36
RETN	3.29	1.14E-34	4.38	2.82E-32
KISS1R	-6.58	1.17E-34	-5.37	3.12E-35

WNT3	-2.35	1.21E-34	-1.90	7.26E-25
STYK1	-2.76	1.24E-34	-2.37	9.02E-31
RAD51	-2.55	1.42E-34	-2.36	2.38E-36
HLA-E	1.15	1.56E-34	1.10	1.33E-30
LDHA	-1.46	1.65E-34	-1.46	1.55E-42
KAT2B	1.12	1.75E-34	1.17	3.74E-27
CCRL2	1.64	2.32E-34	1.60	1.74E-23
PTGER4	1.58	2.43E-34	1.56	7.02E-37
NEXN	1.51	2.51E-34	1.18	4.53E-16
BMP8A	-2.90	2.75E-34	-2.49	7.85E-33
GNAI2	0.78	3.00E-34	0.58	3.69E-19
ALG3	-1.24	3.28E-34	-1.15	1.07E-35
PITX2	-8.41	3.28E-34	-6.79	1.55E-91
SPATS2	-1.32	3.69E-34	-1.22	1.82E-42
EDN1	1.94	3.77E-34	1.68	1.15E-17
WDHD1	-2.10	3.77E-34	-1.86	2.81E-30
EPRS	-1.01	4.08E-34	-1.09	3.48E-47
RBM28	-1.26	4.92E-34	-1.20	4.83E-42
TYMS	-2.27	5.10E-34	-2.23	6.93E-41
SGPL1	-1.13	5.61E-34	-1.13	1.84E-62
WDR75	-0.93	5.98E-34	-0.85	9.48E-41
MCM2	-2.11	7.10E-34	-2.00	2.62E-36
P2RY6	-3.15	7.22E-34	-2.73	1.06E-42
POLR2H	-1.33	7.23E-34	-1.03	1.20E-37
HSPD1	-1.40	7.40E-34	-1.30	2.02E-49
SELE	2.90	7.40E-34	1.83	5.62E-08
CDK1	-2.63	7.72E-34	-2.31	7.99E-32
IL6	2.64	7.78E-34	1.71	3.51E-09
E2F2	-2.44	8.03E-34	-2.32	3.40E-31
CAV3	3.34	9.26E-34	4.14	4.07E-40
PROS1	1.48	9.72E-34	1.54	2.44E-28
BCL9	-1.48	1.05E-33	-1.45	4.79E-38
PARP1	-1.05	1.09E-33	-1.18	2.80E-46
PDGFB	1.41	1.19E-33	1.13	1.39E-12
CXCL2	2.35	1.21E-33	2.49	1.18E-18
FCGR3B	2.45	1.21E-33	1.93	2.31E-19
PADI4	2.70	1.21E-33	2.51	6.69E-24
HBG2	4.27	1.23E-33	3.71	1.20E-22
FGFR4	2.37	1.26E-33	3.22	1.19E-36
IL1RL2	-2.89	1.26E-33	-2.59	2.14E-22
ILF2	-1.19	1.30E-33	-1.18	5.25E-38
LILRA1	1.85	1.36E-33	1.44	1.73E-17
PDE1B	1.79	1.66E-33	1.79	2.30E-26

MNX1	-4.50	1.75E-33	-3.88	7.55E-44
UTP14A	-0.92	1.98E-33	-0.96	3.42E-32
MYH10	1.38	2.24E-33	1.27	7.93E-21
WFDC1	1.93	2.41E-33	1.99	1.21E-19
RAD54B	-1.99	2.56E-33	-1.75	2.59E-23
CDKN3	-3.30	3.55E-33	-3.17	6.20E-45
SLCO2B1	1.57	3.98E-33	1.35	4.30E-15
ONECUT1	-6.60	4.28E-33	-6.36	4.33E-47
PLA2G4F	2.39	4.41E-33	3.59	6.60E-39
CYP24A1	-6.86	4.89E-33	-5.74	6.41E-36
KIF22	-1.23	5.30E-33	-0.96	7.54E-24
SLC7A5	-2.75	5.66E-33	-2.40	7.62E-41
RRAS	1.25	6.20E-33	1.40	2.79E-44
SLC5A6	-1.23	6.46E-33	-1.25	1.58E-47
ATAD2	-1.93	6.54E-33	-1.70	6.30E-24
KLF2	1.65	7.85E-33	1.66	1.09E-21
LILRB3	1.48	9.71E-33	1.25	6.53E-18
GPA33	3.03	1.13E-32	3.92	2.80E-47
CBX3	-1.17	1.31E-32	-1.11	1.81E-31
DDX56	-0.98	1.31E-32	-0.87	3.93E-27
CHRD1	2.32	1.45E-32	2.72	6.23E-28
CDCA7	-3.06	1.60E-32	-2.65	1.42E-25
SIRPA	1.31	1.74E-32	0.98	3.11E-14
BTK	1.50	1.85E-32	1.48	2.49E-19
TPBG	-1.89	1.92E-32	-1.92	2.68E-37
TLR8	1.90	1.95E-32	1.72	1.31E-17
GFPT1	-1.27	1.97E-32	-1.14	2.05E-35
GPR182	1.77	2.27E-32	1.26	5.37E-14
KCNN4	-3.35	2.44E-32	-3.42	2.29E-36
PALB2	-0.89	2.60E-32	-0.96	1.30E-29
NSF	-0.92	3.74E-32	-1.06	4.98E-44
BDNF	2.59	3.96E-32	3.39	1.20E-37
TRIM27	-0.90	3.96E-32	-0.77	4.90E-25
RASSF2	1.32	5.25E-32	0.98	2.60E-16
SORBS1	1.48	6.62E-32	1.58	1.43E-35
PAX6	1.40	7.40E-32	1.49	9.09E-25
UBASH3B	1.63	7.83E-32	1.47	8.26E-19
HSH2D	-1.54	7.89E-32	-1.22	8.40E-24
UBE2O	-0.99	9.02E-32	-0.95	1.24E-30
CYP27B1	-2.56	9.25E-32	-2.40	1.05E-32
NUP85	-0.98	9.28E-32	-0.87	3.89E-26
HK3	1.86	9.89E-32	1.98	2.10E-26
DARS2	-1.35	1.21E-31	-1.32	1.48E-37

BYSL	-1.39	1.26E-31	-1.28	1.71E-31
DUOX1	2.49	1.36E-31	3.60	9.76E-36
CDC25A	-2.57	1.72E-31	-2.42	7.12E-29
AQP4	2.85	2.01E-31	4.10	7.25E-28
THBS2	-2.92	2.40E-31	-3.28	1.26E-42
NOL10	-0.87	2.55E-31	-0.85	1.49E-31
OVCH2	3.45	2.59E-31	4.32	1.67E-40
GATA1	2.08	2.92E-31	2.26	2.51E-28
PGR	1.82	3.08E-31	1.79	1.04E-26
ROR1	1.85	3.08E-31	1.53	2.21E-15
PTGES	-3.12	3.22E-31	-2.70	1.85E-32
FANCF	-1.02	3.34E-31	-1.08	3.74E-27
TSPYL1	0.77	3.85E-31	0.59	7.62E-19
NEK7	0.89	3.96E-31	0.81	2.44E-21
CARD14	-3.71	4.31E-31	-2.73	3.20E-27
CCDC137	-1.13	4.98E-31	-0.98	1.45E-24
CNP	-0.87	5.05E-31	-0.90	3.03E-41
SRPK3	-3.96	6.98E-31	-2.82	3.36E-20
RAC3	-2.48	7.85E-31	-2.01	3.80E-34
GARS	-1.14	8.34E-31	-1.13	4.24E-36
POC1A	-1.71	9.44E-31	-1.58	9.91E-27
MNDA	1.58	1.02E-30	1.44	3.45E-17
GHR	1.94	1.04E-30	2.21	1.13E-46
BRIX1	-1.44	1.29E-30	-1.14	4.71E-29
DNASE1	-1.90	1.42E-30	-1.46	1.78E-23
CEACAM1	-2.20	1.57E-30	-1.80	8.12E-24
NSUN2	-1.18	1.82E-30	-1.04	1.55E-28
MYEOV	-6.69	2.01E-30	-4.53	5.11E-27
HSPE1	-1.37	2.42E-30	-1.19	2.38E-36
TACC3	-1.77	2.46E-30	-1.65	1.13E-33
SKIV2L	-0.90	2.62E-30	-0.75	3.74E-29
GATA6	1.74	2.74E-30	2.13	6.50E-37
P2RY1	1.66	2.87E-30	1.51	4.40E-24
CD33	1.55	3.02E-30	1.48	9.59E-19
IL18R1	1.63	3.21E-30	1.24	1.13E-07
SGCA	1.99	4.07E-30	2.22	5.35E-33
TRIP13	-2.73	4.40E-30	-2.72	5.82E-22
SLC44A2	0.81	4.73E-30	0.94	5.45E-32
C1orf198	1.04	6.00E-30	1.14	1.04E-31
HYOU1	-1.27	6.04E-30	-1.29	4.08E-43
ANO6	0.89	6.19E-30	0.66	9.06E-13
MC1R	-2.02	6.20E-30	-1.81	1.66E-23
FAP	-2.42	7.47E-30	-2.39	6.59E-25

TRIM59	-1.65	8.15E-30	-1.63	5.20E-34
TNFSF13	1.14	1.02E-29	1.16	4.90E-22
DTL	-2.06	1.10E-29	-2.31	5.00E-22
NOP2	-1.29	1.10E-29	-1.01	6.46E-22
LTC4S	1.74	1.13E-29	1.82	6.28E-27
GFRA2	1.85	1.29E-29	1.75	6.83E-20
SPDEF	-3.34	1.56E-29	-2.98	1.16E-24
DLG5	-1.38	1.57E-29	-1.38	8.47E-33
PTGIR	1.28	1.57E-29	1.05	1.49E-14
PMP22	1.18	1.71E-29	0.97	6.52E-18
TNS3	1.05	1.78E-29	0.89	1.25E-16
NVL	-0.89	1.88E-29	-0.78	3.23E-21
TYROBP	1.52	1.97E-29	1.52	1.44E-24
ATP1A2	2.29	2.07E-29	3.00	3.37E-34
HDAC1	-0.87	2.11E-29	-0.82	1.19E-27
CCT5	-1.40	2.16E-29	-1.31	5.25E-41
MCM8	-1.70	2.25E-29	-1.42	2.06E-22
CLDN12	-1.30	2.90E-29	-1.22	8.03E-32
F2RL3	1.73	3.11E-29	1.39	1.09E-13
EEF1A2	-6.70	4.38E-29	-5.21	1.55E-29
HTR3A	-6.14	4.38E-29	-5.69	9.89E-37
MMACHC	-1.17	4.73E-29	-1.25	2.15E-29
PIK3R1	1.00	4.89E-29	0.84	2.41E-19
AQP11	-1.90	5.35E-29	-1.77	3.56E-27
NOL11	-0.87	5.40E-29	-0.90	4.29E-34
COG2	-0.80	5.41E-29	-0.81	3.82E-23
STT3A	-0.94	5.49E-29	-0.96	4.09E-33
PREX1	1.25	5.54E-29	1.06	1.76E-15
SLCO2A1	1.70	5.83E-29	1.79	6.09E-19
MITF	1.23	6.00E-29	1.05	1.15E-17
ZFP36	1.69	6.20E-29	1.55	4.43E-19
SOCS2	1.87	6.93E-29	2.04	3.40E-26
PTPRO	1.63	8.42E-29	1.62	5.86E-19
TPI1	-1.24	8.79E-29	-1.14	9.44E-34
CYGB	1.15	9.47E-29	1.04	7.20E-19
ADAM8	-2.07	1.05E-28	-2.21	3.52E-37
C19orf48	-1.56	1.11E-28	-1.19	5.09E-22
HPSE2	2.70	1.12E-28	2.85	4.36E-25
FHL2	-2.45	1.18E-28	-2.76	2.00E-45
SH2B3	0.95	1.36E-28	0.76	1.04E-14
C1QA	1.56	1.39E-28	1.69	1.13E-21
TRAF7	-0.90	1.40E-28	-0.90	1.19E-30
KLHL12	-0.73	1.49E-28	-0.70	3.22E-21

LRRFIP1	0.81	1.55E-28	0.74	1.02E-22
TERT	-5.02	1.73E-28	-4.88	4.29E-21
HM13	-0.93	1.81E-28	-0.97	5.83E-39
FLVCR1	-1.49	1.82E-28	-1.24	2.69E-23
CLEC12A	2.03	2.08E-28	2.31	8.60E-22
FLT4	1.33	2.10E-28	1.26	2.05E-19
TPPP3	2.21	2.16E-28	3.08	6.10E-40
AQP9	1.81	2.17E-28	1.45	4.22E-14
SEMA4B	-1.75	2.31E-28	-1.54	1.36E-31
MRAS	1.06	2.36E-28	0.85	1.22E-18
FUT3	-2.50	2.52E-28	-1.98	5.22E-26
CRYAB	1.80	2.60E-28	2.20	1.08E-51
PPM1G	-0.80	2.63E-28	-0.87	2.24E-29
HPS3	-0.96	2.85E-28	-0.82	4.42E-20
NME4	-1.52	2.87E-28	-1.35	4.36E-42
CRIM1	1.25	3.00E-28	1.22	1.02E-23
C6orf25	2.43	3.04E-28	2.48	2.25E-15
LMO7	1.27	3.04E-28	1.45	3.01E-25
CTGF	1.55	3.26E-28	1.06	6.94E-10
STRA6	-4.60	3.26E-28	-4.72	9.15E-39
PDE8B	1.88	3.29E-28	2.31	4.28E-39
COL1A1	-2.86	3.48E-28	-3.39	9.22E-33
ALDOA	-1.30	3.79E-28	-1.23	3.37E-31
CANT1	-1.01	3.91E-28	-1.10	9.41E-40
SAMHD1	1.20	3.98E-28	0.97	5.23E-14
DAB2	1.13	4.22E-28	0.94	2.38E-13
FARSB	-0.95	4.38E-28	-0.92	1.81E-33
ABHD5	0.79	4.50E-28	0.73	7.40E-24
CP	-3.70	5.00E-28	-2.91	2.38E-15
PTRH2	-1.16	5.05E-28	-1.01	4.76E-26
C1QB	1.60	5.99E-28	1.71	1.53E-19
WNT2B	1.46	6.01E-28	1.43	4.76E-17
ARID5A	1.03	6.30E-28	0.82	8.10E-10
HYLS1	-1.42	6.36E-28	-1.25	5.70E-24
UBE2I	-0.70	6.43E-28	-0.70	1.69E-38
ARAP2	1.18	7.81E-28	1.12	1.07E-30
YDJC	-1.45	7.99E-28	-1.07	5.53E-27
SIGLEC5	1.57	8.04E-28	1.28	4.28E-16
CCHCR1	-1.30	8.12E-28	-0.98	7.71E-26
CALM1	0.67	8.99E-28	0.60	3.71E-18
SEC61A1	-0.76	1.06E-27	-0.83	1.13E-33
MYO1C	0.81	1.07E-27	0.83	7.02E-20
ADD1	0.59	1.15E-27	0.54	3.99E-23

FRMD4B	1.02	1.15E-27	1.02	1.45E-22
WFDC3	-4.23	1.20E-27	-2.90	4.02E-26
STIP1	-0.96	1.30E-27	-0.94	5.73E-35
SEC14L1	0.97	1.33E-27	0.74	8.40E-09
ARSH	-4.77	1.40E-27	-4.40	2.34E-31
LPGAT1	-1.13	1.49E-27	-1.16	4.05E-29
H2AFX	-1.41	1.61E-27	-1.22	8.72E-24
CYP1A2	4.12	1.72E-27	5.66	1.86E-48
CETP	1.66	1.79E-27	1.55	2.66E-11
FBXL19	-1.32	1.90E-27	-1.17	7.26E-26
NUP155	-1.55	2.01E-27	-1.48	2.36E-35
HMBS	-1.28	2.23E-27	-1.10	8.90E-31
CFL2	1.25	2.44E-27	1.29	1.12E-25
FBLN5	1.67	2.47E-27	1.93	4.07E-36
AP1S2	1.19	2.56E-27	0.95	4.70E-13
LIPA	1.29	2.69E-27	0.74	1.01E-06
SLC25A13	-1.17	2.82E-27	-1.19	2.41E-43
H1FO	-1.33	2.89E-27	-1.05	1.30E-35
EIF4E3	1.03	3.22E-27	0.93	1.88E-19
SHROOM4	1.56	3.23E-27	1.84	3.74E-40
PMS2	-0.90	3.25E-27	-0.75	1.55E-18
IKBKE	-1.21	3.35E-27	-1.26	9.55E-36
ZNF365	1.81	3.41E-27	1.98	1.48E-25
GPI	-1.24	3.77E-27	-1.24	3.97E-44
EFEMP1	1.51	4.12E-27	1.80	4.71E-26
PSMD11	-1.01	4.22E-27	-1.04	3.18E-37
DCN	1.47	4.54E-27	1.16	1.72E-12
MOGS	-0.76	4.54E-27	-0.61	1.81E-19
TNFRSF18	-2.81	4.56E-27	-2.50	1.42E-25
NMU	-6.00	4.67E-27	-5.62	7.40E-26
FANCG	-1.30	4.69E-27	-1.19	2.16E-29
SOX12	-1.47	4.79E-27	-1.11	3.49E-15
FUT8	-1.53	4.89E-27	-1.44	4.79E-38
NDRG2	1.50	4.92E-27	1.73	6.50E-33
GTF2IRD1	-1.09	5.37E-27	-1.00	7.12E-23
RPL36A	-1.67	5.37E-27	-1.33	2.09E-13
UTP6	-0.77	5.97E-27	-0.73	7.35E-28
BCS1L	-0.90	6.08E-27	-0.70	3.69E-21
ETS1	1.14	6.14E-27	0.84	1.60E-12
CCL24	2.86	6.56E-27	2.33	4.01E-12
KMO	1.49	7.63E-27	1.37	5.73E-15
SPTAN1	0.77	9.18E-27	0.61	3.56E-12
HOXA5	1.55	9.20E-27	1.52	1.91E-22

KIAA1524	-2.29	1.11E-26	-2.01	1.78E-24
TCF3	-1.10	1.12E-26	-1.01	9.01E-29
CHEK2	-1.72	1.17E-26	-1.26	1.23E-20
FOXP3	-2.12	1.26E-26	-2.38	2.37E-42
CPSF6	-0.71	1.35E-26	-0.66	1.61E-24
ATAD3B	-1.64	1.40E-26	-1.16	9.86E-19
MSH5	-1.82	1.41E-26	-1.09	1.67E-12
LEPR	1.82	1.50E-26	1.97	2.96E-48
NAA25	-0.97	1.50E-26	-0.79	3.41E-18
COPA	-0.77	1.52E-26	-0.86	4.54E-26
AIMP2	-1.15	1.54E-26	-1.07	6.43E-26
FABP5	1.94	1.54E-26	2.02	5.98E-27
TCF4	1.21	1.58E-26	0.87	2.06E-11
ABCG1	1.33	1.64E-26	1.32	3.95E-29
EPHB2	-2.42	1.64E-26	-2.38	1.46E-39
DDOST	-0.86	1.73E-26	-0.87	7.82E-39
LIFR	1.52	1.77E-26	1.88	7.72E-29
KLF10	0.94	1.82E-26	0.88	1.04E-13
STX2	0.90	2.03E-26	0.91	1.44E-17
CORO1C	0.89	2.04E-26	0.75	1.81E-16
PRMT3	-1.00	2.07E-26	-0.97	1.97E-28
MMP1	-5.24	2.52E-26	-5.40	6.05E-33
FUBP1	-0.79	2.60E-26	-0.85	1.19E-27
FBXO41	-1.83	2.73E-26	-1.36	2.19E-15
VIM	1.18	3.14E-26	0.95	1.94E-15
XPO1	-0.78	3.48E-26	-0.75	1.54E-26
CKS1B	-1.85	3.57E-26	-1.65	1.66E-27
DDX41	-0.73	4.05E-26	-0.71	5.00E-24
CALR	-0.80	4.53E-26	-0.81	3.85E-29
PRG4	2.60	4.73E-26	3.29	2.38E-21
SLC37A4	-0.93	4.79E-26	-0.76	1.06E-19
TIMP1	-1.61	4.83E-26	-1.76	8.15E-40
FCN1	1.85	4.88E-26	1.59	6.26E-17
URB1	-1.19	5.60E-26	-1.08	1.44E-22
GUCY1A2	1.53	5.75E-26	1.35	1.49E-16
SLC2A9	1.25	6.27E-26	0.88	3.72E-10
NLE1	-1.08	6.75E-26	-1.01	8.58E-23
COL3A1	-2.45	6.90E-26	-2.96	3.93E-31
CKAP4	-1.16	7.56E-26	-1.15	1.43E-32
IDH2	-1.23	8.03E-26	-1.14	1.34E-30
TRIM46	-2.31	8.45E-26	-1.61	1.27E-16
TTN	1.40	8.76E-26	1.61	5.75E-27
GPR17	2.18	8.93E-26	2.91	2.82E-45

YWHAZ	-0.98	9.25E-26	-0.91	1.33E-25
ATG16L1	-0.74	9.32E-26	-0.59	5.37E-19
RRP1	-0.95	9.56E-26	-0.77	8.84E-21
STOM	1.10	9.56E-26	1.19	9.58E-32
PCOLCE2	2.28	1.04E-25	2.92	1.08E-33
LIG3	-0.98	1.05E-25	-0.96	5.66E-31
HVCN1	1.10	1.24E-25	0.94	4.38E-16
TSTA3	-1.46	1.26E-25	-1.20	2.18E-19
ABCB6	-2.00	1.35E-25	-1.53	4.83E-21
ADCY8	4.35	1.36E-25	5.99	9.10E-42
PIK3R5	1.30	1.58E-25	1.23	5.56E-18
HMGN1	-0.86	1.59E-25	-0.75	3.66E-26
B3GNT6	-5.96	1.67E-25	-4.86	3.52E-21
MMP13	-6.45	1.68E-25	-6.40	9.02E-27
KPNB1	-0.85	1.75E-25	-0.93	1.05E-36
MYLK	1.23	1.78E-25	0.88	2.65E-10
LILRA6	1.51	1.79E-25	1.42	3.84E-17
MEN1	-0.89	1.84E-25	-0.73	6.76E-22
GSS	-0.89	1.89E-25	-0.83	3.32E-24
NEDD9	1.46	1.91E-25	1.62	1.68E-25
LPAR2	-1.13	1.98E-25	-0.92	7.65E-24
PDLIM1	0.88	2.04E-25	0.98	7.61E-22
RUNX2	-1.75	2.07E-25	-1.74	2.53E-34
EGR1	1.72	2.12E-25	1.40	3.42E-11
POLR1C	-1.05	2.20E-25	-0.75	1.93E-15
PRDX4	-1.43	2.31E-25	-1.60	2.48E-48
NOC2L	-0.93	2.36E-25	-0.89	2.46E-26
ATP6V1C2	-3.08	2.42E-25	-1.37	1.66E-19
CRBN	0.82	2.68E-25	0.78	3.30E-17
IQSEC1	0.79	2.69E-25	0.70	8.85E-20
BOP1	-2.08	2.75E-25	-2.05	1.61E-20
HSP90B1	-1.09	3.23E-25	-0.93	5.09E-36
HSD17B6	2.28	3.29E-25	3.23	3.31E-39
SERPINH1	-1.19	3.37E-25	-1.22	1.06E-28
SNRPA	-0.78	3.39E-25	-0.64	1.81E-19
PSMD12	-0.86	3.83E-25	-0.94	3.10E-33
HCK	1.41	3.91E-25	1.25	6.82E-13
RBM34	-0.79	4.00E-25	-0.69	1.58E-19
HSF2BP	-2.30	4.18E-25	-2.03	1.19E-17
HYAL1	1.98	4.34E-25	2.95	4.73E-33
NAT10	-0.80	4.47E-25	-0.78	1.37E-33
TXNDC5	-0.94	4.58E-25	-1.08	5.11E-36
NR4A3	2.11	5.40E-25	2.07	8.81E-14

NCKAP1L	1.33	5.68E-25	1.17	2.73E-13
SYVN1	-0.87	5.90E-25	-0.72	7.91E-21
PROC	-4.34	7.08E-25	-2.20	5.20E-17
CYBB	1.52	7.87E-25	1.17	3.32E-10
EGLN3	-3.15	7.87E-25	-2.49	1.92E-26
COL5A2	-2.15	8.64E-25	-2.41	1.01E-29
LY86	1.47	9.15E-25	1.37	1.96E-18
GORAB	-0.96	9.21E-25	-0.87	7.14E-16
GMDS	-1.46	9.70E-25	-1.40	1.15E-23
LST1	1.53	9.70E-25	1.59	2.48E-22
PRAME	-7.53	9.70E-25	-5.85	5.63E-21
AP1S1	-1.24	1.01E-24	-1.19	2.18E-33
SLA	1.22	1.05E-24	1.03	6.53E-14
SDCBP	0.78	1.07E-24	0.59	1.53E-15
NQO1	-3.09	1.10E-24	-2.28	1.29E-16
KDELR1	-0.74	1.21E-24	-0.67	2.56E-22
TFG	-0.91	1.24E-24	-0.84	2.12E-29
TLN1	0.76	1.24E-24	0.56	1.09E-10
CAMK2A	1.66	1.44E-24	1.95	7.05E-30
YARS	-0.75	1.50E-24	-0.65	6.14E-20
COLEC12	1.67	1.67E-24	1.68	3.87E-22
SEC24D	-0.93	1.68E-24	-1.08	2.22E-39
MPP6	-2.01	1.84E-24	-1.87	2.61E-32
MRTO4	-1.05	1.87E-24	-0.98	5.75E-29
HNRNPL	-0.54	1.88E-24	-0.52	5.05E-22
SCGB1A1	3.56	1.89E-24	5.58	4.82E-22
CD2AP	-1.03	1.95E-24	-0.81	6.40E-20
WISP1	-2.15	1.98E-24	-2.52	4.94E-37
ALG6	-0.88	2.00E-24	-0.75	1.04E-19
GTPBP2	-0.78	2.24E-24	-0.53	5.36E-12
CBX2	-2.72	2.28E-24	-2.21	2.63E-18
KCNE1	2.33	2.39E-24	2.67	1.84E-23
ENTPD7	-1.19	2.40E-24	-1.41	1.90E-37
PTGDS	1.73	2.48E-24	1.81	2.33E-22
SMUG1	-1.18	2.59E-24	-0.89	2.51E-23
SEMA6D	1.97	2.71E-24	2.57	3.50E-45
LAPTM5	1.19	2.78E-24	0.97	6.09E-12
SLC2A5	-2.61	3.01E-24	-3.09	1.06E-31
MYH11	1.81	3.05E-24	1.91	1.93E-17
KCNAB2	1.14	3.52E-24	1.19	4.60E-19
RNASEH2A	-1.40	3.93E-24	-1.32	3.76E-29
PPARG	1.66	4.01E-24	1.96	1.68E-21
MAGED1	-1.06	4.14E-24	-1.12	1.72E-33

6-Mar	-1.09	4.16E-24	-0.82	1.15E-22
TNFRSF25	-2.20	4.22E-24	-1.39	4.87E-12
RPGR	1.02	4.34E-24	0.99	1.30E-22
MIF	-1.60	4.43E-24	-1.42	3.10E-33
IL31RA	-4.66	4.50E-24	-3.86	2.71E-24
OSTM1	0.79	4.99E-24	0.59	1.95E-13
PPP3CC	0.69	5.04E-24	0.71	2.43E-17
BUB3	-0.80	5.42E-24	-0.87	7.69E-29
DENR	-0.77	5.80E-24	-0.73	1.73E-20
GMNN	-1.49	5.80E-24	-1.34	1.21E-24
CYR61	1.50	5.82E-24	1.08	3.65E-09
SRPX2	-2.47	6.18E-24	-2.35	3.20E-28
KLHL17	-1.58	6.57E-24	-1.02	7.13E-14
NUP62	-0.69	6.62E-24	-0.73	1.37E-26
MS4A2	1.94	6.87E-24	2.27	1.48E-27
PAPSS2	1.32	7.15E-24	1.46	3.41E-25
COCH	-3.99	7.40E-24	-3.44	5.72E-30
PSMD4	-0.97	7.48E-24	-0.91	1.58E-26
CA9	-6.02	7.52E-24	-6.78	9.10E-32
TLL1	1.71	7.60E-24	1.70	8.10E-23
SIRT7	-1.02	7.95E-24	-0.78	3.68E-16
CDH3	-2.86	8.40E-24	-3.00	2.46E-28
CHRNB1	-1.42	8.58E-24	-1.21	1.26E-26
PIGM	-0.92	8.60E-24	-0.94	3.82E-27
MESP1	-2.64	8.86E-24	-1.81	1.00E-16
CPOX	-1.03	1.00E-23	-0.94	6.20E-21
HSD17B4	0.85	1.03E-23	0.81	3.60E-17
TJP1	0.79	1.06E-23	0.72	1.88E-16
BEST1	1.11	1.19E-23	1.15	1.02E-21
SRRT	-0.78	1.22E-23	-0.64	4.85E-22
CEACAM5	-4.94	1.26E-23	-3.39	7.46E-12
LDB3	1.71	1.34E-23	1.91	2.31E-18
DAP	-1.11	1.36E-23	-1.07	3.33E-26
CUL7	-1.00	1.46E-23	-0.72	1.68E-20
C2orf40	2.69	1.55E-23	3.55	5.07E-42
ICA1	-1.31	1.58E-23	-1.00	2.56E-25
SH3BP5	1.21	1.63E-23	1.29	4.78E-28
STX7	0.66	1.67E-23	0.54	3.53E-12
TMEM109	0.63	1.67E-23	0.49	2.61E-17
NFAM1	1.34	1.80E-23	1.29	1.28E-14
GRIN1	-3.55	1.81E-23	-2.34	4.22E-16
RARS	-0.73	2.16E-23	-0.83	1.84E-31
DSN1	-1.13	2.17E-23	-0.99	1.57E-21

CTTN	-0.96	2.22E-23	-0.77	8.76E-20
ADSS	-0.71	2.26E-23	-0.71	5.46E-20
PHKG2	-0.95	2.30E-23	-0.59	2.02E-13
S100P	-5.12	2.30E-23	-3.13	3.78E-09
NME2	-1.31	2.42E-23	-1.19	1.24E-34
CRY2	1.02	2.60E-23	1.19	7.02E-26
DUSP13	-6.74	2.88E-23	-4.57	2.97E-12
SMPDL3B	-2.04	2.93E-23	-1.67	1.48E-22
TRIM11	-0.88	2.97E-23	-0.64	1.56E-16
XKRX	-2.96	2.97E-23	-2.09	1.46E-13
CCDC86	-1.02	3.01E-23	-1.02	1.09E-31
IL23A	-2.57	3.06E-23	-2.25	1.37E-16
LIMK1	-1.20	3.23E-23	-1.35	2.01E-33
DUSP1	1.54	3.26E-23	1.43	1.20E-14
NUPL2	-0.88	3.30E-23	-0.75	1.19E-19
GTPBP3	-0.99	3.38E-23	-0.72	6.51E-13
RACGAP1	-1.61	3.67E-23	-1.45	1.35E-20
NFATC1	1.05	4.25E-23	0.79	2.49E-12
IFI30	1.09	4.34E-23	1.06	4.51E-15
STAC3	1.17	4.38E-23	1.27	8.47E-18
HSP90AB1	-0.86	4.41E-23	-0.73	2.70E-23
LIG1	-1.01	4.45E-23	-0.84	2.94E-18
SPINK1	-6.70	4.60E-23	-4.77	2.51E-17
TSPAN6	-1.29	4.83E-23	-1.33	1.47E-31
CLTC	-0.69	4.90E-23	-0.71	5.42E-29
GPR65	1.28	4.93E-23	1.19	1.84E-14
DNAJC2	-0.94	5.29E-23	-0.93	8.62E-29
PROK2	2.32	5.31E-23	1.84	2.40E-09
TNFSF11	-3.99	5.41E-23	-3.37	1.63E-24
CLEC4E	1.79	5.43E-23	1.74	1.79E-15
KL	2.13	5.58E-23	3.12	3.00E-77
APLNR	1.47	5.60E-23	0.94	1.22E-05
IRF7	-1.40	5.96E-23	-1.03	2.81E-22
PDZD11	-1.02	5.96E-23	-1.02	3.45E-38
DNAJC10	-1.03	6.37E-23	-1.05	1.79E-36
DTX2	-1.38	6.43E-23	-1.27	3.60E-22
HAVCR1	-6.33	6.52E-23	-4.54	2.10E-14
SBDS	0.66	6.63E-23	0.60	7.75E-13
MMP12	-4.06	6.71E-23	-4.80	3.32E-29
PAK6	-1.25	6.91E-23	-1.10	9.47E-19
RASGEF1A	-2.35	6.94E-23	-1.42	2.06E-10
GAD1	-4.26	7.71E-23	-3.54	1.74E-26
RORA	1.16	7.80E-23	1.25	2.50E-29

CNTRF	2.69	7.92E-23	3.33	9.06E-27
NONO	-0.74	8.62E-23	-0.79	3.71E-35
USP21	-0.79	8.73E-23	-0.68	8.22E-12
PRKG1	1.53	9.29E-23	1.31	2.12E-15
TUBA1C	-1.24	9.46E-23	-1.22	2.31E-27
FANCB	-1.91	9.82E-23	-1.84	1.61E-21
CBX1	-0.91	1.14E-22	-0.94	2.01E-22
CCT6A	-1.13	1.24E-22	-1.16	8.26E-21
LSM12	-0.77	1.29E-22	-0.83	1.18E-39
MTHFD2	-1.65	1.35E-22	-1.67	2.05E-37
SIRPB2	1.36	1.38E-22	1.02	3.43E-10
LYPD3	-3.58	1.44E-22	-2.77	5.33E-29
MB	-3.26	1.61E-22	-3.42	1.53E-19
XYLT2	-0.83	1.65E-22	-0.73	3.96E-18
EIF6	-0.90	1.77E-22	-0.92	1.05E-26
PGAM5	-1.15	1.77E-22	-0.98	1.95E-22
KCNJ5	1.90	1.83E-22	2.07	5.72E-21
COL5A1	-2.03	1.92E-22	-2.35	2.47E-26
FANCL	-1.01	2.16E-22	-0.90	3.11E-14
TPSB2	1.85	2.21E-22	1.98	4.32E-21
SRD5A3	-1.73	2.24E-22	-1.55	1.05E-22
PIK3IP1	0.97	2.26E-22	0.95	9.94E-17
ACOT11	-1.58	2.32E-22	-1.68	4.43E-33
UBE2S	-1.83	2.35E-22	-1.62	1.85E-20
DOPEY2	-0.98	2.90E-22	-0.94	1.07E-17
DAB2IP	0.91	3.01E-22	1.02	8.14E-26
DLL3	-7.18	3.01E-22	-5.56	6.48E-22
NTRK3	1.83	3.14E-22	2.21	6.94E-26
B3GNT2	0.79	3.40E-22	0.67	7.50E-14
CCND2	1.26	3.58E-22	1.31	5.57E-25
IL11RA	1.02	3.58E-22	1.53	1.34E-38
TOM1L1	-1.03	3.67E-22	-0.90	3.57E-18
FBXL3	0.69	3.77E-22	0.57	1.14E-13
CD302	1.22	3.80E-22	1.55	1.48E-23
SFTPA1	2.66	3.84E-22	4.48	9.26E-25
BST1	1.29	4.43E-22	1.21	4.52E-23
FGFR1OP	-0.92	4.48E-22	-0.93	5.48E-24
C1orf35	-1.00	5.13E-22	-0.72	4.78E-13
PTGES2	-0.91	6.21E-22	-0.80	8.57E-25
ATF3	1.67	6.72E-22	1.63	2.09E-15
TARS	-1.12	6.80E-22	-0.97	8.91E-24
PRKCQ	1.52	7.17E-22	1.81	2.03E-22
SOCS3	1.35	7.24E-22	0.86	1.94E-05

SLC15A2	1.58	7.31E-22	2.05	2.89E-22
COIL	-0.67	7.49E-22	-0.64	9.95E-21
COL7A1	-3.75	7.51E-22	-3.01	1.47E-21
ARNTL2	-2.70	7.80E-22	-2.65	3.51E-25
ART4	2.05	7.87E-22	2.50	2.54E-35
LAMB2	0.89	8.14E-22	1.00	1.39E-23
KPNA7	-2.77	8.15E-22	-2.12	2.62E-09
DDX52	-0.84	8.16E-22	-0.80	1.28E-28
STAMBP	-0.70	8.23E-22	-0.63	1.06E-21
GRN	0.80	8.25E-22	0.71	1.43E-13
MAP6	1.51	8.48E-22	1.51	3.63E-13
BIK	-2.13	8.51E-22	-1.59	4.67E-14
CLDN4	-1.29	8.58E-22	-1.20	5.73E-18
DEFA1B	3.66	9.20E-22	3.79	7.28E-20
MAP3K8	1.10	9.50E-22	1.27	4.03E-22
POLR3E	-0.77	9.88E-22	-0.70	4.14E-30
SNCA	1.48	1.02E-21	1.58	1.67E-28
NDUFS2	-0.69	1.09E-21	-0.64	2.61E-14
TBC1D4	0.92	1.20E-21	1.00	4.24E-19
SLC7A11	-3.16	1.23E-21	-2.40	2.54E-17
SLC12A8	-1.38	1.30E-21	-1.51	6.08E-28
ACTL6A	-1.11	1.34E-21	-1.09	4.26E-35
NKRF	-0.71	1.35E-21	-0.66	5.52E-22
RNF182	2.14	1.37E-21	2.78	1.37E-31
EFTUD2	-0.64	1.40E-21	-0.71	3.69E-28
MFSD2A	1.53	1.56E-21	1.92	7.31E-21
WDR77	-0.79	1.66E-21	-0.74	1.64E-21
DSP	-2.28	1.81E-21	-2.12	2.87E-22
MARS	-0.93	1.81E-21	-0.87	1.44E-33
PLOD1	-0.91	1.85E-21	-1.02	9.56E-29
DNMT3B	-2.28	1.90E-21	-1.62	4.28E-15
NOL6	-0.83	1.94E-21	-0.74	1.27E-19
S100A12	2.47	1.95E-21	2.03	1.09E-14
ATP2A2	-0.84	1.98E-21	-0.84	1.77E-19
TRIM45	-1.45	1.99E-21	-0.94	1.89E-09
TPSAB1	1.69	2.42E-21	1.95	1.37E-22
PSMB4	-0.99	2.45E-21	-0.92	1.12E-25
RAPGEF1	0.70	2.61E-21	0.58	1.67E-11
CDH1	-1.14	2.71E-21	-1.19	6.96E-23
PTX3	2.08	2.72E-21	1.09	5.52E-08
CACNB3	-1.35	2.81E-21	-0.82	2.01E-09
WDR74	-0.83	2.90E-21	-0.64	6.05E-17
SEC61A2	-1.22	2.91E-21	-0.89	5.29E-16

IL17D	1.61	2.97E-21	2.01	2.06E-29
KIF18A	-1.63	2.97E-21	-1.44	1.39E-19
PCNA	-1.22	3.07E-21	-1.13	4.39E-23
PLAU	-2.52	3.18E-21	-2.56	2.05E-25
INCENP	-1.37	3.23E-21	-1.37	2.94E-29
ABCA6	1.53	3.31E-21	1.61	2.94E-19
TRUB2	-0.97	3.44E-21	-0.86	1.61E-22
NFIX	1.34	3.48E-21	1.54	1.02E-26
SLBP	-0.87	3.50E-21	-0.74	4.09E-21
TRAF2	-1.11	3.65E-21	-0.80	2.51E-17
LPL	2.03	3.71E-21	3.17	3.55E-49
FGFR2	1.64	3.73E-21	2.16	3.53E-28
SIGLEC16	1.68	3.73E-21	2.11	1.56E-23
SRPX	1.72	3.75E-21	1.81	8.12E-27
MYO1F	1.11	3.76E-21	1.09	1.57E-16
RAB14	0.52	3.92E-21	0.48	5.20E-14
LIMD1	1.01	3.96E-21	1.40	3.06E-42
INHA	-6.80	4.15E-21	-2.23	2.29E-08
NOP16	-1.15	4.19E-21	-1.06	1.48E-17
SNRPC	-0.95	4.31E-21	-0.81	1.11E-23
PSMC4	-0.91	4.49E-21	-0.89	1.56E-28
DUSP9	-4.88	4.60E-21	-4.10	6.52E-20
SLC39A4	-1.64	4.68E-21	-1.09	1.70E-15
MAOB	1.52	4.94E-21	1.53	3.09E-22
MSH2	-1.09	5.01E-21	-1.01	4.20E-20
RNF34	-0.66	5.25E-21	-0.61	7.83E-15
DDX27	-0.85	5.37E-21	-0.74	4.76E-26
FOS	1.62	5.48E-21	1.61	4.03E-13
MCM3	-1.03	5.73E-21	-0.86	2.95E-20
IGFBP3	-2.20	5.78E-21	-1.94	1.88E-14
PGLYRP4	-4.73	6.06E-21	-3.49	2.69E-10
PSMB2	-0.71	6.12E-21	-0.74	2.99E-28
FCER1G	1.19	6.21E-21	1.11	9.10E-13
MTMR4	-0.80	6.30E-21	-0.78	4.17E-25
PDIA3	-1.08	6.33E-21	-0.82	3.41E-16
KRT8	-1.42	6.39E-21	-1.20	5.73E-17
RAB19	-1.74	6.39E-21	-1.88	4.66E-34
MDH2	-0.86	6.51E-21	-0.89	7.79E-26
MESP2	-3.34	6.72E-21	-2.56	3.51E-21
WBSCR22	-0.88	6.81E-21	-0.85	8.39E-22
SLC35A2	-1.12	7.03E-21	-1.01	4.90E-25
SMAD7	0.89	7.75E-21	1.01	2.51E-29
CXCL16	0.95	7.78E-21	0.89	1.82E-13

VIL1	-7.75	7.91E-21	-4.56	3.28E-13
SURF4	-0.63	7.97E-21	-0.64	7.84E-19
AGK	-0.67	9.60E-21	-0.57	3.05E-15
IGFL2	-4.16	9.74E-21	-4.79	9.14E-23
UACA	0.99	1.01E-20	0.93	8.67E-12
IFNGR1	0.94	1.03E-20	0.66	7.48E-12
HGS	-0.75	1.04E-20	-0.64	1.10E-17
MPHOSPH10	-0.63	1.04E-20	-0.55	4.17E-19
ENPP2	1.26	1.05E-20	0.75	1.32E-05
DBN1	-1.22	1.08E-20	-1.37	2.86E-20
KDM1A	-0.79	1.08E-20	-0.78	1.22E-24
NEGR1	1.67	1.09E-20	1.90	2.16E-25
ARTN	-3.09	1.11E-20	-1.81	3.07E-12
DSG2	-1.57	1.11E-20	-1.48	3.73E-22
IL20RB	-4.15	1.17E-20	-2.13	1.12E-09
ABCC10	-0.83	1.23E-20	-0.56	1.49E-13
IMP4	-0.83	1.23E-20	-0.73	1.02E-18
TAF4	-0.87	1.25E-20	-0.65	1.13E-15
MX2	-1.62	1.27E-20	-1.41	7.63E-23
DOCK8	1.12	1.33E-20	0.98	1.66E-14
POP1	-1.01	1.35E-20	-0.97	1.09E-14
IL4I1	-1.93	1.38E-20	-1.99	5.70E-24
SPTB	-3.23	1.38E-20	-1.84	1.10E-07
ZDHHC13	-0.98	1.45E-20	-0.96	3.62E-22
GPX2	-6.05	1.49E-20	-2.54	1.91E-04
TBL2	-0.79	1.53E-20	-0.87	4.46E-26
BRCA1	-1.60	1.54E-20	-1.38	9.60E-19
GBP7	2.27	1.61E-20	2.35	6.68E-15
NPEPPS	-0.74	1.61E-20	-0.76	3.45E-25
CALU	-1.06	1.69E-20	-1.26	1.05E-32
PAEP	-8.11	1.70E-20	-5.66	2.07E-19
PLOD2	-2.10	1.74E-20	-1.61	5.74E-13
BCL2A1	1.36	1.93E-20	1.18	3.91E-11
CAPN5	-2.07	2.02E-20	-1.14	2.04E-08
FAT4	1.36	2.11E-20	1.37	3.53E-22
SFTPA2	2.55	2.16E-20	4.33	1.56E-22
CD37	1.19	2.27E-20	1.12	9.07E-13
FASTK	-0.95	2.27E-20	-0.70	1.10E-18
SIGLEC14	1.49	2.27E-20	1.19	8.93E-14
WDR3	-0.85	2.30E-20	-0.85	2.53E-21
CKAP5	-0.91	2.42E-20	-0.98	7.51E-28
CLDN3	-2.11	2.58E-20	-1.53	5.38E-10
MYL6B	-1.18	2.67E-20	-1.03	1.42E-22

RASGRF1	2.27	2.68E-20	3.29	3.93E-26
ADCYAP1R1	2.49	2.86E-20	1.98	6.67E-11
LRRC25	1.13	2.86E-20	0.95	6.27E-11
FOXA3	-3.21	2.88E-20	-1.95	3.28E-10
TRAF5	-1.31	3.18E-20	-1.06	4.19E-19
PRKDC	-1.17	3.45E-20	-1.23	7.76E-26
IL1RAPL2	-5.66	3.52E-20	-4.52	3.17E-21
CISD2	-0.84	3.65E-20	-0.87	1.41E-24
RDX	0.89	3.65E-20	0.79	2.05E-17
LMNB2	-1.13	3.83E-20	-1.13	4.26E-19
GTPBP4	-0.93	3.85E-20	-0.85	1.16E-20
ABCA4	-4.14	4.54E-20	-1.65	6.56E-05
FOXO4	0.79	4.79E-20	0.84	1.58E-19
GNG11	1.56	4.81E-20	1.90	2.31E-29
FADD	-0.81	4.96E-20	-0.85	5.59E-23
SHC1	-0.93	5.02E-20	-0.93	7.37E-23
PRPF3	-0.84	5.05E-20	-0.69	1.12E-12
RHBDD3	-1.06	5.21E-20	-0.70	1.19E-10
MSH6	-0.92	5.35E-20	-0.91	9.65E-22
NRK	-4.07	5.36E-20	-2.63	4.42E-15
DDR1	-0.98	5.43E-20	-0.77	2.21E-13
KLRF1	1.78	5.78E-20	1.88	1.60E-10
SCARA5	2.43	6.29E-20	3.54	6.43E-24
HNRNPC	-0.68	6.45E-20	-0.68	1.17E-24
ARRB1	1.03	6.66E-20	1.34	2.84E-37
NCF1	1.35	7.04E-20	1.25	1.72E-12
CLPTMIL	-1.11	7.18E-20	-0.91	2.60E-17
FKBP3	-1.09	7.37E-20	-0.88	6.36E-25
NUDT1	-1.14	7.59E-20	-0.97	3.64E-18
CACYBP	-0.95	7.70E-20	-0.91	3.36E-23
SGMS2	1.15	7.87E-20	0.96	5.39E-09
LONRF1	0.82	7.89E-20	0.84	9.18E-15
CXCL3	1.93	7.98E-20	2.09	1.15E-14
FBLN1	1.26	8.29E-20	1.03	1.34E-10
AGR2	-2.48	8.86E-20	-1.69	5.30E-08
SPINT2	-1.17	8.93E-20	-1.04	6.81E-26
CASP3	-0.78	8.96E-20	-0.83	2.51E-26
SRF	0.60	8.99E-20	0.53	8.10E-12
PRSS3	-5.77	9.08E-20	-3.94	3.35E-15
TRIM31	-4.61	9.72E-20	-2.18	2.07E-08
SIX1	-2.54	9.78E-20	-2.53	3.66E-16
GNL2	-0.68	1.01E-19	-0.65	1.51E-17
SFTPD	2.23	1.03E-19	3.81	7.69E-25

INSL3	-2.03	1.07E-19	-2.08	6.53E-20
SAC3D1	-1.14	1.07E-19	-1.03	9.31E-23
GNGT1	-5.57	1.10E-19	-4.35	4.47E-12
MAGED4	-2.52	1.25E-19	-1.99	8.60E-18
TLK1	-0.63	1.31E-19	-0.64	9.23E-27
HHIP	2.71	1.38E-19	3.96	2.40E-31
CXCL14	-4.48	1.39E-19	-2.46	1.13E-12
SGCB	0.90	1.43E-19	0.68	6.52E-12
TSPAN12	1.13	1.46E-19	1.52	2.99E-26
FERMT3	1.09	1.47E-19	0.92	1.52E-11
ARG1	2.82	1.50E-19	2.03	2.51E-08
FCGR3A	1.30	1.50E-19	1.28	4.39E-11
NFXL1	-0.94	1.50E-19	-0.86	7.91E-20
ZBTB16	2.28	1.52E-19	3.11	8.12E-36
HBD	2.48	1.54E-19	1.78	3.56E-07
GNB3	-2.02	1.65E-19	-1.57	3.75E-13
YTHDF1	-0.69	1.66E-19	-0.57	1.05E-22
SCAMP3	-0.75	1.68E-19	-0.73	7.33E-20
IRF3	-0.75	1.69E-19	-0.42	2.03E-11
HPRT1	-1.16	1.70E-19	-1.13	2.98E-39
RTEL1	-1.16	1.70E-19	-0.82	5.69E-15
XRCC3	-1.15	1.71E-19	-0.86	1.02E-12
DUOXA1	1.91	1.74E-19	2.92	5.35E-27
SCG5	-3.06	1.74E-19	-2.67	1.07E-18
GJB6	-5.06	1.80E-19	-3.74	1.28E-12
CD53	1.09	1.83E-19	0.96	1.76E-10
FRK	-1.20	1.83E-19	-1.36	1.37E-24
SIGLEC7	1.28	1.95E-19	0.96	1.70E-08
PRCD	1.12	2.02E-19	1.44	6.50E-22
POLE	-1.13	2.15E-19	-0.82	4.92E-10
MUC20	-2.35	2.18E-19	-1.49	1.46E-10
RGS14	-1.13	2.20E-19	-0.95	3.42E-18
MMP3	-4.68	2.30E-19	-4.70	7.55E-20
HIST2H2AA3	-2.11	2.41E-19	-1.54	2.16E-14
COL17A1	-4.24	2.43E-19	-3.68	6.03E-16
RAMP1	-2.22	2.47E-19	-1.78	6.84E-25
LAIR1	1.16	2.78E-19	1.05	5.30E-10
SLCO1A2	3.60	2.86E-19	5.92	7.62E-50
FKBP4	-1.26	2.93E-19	-1.01	8.61E-23
JAM3	1.20	2.93E-19	1.04	1.50E-11
SMARCA2	0.85	3.07E-19	0.79	4.09E-21
UGGT1	-0.78	3.27E-19	-0.87	6.08E-34
CARD8	0.65	3.36E-19	0.71	6.60E-20

ZBTB12	-1.39	3.37E-19	-1.16	3.63E-15
PCGF3	-0.77	3.49E-19	-0.52	1.42E-09
NFATC4	-1.33	3.52E-19	-0.74	2.18E-10
CDKN2A	-3.47	3.54E-19	-2.62	1.93E-17
JUNB	1.07	3.81E-19	0.89	2.08E-09
CCDC65	2.15	4.07E-19	2.45	1.70E-14
EHMT2	-0.91	4.40E-19	-0.71	3.05E-18
PACRG	2.33	4.69E-19	3.06	2.23E-17
DUSP12	-0.66	4.70E-19	-0.60	1.62E-10
GPC3	1.86	4.80E-19	2.61	1.91E-29
LCP1	1.11	4.88E-19	0.96	1.12E-11
MEST	-1.38	5.13E-19	-1.42	2.52E-23
KRT18	-1.32	5.39E-19	-1.02	4.65E-15
SEC61G	-1.06	5.39E-19	-1.09	7.78E-18
SYT2	-3.37	5.44E-19	-1.17	1.43E-05
MYL3	1.78	5.55E-19	1.96	1.75E-15
STAT5B	0.51	5.57E-19	0.44	7.23E-12
MATK	1.32	5.61E-19	1.27	5.97E-17
AATF	-0.67	5.68E-19	-0.62	3.42E-18
TSPAN14	0.53	5.77E-19	0.45	3.33E-13
CLIC4	0.81	5.82E-19	0.46	4.71E-06
PLA2G5	1.26	6.48E-19	1.10	3.27E-13
TWF1	-1.00	6.48E-19	-0.98	8.01E-21
SLC25A15	-1.04	6.78E-19	-0.90	2.02E-19
TSLP	1.73	6.78E-19	2.09	4.90E-25
CARD11	-1.94	6.97E-19	-1.83	1.20E-21
RAB34	-0.97	7.43E-19	-0.75	1.43E-18
TNNI2	1.83	7.52E-19	2.56	3.46E-29
SPINT1	-1.01	7.56E-19	-0.76	8.00E-12
PRSS50	-3.69	7.90E-19	-2.38	6.68E-09
ZNF438	0.58	8.02E-19	0.52	6.65E-16
SH2D1B	1.75	8.35E-19	1.96	9.24E-15
SEC24A	-0.73	8.38E-19	-0.88	3.84E-29
RAE1	-0.87	8.49E-19	-0.83	1.29E-21
OPLAH	-1.54	8.95E-19	-0.97	2.38E-09
TRPV1	-1.60	9.40E-19	-0.79	1.51E-07
GALE	-1.18	9.46E-19	-0.84	5.09E-12
MOV10	-0.79	9.74E-19	-0.73	9.42E-18
CXCL12	1.27	9.76E-19	1.02	7.30E-10
LYL1	0.98	9.76E-19	0.87	3.96E-15
UNG	-0.94	9.82E-19	-0.89	1.33E-18
RAB15	-1.63	9.83E-19	-1.07	5.36E-12
TFF1	-9.12	1.02E-18	-4.72	9.55E-12

PIAS1	0.57	1.10E-18	0.52	9.47E-19
CCL2	1.44	1.16E-18	0.51	2.52E-02
HOXB9	-7.52	1.19E-18	-5.11	3.51E-23
TRMT2A	-0.89	1.39E-18	-0.55	2.07E-10
IL22RA2	-3.63	1.49E-18	-4.51	7.91E-27
E2F1	-1.56	1.53E-18	-1.13	1.48E-12
GRHL2	-1.02	1.53E-18	-0.81	2.27E-19
MUC13	-5.96	1.53E-18	-3.90	1.79E-10
ATP6V1B2	0.61	1.57E-18	0.38	5.88E-06
ERCC3	-0.47	1.57E-18	-0.41	5.04E-11
PAAF1	-0.84	1.62E-18	-0.70	1.14E-18
TNFAIP3	1.12	1.62E-18	0.61	5.50E-05
CHMP4B	-0.64	1.63E-18	-0.50	4.35E-15
ITGAL	1.18	1.67E-18	1.40	1.24E-16
APEX1	-0.85	1.68E-18	-0.80	1.38E-24
CLEC6A	2.06	1.73E-18	1.83	1.17E-07
ABCB1	1.55	1.80E-18	1.59	4.00E-12
EPYC	-6.06	1.91E-18	-4.45	3.65E-14
CDH17	-5.72	1.99E-18	-1.99	3.29E-07
TUBB2B	-4.27	2.08E-18	-2.43	8.66E-10
CHMP4C	-1.20	2.10E-18	-0.98	3.57E-21
POU4F1	-5.63	2.16E-18	-3.80	8.45E-11
PSMD3	-0.77	2.25E-18	-0.71	1.06E-24
PSMD14	-0.92	2.27E-18	-0.93	1.16E-25
UBE2Q1	-0.63	2.30E-18	-0.56	1.11E-15
ZIC2	-5.54	2.32E-18	-4.20	3.88E-15
ZP3	-1.70	2.33E-18	-1.55	2.75E-20
ACR	1.66	2.34E-18	1.64	6.94E-12
TRIM2	-1.52	2.38E-18	-1.08	3.07E-12
GABARAPL1	0.96	2.47E-18	1.09	1.39E-24
GJC2	1.31	2.47E-18	1.56	1.46E-20
C8B	2.95	2.53E-18	5.21	4.65E-34
ACAD8	-1.43	2.62E-18	-0.82	1.35E-11
CNKSR2	1.97	2.69E-18	2.28	1.47E-19
BAK1	-0.87	2.73E-18	-0.82	3.93E-21
LRRK2	1.97	2.73E-18	3.15	3.63E-30
APOBEC3B	-2.41	2.91E-18	-2.14	5.08E-25
SYNE1	1.17	2.94E-18	1.39	1.27E-21
IL11	-2.80	2.95E-18	-2.97	4.75E-23
ADAR	-0.65	3.04E-18	-0.74	4.34E-20
RPS6KB2	-0.77	3.10E-18	-0.68	6.61E-17
PACSIN1	-2.52	3.13E-18	-2.49	2.87E-23
SSRP1	-0.71	3.46E-18	-0.74	3.27E-28

GRIN2D	-2.87	3.63E-18	-1.64	4.18E-10
DNMT1	-0.96	3.73E-18	-0.94	5.36E-18
RFC2	-0.95	3.82E-18	-0.92	7.78E-22
HGD	-4.18	3.86E-18	-2.00	6.75E-06
TMEM216	-0.77	3.89E-18	-0.72	2.74E-20
STK10	0.80	4.23E-18	0.54	3.68E-08
SRGN	1.17	4.42E-18	0.96	1.32E-10
DHFR	-0.98	4.45E-18	-0.97	3.70E-20
FGB	-8.93	4.53E-18	-3.25	6.24E-05
ATP1B2	1.40	4.66E-18	1.66	5.85E-22
HMGA2	-5.64	4.92E-18	-3.70	1.37E-10
ARL6	0.84	5.03E-18	0.61	9.99E-06
NPR2	0.88	5.12E-18	0.96	1.20E-12
UCHL1	-3.71	5.41E-18	-2.18	1.26E-12
SDAD1	-0.58	5.52E-18	-0.65	5.15E-30
GPR35	-2.62	5.63E-18	-1.13	3.95E-06
VPS45	-0.68	5.64E-18	-0.66	3.80E-17
CDC7	-1.42	6.03E-18	-1.28	4.46E-18
RGS13	1.72	6.08E-18	1.98	9.65E-22
YY1	-0.62	6.33E-18	-0.56	5.23E-25
EXOSC4	-1.15	6.50E-18	-0.97	3.25E-18
CASP2	-0.69	6.51E-18	-0.78	6.32E-19
AIM2	-2.84	6.67E-18	-2.44	8.00E-14
FBXO7	0.41	6.84E-18	0.38	7.92E-09
AP1M2	-0.89	7.11E-18	-0.72	2.09E-15
TMCO1	-0.80	7.27E-18	-0.80	1.44E-21
THPO	-3.64	7.30E-18	-1.14	1.26E-04
F11	2.89	7.35E-18	5.45	1.22E-28
POLB	-1.22	7.37E-18	-1.02	1.09E-17
MCCC2	-0.79	7.44E-18	-0.77	4.85E-22
DGAT1	-1.08	7.56E-18	-0.73	1.44E-11
SORT1	0.79	7.95E-18	0.71	1.08E-10
CARS	-0.64	8.00E-18	-0.65	9.98E-20
CECR1	1.04	8.15E-18	0.89	1.46E-09
HIST1H2BG	-3.47	8.27E-18	-2.77	7.46E-08
MYOM2	1.47	8.42E-18	1.86	5.33E-24
CFB	-2.03	8.50E-18	-1.66	6.46E-14
PAFAH1B1	0.48	8.76E-18	0.42	9.04E-13
MTM1	0.68	9.15E-18	0.66	7.79E-21
ABCC2	-5.41	9.24E-18	-1.18	1.74E-03
RANGAP1	-0.75	9.62E-18	-0.69	6.18E-13
CARM1	-0.62	9.75E-18	-0.63	4.10E-22
GALC	0.74	9.90E-18	0.69	7.63E-15

SIGMAR1	-0.84	1.07E-17	-0.76	5.47E-22
ELMOD1	1.80	1.08E-17	2.26	3.59E-13
SYNJ2BP	0.52	1.08E-17	0.51	1.31E-15
HECW2	1.09	1.10E-17	1.17	3.27E-16
IL5RA	2.03	1.13E-17	2.09	4.66E-11
POLM	-0.84	1.17E-17	-0.69	1.42E-14
C7	1.79	1.18E-17	2.20	1.37E-17
MUC21	-3.94	1.18E-17	-2.05	8.90E-06
ESPN	-2.58	1.20E-17	-2.26	1.37E-12
PPP2CB	0.65	1.20E-17	0.73	6.12E-18
CACNA2D2	2.13	1.24E-17	3.76	6.57E-23
CYB5R3	0.68	1.27E-17	0.68	1.20E-16
FOXH1	-3.72	1.28E-17	-1.62	1.25E-06
IL17C	-4.30	1.28E-17	-2.59	1.39E-07
PABPC4	-0.72	1.31E-17	-0.58	6.13E-15
PPP1R16B	1.22	1.31E-17	1.16	1.39E-11
FNDC4	-2.15	1.33E-17	-1.72	9.92E-18
PDGFRL	-1.63	1.51E-17	-1.58	2.31E-15
AHCY	-1.04	1.56E-17	-1.04	1.83E-29
ALOXE3	-2.91	1.57E-17	-2.42	1.50E-13
TNFAIP8L3	1.17	1.69E-17	1.00	5.90E-14
RHBDF2	-0.97	1.79E-17	-1.01	6.96E-23
RRS1	-1.17	1.95E-17	-0.92	4.31E-14
EED	-0.70	1.96E-17	-0.73	7.87E-19
EGF	-2.58	1.97E-17	-1.95	1.44E-11
DUSP3	0.56	2.04E-17	0.48	6.32E-11
GBP4	1.31	2.04E-17	1.43	1.85E-13
PNPT1	-0.84	2.08E-17	-0.67	2.47E-16
NUP43	-0.65	2.13E-17	-0.70	4.45E-22
EIF4A3	-0.79	2.17E-17	-0.75	1.84E-23
PLA2G4A	-2.52	2.17E-17	-1.57	2.53E-11
JAK2	0.82	2.21E-17	0.70	8.33E-13
GNG2	0.88	2.25E-17	0.62	4.30E-08
SMARCB1	-0.63	2.25E-17	-0.58	2.25E-19
EBNA1BP2	-0.77	2.37E-17	-0.77	1.54E-21
COMP	-3.14	2.47E-17	-3.41	1.11E-18
USP28	-0.92	2.54E-17	-0.67	4.43E-16
FCRL5	-2.43	2.59E-17	-2.76	1.61E-22
TBXA2R	0.95	2.64E-17	0.68	2.94E-06
CD81	0.74	2.75E-17	0.83	2.91E-20
SNRNP200	-0.67	2.75E-17	-0.71	1.58E-21
HIST1H1D	-3.53	2.81E-17	-3.17	1.03E-12
SEC31A	-0.53	2.94E-17	-0.58	2.25E-20

MEA1	-0.79	2.97E-17	-0.62	1.41E-17
ERGIC3	-0.70	3.10E-17	-0.70	1.74E-17
CDK4	-1.05	3.20E-17	-1.01	2.23E-17
CLDN10	-4.20	3.25E-17	-2.83	4.16E-08
LAT2	1.03	3.30E-17	0.87	3.28E-10
NPR3	1.54	3.31E-17	1.61	3.96E-13
SEZ6L2	-1.84	3.44E-17	-1.53	3.38E-14
ST6GALNAC2	1.47	3.47E-17	1.71	5.70E-23
GOT1	-1.09	3.50E-17	-0.84	8.13E-22
TTC9C	-0.77	3.53E-17	-0.65	5.29E-19
TBCE	-0.85	3.74E-17	-0.66	5.09E-12
ENDOU	1.68	3.77E-17	2.45	6.44E-24
RSPH9	1.88	3.77E-17	1.87	2.47E-09
ADAM15	-1.02	3.79E-17	-1.06	5.25E-22
CEACAM7	-3.90	3.94E-17	-2.45	1.67E-09
CPA3	1.67	4.21E-17	1.98	3.30E-20
CTSS	0.95	4.53E-17	0.77	8.07E-09
JUN	0.97	4.92E-17	0.79	2.02E-07
SNRPD1	-0.94	4.95E-17	-0.87	1.37E-18
MUSK	2.02	5.08E-17	2.63	7.78E-19
SLC22A4	1.48	5.10E-17	1.22	2.64E-07
GNA11	0.68	5.24E-17	0.45	8.91E-08
IL20RA	1.66	5.48E-17	1.59	1.26E-12
CNGB1	-3.16	5.49E-17	-1.34	9.06E-05
GFAP	-3.41	5.59E-17	-2.50	1.83E-13
ANXA6	0.73	5.64E-17	0.35	1.61E-04
NUP210	-1.19	5.65E-17	-1.05	3.05E-14
HCST	1.11	5.75E-17	1.03	2.64E-13
GAB2	0.93	5.81E-17	1.00	2.26E-19
BMP8B	-1.47	5.97E-17	-1.15	1.37E-16
AKAP13	0.93	6.05E-17	0.93	4.00E-16
CYP2D6	-2.99	6.08E-17	-1.21	1.04E-05
TNFAIP1	0.51	6.09E-17	0.45	6.32E-09
CX3CR1	1.55	6.12E-17	1.86	1.25E-19
MBP	0.76	6.27E-17	0.55	3.73E-11
PLCE1	1.34	6.29E-17	1.72	1.69E-24
RP2	0.68	6.41E-17	0.41	6.96E-07
TRIB3	-1.48	6.46E-17	-0.94	1.31E-10
TCN1	-6.63	6.61E-17	-4.52	1.22E-12
ZMYND10	2.09	6.73E-17	2.63	2.54E-14
PTK6	-1.87	7.01E-17	-0.96	4.46E-06
AHCTF1	-0.69	7.11E-17	-0.65	1.55E-21
TRIM35	0.57	7.33E-17	0.55	1.33E-14

CD163	1.32	7.39E-17	0.99	9.25E-06
FAM134B	1.53	7.66E-17	1.44	5.63E-15
CBLB	-0.78	7.90E-17	-0.80	6.10E-22
LEFTY2	1.88	7.90E-17	2.49	8.86E-17
APEX2	-0.63	7.93E-17	-0.77	2.23E-27
PSMA5	-0.81	8.20E-17	-0.84	2.56E-23
FBXL20	-0.89	8.37E-17	-0.64	1.13E-10
POLR2J	-0.86	8.95E-17	-0.72	1.35E-21
CHST15	-1.05	9.29E-17	-1.15	2.93E-25
USP12	0.78	9.35E-17	0.77	3.96E-18
ASCC3	-0.70	9.40E-17	-0.87	8.47E-32
F10	1.51	9.40E-17	2.07	1.40E-41
TMUB1	-0.89	9.46E-17	-0.60	1.54E-11
COL13A1	1.41	9.49E-17	1.79	3.60E-22
CAPN11	1.49	9.58E-17	1.39	5.03E-11
P4HA1	-1.02	9.64E-17	-0.87	1.67E-14
AZI2	0.44	9.72E-17	0.33	1.20E-06
MARK2	-0.65	1.02E-16	-0.62	6.14E-23
STAT5A	0.73	1.02E-16	0.55	4.49E-13
EYS	-2.79	1.08E-16	-1.23	4.84E-08
EXOSC2	-0.72	1.13E-16	-0.62	5.75E-16
CHRNB4	-2.96	1.15E-16	-3.25	4.33E-20
HIST1H2BK	-1.44	1.16E-16	-1.08	8.55E-13
CPT1B	-1.75	1.21E-16	-0.77	1.64E-04
OSTF1	0.55	1.25E-16	0.45	3.89E-11
DUSP4	-2.33	1.27E-16	-1.84	9.06E-17
PSME4	-0.66	1.35E-16	-0.73	1.33E-20
URB2	-0.83	1.53E-16	-0.99	9.53E-23
HNRNPA2B1	-0.52	1.56E-16	-0.52	2.58E-17
MAGED4B	-2.29	1.59E-16	-1.87	5.49E-14
ID3	1.08	1.60E-16	1.09	5.15E-17
HIST1H2BC	-2.08	1.61E-16	-1.27	3.70E-10
VDAC1	-0.75	1.63E-16	-0.77	4.67E-22
VAMP3	0.50	1.71E-16	0.36	1.42E-09
SP3	-0.50	1.75E-16	-0.51	4.37E-17
B4GALT7	-0.78	1.78E-16	-0.77	5.69E-20
LAMA4	0.98	1.84E-16	0.63	1.66E-04
MTHFD1	-0.76	1.86E-16	-0.77	7.68E-23
B4GALNT1	-2.90	1.92E-16	-2.19	1.03E-15
GNG4	-3.97	1.98E-16	-3.39	1.81E-17
EVI5	0.58	2.00E-16	0.53	2.05E-18
PDCD11	-0.77	2.02E-16	-0.78	3.59E-18
PFAS	-0.88	2.02E-16	-0.66	4.26E-13

FO XK2	-0.64	2.12E-16	-0.56	2.10E-16
CSF2RB	1.07	2.13E-16	0.89	6.13E-10
TOMM40	-0.87	2.15E-16	-0.93	1.26E-18
SLC20A1	-0.97	2.22E-16	-0.99	1.47E-19
CYTH1	0.54	2.31E-16	0.63	1.25E-16
ADSSL1	-1.82	2.35E-16	-1.24	1.63E-11
RRP1B	-0.68	2.35E-16	-0.74	3.38E-26
ERBB4	1.90	2.37E-16	2.99	1.42E-26
IRF8	1.11	2.37E-16	1.04	3.91E-12
NKX3-2	-3.45	2.38E-16	-3.25	1.55E-12
WFDC2	-1.93	2.38E-16	-1.48	1.10E-09
PWP2	-0.65	2.39E-16	-0.59	1.35E-16
ABCB4	-2.61	2.41E-16	-1.90	2.22E-16
APLN	1.52	2.51E-16	1.33	2.67E-08
HIST1H2BE	-1.61	2.52E-16	-1.24	1.55E-11
PRMT5	-0.81	2.52E-16	-0.82	7.66E-24
PAK1IP1	-0.97	2.60E-16	-0.87	1.46E-22
HMOX1	1.24	2.64E-16	0.57	3.22E-04
RUNX1T1	1.38	2.65E-16	1.19	1.33E-09
DIABLO	-0.78	2.80E-16	-0.61	2.56E-14
NOTCH1	0.86	2.81E-16	0.82	1.83E-13
RASGRP2	1.34	2.84E-16	1.79	2.89E-26
ABTB2	-1.31	2.91E-16	-0.96	2.68E-08
VCAN	-1.67	2.93E-16	-1.94	3.62E-20
FGF19	-8.87	2.94E-16	-5.16	1.46E-20
REXO4	-0.55	3.28E-16	-0.47	1.01E-11
CTH	-1.35	3.35E-16	-1.16	5.21E-13
JAK3	-1.14	3.36E-16	-1.23	8.02E-24
QPCT	-2.83	3.36E-16	-1.99	1.58E-18
ZC3H12C	0.92	3.46E-16	0.85	1.76E-12
HIST1H3D	-3.02	3.52E-16	-2.35	1.27E-10
FBXL5	0.62	3.54E-16	0.57	1.17E-13
WASF1	-1.41	3.62E-16	-1.37	1.61E-15
PEX13	-0.59	3.68E-16	-0.49	5.18E-14
TPD52	-1.26	3.71E-16	-0.89	2.85E-22
SMAD9	1.63	3.78E-16	2.13	2.87E-24
CD300E	1.78	3.79E-16	0.96	9.73E-06
RAPGEF2	0.67	3.92E-16	0.63	3.56E-17
DUSP8	1.02	4.07E-16	1.22	3.81E-20
MFAP2	-1.64	4.09E-16	-1.76	2.11E-21
PTHLH	-3.02	4.18E-16	-1.93	5.17E-10
GPR84	-1.80	4.48E-16	-2.00	1.37E-21
PGLYRP3	-6.25	4.52E-16	-4.43	1.53E-13

MBOAT7	-0.80	4.53E-16	-0.56	7.71E-10
RUVBL1	-0.85	4.56E-16	-0.91	2.87E-18
GOLGA3	-0.73	4.57E-16	-0.53	5.03E-10
GAL	-6.41	4.72E-16	-5.10	1.10E-19
JUP	-0.99	4.75E-16	-0.70	1.32E-12
HIST1H3H	-2.26	4.81E-16	-1.60	1.70E-12
PSME3	-0.56	4.81E-16	-0.65	9.26E-25
HSD17B1	-1.62	4.84E-16	-0.83	2.97E-07
CSNK2A1	-0.65	5.14E-16	-0.63	5.04E-16
AKR1B10	-7.45	5.30E-16	-4.90	7.64E-15
BMF	-1.10	5.39E-16	-0.84	5.79E-10
BMS1	-0.59	5.39E-16	-0.56	7.15E-17
TUBA1A	0.93	5.45E-16	0.79	8.87E-12
ACTR3B	-1.00	5.79E-16	-0.92	3.74E-19
SRP68	-0.51	5.98E-16	-0.54	4.52E-23
MINA	-0.63	6.11E-16	-0.70	3.74E-21
SSB	-0.61	6.11E-16	-0.47	1.73E-14
ATL2	-0.81	6.18E-16	-0.56	3.73E-08
PAX9	-2.73	6.31E-16	-1.91	1.78E-12
KRT16	-4.86	6.56E-16	-5.82	6.84E-24
BTN3A3	0.82	6.57E-16	0.81	1.67E-14
TDRD3	0.65	6.85E-16	0.52	2.46E-08
NUP88	-0.71	7.01E-16	-0.60	2.19E-13
FOXA1	-1.59	7.27E-16	-1.18	4.27E-16
REV3L	0.77	7.39E-16	0.77	7.60E-15
NR4A1	1.57	7.42E-16	2.14	2.20E-20
IGF2BP1	-6.59	7.43E-16	-3.57	1.61E-08
FTSJ3	-0.64	7.48E-16	-0.65	4.91E-24
GAR1	-0.67	7.59E-16	-0.71	1.88E-16
RHCE	-2.38	7.95E-16	-2.07	8.96E-13
CD69	1.32	8.10E-16	1.13	7.66E-08
PSMB3	-0.98	8.20E-16	-0.76	3.07E-23
CTSG	1.99	8.21E-16	1.90	3.92E-14
SRMS	-3.50	8.27E-16	-1.96	2.85E-07
SEMA3D	1.48	8.37E-16	1.27	1.15E-11
IDE	-0.81	8.43E-16	-0.93	1.41E-29
AK2	-0.80	8.52E-16	-0.53	2.21E-11
TARBP1	-0.90	9.35E-16	-0.54	1.02E-07
ETV5	1.04	9.90E-16	1.03	2.90E-13
PIGL	-0.97	1.01E-15	-0.49	4.42E-04
GON4L	-0.73	1.02E-15	-0.69	2.94E-14
DGKA	-1.01	1.05E-15	-0.87	3.99E-11
DNAJC11	-0.53	1.05E-15	-0.49	2.58E-17

P2RX1	1.27	1.09E-15	1.59	7.88E-19
EIF2AK2	-0.89	1.14E-15	-0.92	4.78E-25
EPHB3	-1.53	1.14E-15	-1.27	3.51E-18
TRIM15	-6.21	1.14E-15	-4.48	2.04E-14
CCT8	-0.66	1.16E-15	-0.70	7.28E-27
APC	0.64	1.17E-15	0.51	4.04E-14
POLR3K	-0.82	1.18E-15	-0.76	2.48E-15
SDHA	-0.75	1.21E-15	-0.65	7.45E-14
SLC26A1	-1.27	1.21E-15	-0.72	2.67E-09
IGLON5	-2.60	1.23E-15	-1.93	4.49E-18
SIGLEC1	1.26	1.27E-15	1.46	4.62E-13
ACP1	-0.61	1.31E-15	-0.50	6.01E-12
EBF1	1.03	1.32E-15	0.85	3.78E-09
PPP4C	-0.76	1.32E-15	-0.70	1.38E-23
ENOPH1	-0.64	1.33E-15	-0.66	2.30E-19
CDKN2B	1.22	1.34E-15	1.36	1.33E-14
ENAH	-0.79	1.37E-15	-0.94	2.72E-24
PSMC5	-0.57	1.39E-15	-0.47	1.64E-18
MEX3B	-1.22	1.40E-15	-1.00	1.07E-10
SLC15A1	-4.30	1.42E-15	-2.87	2.19E-13
QDPR	0.71	1.47E-15	0.77	1.27E-19
SOX11	-4.70	1.49E-15	-3.69	1.89E-15
KLK6	-6.78	1.60E-15	-4.60	8.38E-13
MAPK13	-0.88	1.66E-15	-0.68	6.63E-14
GNGT2	1.04	1.70E-15	1.08	9.29E-15
ICMT	-0.56	1.71E-15	-0.65	2.44E-19
CLDN6	-5.80	1.75E-15	-1.85	2.11E-04
NAA10	-0.92	1.75E-15	-0.75	6.71E-25
ATR	-0.67	1.81E-15	-0.69	1.12E-15
HNRNPU	-0.50	1.85E-15	-0.50	2.79E-15
ACHE	-2.62	1.88E-15	-0.86	5.04E-03
AMPD2	-0.62	1.94E-15	-0.72	5.45E-25
HOXB7	-2.17	1.97E-15	-1.64	3.07E-13
GRIP1	-1.89	2.03E-15	-1.62	4.44E-14
NUP37	-0.87	2.04E-15	-0.76	1.57E-14
PIP4K2C	-0.71	2.05E-15	-0.76	4.43E-13
GRB7	-1.37	2.10E-15	-0.79	1.16E-12
BMP2	1.48	2.11E-15	1.85	3.56E-20
LOXL2	-1.83	2.11E-15	-1.90	2.07E-18
IL13	2.07	2.24E-15	1.95	8.85E-06
CRLF1	-4.15	2.43E-15	-2.35	8.46E-08
GPS1	-0.67	2.48E-15	-0.62	1.54E-20
GJB3	-3.15	2.50E-15	-2.41	4.98E-10

BMX	2.26	2.52E-15	3.11	1.36E-37
AXIN1	-0.69	2.55E-15	-0.50	8.02E-11
PPM1J	-1.67	2.57E-15	-1.11	1.51E-09
SMOC1	-3.93	2.61E-15	-2.04	3.07E-06
CYP51A1	0.74	2.64E-15	0.81	1.64E-16
E2F6	-0.68	2.85E-15	-0.62	1.29E-11
EIF4G3	-0.61	2.85E-15	-0.75	2.10E-26
EPB41L3	1.12	2.89E-15	0.95	1.93E-09
TUBB	-0.85	2.95E-15	-0.90	7.18E-20
ETV6	-0.70	3.01E-15	-0.70	9.92E-20
SPATA5L1	-0.69	3.10E-15	-0.57	1.35E-09
CDK5	-0.83	3.23E-15	-0.86	3.60E-19
SCARF1	1.08	3.30E-15	1.44	9.95E-41
ADCY9	0.98	3.39E-15	1.25	2.48E-23
TNFAIP8L2	1.05	3.39E-15	1.02	1.51E-11
KLC2	-0.79	3.46E-15	-0.68	1.99E-12
PGM3	-0.83	3.48E-15	-0.91	2.26E-21
AGTR1	1.81	3.51E-15	2.71	4.45E-40
GAB3	0.94	3.57E-15	1.11	7.34E-16
SUPV3L1	-0.62	3.61E-15	-0.51	2.00E-13
CDK7	-0.77	3.64E-15	-0.68	1.06E-13
TCOF1	-0.77	3.66E-15	-0.91	8.72E-20
BTNL8	2.34	3.69E-15	2.96	1.86E-29
ZNF408	-0.61	3.70E-15	-0.54	2.06E-12
GAN	-1.01	3.71E-15	-1.09	3.07E-24
SIGLEC9	1.11	3.71E-15	0.94	1.60E-08
PSMA1	-0.61	3.77E-15	-0.61	1.97E-15
TJP2	0.68	3.78E-15	0.81	5.83E-20
IL16	0.95	3.79E-15	0.87	4.63E-11
CHORDC1	-0.85	3.81E-15	-0.82	1.43E-16
CRTAP	0.60	3.83E-15	0.50	2.93E-13
LZTFL1	0.65	3.94E-15	0.57	5.35E-09
CACNB4	1.56	3.95E-15	2.34	2.38E-27
CCDC39	1.54	4.03E-15	1.65	1.16E-09
UNC119	-0.66	4.12E-15	-0.53	9.40E-12
TIPRL	-0.64	4.13E-15	-0.70	5.75E-22
MORF4L2	-0.69	4.16E-15	-0.65	2.00E-16
EEF1E1	-0.91	4.20E-15	-0.83	7.27E-15
KIF4B	-1.73	4.22E-15	-2.13	7.36E-22
PLA2G2F	-5.27	4.35E-15	-3.23	2.34E-08
ALG1	-0.69	4.41E-15	-0.63	2.42E-14
NFATC3	0.59	4.58E-15	0.45	2.29E-07
IL34	1.28	4.59E-15	1.41	1.12E-15

CLEC4D	1.58	4.61E-15	1.02	8.47E-06
STAU2	-0.88	4.64E-15	-0.70	3.34E-17
NUP205	-0.75	4.83E-15	-0.84	9.96E-20
RSL1D1	-0.70	4.90E-15	-0.62	1.66E-17
DHX57	-0.58	4.91E-15	-0.68	1.74E-17
SEC13	-0.60	5.27E-15	-0.61	5.38E-16
ACTG2	1.41	5.33E-15	1.10	3.41E-07
CRK	0.51	5.37E-15	0.36	4.81E-08
ABCE1	-0.65	5.42E-15	-0.74	1.03E-19
RAD51C	-0.64	5.46E-15	-0.63	2.74E-15
MTPAP	-0.64	5.50E-15	-0.51	6.25E-12
ITGAX	1.10	5.77E-15	1.03	8.53E-10
TSPAN7	1.66	5.85E-15	2.73	1.22E-31
SHARPIN	-0.86	5.91E-15	-0.58	2.93E-10
LYZ	1.40	6.12E-15	1.21	3.32E-08
C1GALT1	-1.05	6.20E-15	-0.87	2.04E-12
CCM2	-0.84	6.23E-15	-0.78	6.63E-14
BARD1	-1.21	6.50E-15	-1.36	3.73E-24
PTMA	-0.60	6.52E-15	-0.59	1.71E-15
PEX11B	-0.65	6.60E-15	-0.62	1.78E-12
TSR1	-0.64	7.23E-15	-0.65	7.73E-19
CCDC127	-0.75	7.26E-15	-0.66	2.61E-12
CKM	-3.30	7.29E-15	-2.45	9.19E-11
TIAL1	-0.50	7.49E-15	-0.39	8.12E-10
PF4	2.29	7.52E-15	3.13	1.22E-16
SNX9	-0.64	7.77E-15	-0.92	6.76E-22
RSPH1	1.83	7.95E-15	1.64	4.62E-07
HPGDS	1.49	8.05E-15	2.03	5.02E-16
KIF2A	-0.80	8.21E-15	-0.96	6.53E-20
LRP1	0.89	8.24E-15	0.59	7.32E-07
CD276	-0.69	8.49E-15	-0.90	3.43E-29
KRT10	-0.97	8.63E-15	-0.72	6.13E-10
WDR43	-0.74	8.82E-15	-0.80	4.70E-21
NUP107	-0.87	9.07E-15	-0.79	6.23E-11
PTS	-0.96	9.14E-15	-0.84	1.17E-16
EFNB1	1.06	9.32E-15	0.96	2.25E-10
YIPF3	-0.59	9.38E-15	-0.44	2.10E-10
BASP1	-1.91	9.40E-15	-1.64	1.11E-16
ENTPD5	-0.85	9.41E-15	-0.69	9.20E-17
CD4	0.89	9.46E-15	0.69	1.95E-07
TBL1XR1	-0.62	9.56E-15	-0.60	8.15E-18
PA2G4	-0.69	9.63E-15	-0.61	9.73E-15
CYC1	-1.07	9.86E-15	-0.85	4.62E-17

CTBP2	-0.60	1.00E-14	-0.55	2.08E-16
CDC123	-0.62	1.04E-14	-0.62	3.49E-13
NHP2	-0.83	1.04E-14	-0.82	1.64E-18
FOXO3	0.69	1.06E-14	0.49	4.01E-10
RANBP9	-0.63	1.06E-14	-0.60	4.05E-18
DOCK2	1.03	1.07E-14	0.90	1.74E-09
P2RX7	1.18	1.13E-14	1.01	2.34E-08
GFER	-0.67	1.14E-14	-0.47	7.93E-11
HSPA9	-0.63	1.16E-14	-0.73	2.61E-22
PSMD7	-0.62	1.17E-14	-0.72	1.44E-27
IFNGR2	-0.76	1.18E-14	-0.59	2.65E-13
HNF1A	-2.70	1.19E-14	-0.88	9.56E-04
UBE2Z	-0.46	1.20E-14	-0.55	7.63E-21
HCN2	-2.52	1.27E-14	-1.82	2.18E-13
CD44	0.95	1.29E-14	0.82	2.70E-12
RFC3	-1.07	1.32E-14	-0.86	5.19E-13
MATN3	1.44	1.33E-14	1.96	3.40E-18
RSPH4A	1.97	1.34E-14	2.65	2.71E-16
AKAP11	0.56	1.36E-14	0.50	1.36E-10
C1QC	1.12	1.37E-14	1.12	1.13E-09
PRPF4	-0.60	1.37E-14	-0.67	2.56E-22
STK38	-0.62	1.40E-14	-0.52	4.42E-12
ITGAV	-0.99	1.44E-14	-0.96	1.77E-16
SUSD2	1.83	1.45E-14	3.44	9.73E-28
ADRM1	-0.70	1.55E-14	-0.59	2.39E-15
RPS2	-0.90	1.56E-14	-0.74	7.06E-16
TPMT	-0.71	1.57E-14	-0.66	9.81E-16
HMGCR	0.65	1.62E-14	0.55	5.38E-10
NCKIPSD	-0.60	1.72E-14	-0.45	1.07E-09
RNF115	-0.65	1.72E-14	-0.61	1.63E-14
HERC1	0.66	1.75E-14	0.65	6.77E-15
CDC34	-0.78	1.80E-14	-0.57	1.19E-11
THRA	0.77	1.80E-14	1.01	3.57E-21
GBA	-0.69	1.82E-14	-0.77	1.15E-22
RBL1	-1.07	1.82E-14	-1.06	2.21E-13
SCN4A	-3.70	1.86E-14	-1.15	1.12E-03
USP18	-1.01	1.89E-14	-0.81	2.90E-12
DDX10	-0.71	1.99E-14	-0.69	1.62E-20
FMO3	1.18	2.01E-14	1.12	6.62E-13
RHOD	-1.28	2.06E-14	-1.08	1.40E-12
SMARCC1	-0.64	2.13E-14	-0.74	2.18E-22
ROBO2	1.62	2.14E-14	2.21	1.27E-22
NOX4	-1.58	2.16E-14	-1.57	3.28E-10

CASP1	0.95	2.28E-14	0.99	1.12E-14
SARS2	-0.96	2.32E-14	-0.70	6.44E-14
LMAN1	-0.70	2.40E-14	-0.75	6.38E-18
ALDH2	0.99	2.41E-14	1.49	1.35E-26
HTR1D	-2.88	2.42E-14	-2.09	3.60E-07
VIP	1.63	2.45E-14	2.38	3.50E-22
ITGB4	-1.75	2.47E-14	-1.53	1.09E-11
PRPF40A	-0.50	2.52E-14	-0.51	2.34E-16
MCHR1	-2.07	2.54E-14	-2.42	2.02E-17
CSRNP2	-0.65	2.56E-14	-0.55	3.55E-11
SAR1B	-0.84	2.60E-14	-0.90	2.69E-22
LMBRD1	0.61	2.65E-14	0.55	4.60E-11
PAH	-6.07	2.66E-14	-3.88	8.83E-09
EXOSC10	-0.47	2.94E-14	-0.38	4.72E-12
SASH3	0.94	3.03E-14	0.89	1.05E-09
CCL25	-3.47	3.13E-14	-2.60	1.59E-10
CREB3L2	-0.78	3.14E-14	-0.80	6.32E-16
ITPKC	0.90	3.14E-14	0.53	1.30E-03
NT5E	-2.00	3.18E-14	-1.64	2.26E-13
RBM4	-0.47	3.18E-14	-0.37	4.46E-09
BRAF	-0.77	3.19E-14	-0.63	6.44E-13
PES1	-0.56	3.24E-14	-0.59	4.19E-13
MMP15	-1.22	3.28E-14	-0.72	1.06E-06
VSX1	-3.45	3.28E-14	-3.07	4.80E-13
SEPT9	-0.60	3.37E-14	-0.66	1.13E-14
RHOA	0.44	3.39E-14	0.31	7.04E-06
RAP1A	0.51	3.44E-14	0.43	8.16E-10
PRPS2	-0.92	3.45E-14	-0.97	4.83E-38
NOC3L	-0.63	3.49E-14	-0.70	5.19E-21
MMP14	-1.13	3.53E-14	-1.31	2.55E-18
MYBPH	-4.15	3.59E-14	-2.47	3.55E-09
PPIB	-0.90	3.67E-14	-0.77	3.73E-17
MFRP	0.86	3.76E-14	0.64	3.29E-06
RBP4	2.03	3.79E-14	3.31	1.27E-29
CC2D2A	0.86	4.06E-14	0.87	7.86E-13
TKT	-0.96	4.06E-14	-0.57	7.26E-07
PIK3R2	-0.69	4.07E-14	-0.60	2.15E-14
PLA2G4C	1.03	4.29E-14	1.00	3.49E-12
CMKLR1	1.06	4.44E-14	0.71	1.41E-04
WFDC10B	-2.64	4.72E-14	-0.83	2.96E-02
CCNO	-2.14	4.74E-14	-2.17	1.90E-08
LCT	-4.38	4.79E-14	-1.62	6.97E-04
KARS	-0.55	4.99E-14	-0.66	5.95E-24

RRP12	-0.76	5.09E-14	-0.82	1.71E-12
PDX1	-8.41	5.15E-14	-6.85	6.15E-34
AXL	0.93	5.17E-14	0.91	8.95E-10
WDR34	-0.89	5.53E-14	-0.66	8.69E-11
WDR5	-0.60	5.53E-14	-0.49	1.37E-10
CHRNA4	2.50	6.05E-14	2.95	3.99E-13
ANAPC1	-0.73	6.17E-14	-0.79	7.76E-23
DHCR24	0.85	6.29E-14	1.03	1.46E-17
SUN2	0.63	6.32E-14	0.56	9.56E-13
MAEA	-0.54	6.50E-14	-0.45	1.09E-12
COL18A1	-1.17	6.58E-14	-1.08	5.87E-11
XRCC5	-0.49	6.58E-14	-0.64	6.73E-25
MAGI2	0.90	6.72E-14	0.79	3.40E-08
MGAT4B	-0.64	6.73E-14	-0.49	3.40E-11
ZMIZ1	0.66	6.74E-14	0.52	1.13E-08
NOX1	-2.86	6.91E-14	-1.69	1.90E-05
PPAN	-0.76	6.96E-14	-0.56	2.64E-08
CDH15	-2.39	6.99E-14	-0.86	6.42E-03
NPSR1	-5.94	7.16E-14	-4.31	6.13E-23
PRSS16	-0.94	7.16E-14	-0.67	3.38E-10
PSMB5	-0.79	7.26E-14	-0.78	2.75E-21
NUDCD1	-0.83	7.43E-14	-0.84	2.79E-15
PERP	-1.11	7.44E-14	-1.10	2.75E-15
NUP35	-0.71	7.61E-14	-0.59	4.99E-13
PTPN6	0.55	7.76E-14	0.53	9.56E-10
SEC24C	-0.45	7.76E-14	-0.35	6.05E-09
THY1	-1.33	7.91E-14	-1.97	6.47E-19
FBXL7	0.95	7.95E-14	0.75	2.80E-07
POLR2B	-0.53	7.97E-14	-0.51	6.16E-18
SPAG8	1.51	8.08E-14	2.14	2.13E-15
RAN	-0.89	8.22E-14	-0.82	8.54E-18
CASZ1	0.85	8.25E-14	1.10	4.11E-15
RNF4	-0.44	8.26E-14	-0.47	1.07E-19
CASP5	1.51	8.57E-14	1.61	3.97E-13
TRIM28	-0.63	8.81E-14	-0.52	8.48E-10
NCL	-0.57	8.85E-14	-0.61	1.37E-16
EFNB2	1.02	8.98E-14	0.80	1.31E-07
KCNJ10	-2.24	9.02E-14	-1.96	2.17E-15
PER1	1.08	9.16E-14	1.32	1.57E-20
TARBP2	-0.81	9.18E-14	-0.54	2.62E-10
VANGL1	-0.74	9.46E-14	-0.89	1.90E-17
UBE2H	-0.66	9.54E-14	-0.71	3.47E-19
TRPM2	-1.38	9.57E-14	-1.28	2.04E-12

GNG7	1.02	9.61E-14	1.18	1.06E-14
KIF26A	1.49	9.66E-14	1.87	1.37E-16
TNFRSF11A	-1.47	9.66E-14	-1.39	2.14E-17
CD300LB	1.03	9.86E-14	0.74	1.42E-06
C1GALT1C1	-0.63	1.02E-13	-0.59	2.56E-14
DISP1	0.89	1.02E-13	1.03	7.50E-20
SCYL1	-0.56	1.03E-13	-0.47	3.16E-13
B2M	0.80	1.04E-13	0.77	9.00E-12
DGUOK	-0.67	1.04E-13	-0.48	2.05E-10
SLC6A3	-4.12	1.05E-13	-1.42	5.98E-03
UBAC2	-0.58	1.05E-13	-0.54	8.66E-15
H2AFZ	-0.90	1.06E-13	-0.79	5.19E-15
RNF220	-0.46	1.08E-13	-0.38	1.58E-10
TMEM231	1.12	1.15E-13	0.78	1.92E-04
ZBTB7B	-0.70	1.15E-13	-0.60	7.78E-09
ANAPC11	-0.95	1.18E-13	-0.82	4.55E-20
SLC19A1	0.77	1.18E-13	0.87	3.68E-14
POSTN	-1.55	1.21E-13	-2.01	1.03E-14
SAP130	-0.50	1.23E-13	-0.50	8.59E-14
PATZ1	-0.64	1.24E-13	-0.50	3.95E-08
ULK1	-0.73	1.24E-13	-0.44	1.76E-05
SUZ12	-0.63	1.25E-13	-0.58	5.55E-13
F2RL1	-1.41	1.28E-13	-1.18	1.36E-12
FGD2	0.98	1.28E-13	1.05	6.22E-14
PPBP	2.39	1.28E-13	3.10	1.19E-14
BCO2	1.34	1.31E-13	1.53	5.22E-11
TRIM17	-2.51	1.31E-13	-0.90	1.32E-03
PSD	-1.35	1.32E-13	-1.19	1.83E-10
SIK2	0.72	1.33E-13	0.73	2.27E-17
LAS1L	-0.51	1.41E-13	-0.53	6.87E-18
DKK3	1.00	1.42E-13	0.88	3.65E-10
HIST1H1C	-1.58	1.48E-13	-0.92	4.87E-06
AARS	-0.69	1.55E-13	-0.68	5.89E-19
LCN2	-2.50	1.55E-13	-1.70	9.86E-06
INPP4B	-1.52	1.60E-13	-1.39	4.40E-12
RHEB	-0.79	1.61E-13	-0.61	3.72E-12
PNO1	-0.75	1.67E-13	-0.80	1.21E-19
TET1	-1.51	1.68E-13	-1.19	6.90E-14
UBA6	-0.61	1.69E-13	-0.63	1.46E-13
COPB1	-0.51	1.71E-13	-0.55	7.68E-16
GRIK2	-2.90	1.71E-13	-2.62	1.06E-11
DDB1	-0.44	1.78E-13	-0.48	2.86E-14
TSPAN32	1.30	1.84E-13	2.07	8.69E-32

KCNJ8	1.22	1.91E-13	1.26	7.09E-18
LONP1	-0.61	1.92E-13	-0.42	2.62E-08
STAU1	-0.49	1.94E-13	-0.54	1.39E-21
CSNK2B	-0.59	1.96E-13	-0.51	1.70E-12
NIT2	-0.81	2.10E-13	-0.68	1.44E-12
SERPINB5	-4.45	2.16E-13	-3.55	2.07E-09
SNRNP70	-0.66	2.30E-13	-0.38	2.19E-07
BACE2	-1.52	2.31E-13	-1.25	2.29E-13
LARP1	-0.64	2.32E-13	-0.74	4.67E-20
CD244	1.18	2.35E-13	1.50	3.91E-16
PPARGC1B	1.16	2.43E-13	1.35	1.04E-19
FBXO15	1.53	2.53E-13	1.29	4.41E-06
VAT1	0.64	2.55E-13	0.58	2.93E-13
STAT2	-0.61	2.57E-13	-0.46	7.90E-13
PDE4B	0.95	2.71E-13	0.56	4.03E-05
EVL	0.71	2.72E-13	0.75	1.01E-13
OCRL	-0.59	2.72E-13	-0.58	1.35E-18
WDR89	-0.64	2.72E-13	-0.58	3.43E-14
PJA2	0.53	2.79E-13	0.36	3.78E-07
YWHAG	-0.63	2.90E-13	-0.76	5.55E-17
PHB	-0.64	2.96E-13	-0.61	8.81E-19
COPS6	-0.73	2.98E-13	-0.65	2.81E-21
THRB	1.15	2.98E-13	1.20	2.06E-11
DNASE1L2	-1.86	3.00E-13	-0.77	9.06E-04
COL1A2	-1.48	3.09E-13	-1.77	4.20E-14
SMS	-0.78	3.12E-13	-0.93	1.00E-21
POLR3A	-0.69	3.23E-13	-0.78	6.60E-20
GATA5	1.42	3.27E-13	1.77	9.62E-16
PLXDC2	0.85	3.27E-13	0.56	1.10E-05
CLDN7	-0.89	3.30E-13	-0.54	2.92E-05
CNGA1	-2.45	3.31E-13	-1.34	6.27E-07
FBLIM1	-0.82	3.35E-13	-1.02	1.54E-14
RBBP5	-0.55	3.35E-13	-0.65	1.93E-18
SLC7A9	-3.79	3.37E-13	-0.75	3.61E-02
UBE2V2	-0.73	3.39E-13	-0.61	7.79E-12
AQP1	1.58	3.50E-13	2.26	1.30E-19
NARFL	-0.66	3.55E-13	-0.42	6.02E-08
PIGT	-0.78	3.76E-13	-0.75	1.03E-16
ISG15	-1.67	3.83E-13	-0.91	3.60E-07
HMGB2	-0.98	3.88E-13	-0.77	2.01E-09
ERBB2	-1.25	3.95E-13	-0.63	2.59E-07
ILF3	-0.50	3.99E-13	-0.40	5.38E-10
SPSB1	-0.87	4.19E-13	-1.04	1.41E-15

FCGR1B	1.06	4.23E-13	1.06	3.05E-09
NLRP3	1.06	4.24E-13	0.51	1.48E-03
SPTBN5	-1.72	4.24E-13	-0.68	1.37E-03
TAC4	-5.05	4.25E-13	-1.03	2.93E-02
PMS1	-0.57	4.26E-13	-0.41	1.14E-07
TRIM37	-0.69	4.26E-13	-0.72	3.96E-14
CD46	-0.75	4.32E-13	-0.43	3.62E-05
TFRC	1.06	4.32E-13	1.13	2.73E-14
MMP10	-3.87	4.34E-13	-2.59	1.81E-07
SLC33A1	-0.62	4.34E-13	-0.59	2.01E-11
RBM8A	-0.53	4.46E-13	-0.53	4.87E-13
HSF1	-0.68	4.55E-13	-0.51	5.02E-10
FARSA	-0.55	4.70E-13	-0.51	4.19E-12
SRC	-0.71	4.72E-13	-0.52	2.54E-09
KLC3	-1.78	4.74E-13	-0.89	5.57E-04
MMP9	-1.85	4.84E-13	-2.76	5.34E-23
KIF5A	-3.07	4.99E-13	-2.36	2.15E-09
RAD23B	-0.51	5.00E-13	-0.54	1.31E-15
UGT8	-2.26	5.00E-13	-1.92	5.17E-12
NDN	0.92	5.03E-13	1.04	1.95E-11
HDAC8	-0.50	5.10E-13	-0.41	4.09E-08
CD160	0.97	5.16E-13	1.48	3.35E-18
PHLDB3	-1.00	5.37E-13	-0.87	8.48E-12
MUC5B	-3.90	5.44E-13	-2.71	3.49E-05
IL1B	1.26	5.49E-13	1.00	5.81E-06
TBX6	-1.41	5.49E-13	-0.57	1.12E-03
FAF2	-0.49	5.51E-13	-0.60	6.21E-24
KRT19	-1.30	5.62E-13	-0.86	2.84E-07
PPP2R5E	-0.60	5.79E-13	-0.65	2.37E-21
PSMD2	-0.63	5.95E-13	-0.71	3.11E-18
CNKSRI	-0.84	6.01E-13	-0.57	6.65E-09
NT5DC2	-0.84	6.03E-13	-0.67	3.17E-09
FOXO1	0.83	6.16E-13	0.60	1.95E-07
SDHC	-0.66	6.32E-13	-0.69	2.60E-13
KIF1A	-5.09	6.40E-13	-2.03	1.02E-03
KBTBD8	0.88	6.54E-13	0.67	2.48E-05
PDCD1LG2	1.14	6.54E-13	0.97	9.77E-07
ELAVL1	-0.35	6.79E-13	-0.38	3.07E-12
TGFA	-1.57	6.95E-13	-1.32	3.33E-18
ITGA2	-1.65	6.97E-13	-1.48	3.66E-11
PANX1	-0.67	6.97E-13	-0.88	1.32E-22
SNRPB	-0.89	6.97E-13	-0.66	1.20E-10
CBFB	-0.47	7.01E-13	-0.58	3.34E-19

MUC4	-2.52	7.16E-13	-1.76	4.67E-06
UCHL3	-0.79	7.16E-13	-0.78	3.05E-16
ATP6V1E2	-0.96	7.48E-13	-0.57	3.23E-07
PABPN1	-0.61	7.55E-13	-0.36	6.21E-08
LEMD2	-0.52	7.59E-13	-0.34	4.43E-07
OAT	-1.10	7.76E-13	-0.83	7.85E-14
PTAFR	1.12	7.78E-13	0.71	4.25E-05
CCR8	-1.54	8.17E-13	-2.05	4.61E-22
ITPA	-0.73	8.18E-13	-0.55	6.10E-08
CUL4B	-0.48	8.24E-13	-0.53	1.64E-19
P2RY13	1.08	8.29E-13	0.97	6.74E-08
WRNIP1	-0.55	8.34E-13	-0.48	6.03E-11
T	-5.52	8.42E-13	-5.28	5.82E-31
THOC6	-0.66	8.45E-13	-0.43	5.89E-09
INHBE	-3.27	8.61E-13	-1.48	1.28E-07
HSPA4	-0.54	8.74E-13	-0.68	2.36E-26
NOX5	-3.23	8.83E-13	-1.91	6.12E-12
HNRNPD	-0.48	8.93E-13	-0.46	6.25E-14
NAALADL2	-1.38	8.93E-13	-1.16	4.60E-09
CDA	-2.44	8.98E-13	-1.63	1.08E-06
COL6A3	-1.24	8.99E-13	-1.56	1.34E-18
MYH16	-3.69	9.10E-13	-2.99	1.02E-10
POLR3C	-0.54	9.43E-13	-0.61	6.63E-16
NAP1L4	-0.43	9.52E-13	-0.32	2.82E-07
RPS6KB1	-0.57	9.78E-13	-0.55	4.47E-14
IMMT	-0.43	9.79E-13	-0.45	4.35E-15
NFASC	1.26	9.98E-13	1.52	3.94E-14
BRCA2	-1.13	1.00E-12	-1.09	1.12E-13
NPAS2	-1.39	1.02E-12	-1.14	2.20E-09
PNMA3	-2.79	1.02E-12	-1.50	1.24E-06
CCNT2	-0.51	1.04E-12	-0.33	1.05E-06
FIP1L1	-0.65	1.06E-12	-0.48	6.73E-15
SH3GL2	2.45	1.07E-12	4.14	1.49E-33
TMEM63A	-0.84	1.07E-12	-0.43	4.65E-05
ST3GAL2	0.64	1.08E-12	0.47	6.13E-07
MCM5	-0.73	1.11E-12	-0.78	1.72E-12
CPB2	2.45	1.12E-12	6.08	6.03E-37
RASSF1	0.53	1.13E-12	0.71	5.73E-23
SH3GL1	-0.56	1.14E-12	-0.61	7.05E-16
IVL	-4.49	1.15E-12	-2.49	1.40E-05
PTPRN	-4.02	1.15E-12	-3.56	2.47E-14
DAPK1	0.95	1.16E-12	1.30	1.41E-24
HIST3H2A	-2.48	1.16E-12	-1.24	1.71E-04

ILK	0.44	1.17E-12	0.37	3.05E-07
TRIM9	-2.77	1.25E-12	-1.67	3.55E-09
TNFSF4	-1.22	1.27E-12	-1.47	6.02E-19
ALOX15	2.32	1.32E-12	3.25	9.92E-18
CPAMD8	1.51	1.32E-12	2.61	1.43E-24
ATG9B	-1.89	1.34E-12	-1.51	3.14E-09
ABCF1	-0.58	1.40E-12	-0.58	9.82E-17
FLCN	0.55	1.41E-12	0.82	1.46E-29
TXNIP	0.87	1.41E-12	0.89	7.68E-14
LSM2	-0.92	1.43E-12	-0.79	3.75E-15
MTA2	-0.45	1.47E-12	-0.49	3.28E-14
RGS5	0.96	1.47E-12	1.02	8.20E-15
PPIE	-0.61	1.49E-12	-0.47	1.35E-12
RAB3GAP2	-0.48	1.49E-12	-0.51	8.67E-14
TOP3B	-0.79	1.50E-12	-0.34	1.32E-04
SLC25A37	-1.04	1.54E-12	-0.63	1.70E-06
UVRAG	0.47	1.57E-12	0.43	3.95E-10
NEDD4L	0.89	1.62E-12	1.27	5.53E-22
BATF	-1.18	1.63E-12	-1.00	2.04E-09
FAF1	-0.50	1.64E-12	-0.54	5.51E-17
SKP2	-1.25	1.65E-12	-1.09	2.82E-11
RILP	0.84	1.69E-12	1.10	8.44E-24
CTSA	-0.74	1.71E-12	-0.67	1.01E-14
LRRC41	-0.47	1.75E-12	-0.53	1.41E-19
DST	1.08	1.77E-12	1.12	4.76E-13
PITPNM1	-0.81	1.79E-12	-0.57	2.73E-06
ATF5	-0.83	1.80E-12	-0.89	3.84E-15
BANF1	-0.71	1.86E-12	-0.54	4.42E-13
C9orf72	0.71	1.87E-12	0.66	1.70E-11
AGT	-2.72	1.89E-12	-1.40	2.68E-07
C6	2.15	1.91E-12	3.23	1.55E-15
DDX54	-0.61	1.96E-12	-0.44	1.05E-07
MST1R	-1.10	1.97E-12	-0.77	1.02E-09
EIF2B5	-0.48	1.99E-12	-0.35	1.14E-10
THOC5	-0.62	1.99E-12	-0.48	2.41E-09
PEX1	-0.69	2.00E-12	-0.57	9.67E-12
ZNF513	-0.69	2.01E-12	-0.32	4.54E-04
DCTN5	-0.47	2.02E-12	-0.56	2.03E-22
ANAPC7	-0.56	2.04E-12	-0.41	4.99E-08
YIPF6	-0.69	2.10E-12	-0.77	4.26E-21
CSTF1	-0.47	2.18E-12	-0.47	7.44E-13
NR5A2	1.16	2.18E-12	0.87	1.17E-06
DYNC2H1	1.06	2.27E-12	1.08	1.40E-11

TINAG	-7.22	2.27E-12	-2.87	4.45E-06
CHID1	-0.64	2.28E-12	-0.56	3.61E-11
ARL11	0.96	2.34E-12	0.75	9.58E-06
DHX9	-0.42	2.43E-12	-0.49	2.14E-17
PCSK1	-4.87	2.52E-12	-2.02	1.33E-08
PLA2G15	0.57	2.54E-12	0.46	8.48E-07
ALPK2	-1.88	2.55E-12	-3.22	6.19E-27
TMEM209	-0.61	2.57E-12	-0.68	1.58E-18
MPI	-0.58	2.66E-12	-0.53	3.79E-14
POLR3D	-0.60	2.67E-12	-0.63	1.76E-15
GPT	-2.22	2.70E-12	-0.77	6.37E-03
SLC9A3R1	-0.98	2.73E-12	-0.88	4.84E-10
MYCN	-3.37	2.78E-12	-1.50	1.70E-06
TTC3	-0.59	2.80E-12	-0.49	5.67E-14
GFRA1	1.64	2.81E-12	2.13	2.00E-16
DHDDS	-0.45	2.88E-12	-0.50	5.25E-22
PRF1	1.18	2.98E-12	1.39	1.31E-14
NCBP1	-0.52	3.04E-12	-0.60	7.28E-18
CDKN1A	0.82	3.25E-12	0.37	1.89E-02
TLR7	1.01	3.29E-12	0.89	4.50E-07
ABCA1	0.83	3.38E-12	0.56	3.61E-04
HIST1H2AG	-2.32	3.42E-12	-1.96	2.71E-09
LGALS3BP	-0.90	3.62E-12	-0.68	3.16E-13
CCT4	-0.67	3.65E-12	-0.76	2.40E-19
HOXC4	-1.87	3.73E-12	-1.09	1.45E-06
ADORA2A	0.73	3.77E-12	0.78	1.45E-11
SFPQ	-0.48	3.80E-12	-0.55	1.30E-13
SMARCAL1	-0.39	3.91E-12	-0.51	8.16E-22
TNK1	-0.70	3.95E-12	-0.46	1.89E-05
PSMG1	-0.82	3.98E-12	-0.71	5.60E-12
HYDIN	1.66	3.99E-12	1.31	2.51E-04
UTP20	-0.82	3.99E-12	-0.65	3.52E-13
APOBEC1	-6.89	4.01E-12	-5.72	1.96E-24
SMC6	-0.60	4.07E-12	-0.55	3.73E-11
MPP1	0.82	4.15E-12	0.71	6.57E-08
TINF2	0.43	4.15E-12	0.33	6.56E-08
PHF14	-0.60	4.20E-12	-0.68	1.98E-20
MAP3K4	0.50	4.24E-12	0.40	3.16E-09
BIN2	0.86	4.38E-12	0.83	2.78E-08
POLD1	-0.70	4.39E-12	-0.47	7.39E-07
5-Mar	-0.51	4.45E-12	-0.52	6.65E-15
CNR1	1.42	4.48E-12	2.03	1.79E-14
SLC30A4	0.76	4.54E-12	0.49	6.05E-05

ITGAM	1.05	4.56E-12	0.77	1.16E-04
FRAS1	1.42	4.75E-12	2.02	5.94E-21
PPHLN1	-0.49	4.75E-12	-0.37	1.45E-08
CDKN1C	0.92	4.77E-12	1.04	6.08E-14
MFN1	-0.59	4.90E-12	-0.57	3.91E-14
ZNF384	-0.51	5.02E-12	-0.35	2.15E-08
CMAS	-0.74	5.08E-12	-0.60	2.98E-09
DOCK6	0.60	5.11E-12	0.65	1.02E-09
HLA-DOA	1.10	5.12E-12	1.23	1.67E-13
TWIST1	-2.29	5.16E-12	-2.31	3.29E-17
ADAMDEC1	-2.20	5.34E-12	-2.66	5.53E-14
SLC30A7	-0.48	5.45E-12	-0.58	8.56E-14
PYCR2	-0.59	5.48E-12	-0.42	1.22E-07
MRPS26	-0.88	5.51E-12	-0.54	1.13E-05
CEACAM8	2.69	5.57E-12	3.42	6.35E-10
FBL	-0.70	5.67E-12	-0.69	1.22E-15
SDC1	-0.94	5.71E-12	-0.72	6.86E-09
ZMYM2	-0.58	5.95E-12	-0.32	3.00E-04
S1PR5	1.36	5.96E-12	1.60	3.75E-15
LBR	-0.64	6.21E-12	-0.68	1.34E-14
PFN2	-1.54	6.29E-12	-1.27	8.83E-09
CRIPT	-0.74	6.38E-12	-0.66	1.11E-13
MSN	0.67	6.54E-12	0.53	1.75E-08
NFKBIZ	1.04	6.54E-12	1.30	3.25E-10
SLC30A2	-3.39	6.61E-12	-1.38	2.13E-03
WAS	0.80	6.69E-12	0.74	1.56E-08
ZNF622	-0.58	6.71E-12	-0.58	5.62E-10
PSMD1	-0.55	6.80E-12	-0.67	7.38E-25
PSMC6	-0.68	6.86E-12	-0.58	3.83E-13
MYD88	0.48	6.87E-12	0.37	3.42E-06
NPM1	-0.78	6.91E-12	-0.79	2.26E-15
CNOT3	-0.51	6.97E-12	-0.35	1.93E-05
ERBB3	-0.97	6.97E-12	-0.49	7.92E-05
WWP2	0.51	7.00E-12	0.46	4.57E-08
SIRPG	-1.50	7.06E-12	-1.62	1.10E-17
TMPO	-0.82	7.09E-12	-0.70	8.43E-09
DHX16	-0.50	7.18E-12	-0.43	8.82E-12
MLST8	-0.60	7.28E-12	-0.53	7.97E-18
MBTPS2	-0.54	7.32E-12	-0.82	3.82E-32
UBE2K	-0.56	7.36E-12	-0.50	5.74E-16
HSPA14	-0.64	7.37E-12	-0.60	1.22E-10
CD86	0.85	7.39E-12	0.65	2.33E-05
CLEC2D	-0.64	7.44E-12	-0.56	1.39E-10

HLA-DRA	1.03	7.53E-12	1.16	5.77E-12
MYBL1	-1.25	7.53E-12	-1.01	1.77E-07
HIST1H2BJ	-1.77	7.61E-12	-0.89	3.98E-04
DDX42	-0.48	7.70E-12	-0.36	5.23E-11
CRCP	-0.50	7.84E-12	-0.44	5.23E-11
DNAL1	0.56	7.88E-12	0.45	8.40E-06
TLE4	0.82	8.06E-12	0.93	4.09E-21
TRIM62	-0.58	8.08E-12	-0.56	2.69E-08
NOC4L	-0.63	8.63E-12	-0.49	3.29E-09
CARD6	0.77	8.64E-12	0.60	5.53E-09
NRBP1	-0.42	8.66E-12	-0.53	2.00E-22
LNX1	-1.00	8.77E-12	-0.67	5.31E-06
XPA	0.44	8.94E-12	0.43	5.65E-10
CCR1	0.95	9.03E-12	0.70	9.93E-06
ARID4A	0.54	9.05E-12	0.58	1.19E-11
HLA-DPA1	1.00	9.49E-12	1.12	5.74E-12
UMPS	-0.59	9.49E-12	-0.61	1.75E-15
GPRC5A	1.06	9.50E-12	1.56	1.04E-13
IMPDH2	-0.75	9.50E-12	-0.63	1.69E-12
CDX2	-6.09	9.56E-12	-4.16	7.23E-12
NFKBIA	0.80	9.64E-12	0.86	1.27E-08
UBE2F	-0.54	9.65E-12	-0.59	2.45E-15
ZNF74	-0.72	9.67E-12	-0.47	1.40E-06
EPHA1	-1.10	9.70E-12	-1.05	5.14E-12
DUSP19	0.76	9.73E-12	0.60	5.55E-05
PNMA5	-5.35	9.81E-12	-0.87	4.68E-02
SKI	0.56	9.84E-12	0.51	7.60E-10
GOLGA2	-0.58	1.02E-11	-0.46	5.98E-09
ZGPAT	-0.72	1.02E-11	-0.41	1.79E-09
PGM1	0.59	1.03E-11	0.43	5.61E-06
PRR5	-0.83	1.03E-11	-0.63	1.73E-09
HCFC2	0.52	1.04E-11	0.60	3.42E-11
CLDN14	-2.27	1.05E-11	-2.34	3.74E-19
SEC22B	-0.52	1.05E-11	-0.59	4.36E-17
UTP15	-0.53	1.05E-11	-0.68	1.44E-15
DFFB	-0.64	1.06E-11	-0.38	1.24E-04
MAN1B1	-0.53	1.10E-11	-0.43	4.13E-10
SGCE	0.97	1.14E-11	1.17	1.29E-14
AJAP1	1.69	1.16E-11	1.92	3.13E-09
RXRA	0.59	1.18E-11	0.77	3.36E-20
CRTAM	1.15	1.22E-11	1.21	9.37E-11
PDAP1	-0.61	1.26E-11	-0.59	1.29E-15
TDO2	-1.80	1.30E-11	-2.24	2.60E-18

SSSCA1	-0.69	1.32E-11	-0.64	5.74E-13
EDN3	2.74	1.33E-11	4.62	5.87E-31
OAS1	-1.29	1.36E-11	-0.76	1.22E-05
LETM1	-0.56	1.39E-11	-0.50	3.50E-10
FUS	-0.48	1.42E-11	-0.46	3.10E-12
INPPL1	-0.68	1.43E-11	-0.39	1.10E-05
PRIM1	-1.13	1.44E-11	-0.95	6.99E-11
CD24	-1.45	1.45E-11	-1.46	7.64E-14
ARF1	-0.51	1.46E-11	-0.45	7.54E-10
GRB14	-1.86	1.46E-11	-0.74	3.01E-03
HOXD3	-2.45	1.47E-11	-1.57	4.14E-05
CLDN9	-2.23	1.48E-11	-0.95	2.85E-03
DNAJC18	0.66	1.50E-11	0.55	4.69E-08
TBL3	-0.53	1.50E-11	-0.53	2.02E-13
AKT3	0.94	1.51E-11	0.85	1.59E-07
ATP6V0D1	0.52	1.62E-11	0.41	1.36E-06
ERCC2	-0.64	1.62E-11	-0.69	3.83E-14
HSPB1	-0.97	1.63E-11	-0.62	4.51E-06
HOXB8	-3.70	1.68E-11	-1.03	1.22E-02
HLA-DPB1	1.00	1.72E-11	1.17	2.74E-13
VTCN1	-2.86	1.72E-11	-2.14	3.73E-07
RPF2	-0.67	1.81E-11	-0.69	5.98E-13
APRT	-0.82	1.85E-11	-0.70	5.10E-14
GNB5	-0.55	1.89E-11	-0.55	2.25E-13
GORASP1	0.36	1.90E-11	0.41	3.20E-14
GAPT	1.03	1.92E-11	0.96	5.86E-08
ATP1A3	-2.34	2.06E-11	-1.17	2.05E-05
MGST1	-1.14	2.16E-11	-0.67	2.09E-06
COPG2	-0.66	2.28E-11	-0.70	5.13E-18
HDAC2	-0.63	2.28E-11	-0.76	1.30E-19
SLC35A1	0.68	2.28E-11	0.75	6.10E-11
DNAI2	2.39	2.36E-11	3.64	6.10E-16
CAMK2B	-3.27	2.42E-11	-0.94	1.38E-02
MKS1	-0.57	2.42E-11	-0.52	2.67E-08
FCGR1A	1.03	2.46E-11	1.00	2.30E-08
RUNX1	-0.63	2.55E-11	-0.69	7.62E-14
DLAT	-0.51	2.57E-11	-0.56	3.11E-12
C14orf169	-0.51	2.58E-11	-0.52	2.43E-10
WASF2	0.48	2.58E-11	0.38	1.16E-06
RHBDF1	-0.74	2.60E-11	-0.36	4.00E-03
HUS1	-0.50	2.63E-11	-0.48	3.45E-11
ASAH1	0.70	2.67E-11	0.89	1.52E-10
ASB6	-0.47	2.80E-11	-0.35	3.84E-08

AAAS	-0.50	2.81E-11	-0.36	1.06E-07
AK7	1.35	2.85E-11	1.77	4.23E-12
PIK3R3	0.81	2.87E-11	0.78	7.95E-07
MED17	-0.40	2.98E-11	-0.47	2.06E-13
F5	-2.44	2.99E-11	-1.53	1.72E-08
GLIPR1L2	1.12	3.06E-11	1.22	2.23E-14
LTA4H	0.69	3.06E-11	0.88	1.67E-12
ALOX12B	-2.59	3.12E-11	-1.44	5.53E-04
LRAT	-2.24	3.18E-11	-0.97	2.78E-04
FTO	0.52	3.19E-11	0.25	5.68E-03
CEP76	-0.70	3.26E-11	-0.56	1.80E-11
LFNG	-1.24	3.28E-11	-0.61	1.31E-03
CMA1	2.02	3.33E-11	1.84	2.21E-08
TIA1	-0.66	3.35E-11	-0.30	2.67E-03
YPEL4	0.97	3.35E-11	1.23	3.40E-18
FOXP1	0.57	3.40E-11	0.39	8.04E-07
CFHR3	-1.99	3.41E-11	-1.43	1.76E-07
STMN1	-1.14	3.43E-11	-0.95	1.98E-09
TRMT61B	-0.54	3.49E-11	-0.53	2.32E-12
MUS81	-0.49	3.52E-11	-0.30	1.48E-06
RNF157	-1.58	3.53E-11	-1.07	3.35E-06
FZD9	-2.65	3.56E-11	-0.88	3.36E-02
RET	-3.00	3.56E-11	-0.80	3.42E-03
SIGLEC6	1.55	3.61E-11	1.93	1.10E-19
CTSO	0.67	3.63E-11	0.61	1.10E-11
FCRL2	-2.00	3.64E-11	-2.00	3.52E-11
XRCC4	-0.66	3.71E-11	-0.74	1.14E-12
MFF	-0.70	3.79E-11	-0.48	4.18E-12
ELOVL4	-2.09	3.97E-11	-1.40	1.88E-07
LIN9	-0.74	3.97E-11	-0.76	6.69E-08
EIF4G1	-0.57	4.20E-11	-0.60	1.46E-12
ETS2	0.81	4.27E-11	0.96	1.92E-16
TTC7A	0.51	4.31E-11	0.53	3.12E-10
SUPT5H	-0.57	4.33E-11	-0.49	1.76E-11
CORO1B	-0.55	4.35E-11	-0.55	1.91E-12
PLA2G1B	2.04	4.43E-11	4.76	1.27E-34
HAX1	-0.74	4.44E-11	-0.68	3.45E-12
PGK1	-0.82	4.46E-11	-0.99	3.38E-20
SRXN1	-1.71	4.46E-11	-0.92	2.12E-06
ARPC1A	-0.72	4.50E-11	-0.63	6.30E-16
EFEMP2	0.75	4.55E-11	0.71	9.13E-09
NPRL3	-0.52	4.61E-11	-0.39	8.29E-08
POU2AF1	-1.69	4.69E-11	-2.18	2.35E-17

CADM1	1.15	4.70E-11	1.66	2.95E-21
HTATIP2	-0.81	4.79E-11	-0.63	1.11E-08
UFD1L	-0.60	4.79E-11	-0.49	6.93E-11
RERG	1.04	4.80E-11	1.19	1.78E-15
MLEC	-0.69	5.03E-11	-0.36	3.43E-05
CBR3	-1.88	5.08E-11	-0.73	2.99E-04
HNRNPK	-0.30	5.33E-11	-0.35	7.60E-12
AMPD3	-0.71	5.46E-11	-1.07	2.01E-22
GABRA3	-5.97	5.62E-11	-2.76	2.62E-04
PRSS1	-6.10	5.62E-11	-3.48	2.96E-07
KDM6B	0.67	5.66E-11	0.65	4.45E-06
CMBL	-1.56	5.74E-11	-0.83	9.64E-05
VPS35	-0.44	5.85E-11	-0.54	1.26E-14
PDE1C	1.59	5.86E-11	2.31	1.62E-24
IL2RA	-1.41	5.94E-11	-1.93	4.35E-25
HIST1H2AC	-1.26	6.02E-11	-0.76	1.31E-05
PRKD1	0.98	6.21E-11	0.95	1.78E-09
HIST2H3C	-1.85	6.22E-11	-1.65	4.90E-05
KRAS	-0.77	6.41E-11	-0.61	3.95E-09
C4BPB	-2.62	6.60E-11	-0.98	2.55E-02
GRAP	0.75	6.65E-11	0.61	5.31E-05
ABHD12	-0.56	6.71E-11	-0.41	5.42E-06
TAZ	-0.63	6.75E-11	-0.28	4.84E-04
PTPRC	0.91	6.83E-11	0.83	2.59E-07
STOML2	-0.71	6.87E-11	-0.69	2.03E-15
PNN	-0.82	6.96E-11	-0.42	9.29E-09
NFIL3	0.65	7.09E-11	0.55	2.56E-06
EPHA8	-4.16	7.13E-11	-2.66	7.70E-07
GJA1	1.11	7.26E-11	1.02	5.49E-09
MLLT11	-1.92	7.28E-11	-1.22	6.79E-08
KRI1	-0.52	7.39E-11	-0.38	1.54E-07
SLCO1B1	-6.39	7.75E-11	-4.21	3.83E-20
TREML1	1.16	7.75E-11	1.47	2.82E-10
AKIRIN2	0.44	7.87E-11	0.37	3.56E-08
E2F4	-0.41	8.07E-11	-0.45	2.30E-14
SPINK4	-8.38	8.12E-11	-3.45	9.08E-09
SLAMF9	-2.01	8.18E-11	-2.05	1.62E-12
ZNHIT6	-0.73	8.50E-11	-0.68	1.27E-14
DMGDH	-2.12	8.55E-11	-1.04	2.43E-03
APOBEC4	2.14	8.64E-11	3.05	1.98E-12
ARMC4	1.88	8.74E-11	1.78	1.16E-07
MPP5	0.48	8.75E-11	0.46	2.37E-09
G6PD	-1.48	8.79E-11	-0.74	1.51E-05

WISP3	-3.93	8.79E-11	-1.49	9.40E-04
GIMAP2	0.82	8.85E-11	0.82	5.29E-08
PLEK	0.89	8.85E-11	0.68	5.44E-05
HERC4	-0.45	8.90E-11	-0.33	2.68E-06
PRKCG	-3.07	8.94E-11	-2.00	8.74E-07
BCL2L11	-0.55	8.96E-11	-0.70	3.83E-15
PYGB	-0.85	8.96E-11	-0.44	6.00E-06
LRCH2	1.23	9.13E-11	1.68	5.46E-20
DDX18	-0.43	9.18E-11	-0.49	2.03E-12
SLC30A1	-0.71	9.33E-11	-0.85	1.61E-15
FGF7	0.94	9.42E-11	0.59	2.20E-04
RP1	1.80	9.64E-11	2.34	6.98E-12
FCRL4	-2.34	9.75E-11	-3.64	9.58E-23
TXN	-1.02	1.01E-10	-0.76	2.18E-07
DPP10	-3.14	1.02E-10	-0.90	4.28E-02
FAT1	-1.13	1.02E-10	-1.44	2.73E-29
TBC1D10C	0.97	1.02E-10	1.33	1.39E-14
PARVB	0.71	1.03E-10	0.50	2.98E-06
PILRB	-1.07	1.07E-10	-0.35	2.66E-02
ECM1	-1.76	1.08E-10	-1.05	3.37E-09
RAB32	0.78	1.09E-10	0.41	6.71E-05
ZBP1	-1.32	1.09E-10	-0.97	2.80E-07
IGSF6	0.96	1.10E-10	0.76	3.43E-05
RASD1	-1.91	1.13E-10	-0.98	1.52E-04
TM9SF3	-0.48	1.13E-10	-0.55	7.68E-14
DNAI1	2.08	1.16E-10	3.00	3.27E-11
IFITM1	-1.19	1.18E-10	-0.50	1.85E-03
BLZF1	-0.47	1.19E-10	-0.58	4.21E-11
NOTCH3	-0.91	1.19E-10	-0.91	5.94E-13
PTK2	-0.54	1.19E-10	-0.42	5.01E-07
APOO	-0.72	1.20E-10	-0.83	3.12E-14
CLCN7	-0.61	1.22E-10	-0.41	3.55E-07
PLA2G4D	-1.96	1.23E-10	-1.03	1.98E-04
ZNF335	-0.54	1.28E-10	-0.37	3.34E-05
PRELID1	-0.63	1.31E-10	-0.67	5.31E-18
ADNP	-0.47	1.32E-10	-0.53	9.32E-15
MKRN1	-0.41	1.32E-10	-0.35	3.32E-08
OAS3	-1.02	1.35E-10	-0.75	1.27E-07
SUV39H1	-0.73	1.38E-10	-0.69	4.70E-13
PLS1	-0.78	1.40E-10	-0.73	9.87E-10
FBXW2	0.41	1.41E-10	0.45	1.35E-13
MEOX2	1.14	1.42E-10	0.88	2.32E-06
CBFA2T3	1.07	1.46E-10	1.32	2.39E-15

LAG3	-1.44	1.52E-10	-0.86	4.46E-05
RFT1	-0.48	1.52E-10	-0.47	1.79E-12
HEBP2	-0.76	1.55E-10	-0.85	1.62E-17
SH3PXD2B	-0.89	1.55E-10	-1.10	4.94E-14
PIM2	-0.99	1.58E-10	-0.86	3.17E-08
RNF125	0.75	1.58E-10	0.63	1.96E-07
MGAM	1.57	1.61E-10	1.29	7.77E-06
TAX1BP1	-0.53	1.61E-10	-0.49	1.29E-09
PPIA	-0.62	1.65E-10	-0.52	1.87E-09
PARG	-0.45	1.66E-10	-0.42	1.57E-09
UBE2W	-0.70	1.68E-10	-0.61	2.22E-10
TSPAN2	0.91	1.69E-10	0.79	5.46E-06
ECD	-0.39	1.71E-10	-0.43	1.98E-11
CGB5	-4.82	1.73E-10	-2.54	6.32E-05
PARK7	-0.55	1.73E-10	-0.52	6.81E-13
HOXA1	-2.23	1.74E-10	-1.16	1.11E-05
MAGEC1	-7.94	1.74E-10	-4.80	8.98E-18
IL17RA	0.51	1.78E-10	0.43	8.22E-07
DCLRE1A	-0.69	1.81E-10	-0.65	1.02E-12
CD59	0.69	1.84E-10	0.68	5.36E-10
TEAD3	-0.62	1.84E-10	-0.37	7.58E-05
FGF14	0.99	1.86E-10	1.04	9.89E-07
PPP6C	0.36	1.95E-10	0.32	1.31E-08
AMACR	-1.01	1.96E-10	-0.80	1.32E-12
FTCD	-3.11	2.00E-10	-1.21	3.05E-03
PRKCSH	-0.46	2.02E-10	-0.44	1.30E-08
TSHR	-2.45	2.03E-10	-1.92	3.21E-09
CASP8	-0.54	2.08E-10	-0.46	8.10E-10
CCT2	-0.86	2.09E-10	-0.88	9.62E-12
CCDC151	1.50	2.10E-10	1.63	5.63E-06
ASCC2	-0.55	2.15E-10	-0.39	1.04E-06
CBR1	-1.84	2.16E-10	-0.48	9.49E-03
IDH1	-0.88	2.17E-10	-0.83	2.51E-11
DDR2	1.03	2.28E-10	0.83	6.05E-06
AK1	0.94	2.31E-10	1.56	3.63E-29
MYLK3	1.42	2.35E-10	1.71	2.00E-08
PAX7	-6.59	2.39E-10	-4.99	7.47E-12
RBM19	-0.51	2.39E-10	-0.29	9.72E-05
RARRES2	0.97	2.42E-10	0.85	2.05E-07
TNFRSF17	-1.72	2.42E-10	-1.87	1.27E-10
DFFA	-0.50	2.44E-10	-0.50	3.65E-15
CEACAM3	1.17	2.46E-10	1.22	7.46E-09
HIST2H2AC	-1.38	2.47E-10	-0.74	4.56E-04

KRT17	-2.70	2.48E-10	-1.46	2.67E-04
DOCK3	-1.75	2.54E-10	-0.72	4.55E-03
WNT10A	-1.91	2.60E-10	-1.30	2.81E-08
PGF	-1.55	2.66E-10	-1.60	8.73E-12
MC4R	-2.60	2.68E-10	-2.32	1.75E-10
MTOR	-0.47	2.72E-10	-0.57	2.85E-14
ELK4	-0.63	2.77E-10	-0.63	1.48E-13
TPR	-0.53	2.81E-10	-0.47	1.93E-11
CPNE5	-1.28	2.89E-10	-1.61	4.39E-19
ANKRD36B	-1.08	2.91E-10	-0.71	1.43E-05
TRIM6	-1.26	2.91E-10	-1.00	2.85E-07
FAM47E	0.92	2.92E-10	1.42	7.58E-15
SRPK2	-0.49	2.92E-10	-0.63	2.18E-16
SENPI	-0.52	2.98E-10	-0.51	5.70E-09
CADM3	1.32	2.99E-10	1.03	2.17E-05
APOC2	1.34	3.05E-10	1.63	8.81E-12
AIF1	0.83	3.08E-10	0.83	5.27E-08
ASB16	-1.07	3.22E-10	-0.59	8.95E-05
HIF1A	-0.75	3.26E-10	-0.99	7.96E-18
RAD1	-0.60	3.26E-10	-0.41	2.34E-07
CLPB	-0.64	3.27E-10	-0.68	3.32E-13
UBD	-1.86	3.28E-10	-1.28	7.99E-08
GGNBP2	-0.32	3.34E-10	-0.19	4.45E-04
NFATC2IP	-0.44	3.38E-10	-0.25	4.48E-05
PSMC2	-0.55	3.38E-10	-0.63	7.03E-20
LPO	-2.47	3.40E-10	-1.74	7.89E-07
DLEU1	-0.90	3.41E-10	-0.75	3.03E-08
TRPV3	-2.21	3.44E-10	-1.40	1.63E-08
TMCO6	-0.56	3.46E-10	-0.40	2.62E-05
NF1	-0.59	3.49E-10	-0.57	7.11E-13
TLX1	-5.14	3.53E-10	-3.28	4.22E-09
CS	-0.46	3.56E-10	-0.39	4.25E-07
TNFRSF10A	-0.81	3.64E-10	-0.81	9.72E-09
ACLY	-0.54	3.66E-10	-0.63	5.15E-17
RAVER1	-0.52	3.66E-10	-0.48	2.05E-10
NLRP11	-4.23	3.72E-10	-1.29	7.89E-04
IKZF2	-0.75	3.88E-10	-0.71	4.96E-11
CAND1	-0.59	3.95E-10	-0.71	2.43E-11
SEC14L2	-1.11	3.96E-10	-0.94	1.23E-07
ASPH	-1.23	4.04E-10	-0.79	3.60E-07
TNC	-1.72	4.12E-10	-1.42	1.21E-07
LTBR	-0.69	4.15E-10	-0.45	7.50E-06
TMPRSS6	-2.55	4.20E-10	-0.75	4.94E-02

IGHMBP2	-0.53	4.22E-10	-0.34	1.13E-05
PPID	-0.46	4.64E-10	-0.55	2.38E-13
GOLT1B	-0.78	4.68E-10	-0.70	4.57E-12
KLF15	1.28	4.68E-10	2.11	2.39E-17
CD27	-1.28	4.82E-10	-1.36	5.47E-12
MRPL28	-0.56	4.91E-10	-0.49	3.35E-11
RASAL2	0.60	4.91E-10	0.46	1.14E-05
PPP1CA	-0.52	5.07E-10	-0.48	3.07E-10
SUMO1	-0.48	5.21E-10	-0.40	3.33E-09
MUC2	-6.52	5.37E-10	-2.27	1.47E-04
PDCD6IP	0.33	5.43E-10	0.29	2.02E-07
CHRD	-1.71	5.50E-10	-0.44	3.24E-02
COL2A1	-6.38	5.50E-10	-1.48	1.61E-02
NPTX2	-2.15	5.51E-10	-1.87	2.72E-07
SUPT16H	-0.51	5.55E-10	-0.56	1.82E-12
COG5	-0.49	5.56E-10	-0.59	1.19E-15
ADA	-0.99	5.65E-10	-0.94	2.43E-09
F2	-7.40	5.68E-10	-2.07	2.52E-04
DENND4C	0.49	5.72E-10	0.60	2.47E-14
CUZD1	-1.92	5.76E-10	-0.39	1.01E-02
EIF5A	-0.68	5.99E-10	-0.59	1.54E-11
RNASE10	-2.71	5.99E-10	-2.49	9.12E-10
RNF39	-1.47	6.10E-10	-1.00	3.51E-05
ENPP3	-2.45	6.24E-10	-1.01	1.57E-02
ACOT1	0.68	6.27E-10	0.87	3.22E-12
TWIST2	1.12	6.38E-10	1.32	3.20E-15
ABI2	0.46	6.39E-10	0.50	7.10E-09
ACVR1	-0.48	6.61E-10	-0.55	2.11E-15
SEMA3A	-1.85	6.64E-10	-1.37	3.01E-06
COPS8	-0.46	6.66E-10	-0.56	4.61E-16
SSR2	-0.65	6.67E-10	-0.59	1.32E-12
KLHL6	0.89	6.91E-10	1.02	6.57E-10
MCAM	0.79	6.99E-10	0.41	2.07E-02
CAPN1	-0.52	7.03E-10	-0.49	1.74E-10
MYO1E	-0.83	7.07E-10	-0.99	6.50E-13
FBXO22	-0.55	7.13E-10	-0.60	1.90E-11
SMYD3	-0.76	7.19E-10	-0.68	1.82E-09
RBBP8	-0.67	7.24E-10	-0.64	1.06E-12
SLC9A3	-2.85	7.24E-10	-1.19	5.70E-04
GPR179	-1.42	7.65E-10	-0.87	2.76E-05
KIF3C	-1.10	7.74E-10	-1.18	9.91E-10
DAXX	-0.40	7.83E-10	-0.36	3.34E-09
SOD1	-0.67	7.90E-10	-0.47	5.44E-08

ATMIN	-0.40	8.02E-10	-0.48	3.30E-18
HOXB3	-1.49	8.05E-10	-0.72	3.76E-04
ATOH7	-2.28	8.17E-10	-1.33	1.74E-03
CEACAM6	-1.61	8.17E-10	-1.05	5.62E-04
DPP9	-0.56	8.28E-10	-0.45	3.80E-08
PRAP1	-5.30	8.48E-10	-1.68	1.20E-04
HAVCR2	0.83	8.58E-10	0.65	5.74E-05
SF3B2	-0.38	8.63E-10	-0.35	1.26E-09
C1QBP	-0.78	8.78E-10	-0.69	3.48E-13
RNF44	-0.47	8.83E-10	-0.43	1.22E-07
IER3	-1.14	8.92E-10	-1.20	4.79E-09
SIKE1	-0.46	9.04E-10	-0.43	1.33E-10
RAB3A	-0.87	9.14E-10	-0.83	1.99E-06
GPR39	-1.08	9.21E-10	-0.64	2.22E-04
C5orf30	-0.84	9.33E-10	-0.56	2.80E-05
ENO2	-0.99	9.58E-10	-0.54	1.22E-03
HECTD3	-0.40	9.67E-10	-0.31	1.23E-05
DNM1	-1.16	9.76E-10	-1.24	5.35E-10
BBC3	-0.77	9.79E-10	-0.53	3.52E-06
CDK8	-0.67	9.87E-10	-0.64	1.66E-17
MOSPD2	0.51	9.88E-10	0.34	2.39E-05
CSNK1D	-0.37	9.89E-10	-0.30	5.99E-06
NUP93	-0.41	9.92E-10	-0.48	8.83E-11
SRP72	-0.50	1.01E-09	-0.54	3.24E-15
TM4SF5	-8.01	1.02E-09	-1.90	8.40E-04
EPS15	0.31	1.03E-09	0.22	1.49E-05
PLCL2	0.74	1.05E-09	0.63	5.70E-07
COG1	-0.48	1.06E-09	-0.51	4.75E-14
GALR2	-2.26	1.06E-09	-1.38	1.15E-05
TNFRSF9	-1.54	1.06E-09	-1.64	2.30E-11
PDS5A	-0.43	1.09E-09	-0.36	9.69E-11
CENPJ	-0.78	1.12E-09	-0.47	5.61E-05
DVL1	-0.69	1.13E-09	-0.41	4.89E-05
SLC6A17	-2.45	1.14E-09	-2.66	1.28E-09
CYSLTR2	0.93	1.16E-09	0.79	3.04E-05
RIT1	-0.67	1.16E-09	-0.37	1.68E-04
TTC8	-0.55	1.16E-09	-0.47	5.17E-09
MCL1	0.51	1.18E-09	0.37	5.16E-05
RCAN3	-0.55	1.18E-09	-0.68	7.73E-13
SETD3	0.36	1.18E-09	0.46	5.22E-16
TNFSF12-TNFSF13	1.03	1.19E-09	1.21	7.11E-08
ARPC2	0.36	1.20E-09	0.17	1.62E-02
FCGR2A	0.75	1.20E-09	0.63	2.48E-05

RAB10	-0.51	1.20E-09	-0.54	1.67E-13
TARDBP	-0.30	1.21E-09	-0.29	2.68E-09
POU6F2	-4.05	1.22E-09	-2.20	1.06E-03
TRPC3	1.34	1.22E-09	1.57	8.83E-13
IL12RB2	-1.92	1.27E-09	-1.23	1.51E-06
SREBF2	0.53	1.27E-09	0.70	2.51E-14
PPP2R5D	-0.42	1.29E-09	-0.39	2.03E-10
SNX10	0.83	1.29E-09	0.76	7.73E-08
OXA1L	-0.45	1.30E-09	-0.36	2.51E-07
SERPINE2	-1.22	1.31E-09	-1.48	2.23E-11
GSR	-1.06	1.32E-09	-0.70	3.70E-06
APBB1IP	0.75	1.33E-09	0.67	4.57E-06
MEIS2	0.73	1.33E-09	0.78	5.12E-08
MUC16	-2.88	1.34E-09	-3.31	3.01E-07
APC2	-1.49	1.35E-09	-0.77	4.35E-04
C15orf41	-0.68	1.36E-09	-0.78	5.77E-13
NUP133	-0.41	1.36E-09	-0.45	2.66E-09
RAB38	-1.02	1.36E-09	-0.73	1.36E-05
MSRA	0.66	1.38E-09	0.67	2.38E-08
CPPED1	0.65	1.41E-09	0.62	1.14E-10
FAM184A	1.11	1.41E-09	1.97	1.51E-20
STYX	-0.48	1.42E-09	-0.51	3.10E-16
TNFRSF6B	-1.90	1.43E-09	-1.30	5.51E-08
TRAF6	0.39	1.45E-09	0.39	1.57E-07
DYSF	0.76	1.46E-09	0.50	2.68E-03
SETD1A	-0.49	1.46E-09	-0.43	1.41E-06
CA2	1.35	1.50E-09	2.40	9.67E-31
PIP5K1A	-0.52	1.53E-09	-0.51	1.44E-07
OPA1	-0.52	1.56E-09	-0.57	7.17E-15
PACS1	-0.58	1.56E-09	-0.51	9.35E-11
SIAH2	-0.52	1.57E-09	-0.47	2.01E-09
IL17RD	-1.31	1.58E-09	-1.44	6.10E-12
SLC39A14	-0.87	1.60E-09	-1.05	1.36E-13
SNRPD3	-0.47	1.66E-09	-0.31	2.28E-05
PTK7	-0.81	1.67E-09	-0.57	6.37E-08
STAT1	-0.83	1.69E-09	-0.79	3.31E-10
ST3GAL6	0.83	1.70E-09	1.07	2.72E-14
RPGRIP1	-1.07	1.71E-09	-0.33	3.99E-02
SUN1	-0.52	1.71E-09	-0.42	3.07E-07
CPNE1	-0.74	1.72E-09	-0.49	7.60E-08
OSMR	-0.97	1.72E-09	-1.00	1.86E-11
POLR2I	-0.75	1.72E-09	-0.59	2.39E-10
TXLNA	-0.38	1.72E-09	-0.40	1.12E-10

DENND1B	-0.70	1.75E-09	-0.70	4.85E-09
SLC2A3	1.02	1.76E-09	1.14	8.76E-12
ELK1	-0.42	1.77E-09	-0.57	8.45E-18
PELP1	-0.55	1.79E-09	-0.42	3.18E-07
KDSR	0.39	1.80E-09	0.33	7.04E-08
ATP13A2	-0.56	1.84E-09	-0.61	1.42E-11
THEM4	-0.66	1.84E-09	-0.50	3.15E-06
ZNF282	-0.47	1.84E-09	-0.41	3.67E-07
MAGEA3	-8.08	1.85E-09	-4.40	1.10E-08
RAI14	-0.80	1.87E-09	-0.50	1.66E-05
PON2	-0.83	1.88E-09	-0.58	1.14E-05
HSPA1B	-0.92	1.93E-09	-0.61	9.45E-08
TEX10	-0.57	1.93E-09	-0.59	2.08E-13
TOP1	-0.54	1.96E-09	-0.64	7.49E-10
BACE1	0.52	1.99E-09	0.44	3.23E-05
HSPA6	-1.43	1.99E-09	-0.47	1.71E-02
RASSF5	0.61	2.01E-09	0.54	7.95E-07
TRPM1	2.23	2.02E-09	3.09	4.83E-21
HIST1H3E	-1.71	2.04E-09	-1.04	3.23E-04
SNAI3	0.76	2.04E-09	0.76	1.76E-06
PLN	1.09	2.09E-09	0.57	3.65E-02
AGA	-0.88	2.10E-09	-0.65	1.62E-08
HOXA13	-6.27	2.10E-09	-3.76	2.90E-12
ETV7	-1.00	2.11E-09	-0.61	1.74E-05
SUMO2	-0.51	2.12E-09	-0.49	2.87E-12
PEX6	-0.80	2.14E-09	-0.44	8.12E-06
ABCF3	-0.39	2.18E-09	-0.36	1.43E-09
NCKAP1	-0.45	2.19E-09	-0.46	3.16E-10
STEAP3	-0.92	2.22E-09	-0.93	3.98E-12
PSPC1	-0.44	2.25E-09	-0.29	2.74E-04
MAGEA6	-7.84	2.42E-09	-4.54	8.23E-10
DERL2	-0.56	2.43E-09	-0.44	1.71E-06
PVALB	1.44	2.43E-09	1.28	2.39E-05
CITED2	0.85	2.47E-09	1.11	3.35E-19
SLC46A2	1.52	2.47E-09	3.29	3.48E-31
LEF1	-0.91	2.50E-09	-0.93	3.84E-11
NUAK2	-0.83	2.52E-09	-0.65	4.04E-06
C3AR1	0.81	2.61E-09	0.56	4.26E-04
MAGEA12	-7.40	2.66E-09	-3.35	1.34E-06
MAK	1.18	2.72E-09	1.33	1.22E-08
ABCC9	0.99	2.74E-09	0.96	3.14E-13
WWTR1	0.68	2.74E-09	0.68	1.89E-09
BANK1	0.86	2.78E-09	0.86	8.34E-09

USP5	-0.47	2.82E-09	-0.45	8.14E-10
COL4A3BP	0.49	2.84E-09	0.46	1.92E-10
SCIN	-1.74	2.84E-09	-0.64	2.68E-02
FCGRT	0.64	2.91E-09	0.83	1.91E-15
TALDO1	-0.87	2.91E-09	-0.60	1.04E-05
TGDS	-0.56	2.97E-09	-0.56	2.65E-08
HABP2	-2.33	3.03E-09	-1.03	2.09E-02
MGAT2	-0.52	3.03E-09	-0.56	2.98E-17
SMARCA5	0.40	3.07E-09	0.27	2.32E-06
GUCY2C	-3.05	3.15E-09	-1.05	1.07E-04
MMP7	-1.94	3.15E-09	-1.48	4.61E-07
PSME2	-0.67	3.16E-09	-0.53	1.79E-10
UTP18	-0.45	3.17E-09	-0.55	6.18E-14
KLRG1	0.76	3.20E-09	0.73	5.15E-06
SUGT1	-0.49	3.24E-09	-0.45	8.33E-09
S100A4	1.07	3.26E-09	1.56	3.76E-16
LAMB3	-1.10	3.27E-09	-0.89	6.11E-06
MAP7	-0.70	3.28E-09	-0.64	1.64E-11
TRIM65	-0.52	3.31E-09	-0.38	5.95E-08
PI15	-1.82	3.34E-09	-1.91	5.90E-11
EPHB1	-1.93	3.42E-09	-1.54	2.94E-09
GTF3A	-0.78	3.48E-09	-0.54	2.28E-10
PTK2B	0.59	3.48E-09	0.72	5.79E-13
VHL	-0.46	3.53E-09	-0.50	2.81E-11
PPP2R5A	0.57	3.58E-09	0.81	1.70E-16
KRT1	1.78	3.59E-09	2.56	6.27E-31
PCSK9	1.63	3.63E-09	3.27	2.53E-28
SETX	0.38	3.64E-09	0.27	1.07E-05
NR1I3	-0.87	3.70E-09	-0.58	5.01E-04
ADORA2B	-0.98	3.74E-09	-0.78	1.22E-06
CDKN2C	-0.81	3.74E-09	-0.72	1.25E-09
KCMF1	-0.45	3.77E-09	-0.43	2.81E-12
NCF1C	1.00	3.79E-09	1.04	6.40E-10
CCBE1	1.57	3.82E-09	2.71	4.76E-26
CLCN4	0.85	3.87E-09	0.77	5.90E-08
IL12RB1	0.87	3.87E-09	1.05	3.65E-10
COL4A3	1.30	3.97E-09	3.19	9.69E-28
CLEC4A	0.88	4.07E-09	0.71	7.01E-06
STRADA	-0.38	4.20E-09	-0.24	3.56E-05
GRIN3B	1.65	4.23E-09	1.32	5.74E-03
MGP	0.90	4.23E-09	1.17	1.27E-13
INCA1	0.73	4.26E-09	1.32	5.13E-28
RP9	-0.55	4.27E-09	-0.46	2.42E-06

HIST2H2BE	-1.17	4.41E-09	-0.44	1.37E-02
MAP1LC3C	1.36	4.44E-09	1.84	4.11E-13
HIST1H3G	-2.89	4.48E-09	-1.80	5.90E-05
EZHI	0.45	4.56E-09	0.68	1.81E-19
CYCS	-0.69	4.61E-09	-0.73	3.34E-13
KCNE2	-1.32	4.62E-09	-0.95	2.00E-05
TMEM131	-0.42	4.71E-09	-0.44	9.32E-10
ABCC5	-0.89	4.79E-09	-0.43	8.08E-04
ADIPOR2	0.51	4.99E-09	0.56	4.28E-10
SOD3	0.90	5.13E-09	1.21	2.38E-16
FGF5	-4.30	5.14E-09	-3.47	7.16E-10
SYTL1	-0.95	5.18E-09	-0.42	2.37E-03
PDPN	1.11	5.25E-09	1.22	6.32E-11
PNKD	-0.71	5.25E-09	-0.33	8.86E-03
MTF2	-0.51	5.28E-09	-0.36	5.42E-07
CTBP1	-0.42	5.49E-09	-0.28	2.28E-05
EXOSC3	-0.53	5.63E-09	-0.49	1.16E-08
GM2A	0.57	5.63E-09	0.24	4.38E-02
RPLP0	-0.78	5.64E-09	-0.60	3.60E-09
TSC22D3	0.87	5.68E-09	0.95	6.05E-13
NFKBIE	-0.66	5.71E-09	-0.63	1.67E-09
SATB1	0.76	5.71E-09	0.81	6.94E-10
PARK2	1.06	5.73E-09	1.27	5.84E-26
EDNRA	0.80	5.76E-09	0.55	2.15E-04
GALNT3	-1.02	5.82E-09	-0.70	9.61E-05
ID2	0.77	5.83E-09	1.03	5.92E-12
GABRD	-1.33	5.84E-09	-1.36	4.51E-09
TRIM25	0.51	5.85E-09	0.74	1.11E-17
VDR	-0.81	5.92E-09	-0.90	7.38E-13
DHX8	-0.35	5.93E-09	-0.51	6.26E-15
INPP1	0.59	6.00E-09	0.59	1.44E-08
DSG3	-4.81	6.05E-09	-2.07	3.14E-03
CALML5	-6.52	6.14E-09	-1.97	1.25E-03
GGH	-1.34	6.34E-09	-1.04	1.61E-08
NFIA	0.70	6.40E-09	0.92	7.22E-10
B4GALT1	-0.61	6.58E-09	-0.60	1.75E-10
MPHOSPH8	0.44	6.72E-09	0.48	2.01E-13
FOXQ1	-1.72	6.79E-09	-0.76	1.81E-02
SPEF2	0.96	6.82E-09	1.10	4.70E-08
DEDD	-0.34	6.85E-09	-0.31	5.38E-05
NR1D1	-0.93	6.95E-09	-0.76	2.04E-08
TIGIT	-1.12	7.03E-09	-1.29	6.60E-14
CDCP1	-1.02	7.06E-09	-1.15	2.63E-15

SCHIP1	0.72	7.10E-09	0.87	3.92E-14
PDE3B	0.93	7.14E-09	1.27	5.88E-18
CBS	-1.32	7.29E-09	-0.78	4.18E-05
IL10RA	0.71	7.34E-09	0.57	6.33E-05
BECN1	-0.35	7.40E-09	-0.32	1.18E-08
SLC2A11	-0.61	7.90E-09	-0.28	1.97E-02
TMEM39A	-0.45	7.91E-09	-0.48	1.15E-10
SCD	0.80	7.95E-09	1.04	5.45E-12
PELI3	0.51	8.10E-09	0.53	2.71E-08
LILRB1	0.80	8.11E-09	0.72	6.70E-06
SLC28A1	-2.18	8.13E-09	-2.00	2.55E-06
TGM2	0.76	8.15E-09	0.71	2.15E-06
PLP2	-0.78	8.31E-09	-0.78	1.51E-11
BAZ1B	-0.47	8.41E-09	-0.57	5.69E-15
PRNP	0.59	8.58E-09	0.44	3.81E-07
TSN	-0.48	8.83E-09	-0.53	3.80E-10
SERPINB6	0.50	8.87E-09	0.53	1.74E-08
PGAM1	-0.52	8.96E-09	-0.67	8.57E-18
SLC18A3	-7.05	8.96E-09	-2.17	2.84E-05
CLCF1	-1.11	9.02E-09	-1.02	4.28E-06
RAI1	-0.65	9.09E-09	-0.37	2.00E-04
IVNS1ABP	-0.48	9.27E-09	-0.43	1.25E-07
KCNQ1OT1	-1.00	9.42E-09	-0.53	2.61E-05
STK36	-0.67	9.44E-09	-0.36	1.54E-04
SFN	-1.08	9.56E-09	-1.22	1.06E-07
RNF213	-0.70	9.59E-09	-0.53	3.89E-06
ELMO1	0.83	9.70E-09	1.11	1.51E-20
ACTBL2	-1.97	9.99E-09	-1.76	4.91E-06
OTUB1	-0.43	9.99E-09	-0.29	3.55E-06
CYP26A1	-2.84	1.01E-08	-1.55	1.08E-02
MPG	-0.70	1.01E-08	-0.54	1.12E-09
COX10	-0.44	1.02E-08	-0.39	2.59E-08
PARN	-0.52	1.05E-08	-0.38	1.31E-07
PKD2	0.54	1.06E-08	0.45	2.28E-07
PSMA6	-0.88	1.07E-08	-0.63	2.62E-08
OGT	-0.74	1.09E-08	-0.31	2.66E-03
GNAS	-0.59	1.10E-08	-0.43	3.68E-07
MAMSTR	-1.25	1.10E-08	-0.55	7.32E-03
MAP2K6	-1.35	1.13E-08	-0.69	9.83E-04
RPS6KA1	0.47	1.15E-08	0.50	5.97E-10
PIK3AP1	0.76	1.18E-08	0.50	1.14E-03
KCTD1	-0.86	1.21E-08	-0.75	8.73E-07
MDC1	-0.59	1.21E-08	-0.48	6.26E-08

AIMP1	-0.37	1.23E-08	-0.29	4.40E-06
ZMPSTE24	-0.45	1.25E-08	-0.53	2.51E-12
CCL18	1.23	1.35E-08	0.74	8.84E-03
CLEC9A	1.28	1.35E-08	1.35	5.86E-08
HLA-DRB1	0.97	1.36E-08	1.21	2.90E-13
SGCD	0.92	1.37E-08	0.77	2.52E-05
USO1	-0.38	1.39E-08	-0.38	2.97E-08
PRKACA	0.29	1.41E-08	0.23	6.37E-05
XPC	0.43	1.42E-08	0.45	8.73E-11
ACVR2B	-0.72	1.43E-08	-0.47	1.99E-05
ZNF521	0.83	1.45E-08	0.46	3.52E-03
HTATSF1	-0.43	1.47E-08	-0.40	1.42E-11
ARG2	-0.95	1.50E-08	-0.66	5.28E-08
EDARADD	-1.27	1.50E-08	-1.03	3.70E-08
HERC3	0.53	1.52E-08	0.56	1.85E-12
RGS16	0.88	1.52E-08	0.88	9.42E-07
CCL7	-2.05	1.56E-08	-2.86	1.91E-16
DDX47	-0.48	1.56E-08	-0.39	2.02E-07
FNTB	-0.39	1.56E-08	-0.45	6.42E-14
HTRA2	-0.43	1.56E-08	-0.32	6.31E-07
PRKAA2	-1.28	1.56E-08	-0.95	6.06E-07
MAG	1.99	1.59E-08	3.40	8.39E-31
PAWR	-0.62	1.60E-08	-0.49	1.86E-05
GDF15	-1.47	1.62E-08	-0.72	3.50E-03
POFUT1	-0.46	1.62E-08	-0.51	2.73E-14
9-Mar	-0.70	1.66E-08	-0.43	1.86E-04
TRUB1	-0.56	1.67E-08	-0.67	3.05E-14
DEAF1	-0.60	1.68E-08	-0.43	1.98E-06
TRAF1	-0.74	1.68E-08	-0.74	3.25E-09
CCDC47	-0.44	1.70E-08	-0.40	2.58E-10
NUBP2	-0.60	1.70E-08	-0.44	2.46E-08
CGA	-8.26	1.71E-08	-1.25	4.65E-02
MAGEA8	-5.64	1.71E-08	-1.24	2.43E-02
DMD	0.88	1.76E-08	1.34	3.25E-16
NR3C1	0.54	1.78E-08	0.34	6.60E-05
STX4	-0.43	1.79E-08	-0.34	8.18E-06
KLC1	0.39	1.83E-08	0.42	8.23E-10
FMO1	-1.38	1.87E-08	-1.74	1.31E-11
MAPK6	-0.65	1.88E-08	-0.70	1.38E-13
FKTN	-0.44	1.89E-08	-0.52	1.96E-11
MACROD2	1.39	1.89E-08	2.31	2.10E-18
EGLN2	0.45	1.92E-08	0.64	3.97E-15
DOK3	0.65	2.02E-08	0.65	3.73E-06

RPIA	-0.50	2.02E-08	-0.34	2.94E-06
SPATS2L	-0.67	2.02E-08	-0.67	1.35E-09
DDX3X	0.36	2.05E-08	0.21	5.71E-03
C5orf42	-0.72	2.10E-08	-0.58	8.31E-07
FXR1	-0.44	2.12E-08	-0.46	5.38E-10
PRDX3	-0.56	2.14E-08	-0.58	6.19E-12
CYS1	1.31	2.19E-08	2.32	1.19E-28
XRCC6	-0.40	2.24E-08	-0.41	8.16E-10
PRDM6	0.80	2.26E-08	0.62	1.36E-04
SERPINA5	-2.42	2.26E-08	-1.15	5.82E-05
C1orf43	-0.57	2.28E-08	-0.51	2.70E-07
CDC73	-0.36	2.29E-08	-0.43	2.37E-10
KRT14	-3.85	2.30E-08	-3.12	7.82E-07
GPR143	-1.26	2.34E-08	-0.87	7.41E-05
PEX10	-0.49	2.34E-08	-0.36	5.07E-07
COX5A	-0.61	2.39E-08	-0.53	2.53E-09
TRIM22	0.68	2.40E-08	0.84	5.93E-11
A2ML1	-4.89	2.50E-08	-1.68	1.13E-03
CKLF	-0.73	2.55E-08	-0.81	4.22E-12
TGIF1	-0.60	2.56E-08	-0.53	6.58E-08
DEK	-0.50	2.57E-08	-0.55	4.47E-11
FSCN2	-1.20	2.64E-08	-0.38	3.55E-02
VAV2	-0.57	2.64E-08	-0.43	4.83E-05
TRPA1	-2.44	2.67E-08	-1.94	1.73E-07
GLMN	-0.65	2.76E-08	-0.61	1.81E-08
HSD11B1	0.90	2.76E-08	0.86	7.66E-08
NTRK2	1.65	2.78E-08	2.66	3.28E-22
CTAGE5	-0.68	2.81E-08	-0.47	1.49E-05
EDN2	-1.99	2.81E-08	-2.38	5.28E-16
PSMA3	-0.60	2.82E-08	-0.46	9.07E-07
TIMP2	0.65	2.84E-08	0.36	1.81E-03
RRP9	-0.50	2.90E-08	-0.49	3.78E-07
ATP6V1C1	-0.42	2.92E-08	-0.33	2.47E-06
FANCM	-0.66	2.92E-08	-0.54	1.89E-07
PEA15	0.40	2.94E-08	0.18	2.41E-02
G3BP1	-0.44	2.95E-08	-0.67	4.85E-24
NACA	-0.50	2.97E-08	-0.36	4.04E-06
BRAP	-0.33	3.01E-08	-0.26	6.05E-05
CHD4	-0.42	3.02E-08	-0.49	2.57E-10
SOX9	-1.53	3.02E-08	-1.00	3.44E-04
PRDX2	-0.68	3.08E-08	-0.58	6.14E-09
ANGPTL4	-1.67	3.10E-08	-1.43	3.96E-08
OASL	0.99	3.12E-08	1.43	5.12E-15

PRSS8	-0.82	3.20E-08	-0.29	1.66E-02
SCO2	-0.65	3.21E-08	-0.30	1.73E-03
UBE2J2	-0.43	3.21E-08	-0.34	2.13E-06
ZNRF2	-0.53	3.23E-08	-0.56	7.37E-12
PCCB	-0.50	3.40E-08	-0.43	2.46E-09
ITGA5	0.78	3.41E-08	0.49	1.02E-03
AKAP12	1.35	3.42E-08	1.30	1.57E-08
RAPGEF3	0.78	3.43E-08	1.24	2.44E-21
NR3C2	0.88	3.44E-08	1.33	6.50E-15
DEF6	-0.55	3.48E-08	-0.46	2.55E-05
CACNA1C	0.79	3.53E-08	0.62	4.77E-04
SMARCA1	-0.75	3.54E-08	-0.43	9.10E-04
HIC1	0.70	3.56E-08	0.56	1.48E-04
B4GALNT3	-1.08	3.57E-08	-0.50	5.66E-03
IRF6	-0.64	3.57E-08	-0.66	3.74E-08
FBXO2	-1.37	3.58E-08	-0.60	5.10E-03
MEF2B	-1.23	3.64E-08	-1.17	1.38E-05
FBXW5	-0.58	3.67E-08	-0.41	5.09E-06
ANAPC5	-0.40	3.68E-08	-0.30	4.39E-05
P2RX2	1.66	3.68E-08	2.92	8.74E-22
NACAP1	-0.51	3.69E-08	-0.24	1.81E-02
LCP2	0.64	3.75E-08	0.51	2.03E-04
CRNKL1	-0.39	3.81E-08	-0.43	4.07E-08
FAM161A	-0.71	3.84E-08	-0.59	6.36E-05
PRMT1	-0.49	3.85E-08	-0.41	1.34E-07
ZNF76	-0.49	3.87E-08	-0.18	2.41E-02
ARID3A	-0.90	3.94E-08	-0.47	1.07E-03
NR1H2	-2.33	3.97E-08	-0.52	4.36E-02
HLA-DRB5	1.17	4.02E-08	1.23	9.93E-13
NCF4	0.68	4.08E-08	0.69	1.30E-06
WNT9B	1.23	4.08E-08	0.76	5.46E-03
FURIN	-1.19	4.11E-08	-0.48	4.08E-03
MAPK10	1.06	4.11E-08	1.76	3.60E-18
DGAT2	-0.97	4.16E-08	-0.68	4.21E-05
ISL1	-4.00	4.20E-08	-1.40	3.25E-02
XIAP	-0.36	4.21E-08	-0.37	2.48E-11
TRADD	-0.58	4.24E-08	-0.43	2.72E-05
CHD7	-0.84	4.31E-08	-0.64	7.78E-07
PSMA2	-0.51	4.31E-08	-0.58	3.81E-12
RBM14	-0.31	4.37E-08	-0.25	1.19E-05
CDK2	-0.58	4.40E-08	-0.52	5.13E-07
MET	-1.42	4.40E-08	-0.77	3.24E-04
ODF2	-0.48	4.51E-08	-0.40	1.84E-06

XPNPEP1	-0.36	4.59E-08	-0.47	4.24E-11
HSD3B7	-0.70	4.62E-08	-0.76	9.40E-12
COL4A4	0.98	4.65E-08	1.99	2.90E-19
UBE2D1	-0.47	4.84E-08	-0.50	4.89E-12
USF1	-0.42	4.84E-08	-0.35	4.57E-05
IGFBP2	-1.66	4.85E-08	-0.91	2.95E-04
POLR3G	-0.95	4.92E-08	-0.71	6.63E-06
IPO7	-0.46	4.94E-08	-0.54	4.29E-11
RIF1	-0.60	4.95E-08	-0.73	4.08E-15
MEP1A	-2.08	5.00E-08	-0.95	1.47E-03
ARHGAP1	-0.41	5.09E-08	-0.45	3.51E-10
GSK3A	-0.38	5.09E-08	-0.45	1.17E-09
CANX	-0.45	5.23E-08	-0.56	1.42E-13
COL9A1	-2.46	5.23E-08	-1.51	7.23E-04
KCTD6	-0.56	5.24E-08	-0.33	5.69E-04
LAMA2	0.79	5.26E-08	0.68	5.44E-07
PLIN2	0.76	5.28E-08	0.73	3.81E-07
UNC13D	0.84	5.38E-08	1.25	4.39E-17
KRR1	-0.46	5.67E-08	-0.41	1.18E-07
SRCAP	-0.36	5.67E-08	-0.30	1.96E-07
RBM15	-0.37	5.70E-08	-0.28	7.29E-05
2-Mar	0.45	5.76E-08	0.45	1.13E-09
HAUS6	-0.57	5.83E-08	-0.46	6.60E-05
RNF2	-0.48	5.92E-08	-0.55	6.32E-10
NFE2L2	0.41	6.14E-08	0.43	9.20E-10
NFKBIL1	-0.53	6.17E-08	-0.30	5.05E-04
SPPL2B	-0.61	6.19E-08	-0.31	4.11E-04
TGFB2	1.01	6.36E-08	1.27	4.36E-08
WDR19	0.49	6.38E-08	0.69	3.81E-11
HSPA1A	-0.87	6.40E-08	-0.48	2.66E-05
LHX1	-5.92	6.46E-08	-3.61	2.31E-09
CRHR1	-3.99	6.52E-08	-2.05	1.63E-03
GSTZ1	-0.77	6.61E-08	-0.53	7.82E-06
PDHX	-0.45	6.65E-08	-0.31	1.62E-05
PLA2G3	1.55	6.74E-08	3.42	1.19E-21
CDAN1	-0.48	6.91E-08	-0.24	1.55E-02
CYLD	0.40	6.93E-08	0.27	8.93E-04
ACIN1	-0.45	7.02E-08	-0.27	1.64E-04
DLL4	0.67	7.15E-08	0.79	1.32E-08
COPS5	-0.56	7.18E-08	-0.33	6.44E-05
PTP4A2	-0.39	7.38E-08	-0.51	4.73E-12
NEU1	-0.64	7.60E-08	-0.30	3.48E-03
SCO1	-0.42	7.67E-08	-0.46	2.05E-10

HDAC3	-0.37	7.69E-08	-0.47	2.35E-12
CEP152	-0.72	7.71E-08	-0.33	1.17E-02
PXK	0.49	7.78E-08	0.31	2.57E-04
PMCH	-1.74	7.87E-08	-1.98	4.99E-08
OSBP	-0.33	7.92E-08	-0.33	5.91E-09
CCDC110	-1.04	8.01E-08	-0.80	7.11E-06
GALNT1	-0.52	8.04E-08	-0.67	1.12E-13
UBE2R2	-0.37	8.38E-08	-0.36	7.24E-09
RAB3D	-0.61	8.49E-08	-0.32	7.43E-04
PRPF31	-0.36	8.73E-08	-0.24	2.30E-04
TNFRSF1B	0.56	8.88E-08	0.47	1.55E-05
CLDN11	1.18	9.12E-08	1.98	2.00E-24
RHOG	0.36	9.14E-08	0.29	7.90E-05
TRNT1	-0.42	9.25E-08	-0.42	2.19E-06
MOBP	1.33	9.28E-08	1.32	1.65E-04
PRG2	-1.37	9.29E-08	-0.59	7.54E-03
RPL38	-0.68	9.34E-08	-0.52	3.08E-08
GFI1B	1.82	9.52E-08	2.37	2.32E-19
CLEC12B	1.24	9.64E-08	1.67	1.23E-07
MSX2	-1.41	9.67E-08	-1.17	4.22E-07
TAGAP	0.72	9.67E-08	0.51	5.48E-04
TRAF3IP2	0.42	9.71E-08	0.20	1.49E-02
PCGF2	-0.63	9.78E-08	-0.31	2.36E-03
UBE2E2	0.57	9.78E-08	0.56	2.45E-09
HNRNPA1L2	-0.39	9.86E-08	-0.37	6.42E-07
HPSE	-0.83	9.95E-08	-0.93	1.86E-15
IGFL1	-4.21	1.01E-07	-2.09	6.46E-04
TUB	0.89	1.01E-07	0.98	4.26E-07
CD79A	-1.41	1.02E-07	-2.11	1.80E-14
PLAT	-1.61	1.02E-07	-0.72	6.41E-03
SGK3	0.47	1.02E-07	0.49	5.32E-08
TLK2	-0.32	1.07E-07	-0.28	7.99E-06
HPS4	-0.38	1.08E-07	-0.18	6.59E-03
KHSRP	-0.38	1.09E-07	-0.38	1.29E-06
ESRRA	-0.52	1.10E-07	-0.23	9.93E-03
IFIT2	0.74	1.11E-07	0.81	4.64E-09
ELAVL4	-1.88	1.12E-07	-1.63	6.06E-06
PLEKHA5	-0.65	1.14E-07	-0.32	1.59E-02
PNOC	-1.35	1.15E-07	-1.99	1.35E-14
ATP8B1	-0.78	1.16E-07	-0.52	1.29E-06
GSC	-2.51	1.17E-07	-1.15	4.13E-03
RNF113A	-0.42	1.17E-07	-0.38	3.84E-07
SNAP23	0.32	1.17E-07	0.29	8.40E-06

WNT10B	-1.22	1.18E-07	-0.69	4.08E-03
ANKLE2	-0.43	1.19E-07	-0.25	1.95E-03
ITPR1	0.72	1.23E-07	0.74	1.11E-08
PPIC	-0.51	1.26E-07	-0.69	2.37E-15
VPS33B	-0.37	1.30E-07	-0.42	5.49E-10
DGCR8	-0.37	1.32E-07	-0.26	2.06E-04
NSDHL	-0.46	1.32E-07	-0.42	1.75E-07
CLEC10A	0.90	1.33E-07	1.04	1.67E-07
CEP120	0.38	1.34E-07	0.26	6.40E-04
LEPROT	0.54	1.34E-07	0.29	3.81E-03
LILRB2	0.77	1.34E-07	0.69	2.42E-05
STK4	0.37	1.34E-07	0.21	2.90E-03
RNF130	0.41	1.38E-07	0.33	1.89E-06
SEH1L	-0.50	1.40E-07	-0.43	8.33E-07
TP53BP1	-0.47	1.40E-07	-0.49	2.16E-09
PSENFEN	-0.70	1.41E-07	-0.57	5.21E-07
SLFN11	0.67	1.42E-07	0.89	3.85E-13
SLAMF7	-1.06	1.45E-07	-1.23	1.65E-08
GNB4	0.59	1.48E-07	0.41	1.07E-03
AKT1S1	-0.42	1.50E-07	-0.35	1.14E-05
IL6R	0.74	1.52E-07	1.08	7.52E-11
TP53	-0.67	1.53E-07	-0.63	9.66E-10
RPS19	-0.72	1.54E-07	-0.51	4.99E-06
OXT	-2.74	1.59E-07	-1.42	1.31E-03
DOK7	1.07	1.61E-07	2.14	8.87E-24
PLCG2	0.58	1.63E-07	0.44	1.13E-04
RNF31	-0.36	1.63E-07	-0.28	9.53E-06
GATAD1	-0.42	1.69E-07	-0.22	2.23E-03
HCFC1	-0.43	1.69E-07	-0.49	2.86E-10
MAPK4	1.72	1.69E-07	3.88	5.66E-28
TPTE	-3.35	1.71E-07	-1.42	8.40E-04
PSMD5	-0.37	1.74E-07	-0.39	1.76E-10
MRC2	0.66	1.77E-07	0.61	2.44E-05
EMG1	-0.66	1.80E-07	-0.45	3.85E-05
GCNT4	1.02	1.82E-07	1.36	5.00E-12
TROVE2	-0.35	1.82E-07	-0.34	2.58E-07
OFD1	-0.48	1.86E-07	-0.33	2.23E-05
RAD17	-0.34	1.86E-07	-0.35	7.23E-07
CC2D1A	-0.42	1.88E-07	-0.28	2.78E-04
SLC26A3	2.41	1.90E-07	1.37	6.82E-03
IRAK3	0.85	1.92E-07	0.81	3.09E-06
ZFAT	-0.66	1.93E-07	-0.40	4.41E-08
SLC6A12	0.99	1.95E-07	1.32	2.93E-12

DCLRE1C	-0.43	1.99E-07	-0.47	5.12E-09
NUP50	-0.36	2.00E-07	-0.39	8.35E-09
TNPO1	-0.38	2.01E-07	-0.51	5.45E-15
ICOS	0.85	2.03E-07	0.97	1.35E-06
NDP	-2.53	2.05E-07	-1.56	4.46E-05
FBXO6	-0.66	2.06E-07	-0.45	4.51E-05
SAA1	-2.15	2.09E-07	-1.57	3.64E-05
GABPB1	-0.35	2.14E-07	-0.38	1.83E-06
XPNPEP3	-0.50	2.15E-07	-0.47	1.97E-08
MMP25	0.79	2.16E-07	0.64	3.20E-04
RARA	0.47	2.16E-07	0.60	9.69E-09
PTPN2	-0.37	2.17E-07	-0.27	5.93E-04
PSAP	0.41	2.18E-07	0.24	4.18E-03
AGRN	-0.71	2.24E-07	-0.49	1.36E-04
BTD	0.47	2.24E-07	0.41	4.27E-05
PEPD	0.45	2.24E-07	0.39	3.81E-07
PTCH1	0.71	2.24E-07	0.93	7.05E-11
TMC6	-0.58	2.24E-07	-0.33	3.41E-03
1-Mar	0.67	2.30E-07	0.34	4.40E-02
ZNRF1	-0.46	2.30E-07	-0.41	1.08E-07
GBX2	-3.06	2.35E-07	-1.79	5.77E-04
CLGN	-1.87	2.36E-07	-0.91	1.33E-02
CYP26B1	0.98	2.38E-07	0.85	3.33E-04
EIF4A1	-0.44	2.60E-07	-0.43	1.29E-06
IL1R1	0.60	2.66E-07	0.64	1.48E-06
ERCC8	-0.46	2.69E-07	-0.56	8.36E-10
PATL1	-0.42	2.73E-07	-0.44	1.52E-09
ZNF565	-0.50	2.76E-07	-0.34	4.75E-04
NCSTN	-0.40	2.82E-07	-0.46	2.07E-10
NCOA1	0.44	2.83E-07	0.48	1.25E-07
GJB4	-2.54	2.85E-07	-1.52	1.00E-03
CBFA2T2	-0.51	2.92E-07	-0.27	4.84E-03
ASCC1	-0.42	2.98E-07	-0.41	9.25E-09
SOX13	0.65	3.01E-07	0.87	9.08E-11
ITCH	-0.34	3.03E-07	-0.40	3.42E-13
IL18RAP	0.93	3.04E-07	1.37	3.62E-12
RC3H1	0.34	3.05E-07	0.49	2.49E-13
SLCO4C1	1.15	3.05E-07	2.22	1.94E-20
TIAM1	0.73	3.09E-07	0.40	2.78E-02
ACTR3	-0.40	3.10E-07	-0.59	2.87E-15
RAP2B	-0.52	3.14E-07	-0.69	1.15E-14
ACTG1	-0.42	3.16E-07	-0.53	2.37E-12
IKZF1	0.69	3.16E-07	0.60	1.68E-05

KPNA3	0.39	3.16E-07	0.31	1.97E-06
OBSL1	-0.94	3.28E-07	-0.40	2.09E-03
IFRD2	-0.45	3.29E-07	-0.40	1.34E-05
ZNF638	-0.37	3.33E-07	-0.31	4.01E-06
DSCR3	0.31	3.34E-07	0.24	3.39E-05
KIR3DL1	1.61	3.37E-07	2.36	6.07E-13
RPS7	-0.78	3.43E-07	-0.50	1.26E-06
PTPRF	-0.51	3.47E-07	-0.54	3.08E-09
PPARD	-0.48	3.48E-07	-0.47	3.93E-06
LRBA	-0.49	3.50E-07	-0.47	5.86E-10
RBM38	-0.68	3.51E-07	-0.44	3.64E-04
SESTD1	0.55	3.51E-07	0.68	1.94E-11
ADSL	-0.53	3.54E-07	-0.56	2.30E-11
RGS10	-0.73	3.59E-07	-0.77	1.14E-11
AHSG	-3.63	3.62E-07	-2.35	7.14E-05
SLPI	1.29	3.66E-07	2.20	2.39E-12
ZNF746	-0.37	3.86E-07	-0.37	1.94E-08
JAK1	0.35	3.87E-07	0.19	8.47E-03
EGFL7	0.78	3.89E-07	1.36	3.08E-15
PRDM10	-0.37	3.93E-07	-0.28	2.69E-05
SIRT6	-0.45	3.94E-07	-0.35	8.97E-06
S100A11	-0.60	3.98E-07	-0.57	4.21E-08
CALCOCO2	0.32	3.99E-07	0.35	1.47E-08
PANK1	-0.74	4.00E-07	-0.51	1.19E-04
BSCL2	-0.50	4.06E-07	-0.31	3.00E-03
HNRNPA1	-0.39	4.07E-07	-0.33	2.60E-05
SEC23A	-0.63	4.14E-07	-0.67	2.22E-13
CRY1	0.45	4.17E-07	0.55	1.00E-07
PSMC1	-0.51	4.21E-07	-0.39	3.06E-07
TBXAS1	0.66	4.21E-07	0.68	6.48E-10
LTBP2	0.73	4.29E-07	0.54	4.71E-04
MSX1	0.91	4.30E-07	1.29	4.94E-12
SPG7	-0.44	4.32E-07	-0.24	9.22E-04
ZNF175	0.50	4.36E-07	0.52	4.79E-07
ATP6V0E2	-0.67	4.46E-07	-0.45	3.39E-05
NOS1	2.08	4.48E-07	4.21	1.63E-23
RPL39	-0.87	4.52E-07	-0.63	6.52E-09
PCSK5	0.87	4.55E-07	0.83	1.84E-08
MCAT	-0.45	4.56E-07	-0.31	2.87E-04
CD82	0.64	4.62E-07	0.49	2.22E-05
DEPDC5	-0.39	4.67E-07	-0.40	3.64E-05
ACAN	-1.39	4.72E-07	-1.79	1.42E-09
LITAF	0.40	4.76E-07	0.22	2.84E-03

GHRL	0.99	4.77E-07	0.98	1.30E-04
FZR1	-0.36	4.79E-07	-0.35	3.77E-07
UBE3C	-0.36	4.85E-07	-0.46	1.79E-11
UQCRCQ	-0.72	4.94E-07	-0.66	1.23E-10
DHX33	-0.56	4.97E-07	-0.60	8.08E-10
ADAMTS18	-1.76	4.98E-07	-2.49	1.16E-12
KRIT1	-0.38	5.17E-07	-0.23	6.93E-04
NDUFAF2	-0.64	5.17E-07	-0.63	3.89E-09
APOBEC3A	1.00	5.18E-07	1.09	1.34E-07
HLCS	-0.40	5.22E-07	-0.45	9.14E-11
FANCE	-0.57	5.25E-07	-0.39	9.63E-04
MAGEA11	-6.85	5.25E-07	-2.63	1.08E-07
CD320	-0.62	5.44E-07	-0.44	1.17E-04
PLAC8	1.09	5.51E-07	1.96	1.94E-14
PSMD13	-0.44	5.58E-07	-0.41	6.37E-08
SNX6	-0.59	5.58E-07	-0.53	7.29E-11
ZMYND11	0.35	5.70E-07	0.31	5.23E-06
AKR1A1	-0.44	5.78E-07	-0.45	2.34E-08
BCR	-0.49	6.00E-07	-0.38	1.62E-04
EDC3	-0.38	6.04E-07	-0.35	9.05E-10
CCDC114	1.20	6.08E-07	1.56	8.94E-07
GNB1L	-0.65	6.08E-07	-0.40	3.10E-03
RFX5	-0.41	6.11E-07	-0.37	5.24E-06
ZBTB46	0.56	6.18E-07	0.60	3.02E-06
CLNK	-1.55	6.24E-07	-1.43	2.31E-07
HDC	1.03	6.24E-07	1.60	9.57E-16
IRAK2	-0.81	6.36E-07	-1.04	3.08E-10
OLFM4	-4.63	6.47E-07	-1.62	6.66E-04
RAB6B	-0.92	6.53E-07	-0.56	1.76E-03
IFT20	-0.52	6.59E-07	-0.31	1.69E-03
WDR36	-0.34	6.64E-07	-0.46	8.02E-10
MAP4K3	-0.38	6.70E-07	-0.31	2.31E-05
HUWE1	-0.45	6.72E-07	-0.59	1.41E-12
PLCB3	-0.46	6.76E-07	-0.36	7.01E-05
SLC35C1	-0.63	6.76E-07	-0.50	6.59E-06
IRAK1BP1	0.58	6.95E-07	0.48	3.64E-04
CDK13	-0.31	6.98E-07	-0.34	9.84E-10
RBM25	-0.37	7.06E-07	-0.25	1.59E-04
RUVBL2	-0.47	7.13E-07	-0.48	3.41E-07
POLR2F	-0.63	7.15E-07	-0.39	8.65E-08
HES1	-0.76	7.17E-07	-0.46	3.22E-03
UBE2E3	-0.49	7.24E-07	-0.55	1.21E-11
RRP8	-0.36	7.46E-07	-0.26	6.05E-04

TRAF3	-0.41	7.48E-07	-0.44	2.29E-07
TSC2	-0.43	7.48E-07	-0.26	1.52E-04
ALDOC	-0.87	7.84E-07	-0.52	2.59E-03
RPS18	-0.85	7.89E-07	-0.64	7.30E-08
YWHAQ	-0.44	7.99E-07	-0.52	5.31E-10
PPM1K	0.56	8.05E-07	0.53	2.67E-07
C8orf33	-0.52	8.11E-07	-0.51	4.97E-10
MAGEA2	-6.98	8.11E-07	-2.71	3.55E-04
PHEX	1.12	8.21E-07	1.33	7.06E-07
FCAR	1.42	8.38E-07	1.01	1.28E-04
HSPA4L	-1.01	8.46E-07	-1.21	4.71E-10
ING1	-0.51	8.49E-07	-0.37	1.81E-05
EYA4	1.40	8.52E-07	2.04	5.01E-15
SLC30A10	-5.64	8.54E-07	-2.16	1.31E-04
ATL3	-0.52	8.67E-07	-0.63	8.21E-20
KLRD1	0.97	8.68E-07	1.28	9.03E-10
COG7	-0.39	8.69E-07	-0.30	1.70E-04
DGKQ	-0.55	8.75E-07	-0.28	5.14E-03
S100A7	-5.78	8.76E-07	-2.87	4.48E-05
AFP	-6.15	8.83E-07	-2.23	2.23E-05
PAQR3	-0.65	9.18E-07	-0.58	4.86E-07
CYSLTR1	0.84	9.25E-07	0.85	1.76E-08
CDH2	-1.87	9.30E-07	-1.30	2.91E-04
TREM2	0.84	9.31E-07	0.69	7.53E-04
SERPINB4	-3.61	9.51E-07	-2.86	6.74E-05
LIME1	-0.89	9.73E-07	-0.67	6.72E-05
C2	0.83	9.90E-07	1.43	7.00E-15
CFTR	1.28	1.01E-06	2.20	1.62E-10
DDX1	-0.35	1.01E-06	-0.35	3.85E-07
CYP17A1	1.80	1.02E-06	3.25	2.14E-27
ITGB2	0.71	1.02E-06	0.55	9.10E-04
NDUFV2	-0.53	1.02E-06	-0.35	7.62E-05
PRDX1	-0.62	1.02E-06	-0.57	5.67E-07
SDHAF2	-0.35	1.02E-06	-0.33	6.16E-07
CD74	0.71	1.03E-06	0.89	3.96E-08
CTLA4	-0.97	1.03E-06	-1.04	4.15E-07
SWAP70	0.41	1.03E-06	0.33	5.28E-05
LRFN2	-2.92	1.04E-06	-1.17	9.61E-03
MYH1	1.83	1.04E-06	2.87	2.30E-16
SFRP4	-1.22	1.05E-06	-1.40	1.92E-07
ERMAP	0.44	1.07E-06	0.48	1.70E-08
MC5R	-2.71	1.07E-06	-2.34	6.81E-07
UBE4A	-0.34	1.07E-06	-0.33	2.75E-07

COG4	-0.35	1.09E-06	-0.25	2.40E-05
XBP1	-0.62	1.10E-06	-0.40	8.95E-04
CUL2	-0.35	1.11E-06	-0.39	1.05E-07
HGSNAT	-0.61	1.11E-06	-0.53	5.61E-06
PRKCB	0.72	1.11E-06	0.69	8.68E-07
TMEM64	0.68	1.12E-06	0.65	8.01E-08
ESYT2	-0.45	1.13E-06	-0.44	1.47E-07
KPNA5	0.53	1.14E-06	0.45	6.96E-05
USP42	-0.39	1.14E-06	-0.38	6.50E-06
CCL28	-1.18	1.16E-06	-0.58	6.24E-03
UBE2M	-0.40	1.16E-06	-0.30	1.59E-04
SKA2	-0.54	1.18E-06	-0.50	3.64E-06
FSTL3	0.80	1.19E-06	0.96	9.49E-10
SIDT1	-0.92	1.19E-06	-0.69	7.74E-04
SMARCA4	-0.59	1.19E-06	-0.45	7.66E-05
INHBB	-1.22	1.22E-06	-0.83	1.94E-04
EXOC6	0.37	1.23E-06	0.30	2.30E-04
SLC25A1	-0.47	1.23E-06	-0.33	1.92E-04
UBTF	-0.28	1.25E-06	-0.34	3.51E-08
FBXO4	-0.56	1.26E-06	-0.42	1.50E-04
KCNJ2	0.80	1.27E-06	0.77	1.66E-06
RPGRIP1L	-0.59	1.27E-06	-0.95	1.13E-09
COG6	-0.43	1.32E-06	-0.44	5.08E-07
SMURF1	-0.48	1.32E-06	-0.38	1.35E-04
WFDC6	2.21	1.32E-06	4.12	2.20E-14
PFKL	-0.41	1.33E-06	-0.38	4.63E-07
NLRP7	-1.57	1.38E-06	-1.04	3.34E-05
PIK3CG	0.74	1.39E-06	0.48	4.45E-03
DLEC1	1.32	1.41E-06	2.10	5.91E-11
LCAT	0.67	1.41E-06	1.20	1.66E-16
ATP10A	0.81	1.43E-06	1.25	4.69E-11
VMA21	-0.40	1.43E-06	-0.40	4.07E-12
ITGB8	-1.34	1.44E-06	-0.96	5.21E-04
PDE6A	1.13	1.45E-06	1.61	1.73E-10
PSMA4	-0.45	1.45E-06	-0.40	8.27E-06
CDR2	-0.47	1.47E-06	-0.57	1.24E-09
ATG9A	-0.32	1.48E-06	-0.34	1.16E-07
OMA1	-0.43	1.48E-06	-0.19	2.72E-02
SMN2	-0.45	1.49E-06	-0.49	2.38E-10
SLC9A2	-2.06	1.54E-06	-1.03	5.72E-03
CD47	0.52	1.56E-06	0.65	1.10E-10
SYNC	0.93	1.58E-06	1.73	1.04E-22
TYMP	-0.67	1.58E-06	-0.45	3.89E-04

SIL1	-0.57	1.60E-06	-0.50	5.67E-07
PLP1	1.83	1.61E-06	2.85	1.11E-16
WDR37	0.36	1.61E-06	0.42	1.81E-09
CHST4	-1.73	1.62E-06	-1.28	3.76E-04
PPP2R1B	-0.56	1.62E-06	-0.44	1.76E-07
DRD4	-1.28	1.63E-06	-0.80	2.29E-03
BTBD6	-0.46	1.68E-06	-0.23	4.68E-03
LACTB	0.39	1.70E-06	0.26	1.65E-03
PIH1D2	0.74	1.71E-06	0.63	4.66E-03
PSMC3	-0.38	1.73E-06	-0.36	9.92E-10
RPL23	-0.57	1.73E-06	-0.32	1.28E-03
AOAH	0.77	1.74E-06	0.62	4.35E-04
GSN	0.57	1.75E-06	0.64	4.32E-09
ORAI2	-0.52	1.75E-06	-0.61	2.76E-09
RAP1GAP2	-0.76	1.75E-06	-0.35	3.54E-02
RGS12	0.44	1.76E-06	0.57	7.48E-09
NNT	-0.53	1.77E-06	-0.45	2.14E-05
SLC40A1	0.72	1.78E-06	0.81	6.70E-07
HLA-DQA1	0.93	1.79E-06	0.98	1.10E-07
STK3	-0.40	1.83E-06	-0.40	7.84E-08
RYR2	1.00	1.84E-06	1.74	1.94E-23
FOLH1	-1.12	1.85E-06	-0.96	1.37E-04
RPS6KA2	0.61	1.88E-06	0.85	2.82E-12
MTDH	-0.38	1.89E-06	-0.44	2.08E-08
TSPO	0.55	1.89E-06	0.58	6.51E-08
TAT	-1.58	1.90E-06	-0.96	6.08E-03
IFNE	-2.70	1.95E-06	-2.16	9.38E-07
LRRC4C	0.78	1.96E-06	0.75	1.49E-04
IGBP1	-0.41	1.97E-06	-0.42	6.01E-07
DSC2	-0.83	1.98E-06	-0.92	2.75E-09
CXCL9	-1.37	2.04E-06	-0.88	2.18E-03
KCNA3	0.92	2.04E-06	1.22	2.89E-06
GGT5	-0.76	2.05E-06	-0.84	1.35E-08
RAD52	-0.55	2.06E-06	-0.29	4.73E-03
TRIB1	0.57	2.07E-06	0.51	1.63E-03
ULK4	0.60	2.11E-06	0.59	1.79E-04
OGDH	0.35	2.15E-06	0.23	2.49E-03
DNM1L	-0.44	2.16E-06	-0.47	7.79E-08
CCL20	-1.68	2.17E-06	-1.25	9.21E-04
CR1	0.85	2.17E-06	0.48	1.52E-02
PTGFR	1.24	2.19E-06	2.18	6.32E-25
TRIM69	-0.81	2.19E-06	-0.59	9.91E-04
UBE2V1	-0.30	2.19E-06	-0.32	1.62E-08

CFL1	-0.33	2.20E-06	-0.44	2.09E-10
DOT1L	0.48	2.24E-06	0.64	3.17E-09
RPS16	-0.69	2.24E-06	-0.54	1.16E-05
POP4	-0.53	2.26E-06	-0.44	8.19E-07
MAGEA4	-8.92	2.27E-06	-1.47	1.64E-02
IRS1	-0.81	2.33E-06	-0.85	6.31E-07
WBP2	0.33	2.34E-06	0.36	1.26E-07
APTX	-0.37	2.41E-06	-0.20	6.42E-03
CCL4	0.82	2.47E-06	0.56	8.33E-03
RPS6KA4	-0.42	2.48E-06	-0.41	4.27E-07
MYLK2	-0.99	2.52E-06	-0.88	1.72E-03
AKAP5	0.65	2.54E-06	0.92	2.96E-12
TYRP1	1.13	2.56E-06	2.02	5.98E-17
PSMB7	-0.44	2.60E-06	-0.43	2.48E-08
RPP30	-0.34	2.60E-06	-0.30	5.15E-05
CXCL13	-1.51	2.62E-06	-3.90	7.13E-18
CDC25B	-0.63	2.64E-06	-0.39	1.42E-03
TLR9	-0.89	2.64E-06	-0.93	7.39E-09
CSF3R	0.96	2.67E-06	1.96	3.12E-23
TOB2	0.37	2.67E-06	0.37	2.16E-06
IBSP	-2.33	2.74E-06	-4.33	1.21E-18
TIPARP	0.73	2.74E-06	0.71	3.34E-05
HLA-DQA2	0.94	2.81E-06	0.85	9.26E-06
CCNK	-0.32	2.83E-06	-0.29	1.55E-05
KLHL5	-0.62	2.84E-06	-0.61	7.81E-08
GP6	1.09	2.88E-06	1.73	1.32E-12
TNFRSF10B	-0.53	2.88E-06	-0.31	1.56E-02
EVC	0.51	2.93E-06	0.45	2.33E-04
CYP20A1	0.29	2.94E-06	0.21	8.17E-04
TH	-2.70	2.95E-06	-1.03	3.54E-02
FBXL18	-0.64	2.99E-06	-0.41	1.59E-03
PDE11A	-1.50	3.00E-06	-0.93	1.58E-03
GLRB	-0.86	3.02E-06	-0.64	1.65E-04
PKP1	-2.12	3.02E-06	-0.96	9.70E-03
SEC16A	-0.40	3.02E-06	-0.36	2.04E-05
HARS	-0.30	3.04E-06	-0.40	1.52E-11
SNX27	-0.39	3.06E-06	-0.38	4.70E-07
FYN	0.51	3.12E-06	0.54	1.86E-05
LHCGR	-2.65	3.19E-06	-1.30	3.75E-02
TXNDC2	-1.69	3.21E-06	-0.65	7.44E-03
KCNK2	-2.19	3.22E-06	-1.28	1.40E-03
PPP2R5B	0.42	3.22E-06	0.42	2.59E-07
DCDC2	1.13	3.23E-06	2.32	3.41E-16

CRLF2	-2.04	3.32E-06	-1.55	4.40E-04
PEX16	-0.43	3.33E-06	-0.29	5.49E-05
PLCB1	-0.91	3.33E-06	-0.57	1.41E-03
IL12B	-1.12	3.36E-06	-0.52	3.34E-02
IL27	0.97	3.36E-06	1.05	1.18E-05
PDCD1	-1.00	3.40E-06	-1.07	2.01E-09
LARS	-0.34	3.43E-06	-0.45	1.74E-11
MAP3K14	0.52	3.50E-06	0.66	1.54E-06
HHEX	0.60	3.52E-06	0.52	2.16E-05
FAM19A3	-2.08	3.55E-06	-1.59	8.25E-05
RPA2	-0.38	3.71E-06	-0.50	1.48E-11
MAGEA1	-6.89	3.80E-06	-3.99	6.28E-11
SNX20	0.64	3.80E-06	0.54	4.27E-04
TCP1	-0.40	3.87E-06	-0.55	2.41E-12
SLAIN2	0.28	3.88E-06	0.29	3.59E-08
KRT20	-5.30	3.99E-06	-1.92	1.27E-03
TOR1AIP1	0.28	4.02E-06	0.18	6.45E-03
SAMSN1	0.64	4.14E-06	0.46	5.26E-03
TFF2	-7.55	4.18E-06	-2.97	5.93E-06
ZFP36L2	0.46	4.26E-06	0.34	3.31E-04
ARHGAP17	0.27	4.38E-06	0.22	2.05E-03
ZFC3H1	-0.43	4.53E-06	-0.31	1.01E-03
EPB41	-0.41	4.62E-06	-0.31	2.25E-04
PRLR	-1.51	4.63E-06	-0.75	2.72E-02
KCNH4	-1.16	4.66E-06	-0.99	1.54E-04
LTA	-0.92	4.74E-06	-1.26	1.28E-10
PSMD8	-0.44	4.74E-06	-0.50	2.66E-09
SLC3A2	-0.48	4.86E-06	-0.33	1.66E-04
PRKCDBP	0.64	4.89E-06	0.48	4.74E-05
DAZAP2	0.28	4.90E-06	0.30	9.93E-07
IRF1	0.58	4.98E-06	0.65	4.27E-07
MAL	0.97	5.04E-06	1.70	9.12E-15
ID1	0.85	5.06E-06	1.27	1.00E-09
PXDN	-0.85	5.22E-06	-1.19	4.73E-09
NLK	-0.35	5.28E-06	-0.15	2.30E-02
UNC13B	0.61	5.28E-06	1.33	4.35E-19
S100B	-1.26	5.30E-06	-0.81	3.22E-03
RNASET2	-0.63	5.32E-06	-0.48	1.42E-05
SMAD1	-0.55	5.32E-06	-0.78	8.78E-16
SCRN3	-0.36	5.33E-06	-0.23	6.86E-04
TRIP12	-0.32	5.33E-06	-0.49	2.85E-13
GSTA4	0.69	5.39E-06	1.26	7.77E-15
RNF216	-0.32	5.44E-06	-0.34	3.15E-06

RNF25	-0.32	5.44E-06	-0.21	8.06E-04
VEZF1	0.30	5.46E-06	0.21	7.19E-03
ARHGAP15	0.62	5.47E-06	0.58	4.17E-05
PARD3	-0.47	5.47E-06	-0.39	5.06E-05
EDC4	-0.35	5.53E-06	-0.26	8.80E-05
FZD5	0.52	5.53E-06	0.83	7.40E-12
NRG1	1.13	5.54E-06	1.88	8.19E-17
IQGAP2	0.74	5.56E-06	0.68	3.09E-05
SMG1	-0.44	5.60E-06	-0.40	2.65E-06
CSNK1E	-0.44	5.62E-06	-0.33	7.67E-05
CD22	0.87	5.64E-06	0.90	2.36E-04
MAP2K5	0.33	5.64E-06	0.30	3.38E-05
CACNA1B	-2.82	5.67E-06	-1.60	1.20E-02
CHAT	-6.18	5.70E-06	-1.15	7.33E-03
AP1M1	0.28	5.88E-06	0.28	6.82E-06
SEMA7A	-0.88	5.88E-06	-1.02	3.00E-09
PRKRA	-0.33	5.89E-06	-0.28	3.75E-05
ALPL	1.10	5.90E-06	2.18	3.59E-13
CTSK	-0.81	5.91E-06	-1.18	2.10E-10
CD58	0.45	5.95E-06	0.45	2.85E-04
PSMA7	-0.47	6.18E-06	-0.44	4.22E-07
SPON1	0.74	6.26E-06	0.40	8.52E-03
VCP	-0.28	6.31E-06	-0.34	7.57E-08
SCYL2	-0.35	6.34E-06	-0.32	2.36E-06
TUBA3C	-6.17	6.40E-06	-1.53	6.80E-03
CEBPZ	-0.30	6.44E-06	-0.28	2.97E-05
IL6ST	0.69	6.50E-06	0.65	1.31E-07
DYX1C1	0.57	6.59E-06	0.67	6.37E-05
SMARCAD1	-0.31	6.63E-06	-0.46	5.55E-12
CNPY3	-0.34	6.64E-06	-0.26	3.01E-04
CAPN3	0.87	6.70E-06	2.16	9.00E-26
ANXA5	0.37	6.83E-06	0.20	1.15E-02
POM121	-0.35	6.85E-06	-0.45	7.12E-08
UQCRC1	-0.38	6.94E-06	-0.36	6.54E-07
PBX1	0.63	6.98E-06	0.62	1.74E-04
PWP1	-0.33	7.03E-06	-0.30	4.85E-05
NOL9	-0.39	7.17E-06	-0.52	2.60E-11
CLDN1	-1.11	7.22E-06	-0.91	4.66E-04
SMAD4	0.32	7.25E-06	0.34	1.41E-05
BCL11A	-0.94	7.28E-06	-0.62	2.60E-03
EPHA6	-2.21	7.30E-06	-1.21	3.70E-03
SQSTM1	-0.58	7.47E-06	-0.35	1.19E-03
KIF6	1.06	7.74E-06	1.35	2.28E-08

POT1	-0.44	8.04E-06	-0.55	3.67E-10
YTHDF2	-0.27	8.05E-06	-0.27	1.07E-05
CX3CL1	0.87	8.10E-06	1.33	3.40E-09
ADK	-0.56	8.31E-06	-0.51	1.61E-05
UBE4B	-0.35	8.31E-06	-0.34	2.31E-07
SBF1	-0.45	8.33E-06	-0.33	2.58E-04
PLRG1	-0.39	8.45E-06	-0.41	9.91E-11
KLB	1.37	8.58E-06	3.41	4.03E-51
GDI2	-0.35	8.80E-06	-0.47	1.05E-07
NMT1	-0.25	8.85E-06	-0.25	1.25E-06
CD177	-2.27	8.87E-06	-0.89	9.93E-03
SETDB2	0.34	8.87E-06	0.42	1.37E-07
CYP7B1	-0.71	8.93E-06	-0.73	7.44E-08
PRPF6	-0.37	9.00E-06	-0.29	1.29E-06
MORF4L1	0.30	9.08E-06	0.19	2.52E-02
CSPG4	0.66	9.11E-06	0.74	4.70E-07
PDLIM7	-0.54	9.11E-06	-0.68	5.95E-08
SHC3	0.92	9.16E-06	1.61	8.12E-10
POLR2K	-0.49	9.17E-06	-0.37	1.03E-04
CTSW	0.81	9.21E-06	1.34	4.05E-17
SLC27A2	-1.05	9.44E-06	-1.06	3.27E-04
MYPN	-2.86	9.46E-06	-1.40	1.03E-02
IFT140	0.54	9.53E-06	0.87	1.36E-12
NARS	-0.36	9.56E-06	-0.33	1.55E-06
GUSB	-0.43	9.60E-06	-0.34	3.53E-04
TAGLN	0.65	9.67E-06	0.36	3.91E-02
MPL	0.54	9.70E-06	0.47	3.70E-04
AP2A1	-0.32	9.73E-06	-0.39	9.64E-08
SMARCE1	-0.33	9.79E-06	-0.25	5.82E-06
HLA-DMB	0.65	9.80E-06	0.80	1.87E-06
APBA3	-0.38	1.01E-05	-0.39	1.12E-07
DYNLT1	-0.51	1.01E-05	-0.38	1.25E-04
ORAI1	0.35	1.01E-05	0.37	4.83E-06
COL4A5	0.94	1.02E-05	1.60	1.82E-17
COTL1	0.51	1.02E-05	0.31	7.07E-03
TNFRSF4	-0.68	1.02E-05	-0.80	1.13E-06
ASS1	-0.85	1.03E-05	-0.46	4.89E-03
USP36	-0.33	1.03E-05	-0.22	1.82E-03
ZHX2	0.35	1.03E-05	0.25	1.88E-03
GNAZ	0.92	1.04E-05	1.32	1.00E-06
KIAA0895	-0.60	1.05E-05	-0.49	1.47E-05
TBC1D20	0.27	1.05E-05	0.33	5.38E-09
KIF7	-0.79	1.06E-05	-0.66	3.75E-04

DTX3L	-0.39	1.07E-05	-0.42	1.56E-09
LILRA3	1.05	1.07E-05	0.87	4.00E-04
PPP2R1A	-0.28	1.09E-05	-0.23	8.97E-04
GPR89B	-0.81	1.11E-05	-0.65	1.14E-03
NMT2	0.42	1.11E-05	0.28	5.51E-03
SIM1	-3.78	1.11E-05	-1.72	1.55E-03
MCRS1	-0.34	1.12E-05	-0.19	2.31E-03
OPRD1	-4.23	1.13E-05	-2.24	4.13E-06
BCL7C	-0.51	1.14E-05	-0.39	1.61E-06
AFAP1	-0.47	1.15E-05	-0.65	3.20E-09
CCL21	0.85	1.15E-05	0.78	6.72E-04
CLEC2B	0.66	1.18E-05	0.59	4.84E-04
TNIP2	-0.35	1.18E-05	-0.25	2.58E-04
TSPAN33	-0.70	1.19E-05	-0.73	7.88E-08
ANK1	-1.22	1.20E-05	-0.81	6.30E-03
PYGL	-0.69	1.20E-05	-0.39	5.61E-03
ADAM19	-0.71	1.21E-05	-1.13	4.40E-14
RMND1	-0.39	1.21E-05	-0.41	1.63E-06
AXIN2	0.73	1.23E-05	1.16	1.05E-16
IQCB1	-0.43	1.23E-05	-0.26	5.76E-03
SAE1	-0.33	1.23E-05	-0.40	2.59E-09
SAT2	0.46	1.23E-05	0.72	1.01E-13
PTGDR	0.74	1.26E-05	0.95	1.63E-06
SBNO2	-0.52	1.26E-05	-0.59	2.28E-08
BACH2	0.65	1.27E-05	0.45	6.42E-03
HAAO	0.53	1.28E-05	0.54	6.92E-06
TNFRSF10D	0.63	1.28E-05	0.85	3.30E-08
ATP2C1	0.37	1.29E-05	0.31	1.43E-04
TRIM68	-0.58	1.29E-05	-0.27	3.69E-02
IFIT3	0.61	1.33E-05	0.75	1.26E-08
PRKAB2	-0.48	1.33E-05	-0.31	4.38E-03
POM121C	-0.35	1.34E-05	-0.49	3.01E-10
SART3	-0.28	1.34E-05	-0.23	1.06E-03
ARID4B	-0.32	1.35E-05	-0.28	1.46E-05
ERCC6	-0.41	1.37E-05	-0.33	1.61E-04
DNM3	0.81	1.38E-05	1.12	1.26E-08
ERRFI1	-0.81	1.38E-05	-0.71	3.25E-05
RAD21	-0.44	1.39E-05	-0.34	2.56E-04
DKKL1	-1.28	1.41E-05	-0.66	6.01E-03
PRKAR1A	0.30	1.41E-05	0.25	4.79E-04
PPA1	-0.43	1.43E-05	-0.28	1.19E-03
SAGE1	-4.80	1.44E-05	-1.31	1.23E-02
MAPK12	-0.73	1.46E-05	-0.60	5.57E-05

PEBP1	0.40	1.47E-05	0.65	7.70E-12
CLEC7A	0.66	1.48E-05	0.63	3.71E-04
CSTA	0.90	1.48E-05	1.28	5.02E-16
KCNH1	-1.14	1.48E-05	-0.63	1.46E-02
TXLNB	0.73	1.48E-05	0.73	7.40E-04
FTL	0.60	1.49E-05	0.69	1.55E-07
LSP1	0.55	1.51E-05	0.38	1.59E-02
IPP	-0.37	1.56E-05	-0.52	1.55E-09
PIK3C2A	0.31	1.59E-05	0.32	9.71E-06
SNRNP27	-0.29	1.59E-05	-0.27	9.41E-05
FBXW4	0.42	1.61E-05	0.63	1.43E-15
MED18	-0.38	1.61E-05	-0.39	9.41E-05
SSX4	-4.29	1.62E-05	-1.69	4.29E-04
APOBEC3F	-0.56	1.63E-05	-0.46	2.40E-04
RETNLB	-3.54	1.64E-05	-1.71	5.68E-05
SEPSECS	-0.39	1.64E-05	-0.23	2.18E-02
LPA	1.86	1.65E-05	3.15	5.33E-13
SLC45A2	-1.73	1.65E-05	-1.14	1.79E-03
KLK3	3.86	1.70E-05	1.60	3.66E-03
AHSP	1.51	1.71E-05	1.40	5.51E-06
CD70	-1.07	1.72E-05	-1.12	5.95E-05
SLC16A1	-1.14	1.72E-05	-0.70	1.25E-03
NKAP	-0.28	1.75E-05	-0.28	2.75E-07
PFKFB2	0.55	1.75E-05	0.90	1.25E-14
CTSH	0.82	1.76E-05	1.65	1.02E-16
DHODH	-0.44	1.76E-05	-0.30	3.28E-04
UROS	-0.39	1.77E-05	-0.31	1.25E-04
CHI3L1	-1.21	1.78E-05	-0.90	1.94E-04
SPTBN4	-1.08	1.78E-05	-0.58	7.69E-03
LMX1B	-1.90	1.81E-05	-1.34	3.64E-03
FSCN1	-0.88	1.85E-05	-1.15	5.52E-09
MLLT1	0.34	1.87E-05	0.37	1.16E-05
ZNF395	0.39	1.87E-05	0.47	1.35E-08
CRIP3	-1.67	1.89E-05	-0.72	1.64E-02
PLCD1	0.52	1.91E-05	0.80	1.59E-15
RFXANK	-0.42	1.91E-05	-0.24	1.83E-03
LONRF3	0.56	1.98E-05	0.78	1.35E-06
POMP	-0.44	1.98E-05	-0.30	3.02E-04
MAN2A1	-0.58	1.99E-05	-0.89	2.34E-14
SAA2	-1.82	1.99E-05	-1.63	5.04E-04
ITGB3	-1.17	2.01E-05	-0.72	2.02E-03
SCN5A	-1.51	2.03E-05	-1.11	1.33E-04
MLH3	-0.33	2.05E-05	-0.27	1.06E-04

GPR34	0.67	2.07E-05	0.46	1.03E-02
AICDA	1.11	2.09E-05	0.81	7.70E-03
MMP8	-1.65	2.11E-05	-2.17	4.60E-08
YPEL5	0.35	2.11E-05	0.36	3.16E-05
DSCR8	-6.85	2.12E-05	-3.88	1.27E-12
HAMP	-1.30	2.15E-05	-2.17	6.85E-10
NOV	0.73	2.15E-05	0.57	3.09E-03
RBMXL1	0.28	2.15E-05	0.18	2.64E-03
SEC61B	-0.41	2.15E-05	-0.31	7.58E-05
CSAG2	-7.52	2.16E-05	-2.92	3.14E-09
PDE6D	-0.34	2.16E-05	-0.42	2.12E-09
CARD9	0.69	2.18E-05	1.16	1.52E-12
PSMD10	-0.37	2.19E-05	-0.45	9.46E-10
SMC3	-0.39	2.22E-05	-0.46	1.44E-07
ITGAE	0.51	2.27E-05	0.48	9.45E-04
SH2D2A	-0.67	2.27E-05	-0.84	9.93E-07
LARS2	-0.29	2.28E-05	-0.46	7.27E-12
MAGEA10	-6.82	2.30E-05	-2.62	8.65E-08
TAP1	-0.67	2.32E-05	-0.40	8.51E-04
ALG12	-0.36	2.34E-05	-0.19	1.21E-02
CLC	1.94	2.34E-05	1.14	5.90E-03
FLOT1	-0.40	2.34E-05	-0.17	2.13E-02
SLC9A4	-3.82	2.35E-05	-2.09	8.14E-04
LRG1	-0.85	2.37E-05	-0.51	9.84E-03
MYL4	0.92	2.41E-05	0.90	3.36E-04
WFDC12	2.03	2.44E-05	4.78	2.92E-21
NRXN1	1.54	2.51E-05	2.58	5.89E-13
PDE4C	0.87	2.56E-05	1.99	1.70E-14
TLR10	-1.05	2.61E-05	-1.26	7.92E-09
TPM3	-0.29	2.67E-05	-0.42	5.03E-08
ELF1	0.29	2.71E-05	0.21	5.23E-03
LILRB5	0.77	2.72E-05	0.63	3.80E-03
DENND5B	-0.65	2.75E-05	-0.83	3.34E-08
PIN1	0.34	2.81E-05	0.36	1.08E-07
GDF11	-0.57	2.86E-05	-0.37	1.15E-02
JMJD1C	0.34	2.86E-05	0.25	4.64E-03
RBL2	0.34	2.88E-05	0.40	4.78E-08
WASL	-0.33	2.88E-05	-0.33	7.79E-07
MAPK3	0.33	2.89E-05	0.32	6.18E-05
RYR3	0.86	2.90E-05	0.72	2.04E-04
TMBIM1	0.39	2.90E-05	0.41	2.95E-05
DNAJC3	-0.35	2.91E-05	-0.38	9.65E-06
ARID1A	-0.36	2.93E-05	-0.44	4.34E-09

KRT7	-0.78	2.93E-05	-0.41	3.51E-02
PINK1	0.33	2.97E-05	0.32	1.80E-05
PPP1CC	-0.34	2.98E-05	-0.31	3.56E-05
ZNF142	-0.31	3.01E-05	-0.33	7.08E-06
MPV17	-0.37	3.04E-05	-0.27	2.31E-03
CLEC11A	-0.58	3.08E-05	-0.78	1.84E-08
EBI3	-0.74	3.09E-05	-0.68	4.49E-06
CBX5	-0.43	3.10E-05	-0.46	1.58E-07
CD9	0.51	3.11E-05	0.79	1.24E-11
VPS54	-0.30	3.11E-05	-0.24	7.71E-05
RPS24	-0.52	3.14E-05	-0.27	1.34E-02
LBP	-3.24	3.15E-05	-2.21	1.48E-04
ADAMTS9	0.74	3.24E-05	0.42	3.93E-02
GNMT	0.93	3.24E-05	1.97	2.93E-16
IFNAR2	-0.40	3.24E-05	-0.35	3.04E-06
DUSP7	0.41	3.26E-05	0.36	1.31E-03
RPL7	-0.51	3.27E-05	-0.28	8.45E-03
ZNF318	-0.38	3.28E-05	-0.24	1.58E-03
CPT1C	-0.99	3.35E-05	-0.74	8.88E-04
G6PC3	-0.38	3.49E-05	-0.35	2.03E-05
DOK1	0.36	3.54E-05	0.41	1.61E-07
ZBTB17	-0.34	3.54E-05	-0.23	4.78E-03
EGLN1	-0.43	3.61E-05	-0.41	2.69E-06
PGD	-0.71	3.61E-05	-0.53	3.19E-04
WIPF3	-1.11	3.64E-05	-1.15	5.88E-04
FLT1	0.51	3.73E-05	0.41	1.59E-03
TRIM10	-2.17	3.74E-05	-1.25	2.33E-03
CDC23	-0.25	3.80E-05	-0.31	5.25E-07
EPHX2	0.64	3.80E-05	1.22	9.57E-11
KLRB1	0.71	3.89E-05	0.68	1.88E-04
MID2	0.41	3.89E-05	0.26	4.22E-03
RGS2	0.73	3.89E-05	0.68	1.43E-05
MRPL40	-0.42	3.92E-05	-0.30	1.81E-03
LIMK2	0.40	4.02E-05	0.39	1.64E-05
NCEH1	0.52	4.08E-05	0.55	4.47E-06
BTF3	-0.40	4.13E-05	-0.41	8.34E-07
FAM110B	0.69	4.17E-05	0.76	1.97E-07
RAC1	-0.33	4.20E-05	-0.34	2.71E-06
METRNL	0.50	4.24E-05	0.46	1.08E-06
PTMS	0.46	4.24E-05	0.66	1.99E-09
GIP	-3.42	4.27E-05	-2.15	3.61E-06
SOAT1	-0.38	4.27E-05	-0.46	2.75E-07
HEXB	0.36	4.30E-05	0.21	2.80E-02

USP25	0.34	4.30E-05	0.41	3.32E-08
UBE2A	-0.34	4.32E-05	-0.36	7.67E-07
CAPZA1	-0.30	4.33E-05	-0.47	1.28E-11
ZNF574	-0.33	4.35E-05	-0.28	3.56E-03
NUP160	-0.33	4.39E-05	-0.40	1.36E-08
TRIM3	0.39	4.39E-05	0.53	1.22E-08
DAD1	-0.39	4.41E-05	-0.40	4.53E-07
GNPTAB	0.31	4.47E-05	0.31	3.44E-05
ADORA1	-1.16	4.57E-05	-0.68	6.23E-03
ACOT8	-0.37	4.58E-05	-0.16	4.69E-02
AGBL5	-0.37	4.60E-05	-0.32	2.92E-03
KAT5	0.24	4.61E-05	0.34	4.27E-09
MPZL2	-0.68	4.70E-05	-0.36	2.48E-02
SPACA3	-2.15	4.70E-05	-1.18	6.49E-03
APEH	-0.30	4.76E-05	-0.29	1.63E-04
ZBTB7A	0.31	4.76E-05	0.26	8.86E-04
MPV17L2	-0.38	4.78E-05	-0.33	1.05E-04
APOBEC3D	-0.59	4.82E-05	-0.56	4.60E-05
UBA1	-0.30	4.85E-05	-0.41	1.68E-09
CD19	-1.24	4.91E-05	-2.38	1.53E-11
FOXG1	-4.13	4.91E-05	-1.95	5.80E-04
ARPC3	-0.38	5.04E-05	-0.27	7.18E-04
CCNDBP1	0.33	5.04E-05	0.34	4.88E-04
ADAM33	0.94	5.13E-05	1.69	1.66E-16
SSX2	-4.47	5.15E-05	-3.62	4.80E-13
IL27RA	-0.58	5.21E-05	-0.46	3.05E-04
RHOBTB3	-0.64	5.24E-05	-0.51	1.29E-03
SEC23B	-0.35	5.31E-05	-0.36	9.94E-05
PHC2	-0.32	5.37E-05	-0.45	2.63E-08
XRCC1	-0.32	5.46E-05	-0.22	6.40E-03
BCL7A	-0.42	5.49E-05	-0.29	1.69E-02
IGFL3	-3.01	5.53E-05	-2.20	2.20E-05
MYL12A	0.34	5.61E-05	0.32	1.94E-04
IRAK4	-0.30	5.63E-05	-0.22	5.64E-03
MMP16	-1.07	5.72E-05	-1.27	2.09E-06
FUT1	0.53	5.83E-05	0.88	4.78E-13
PKP4	-0.35	5.88E-05	-0.27	1.11E-03
DMBT1	1.32	5.90E-05	2.11	3.92E-07
KIF21A	-0.57	5.95E-05	-0.59	2.49E-05
USP7	-0.25	5.95E-05	-0.30	3.67E-08
MEF2C	0.50	6.02E-05	0.50	2.14E-05
SAA4	-1.81	6.15E-05	-1.97	7.55E-04
ST8SIA1	0.68	6.16E-05	0.86	1.18E-08

STK17B	0.39	6.17E-05	0.25	2.39E-02
CDON	0.72	6.21E-05	1.36	5.42E-14
NIPAL3	0.39	6.22E-05	0.55	3.24E-10
P2RX5	-0.78	6.23E-05	-0.74	1.55E-05
TRIM71	1.57	6.23E-05	3.44	1.77E-22
MAP3K10	-0.48	6.30E-05	-0.39	4.66E-04
NKX2-5	-4.67	6.38E-05	-2.15	2.39E-05
SKIV2L2	-0.31	6.48E-05	-0.36	1.04E-06
ZIC3	-5.71	6.49E-05	-1.60	8.87E-04
HIVEP3	0.46	6.50E-05	0.31	1.42E-02
RAP2C	-0.32	6.50E-05	-0.36	4.25E-07
AKT2	-0.30	6.51E-05	-0.34	1.91E-06
CDSN	-1.10	6.61E-05	-0.56	1.33E-02
EIF2AK3	-0.33	6.61E-05	-0.30	3.79E-05
CLOCK	-0.47	6.73E-05	-0.48	1.88E-07
UBR4	-0.32	6.74E-05	-0.31	5.68E-05
API5	-0.25	6.91E-05	-0.29	9.29E-06
GRAP2	0.64	6.99E-05	0.96	2.56E-10
NPHP1	0.52	6.99E-05	0.67	6.65E-05
KPTN	-0.48	7.08E-05	-0.25	4.21E-02
FGF13	-0.91	7.11E-05	-0.79	8.42E-05
C21orf59	-0.35	7.17E-05	-0.26	2.49E-03
GABPB2	-0.43	7.19E-05	-0.45	1.79E-04
TCTN3	-0.27	7.28E-05	-0.44	1.10E-09
JARID2	-0.41	7.37E-05	-0.33	7.46E-05
NUCKS1	-0.33	7.45E-05	-0.45	1.25E-08
SLC1A2	0.92	7.45E-05	1.48	7.59E-13
MYO1D	-0.47	7.52E-05	-0.37	1.88E-04
MECP2	0.27	7.55E-05	0.35	5.24E-06
DPM1	-0.36	7.60E-05	-0.32	2.71E-04
SLC23A1	1.06	7.70E-05	1.17	2.62E-03
EPHA4	-0.78	7.78E-05	-0.49	2.01E-03
HCLS1	0.49	7.80E-05	0.52	9.66E-05
GBF1	-0.29	7.86E-05	-0.36	2.31E-06
BLNK	-0.55	7.97E-05	-0.62	6.89E-06
RARB	0.55	7.98E-05	0.30	3.55E-02
FGL2	0.64	8.01E-05	0.65	8.86E-06
UCP2	-0.51	8.01E-05	-0.31	2.74E-02
SRA1	-0.37	8.03E-05	-0.42	2.76E-07
HSP90AA1	-0.38	8.06E-05	-0.48	9.79E-09
RASGRP1	-0.66	8.12E-05	-0.42	8.01E-03
ESF1	-0.38	8.15E-05	-0.31	2.81E-04
CPE	-1.02	8.19E-05	-0.47	2.57E-02

ATG12	-0.29	8.35E-05	-0.36	9.75E-07
CLEC4F	0.96	8.37E-05	1.63	2.90E-12
HSD17B11	0.49	8.37E-05	0.76	5.35E-10
YIPF5	-0.28	8.41E-05	-0.54	9.99E-15
EMD	-0.31	8.46E-05	-0.20	1.85E-03
RGS6	1.26	8.46E-05	2.70	4.15E-15
RAB21	0.29	8.47E-05	0.24	6.63E-04
CTSF	0.48	8.53E-05	0.44	6.54E-05
MAT1A	-1.41	8.55E-05	-0.90	4.72E-03
B9D2	0.42	8.60E-05	0.42	1.16E-03
RB1	0.33	8.67E-05	0.25	2.07E-03
TBK1	-0.28	8.95E-05	-0.22	2.09E-03
CSNK1G2	-0.31	9.00E-05	-0.28	2.66E-05
TRIM21	0.32	9.05E-05	0.41	8.17E-07
IL15	0.55	9.09E-05	0.68	2.28E-06
CREB3	-0.33	9.25E-05	-0.30	2.06E-04
TBX19	-0.50	9.34E-05	-0.30	2.77E-02
CCL26	-1.38	9.43E-05	-1.75	1.01E-06
VDAC2	-0.38	9.43E-05	-0.44	3.13E-07
PSIP1	0.39	9.55E-05	0.42	5.58E-05
CLP1	-0.27	9.69E-05	-0.30	2.00E-05
NGDN	-0.36	9.71E-05	-0.20	7.00E-03
PLA2G2A	1.33	9.71E-05	1.13	4.49E-03
ZNF644	-0.29	9.78E-05	-0.35	1.04E-07
ALDH3B1	0.68	9.83E-05	1.37	2.05E-11
GABARAPL2	0.33	9.84E-05	0.26	3.60E-03
DYNC1LI1	0.23	9.98E-05	0.17	1.01E-02
MYL6	0.40	9.99E-05	0.35	4.54E-05
FBXL12	0.22	1.01E-04	0.36	2.69E-08
TERF2	-0.24	1.02E-04	-0.37	1.12E-08
FLNA	0.48	1.02E-04	0.40	7.97E-04
RAET1L	-2.59	1.04E-04	-2.98	1.10E-08
SEMA4D	-0.37	1.04E-04	-0.37	3.86E-06
GSDMA	-1.01	1.05E-04	-0.75	8.48E-04
ACP2	-0.27	1.06E-04	-0.45	3.52E-08
TEP1	-0.39	1.06E-04	-0.36	9.21E-05
PRKAA1	-0.34	1.09E-04	-0.24	6.41E-03
NFAT5	0.35	1.10E-04	0.46	3.85E-08
CD40LG	0.71	1.11E-04	0.55	6.00E-03
UGT1A1	-4.51	1.11E-04	-2.24	5.90E-04
MUT	-0.32	1.12E-04	-0.23	9.38E-04
VLDLR	0.55	1.12E-04	0.57	1.55E-05
SIGLEC12	0.98	1.13E-04	0.67	1.05E-03

NUP188	-0.34	1.14E-04	-0.30	2.19E-04
APOA1	1.54	1.15E-04	3.17	1.32E-37
TRIM32	-0.26	1.16E-04	-0.38	1.05E-06
SOX3	-3.32	1.16E-04	-1.35	1.37E-02
DUSP5	-0.68	1.17E-04	-0.64	7.92E-05
RAB31	0.45	1.18E-04	0.32	5.98E-03
RTN4R	-0.59	1.19E-04	-0.42	6.23E-04
LPP	-0.51	1.20E-04	-0.56	1.25E-05
NLRP5	-6.06	1.20E-04	-2.97	7.37E-11
DPEP1	-1.40	1.20E-04	-2.70	2.92E-17
ARHGAP26	-0.65	1.20E-04	-0.47	1.76E-03
GADD45A	-0.62	1.20E-04	-0.63	6.33E-05
GPX7	-0.62	1.21E-04	-0.80	3.24E-11
GPSM3	0.44	1.23E-04	0.47	1.36E-04
NDUFC2	-0.36	1.23E-04	-0.36	6.25E-06
TMEM199	-0.29	1.26E-04	-0.26	3.79E-05
BIRC6	-0.31	1.28E-04	-0.36	1.83E-07
FAM19A2	0.79	1.29E-04	0.95	1.17E-07
DGCR14	-0.30	1.29E-04	-0.14	4.93E-02
ROCK1	0.31	1.29E-04	0.22	1.36E-03
MAPK11	0.50	1.29E-04	0.44	2.51E-04
MAP3K7	-0.27	1.30E-04	-0.42	2.16E-11
HLA-DQB1	0.74	1.31E-04	1.05	2.24E-09
NIPAL4	-1.23	1.31E-04	-1.64	2.05E-07
BMPR1A	0.29	1.32E-04	0.20	1.42E-02
ENPP4	0.42	1.36E-04	0.76	7.12E-10
MMP28	1.01	1.37E-04	2.65	3.01E-21
FAS	0.52	1.39E-04	0.35	1.28E-02
IGSF8	-0.45	1.41E-04	-0.31	3.21E-03
GRWD1	-0.28	1.42E-04	-0.33	2.99E-05
HMOX2	-0.35	1.44E-04	-0.23	3.81E-03
BTN3A2	0.45	1.44E-04	0.43	4.76E-06
LAX1	-0.82	1.45E-04	-0.74	1.19E-04
SP2	0.22	1.46E-04	0.16	8.84E-03
IL1A	1.20	1.47E-04	2.25	9.00E-15
CYP19A1	-0.99	1.51E-04	-0.69	2.97E-03
L1CAM	-1.47	1.51E-04	-0.68	3.30E-02
SYNGR1	0.64	1.53E-04	0.74	9.63E-06
MBD4	-0.27	1.54E-04	-0.26	1.16E-04
RPS6KA5	0.48	1.54E-04	0.60	3.03E-06
MYSM1	-0.51	1.55E-04	-0.36	1.13E-02
ZBTB32	-0.71	1.55E-04	-0.68	9.21E-05
ERCC1	-0.35	1.58E-04	-0.36	2.75E-07

PDGFA	0.55	1.59E-04	0.66	1.84E-05
WDR18	-0.40	1.59E-04	-0.36	1.37E-05
SART1	-0.32	1.63E-04	-0.20	5.95E-03
PSMD9	-0.30	1.64E-04	-0.20	9.54E-03
NSFL1C	-0.26	1.67E-04	-0.22	3.49E-03
PRPS1	-0.30	1.67E-04	-0.43	5.06E-11
MAP3K2	-0.32	1.67E-04	-0.43	3.02E-09
ATP6V0A1	0.33	1.68E-04	0.42	2.01E-07
CNOT1	-0.27	1.70E-04	-0.38	1.30E-08
PROM1	-1.56	1.72E-04	-0.86	4.87E-02
AGL	-0.47	1.76E-04	-0.31	3.71E-04
CTTNBP2	0.75	1.77E-04	0.93	7.73E-06
FBXW7	-0.35	1.77E-04	-0.22	5.37E-03
PTGS1	0.53	1.79E-04	0.41	4.32E-03
LYN	-0.39	1.82E-04	-0.38	2.46E-05
ZC3H12A	0.56	1.84E-04	0.39	4.69E-02
RPL27A	-0.49	1.84E-04	-0.31	3.16E-03
KIAA1109	0.38	1.84E-04	0.40	2.41E-06
TAOK3	0.28	1.85E-04	0.26	2.23E-03
H2AFY	-0.27	1.86E-04	-0.39	1.09E-08
CYTIP	0.52	1.86E-04	0.39	1.09E-02
ATP2B4	0.46	1.87E-04	0.44	2.02E-05
KLHL7	-0.36	1.87E-04	-0.35	2.97E-04
ABL2	-0.33	1.87E-04	-0.43	2.24E-06
SERPINF1	-0.66	1.88E-04	-0.64	2.23E-04
HDAC7	0.29	1.88E-04	0.41	6.29E-09
IRF4	-0.84	1.92E-04	-0.61	5.19E-03
HNRNPUL1	-0.25	1.92E-04	-0.32	5.54E-06
TMEM173	0.46	1.93E-04	0.52	2.19E-07
SRRM1	-0.22	1.93E-04	-0.24	8.21E-05
SMC1A	-0.35	1.95E-04	-0.50	3.52E-12
CCL19	-1.01	1.97E-04	-1.57	7.15E-09
USMG5	-0.44	1.98E-04	-0.36	2.35E-04
PRKCZ	0.54	1.98E-04	1.25	5.82E-22
ZC3H12D	-0.64	2.02E-04	-0.70	1.69E-05
MUL1	0.24	2.03E-04	0.12	3.28E-02
AKNA	0.38	2.03E-04	0.35	4.93E-04
DNAH1	0.63	2.09E-04	1.13	1.13E-08
UBE2L3	-0.27	2.09E-04	-0.14	3.22E-02
CD80	0.56	2.10E-04	0.55	5.26E-03
MAOA	0.69	2.10E-04	1.46	1.79E-10
PNMT	1.04	2.11E-04	2.28	9.90E-10
HLA-DMA	0.53	2.12E-04	0.92	6.29E-09

SPON2	-0.70	2.13E-04	-0.46	1.10E-02
POLA1	-0.35	2.14E-04	-0.53	7.91E-10
CCL22	-0.83	2.15E-04	-0.94	1.67E-04
SGMS1	0.45	2.17E-04	0.83	4.53E-19
LYPLAL1	-0.40	2.18E-04	-0.26	1.80E-02
CFLAR	0.37	2.18E-04	0.48	8.67E-07
MIR155HG	-0.69	2.18E-04	-0.51	5.36E-03
LAMA3	0.88	2.20E-04	1.59	1.03E-08
RPL18A	-0.53	2.26E-04	-0.29	1.13E-02
ACSL3	-0.38	2.26E-04	-0.33	1.32E-04
LIF	-0.91	2.27E-04	-0.83	2.78E-04
PKIA	0.76	2.29E-04	0.90	1.24E-05
ARHGEF2	0.40	2.31E-04	0.50	1.43E-08
LTB	-0.70	2.35E-04	-0.81	6.86E-05
IMPAD1	-0.32	2.35E-04	-0.29	7.16E-05
OXGR1	1.27	2.37E-04	1.95	1.02E-07
TGFB1	0.39	2.41E-04	0.40	2.87E-04
CRH	2.71	2.42E-04	2.86	9.70E-13
NR1H2	0.27	2.45E-04	0.41	1.07E-08
TNRC6A	-0.31	2.45E-04	-0.22	8.77E-03
EEA1	0.28	2.45E-04	0.28	6.19E-05
ITPKB	0.44	2.48E-04	0.63	5.41E-12
ALDH1L1	-1.40	2.48E-04	-1.02	5.58E-03
PRKAG1	-0.30	2.48E-04	-0.28	6.18E-05
UBA7	0.39	2.49E-04	0.66	1.67E-12
GPNMB	0.60	2.52E-04	0.47	1.50E-02
ICAM1	0.61	2.59E-04	0.88	4.29E-05
MEX3C	-0.28	2.60E-04	-0.36	9.22E-06
IMPDH1	-0.46	2.69E-04	-0.33	2.08E-03
CUL3	-0.21	2.70E-04	-0.17	1.14E-03
IGFBP5	-0.75	2.73E-04	-0.66	8.03E-04
ITGA4	0.48	2.74E-04	0.31	1.89E-02
RNF7	-0.34	2.76E-04	-0.30	2.11E-05
GLE1	-0.26	2.82E-04	-0.25	3.72E-04
REG1A	-7.05	2.82E-04	-2.33	8.26E-04
MYLIP	0.39	2.83E-04	0.66	1.12E-08
TMX1	-0.34	2.83E-04	-0.37	3.60E-06
HMSD	0.89	2.84E-04	1.42	8.06E-06
ASH1L	-0.36	2.85E-04	-0.36	1.42E-04
CYTL1	0.90	2.87E-04	0.68	3.39E-03
RNF41	0.27	2.90E-04	0.16	1.68E-02
IFT172	0.41	2.93E-04	0.48	2.41E-04
DOCK7	-0.32	2.97E-04	-0.57	2.91E-14

RFXAP	0.31	2.99E-04	0.50	1.73E-07
GABPA	0.24	3.03E-04	0.20	4.70E-04
FBN2	-1.55	3.14E-04	-1.09	3.14E-05
RPL24	-0.50	3.14E-04	-0.23	3.62E-02
SLC25A5	-0.38	3.14E-04	-0.37	2.84E-05
LILRA2	0.94	3.14E-04	1.67	1.17E-28
SPNS2	0.67	3.19E-04	1.21	6.44E-12
MMP23B	0.59	3.19E-04	0.82	3.30E-09
CUL4A	-0.53	3.25E-04	-0.25	3.24E-04
BSG	-0.34	3.29E-04	-0.23	3.01E-03
TNFRSF13C	-0.93	3.31E-04	-1.91	1.27E-09
RPS10	-0.55	3.38E-04	-0.39	7.62E-04
PSMB8	-0.46	3.41E-04	-0.29	1.23E-03
SVIP	-0.32	3.45E-04	-0.38	5.53E-04
NIPBL	-0.37	3.46E-04	-0.27	9.10E-04
ITGB5	-0.38	3.48E-04	-0.54	7.42E-08
RNASE2	-0.77	3.51E-04	-1.07	6.03E-08
EIF4E	-0.30	3.60E-04	-0.38	1.30E-05
CDC27	-0.23	3.60E-04	-0.45	8.36E-12
MYOZ2	1.07	3.62E-04	1.78	1.41E-06
TNF	0.72	3.62E-04	0.96	1.57E-04
CD274	0.74	3.65E-04	0.84	4.24E-04
TGFBI	-0.78	3.65E-04	-0.77	5.20E-05
UBE2B	0.27	3.68E-04	0.25	1.73E-03
SDC4	0.42	3.69E-04	0.54	1.73E-04
CORT	-0.68	3.74E-04	-0.47	3.07E-02
GNA12	-0.33	3.77E-04	-0.49	2.45E-10
UBE2G1	-0.24	3.81E-04	-0.25	2.61E-05
MPO	0.67	3.81E-04	0.40	4.27E-02
EPHB6	0.84	3.83E-04	1.56	1.04E-21
MGA	-0.32	3.87E-04	-0.21	6.22E-03
TNFRSF8	0.65	3.88E-04	0.71	6.11E-06
ATP11C	-0.39	3.90E-04	-0.49	6.13E-06
PDGFC	-0.47	3.90E-04	-0.60	2.41E-07
FCRL6	0.72	3.91E-04	1.23	1.85E-11
PLEKHM2	0.22	3.92E-04	0.16	1.29E-02
RPS19BP1	-0.37	3.96E-04	-0.19	3.71E-02
RNF135	-0.30	3.99E-04	-0.20	2.04E-02
BCOR	-0.36	4.04E-04	-0.30	5.40E-04
VAPB	-0.31	4.04E-04	-0.22	1.09E-03
SP100	0.27	4.06E-04	0.29	4.05E-05
RAD50	-0.29	4.08E-04	-0.43	1.58E-11
IFIT5	0.35	4.09E-04	0.35	1.14E-04

PHLPP2	0.35	4.17E-04	0.35	1.92E-03
FCRLA	-1.00	4.18E-04	-2.14	4.07E-15
TRAPPC9	-0.37	4.19E-04	-0.36	1.99E-04
CD1A	-1.33	4.23E-04	-0.91	9.79E-03
RFTN1	0.50	4.23E-04	0.83	2.51E-10
TOLLIP	0.25	4.25E-04	0.38	2.26E-09
RIPK2	-0.41	4.31E-04	-0.37	3.43E-03
ZNF426	0.36	4.33E-04	0.21	3.76E-02
CXCL10	-0.91	4.37E-04	-0.84	3.50E-03
SLC2A10	-0.71	4.40E-04	-0.60	1.24E-03
ATP8A1	0.61	4.42E-04	1.51	2.08E-16
ZNF346	-0.26	4.49E-04	-0.24	1.88E-03
MAPK8	-0.33	4.52E-04	-0.43	1.34E-07
CNTN2	-1.32	4.53E-04	-0.85	2.34E-02
ABCB7	-0.25	4.57E-04	-0.32	3.92E-06
NCOA3	-0.31	4.67E-04	-0.36	2.50E-06
VPREB3	-0.96	4.68E-04	-2.48	4.87E-16
ATF2	-0.30	4.72E-04	-0.40	1.41E-08
IL21R	-0.61	4.72E-04	-0.75	3.34E-06
CLPTM1	-0.25	4.73E-04	-0.35	2.11E-05
IBTK	-0.27	4.73E-04	-0.26	1.55E-03
MCM3AP	-0.24	4.78E-04	-0.18	8.26E-04
FOXC2	0.77	4.87E-04	1.01	4.19E-06
RPSA	-0.48	4.89E-04	-0.31	3.90E-03
CTAG1B	-5.66	4.90E-04	-1.91	3.72E-04
CD247	0.54	4.90E-04	0.65	9.48E-05
PPARA	-0.33	4.97E-04	-0.25	2.99E-03
GPR132	-0.52	4.99E-04	-0.65	6.08E-06
ARSA	-0.42	5.02E-04	-0.29	2.64E-03
MAN2B1	0.28	5.06E-04	0.23	1.24E-02
FLT3LG	0.42	5.13E-04	0.54	1.11E-06
DHX36	-0.28	5.14E-04	-0.33	5.23E-06
DUSP10	-0.47	5.16E-04	-0.43	9.89E-04
CACNA1A	-1.26	5.17E-04	-0.55	1.86E-02
DLG4	0.41	5.19E-04	0.50	5.99E-06
KLF12	0.44	5.27E-04	0.26	4.11E-02
TMEM37	0.60	5.28E-04	1.09	1.46E-11
MAP2K2	-0.27	5.29E-04	-0.28	5.23E-06
PURA	0.29	5.42E-04	0.29	1.36E-04
PIP5K1C	0.26	5.44E-04	0.18	1.92E-02
POLK	0.27	5.48E-04	0.16	3.71E-02
FKBP1A	0.23	5.48E-04	0.22	6.74E-04
NDUFA1	-0.37	5.51E-04	-0.29	3.68E-04

NID2	-0.63	5.55E-04	-0.92	3.40E-06
RASD2	-0.69	5.73E-04	-0.49	2.64E-02
IRGQ	-0.32	5.74E-04	-0.24	6.08E-03
LAMC2	-0.79	5.77E-04	-0.60	8.21E-03
MT2A	0.67	5.77E-04	0.47	9.76E-03
PARL	-0.31	5.77E-04	-0.26	5.22E-05
WRN	-0.32	5.82E-04	-0.35	1.81E-04
MASP2	0.57	5.86E-04	1.20	5.16E-11
CCNA1	1.09	5.86E-04	1.68	1.66E-05
ITFG2	0.30	5.89E-04	0.44	1.67E-07
AFF1	0.29	6.03E-04	0.27	3.35E-04
PSMB6	-0.35	6.08E-04	-0.26	1.31E-03
NUP54	-0.28	6.11E-04	-0.31	1.19E-05
PGLS	-0.37	6.15E-04	-0.25	6.30E-03
TLR6	-0.53	6.27E-04	-0.79	1.87E-08
GDAP1	-0.56	6.27E-04	-0.37	8.04E-03
CCND3	0.44	6.31E-04	0.80	1.28E-12
TNFSF10	0.58	6.36E-04	0.72	7.03E-05
LRP5	-0.39	6.37E-04	-0.22	4.54E-02
SCG2	-1.42	6.44E-04	-0.58	3.96E-02
RPS17	-0.46	6.46E-04	-0.33	5.48E-03
TNFRSF12A	-0.62	6.50E-04	-0.64	8.49E-04
DGKZ	-0.29	6.52E-04	-0.32	4.09E-05
EXOC4	-0.23	6.60E-04	-0.38	3.69E-09
CSTB	-0.46	6.63E-04	-0.32	2.17E-02
SLC39A3	-0.28	6.63E-04	-0.39	5.87E-09
LRRC17	-0.67	6.79E-04	-0.53	3.30E-03
ACTC1	0.92	6.83E-04	1.02	1.74E-03
NR4A2	0.71	6.88E-04	1.02	1.73E-07
MAGT1	-0.30	6.88E-04	-0.30	3.39E-04
PLA2G2D	-1.01	6.89E-04	-1.35	2.86E-05
CEP57	-0.24	7.02E-04	-0.25	1.38E-03
RTN4	0.25	7.03E-04	0.21	3.37E-03
BAX	-0.29	7.05E-04	-0.26	5.97E-04
SSX1	-5.70	7.06E-04	-1.30	4.61E-03
ROS1	0.81	7.08E-04	1.39	2.09E-06
ANO5	0.76	7.22E-04	1.53	2.00E-13
UPF1	-0.29	7.26E-04	-0.19	1.94E-02
KPNA1	-0.25	7.27E-04	-0.32	1.10E-09
PLCB2	0.49	7.35E-04	0.87	1.08E-08
RCHY1	0.27	7.47E-04	0.27	1.69E-03
PER3	0.54	7.53E-04	0.58	8.34E-05
MAP1LC3B	0.25	7.60E-04	0.18	2.05E-02

TNIK	0.61	7.65E-04	1.03	1.45E-08
CSF1	0.50	7.69E-04	0.46	5.00E-03
EPHB4	-0.41	7.69E-04	-0.40	1.31E-03
SLC9A1	0.33	7.71E-04	0.24	4.32E-02
MTAP	-0.47	7.73E-04	-0.41	4.09E-04
LINS1	-0.26	7.75E-04	-0.19	1.55E-02
ADIPOR1	-0.25	7.87E-04	-0.25	1.55E-03
DUSP22	0.27	7.88E-04	0.39	3.83E-07
LIG4	0.32	7.96E-04	0.41	2.28E-05
DSTN	0.34	8.09E-04	0.50	1.49E-05
GPC6	-0.75	8.09E-04	-1.10	2.79E-05
PLCD3	0.56	8.10E-04	0.62	1.20E-04
TNFSF15	-0.72	8.10E-04	-0.49	1.08E-02
TREML2	0.75	8.20E-04	0.38	3.34E-02
ASB3	-0.27	8.25E-04	-0.19	1.05E-02
GNAO1	-0.69	8.31E-04	-0.42	4.72E-02
MRAP2	0.93	8.40E-04	1.67	2.27E-09
CEBPA	0.65	8.41E-04	1.36	9.41E-14
EHMT1	-0.25	8.53E-04	-0.18	1.07E-02
PEX26	-0.27	8.53E-04	-0.34	1.45E-05
RPL35A	-0.42	8.58E-04	-0.30	3.70E-03
UTS2	-1.49	8.80E-04	-1.07	1.62E-03
PPP1R12B	0.45	8.96E-04	0.89	3.96E-14
BRI3	0.37	9.19E-04	0.52	3.65E-10
AFG3L2	-0.27	9.33E-04	-0.21	2.46E-03
PDGFD	-0.60	9.33E-04	-0.75	5.90E-05
CAMKK2	0.18	9.49E-04	0.22	2.97E-03
ZFP36L1	-0.40	9.55E-04	-0.27	2.28E-02
SLC4A2	-0.30	9.66E-04	-0.18	2.14E-02
C10orf11	0.45	9.68E-04	0.44	3.40E-04
SMPD1	0.28	9.70E-04	0.27	3.81E-03
SERPINI2	1.06	9.77E-04	1.84	1.61E-06
RPLP2	-0.37	9.80E-04	-0.24	8.54E-03
EDIL3	0.70	9.88E-04	0.55	1.36E-02
DLL1	0.61	1.00E-03	1.08	3.20E-07
PDXK	0.32	1.01E-03	0.57	3.73E-10
SEN3	-0.25	1.02E-03	-0.15	2.69E-02
BGN	-0.48	1.02E-03	-0.71	4.16E-05
HSPH1	-0.35	1.03E-03	-0.37	1.62E-04
TAGLN2	-0.37	1.05E-03	-0.32	2.83E-03
NRG2	0.82	1.08E-03	1.40	1.99E-09
ICAM4	0.78	1.08E-03	1.95	1.09E-09
RAB8A	0.18	1.11E-03	0.13	2.50E-02

KDR	0.57	1.12E-03	0.95	4.02E-10
FAM20C	-0.46	1.12E-03	-0.70	2.29E-09
IL19	-2.30	1.12E-03	-1.87	1.40E-04
SYP	0.78	1.12E-03	1.80	1.88E-20
ARHGEF5	-0.34	1.13E-03	-0.24	2.37E-02
POLDIP3	0.20	1.14E-03	0.25	1.50E-05
BAG3	-0.35	1.15E-03	-0.33	9.46E-03
C1QTNF3	-0.84	1.17E-03	-0.64	8.57E-03
TRPS1	-0.49	1.17E-03	-0.75	7.10E-07
DOLK	-0.23	1.18E-03	-0.22	2.28E-03
PIGN	-0.28	1.19E-03	-0.39	4.62E-06
PRKCD	0.27	1.20E-03	0.46	8.17E-07
PIGV	-0.29	1.20E-03	-0.25	7.28E-03
DCTN3	0.29	1.22E-03	0.27	4.87E-04
DHRS4	0.29	1.24E-03	0.38	1.47E-07
RPS3	-0.47	1.24E-03	-0.30	2.97E-03
CEP164	-0.31	1.25E-03	-0.18	4.95E-02
RPS26	-0.52	1.26E-03	-0.51	1.09E-05
MAML1	-0.24	1.26E-03	-0.31	1.86E-06
NMI	-0.33	1.27E-03	-0.32	2.91E-04
PDCD10	-0.35	1.28E-03	-0.27	6.38E-03
FAM83G	-0.46	1.29E-03	-0.45	4.65E-03
KLHL9	0.31	1.31E-03	0.24	2.34E-03
PLEKHA3	-0.20	1.31E-03	-0.22	2.73E-04
ABCD1	-0.35	1.31E-03	-0.32	8.72E-04
FCER1A	0.88	1.32E-03	1.98	1.23E-11
DPYD	0.47	1.32E-03	0.57	2.65E-05
HS2ST1	-0.33	1.34E-03	-0.47	1.03E-08
GTPBP1	0.23	1.36E-03	0.24	7.77E-04
NFKB2	-0.33	1.37E-03	-0.30	7.70E-03
PIAS4	-0.24	1.38E-03	-0.26	4.31E-04
TLR2	0.52	1.40E-03	0.70	4.67E-06
TBRG1	0.20	1.40E-03	0.38	1.32E-09
ARF3	-0.20	1.41E-03	-0.19	1.99E-02
IRF2BP2	-0.24	1.43E-03	-0.18	3.59E-02
IL24	-0.94	1.44E-03	-0.76	2.21E-03
PLEC	-0.47	1.44E-03	-0.44	1.39E-03
CDC26	-0.28	1.45E-03	-0.33	5.06E-05
BRWD1	-0.25	1.46E-03	-0.14	3.13E-02
IFT27	-0.36	1.47E-03	-0.28	1.97E-02
SOX1	-3.42	1.51E-03	-1.42	1.86E-02
SSBP2	0.40	1.53E-03	0.59	5.12E-07
TGM3	1.06	1.55E-03	1.44	3.53E-03

PTCHD1	0.93	1.57E-03	2.34	1.97E-11
SPAG1	-0.46	1.57E-03	-0.32	2.86E-02
ALDH7A1	-0.33	1.59E-03	-0.46	3.80E-08
DZIP3	0.35	1.63E-03	0.32	1.10E-02
HSPA1L	0.29	1.68E-03	0.38	2.06E-04
FUCA2	-0.29	1.70E-03	-0.43	2.32E-07
BID	-0.39	1.71E-03	-0.35	1.00E-03
IKZF3	-0.64	1.74E-03	-0.75	2.08E-05
DDX24	0.19	1.75E-03	0.16	1.30E-02
TRIM8	-0.32	1.76E-03	-0.25	7.57E-03
FAM26F	-0.70	1.76E-03	-0.61	1.45E-03
ITGA1	0.45	1.77E-03	0.45	2.67E-03
MTHFR	0.33	1.77E-03	0.74	2.17E-13
NCR1	0.84	1.77E-03	0.85	3.72E-03
DCTN6	0.27	1.77E-03	0.29	1.69E-03
DHX29	-0.27	1.77E-03	-0.34	9.56E-06
IL7	0.47	1.77E-03	0.44	4.78E-03
WEE1	-0.37	1.80E-03	-0.37	3.70E-03
ROR2	-0.56	1.81E-03	-0.85	3.36E-07
ZNF592	0.24	1.84E-03	0.27	1.52E-03
PRKAR1B	0.40	1.85E-03	0.42	1.04E-03
IFT122	0.26	1.85E-03	0.26	4.67E-03
EIF2B3	-0.24	1.87E-03	-0.33	5.86E-05
MAPKAPK2	-0.21	1.88E-03	-0.26	1.59E-04
RAB5B	0.20	1.89E-03	0.24	8.14E-05
SEMA5B	-0.79	1.90E-03	-0.56	4.40E-02
BDKRB2	-0.62	1.96E-03	-0.52	4.91E-03
PRSS12	0.82	1.97E-03	2.02	3.79E-12
ITFG1	-0.25	1.97E-03	-0.31	1.04E-05
ABCC1	-0.37	1.99E-03	-0.33	8.70E-04
CTNNB1	-0.29	1.99E-03	-0.36	7.80E-05
STT3B	-0.26	2.00E-03	-0.39	9.87E-07
AP2S1	-0.29	2.01E-03	-0.44	1.01E-08
CYP4F22	0.71	2.01E-03	1.19	3.64E-07
A4GNT	0.90	2.01E-03	1.23	9.09E-05
UBB	0.25	2.02E-03	0.22	4.22E-03
CEBPD	0.48	2.02E-03	0.88	5.38E-08
DSCR4	-5.32	2.03E-03	-2.38	3.68E-08
PPT1	0.29	2.03E-03	0.19	2.89E-02
VTN	1.30	2.05E-03	2.07	2.17E-17
TSG101	-0.21	2.06E-03	-0.17	2.64E-02
UBA5	-0.20	2.06E-03	-0.17	1.32E-02
FXR2	0.23	2.07E-03	0.36	6.31E-07

NRIP1	-0.36	2.08E-03	-0.39	3.52E-04
TCAP	0.59	2.09E-03	1.46	1.14E-15
SNURF	0.61	2.11E-03	0.54	1.24E-02
TPP2	-0.24	2.15E-03	-0.22	2.50E-03
RNF19B	-0.27	2.17E-03	-0.22	1.65E-03
RFX4	1.30	2.19E-03	1.92	2.76E-06
SPATA2	-0.24	2.21E-03	-0.15	3.48E-02
AGGF1	-0.19	2.22E-03	-0.33	6.56E-08
RGS1	-0.62	2.23E-03	-0.65	3.94E-04
NCOA5	-0.20	2.25E-03	-0.24	2.24E-04
ARF6	-0.22	2.26E-03	-0.24	3.85E-04
SLFN12L	-0.53	2.27E-03	-0.42	6.42E-03
ELN	0.59	2.33E-03	0.79	3.44E-04
MED23	-0.21	2.34E-03	-0.28	4.01E-04
SPRED1	0.32	2.37E-03	0.34	1.13E-03
SCNN1G	0.74	2.38E-03	2.21	1.52E-17
EIF2S1	-0.26	2.42E-03	-0.40	3.76E-08
GPKOW	-0.26	2.45E-03	-0.28	1.51E-06
CRIP1	0.52	2.46E-03	0.87	7.61E-06
POU2F1	-0.42	2.48E-03	-0.47	3.09E-05
CSNK1G1	-0.24	2.52E-03	-0.30	7.51E-05
TNFRSF10C	-0.54	2.53E-03	-0.44	3.99E-02
HNRNPH1	-0.23	2.53E-03	-0.18	1.21E-02
KLHL3	0.40	2.54E-03	0.37	1.57E-02
AR	0.73	2.54E-03	0.97	2.23E-05
NQO2	-0.40	2.56E-03	-0.30	2.06E-03
DCTN2	-0.23	2.56E-03	-0.26	1.37E-03
SMURF2	-0.36	2.58E-03	-0.29	2.06E-02
PTN	0.73	2.58E-03	1.76	3.52E-10
ARPC1B	-0.33	2.59E-03	-0.30	1.08E-03
MMAB	0.30	2.59E-03	0.56	7.55E-09
BTN1A1	-0.88	2.59E-03	-1.57	2.62E-07
SDHB	-0.25	2.60E-03	-0.25	1.66E-04
CBL	0.29	2.65E-03	0.32	1.95E-04
DNTTIP2	-0.24	2.66E-03	-0.31	2.78E-05
CTCF	-0.16	2.68E-03	-0.28	4.79E-07
ACAA1	0.27	2.68E-03	0.44	2.78E-06
INSR	-0.38	2.68E-03	-0.26	1.99E-02
TNNT2	0.81	2.69E-03	2.81	2.92E-30
BCL7B	0.22	2.70E-03	0.16	4.10E-02
SLC23A2	0.32	2.70E-03	0.41	9.35E-05
FCRLB	-0.52	2.70E-03	-0.65	3.00E-04
ATP4A	-2.80	2.71E-03	-1.56	5.63E-04

RPL17	-0.41	2.73E-03	-0.30	8.39E-03
TAB3	-0.23	2.76E-03	-0.29	6.91E-05
CD40	0.41	2.79E-03	0.41	2.43E-03
MEPE	-1.51	2.80E-03	-1.64	3.22E-03
GHITM	-0.28	2.81E-03	-0.28	1.29E-03
HOXA7	0.60	2.81E-03	0.68	1.63E-03
RNF126	-0.27	2.83E-03	-0.24	6.21E-03
GRP	1.20	2.84E-03	1.46	6.75E-04
TINAGL1	0.49	2.89E-03	0.84	3.97E-07
LRIG1	0.36	2.90E-03	0.57	1.87E-08
HRH3	-2.83	2.97E-03	-1.14	7.70E-03
RAB17	0.38	3.00E-03	0.92	8.31E-18
DUSP14	-0.34	3.06E-03	-0.32	9.43E-03
ANKHD1	-0.26	3.11E-03	-0.25	4.50E-04
BPGM	-0.35	3.11E-03	-0.34	1.90E-03
NDUFA13	-0.37	3.13E-03	-0.26	6.54E-03
CD1C	0.66	3.14E-03	1.22	1.37E-06
DPCD	-0.34	3.14E-03	-0.50	9.05E-04
HSPA8	-0.26	3.19E-03	-0.49	6.72E-08
BCL6	0.29	3.19E-03	0.46	9.66E-07
FES	0.32	3.25E-03	0.49	1.86E-09
ARHGEF4	0.67	3.28E-03	1.33	2.13E-07
UEVLD	-0.24	3.29E-03	-0.40	5.21E-06
HACE1	0.28	3.36E-03	0.21	3.25E-02
IFI16	-0.43	3.38E-03	-0.76	7.39E-07
RPS27A	-0.34	3.45E-03	-0.24	1.91E-02
CSNK1A1	-0.21	3.45E-03	-0.34	1.16E-07
NRAS	-0.27	3.46E-03	-0.29	7.21E-04
TBCB	-0.32	3.46E-03	-0.24	3.67E-03
PTPN13	0.64	3.49E-03	1.56	2.44E-14
RPA1	-0.20	3.50E-03	-0.26	3.48E-05
JMJD6	-0.24	3.53E-03	-0.20	1.84E-02
FOXJ2	0.22	3.58E-03	0.20	8.15E-03
EDA	0.60	3.59E-03	1.20	2.12E-10
HOMER1	0.36	3.61E-03	0.57	6.31E-05
DIP2B	-0.26	3.69E-03	-0.28	6.64E-04
OTUD4	0.20	3.70E-03	0.14	1.85E-02
S100A7A	-3.73	3.71E-03	-1.45	5.91E-03
FBXL4	-0.21	3.71E-03	-0.33	7.94E-06
ADAMTSL2	0.45	3.74E-03	0.40	2.86E-02
CD1D	0.40	3.80E-03	0.39	6.18E-03
TERF1	-0.24	3.83E-03	-0.19	2.92E-03
PDCD2	-0.25	3.83E-03	-0.36	1.59E-06

DNM2	0.20	3.86E-03	0.30	2.52E-05
NTRK1	0.59	3.87E-03	0.70	2.21E-03
BIVM	0.30	3.88E-03	0.34	1.45E-03
IPO5	-0.26	3.94E-03	-0.29	6.50E-04
ORAI3	-0.30	3.97E-03	-0.21	1.79E-02
TDRD7	0.23	3.98E-03	0.19	2.52E-02
TRIP11	-0.26	4.05E-03	-0.36	5.67E-07
SUPT4H1	-0.24	4.07E-03	-0.30	7.88E-06
RREB1	-0.27	4.11E-03	-0.29	7.52E-04
FAH	-0.35	4.15E-03	-0.26	2.01E-02
XRN2	-0.22	4.16E-03	-0.28	4.90E-04
TACR1	0.74	4.17E-03	1.48	4.36E-09
RARG	-0.37	4.20E-03	-0.31	2.30E-02
XK	-0.69	4.25E-03	-0.49	3.37E-02
CLEC2A	-3.22	4.27E-03	-0.98	1.87E-02
ANKH	-0.37	4.33E-03	-0.44	1.32E-04
PLVAP	-0.41	4.39E-03	-0.84	8.31E-06
CRLS1	0.31	4.39E-03	0.59	3.39E-07
PNP	-0.36	4.42E-03	-0.44	1.51E-03
STX3	0.24	4.46E-03	0.42	1.12E-06
PCNT	-0.31	4.46E-03	-0.17	4.13E-02
NPHS1	-1.25	4.52E-03	-0.89	4.46E-02
CTAG2	-4.79	4.54E-03	-1.96	6.10E-04
FREM2	0.68	4.55E-03	2.00	5.82E-14
PTPN12	0.19	4.57E-03	0.22	2.85E-03
DUSP16	0.28	4.60E-03	0.41	2.49E-04
NPAT	-0.22	4.60E-03	-0.33	1.32E-05
SPSB4	0.72	4.60E-03	0.86	1.16E-04
TNPO3	-0.24	4.61E-03	-0.37	9.04E-07
ATOX1	-0.27	4.71E-03	-0.43	2.96E-07
IGFBP1	-1.87	4.75E-03	-1.23	1.15E-02
MIB1	-0.26	4.78E-03	-0.32	7.51E-05
STX17	0.17	4.84E-03	0.18	4.63E-03
RFK	-0.35	4.89E-03	-0.46	2.06E-04
LAMC1	-0.32	4.93E-03	-0.46	2.90E-06
EXOSC9	-0.20	4.96E-03	-0.21	1.70E-03
GNAI3	-0.20	5.06E-03	-0.41	2.48E-10
RASGRF2	-0.47	5.06E-03	-0.58	2.99E-03
RCL1	0.24	5.10E-03	0.28	1.79E-04
BTLA	-0.56	5.13E-03	-0.67	2.04E-04
CTF1	0.43	5.15E-03	0.95	6.28E-10
GZMH	0.58	5.15E-03	1.10	3.70E-08
BLOC1S3	-0.23	5.17E-03	-0.22	9.40E-03

MAPK14	-0.18	5.36E-03	-0.15	1.99E-02
FECH	-0.32	5.36E-03	-0.28	1.11E-02
TPM1	-0.34	5.44E-03	-0.37	5.98E-03
MARVELD2	-0.27	5.46E-03	-0.25	4.99E-03
RHOC	-0.33	5.49E-03	-0.46	1.99E-05
CDHR1	0.68	5.50E-03	0.87	1.07E-03
OTUD7A	0.58	5.57E-03	0.94	3.25E-05
GLG1	-0.20	5.69E-03	-0.37	8.01E-08
GPR174	-0.61	5.75E-03	-0.72	5.51E-05
TMED1	-0.25	5.76E-03	-0.22	5.84E-03
KCNQ1	0.52	5.85E-03	0.89	1.76E-05
BMP5	0.67	5.88E-03	1.67	4.01E-12
RASA1	-0.25	5.88E-03	-0.32	4.42E-04
DISC1	-0.34	5.89E-03	-0.53	5.90E-06
KLHL25	-0.34	6.12E-03	-0.32	1.40E-02
SLC25A4	0.29	6.13E-03	0.56	6.47E-06
CD72	-0.43	6.16E-03	-0.61	4.66E-05
ULBP3	-0.44	6.27E-03	-0.74	3.63E-07
MYH15	0.74	6.34E-03	1.26	4.27E-08
PIBF1	-0.26	6.35E-03	-0.18	3.31E-02
AP2B1	-0.22	6.38E-03	-0.36	1.10E-06
SPHK1	-0.55	6.49E-03	-0.68	1.25E-03
ANKRD17	-0.22	6.54E-03	-0.28	7.56E-06
SMCHD1	-0.27	6.56E-03	-0.19	2.07E-02
FDX1	0.27	6.64E-03	0.33	1.91E-04
CLCN3	-0.28	6.66E-03	-0.39	6.27E-07
SIAH1	-0.18	6.67E-03	-0.16	3.44E-02
RAB18	-0.21	6.68E-03	-0.23	3.09E-03
ADORA3	-0.48	6.69E-03	-0.74	2.21E-04
IKZF5	0.20	6.69E-03	0.30	2.63E-04
AKAP9	0.26	6.76E-03	0.25	7.69E-03
NUP153	-0.25	6.77E-03	-0.32	1.12E-05
RNASEK	0.23	6.93E-03	0.34	3.30E-05
NCOA2	-0.38	6.94E-03	-0.29	8.32E-03
SERTAD2	-0.25	6.98E-03	-0.25	6.86E-03
ITGB7	-0.38	6.99E-03	-0.49	3.35E-04
CD180	-0.45	7.00E-03	-1.12	1.38E-10
GCA	0.28	7.03E-03	0.36	4.15E-05
OSBPL1A	0.32	7.07E-03	0.55	3.29E-10
PLCB4	0.65	7.07E-03	1.16	9.96E-06
ACD	-0.24	7.09E-03	-0.23	8.65E-03
PKD1	0.31	7.22E-03	0.45	4.55E-05
TLR5	0.35	7.22E-03	0.47	3.14E-04

PIGA	0.34	7.25E-03	0.39	1.11E-02
SLC15A4	-0.18	7.28E-03	-0.18	1.01E-02
GTF2I	-0.28	7.52E-03	-0.37	4.16E-05
LGALS2	0.65	7.58E-03	1.04	3.27E-07
LPAR4	-0.68	7.66E-03	-1.14	2.76E-05
CNOT7	-0.23	7.66E-03	-0.32	1.74E-04
CLPP	-0.23	7.69E-03	-0.23	1.57E-03
APLP2	0.27	7.71E-03	0.54	3.73E-08
TIAM2	-0.41	7.90E-03	-0.50	1.73E-03
PSTPIP2	-0.37	7.93E-03	-0.40	4.25E-03
GLYR1	-0.16	7.95E-03	-0.13	1.31E-02
UPF2	-0.21	8.03E-03	-0.18	2.93E-02
LSM14A	-0.21	8.06E-03	-0.19	3.80E-03
ATP6V1E1	0.19	8.10E-03	0.21	4.81E-03
RPTOR	-0.24	8.13E-03	-0.25	1.05E-03
SIGLEC8	0.53	8.25E-03	0.82	6.97E-04
AHCYL1	-0.19	8.27E-03	-0.17	7.14E-03
LTF	-0.91	8.28E-03	-1.12	6.12E-03
PARP9	-0.24	8.39E-03	-0.21	8.73E-04
DYNC1LI2	0.17	8.42E-03	0.15	2.63E-02
IL12A	0.50	8.42E-03	0.63	3.27E-03
TDP2	-0.33	8.43E-03	-0.29	4.78E-03
PPP1R14C	0.58	8.43E-03	1.02	3.03E-08
UQCRC2	-0.22	8.46E-03	-0.22	7.18E-04
CTSD	0.32	8.46E-03	0.33	1.65E-02
AP1B1	-0.18	8.55E-03	-0.29	5.68E-05
SLC20A2	-0.36	8.55E-03	-0.31	7.47E-03
NCR3	0.53	8.75E-03	0.54	3.24E-02
UBE2D2	-0.18	8.76E-03	-0.29	8.33E-06
ALCAM	0.35	8.79E-03	0.60	5.21E-07
ANXA7	-0.18	8.79E-03	-0.20	1.64E-03
DEFB4A	-2.17	8.81E-03	-2.35	7.12E-04
SLC25A6	-0.29	9.01E-03	-0.27	6.83E-03
MFN2	0.16	9.13E-03	0.12	3.45E-02
TRIM38	-0.19	9.13E-03	-0.15	3.47E-02
CES1	0.79	9.16E-03	2.71	6.22E-37
HIP1	0.34	9.21E-03	0.45	9.88E-04
LYST	0.27	9.26E-03	0.29	1.47E-02
CTAGE1	-0.46	9.29E-03	-0.53	2.34E-03
IL20	1.24	9.33E-03	1.53	2.37E-03
BTRC	-0.17	9.35E-03	-0.28	4.24E-06
HDAC9	-0.56	9.45E-03	-0.46	2.24E-02
HGF	0.55	9.47E-03	0.86	2.26E-07

SH2B2	-0.40	9.55E-03	-0.48	9.56E-03
PKN3	0.29	9.60E-03	0.59	1.54E-05
IFITM2	0.32	9.62E-03	0.47	8.02E-05
TFEB	0.27	9.79E-03	0.43	2.19E-05
MAP3K11	0.20	9.82E-03	0.30	4.48E-05
C21orf91	0.30	9.85E-03	0.27	2.53E-02
MAK16	-0.23	9.91E-03	-0.22	1.21E-02
KCNMA1	0.48	9.94E-03	0.45	2.76E-03
CCL11	-0.69	1.00E-02	-0.73	6.59E-03
SFTPB	0.70	1.02E-02	2.27	1.03E-09
LRRFIP2	0.16	1.03E-02	0.26	4.38E-06
HDAC5	0.22	1.03E-02	0.38	2.81E-07
LEP	-1.77	1.03E-02	-3.21	4.10E-11
DAPP1	-0.40	1.04E-02	-0.56	1.64E-04
DCTN1	0.20	1.08E-02	0.26	1.60E-05
VCAM1	-0.47	1.08E-02	-1.15	1.11E-08
RAB4B	0.23	1.09E-02	0.36	8.94E-05
RIOK3	-0.22	1.09E-02	-0.17	4.52E-02
VEGFC	0.49	1.10E-02	0.63	6.08E-05
PLSCR1	-0.30	1.11E-02	-0.28	3.24E-03
GUCY1B3	0.31	1.12E-02	0.37	1.42E-03
FUZ	0.27	1.12E-02	0.37	3.03E-03
PSMB1	-0.25	1.14E-02	-0.30	1.59E-04
GLTSCR2	0.24	1.15E-02	0.39	5.12E-05
RSAD2	0.43	1.16E-02	0.53	3.00E-03
AP3B1	-0.16	1.17E-02	-0.34	1.48E-08
PAF1	-0.21	1.17E-02	-0.17	8.39E-03
PYCARD	0.38	1.18E-02	0.56	6.67E-06
TMPRSS2	0.49	1.19E-02	1.36	2.12E-08
CRADD	0.29	1.21E-02	0.36	7.52E-04
NINJ1	-0.27	1.22E-02	-0.28	5.90E-03
HFE	-0.31	1.23E-02	-0.41	4.12E-04
TLR3	0.40	1.24E-02	0.64	2.56E-06
MAP3K1	-0.23	1.24E-02	-0.25	2.20E-03
RELB	-0.28	1.25E-02	-0.51	3.72E-05
EPN1	-0.21	1.25E-02	-0.18	4.68E-02
ATP6V1D	-0.19	1.25E-02	-0.23	3.83E-03
EIF5A2	-0.37	1.26E-02	-0.45	6.52E-04
DLD	-0.22	1.27E-02	-0.26	2.44E-04
BTN3A1	0.26	1.29E-02	0.29	2.62E-03
ALPP	0.92	1.33E-02	3.79	8.46E-20
DCK	-0.27	1.35E-02	-0.32	7.95E-04
LGALS3	0.33	1.38E-02	0.52	1.63E-05

ATP5L	-0.26	1.38E-02	-0.19	3.46E-02
SIPA1	-0.22	1.39E-02	-0.17	3.99E-02
ECE1	-0.28	1.40E-02	-0.31	1.77E-02
FLNB	-0.27	1.40E-02	-0.31	5.58E-03
RLIM	-0.17	1.41E-02	-0.26	9.83E-05
SOS1	-0.18	1.43E-02	-0.28	1.25E-05
ZNF496	-0.24	1.44E-02	-0.21	3.65E-02
C16orf62	-0.18	1.46E-02	-0.26	6.48E-06
FDFT1	0.27	1.46E-02	0.34	8.44E-03
TRIM13	0.19	1.49E-02	0.24	3.68E-03
POU2F2	-0.43	1.49E-02	-0.80	1.12E-06
ABCC6	0.43	1.49E-02	1.41	6.30E-17
SPIB	-0.67	1.50E-02	-1.14	8.42E-06
KEAP1	-0.22	1.51E-02	-0.17	2.35E-02
SLCO1C1	0.49	1.52E-02	0.60	2.64E-02
ANXA2	0.29	1.53E-02	0.28	8.71E-03
ACOX1	-0.19	1.55E-02	-0.14	3.93E-02
XYLT1	-0.43	1.55E-02	-0.53	3.97E-03
FBXL22	-0.32	1.58E-02	-0.42	8.64E-03
PKNOX1	-0.14	1.58E-02	-0.13	1.99E-02
TMEM43	0.20	1.61E-02	0.22	6.28E-03
BCL10	-0.24	1.61E-02	-0.39	5.27E-04
DCAF7	-0.16	1.61E-02	-0.26	4.28E-05
SLC34A2	0.54	1.63E-02	1.16	3.21E-06
KIF21B	-0.38	1.64E-02	-0.29	4.42E-02
FUT4	-0.30	1.67E-02	-0.34	1.64E-03
MPRIP	0.24	1.68E-02	0.41	1.33E-05
CIZ1	-0.17	1.70E-02	-0.20	1.96E-03
SLC17A5	0.22	1.71E-02	0.25	1.20E-03
CHUK	-0.18	1.74E-02	-0.30	4.42E-06
BAG4	-0.30	1.74E-02	-0.37	6.40E-04
NLRP1	0.36	1.75E-02	0.74	1.33E-06
PSEN2	-0.20	1.77E-02	-0.23	4.97E-03
RNF6	0.16	1.81E-02	0.16	9.82E-03
RNASE1	0.48	1.81E-02	1.21	6.13E-08
POMC	0.60	1.83E-02	0.68	2.55E-04
ODF3B	0.36	1.85E-02	0.81	9.07E-07
STAT6	0.19	1.85E-02	0.36	8.98E-07
GLIS2	0.26	1.87E-02	0.41	4.89E-03
STEAP4	0.50	1.94E-02	0.95	4.72E-05
CCL8	-0.61	1.94E-02	-0.75	5.65E-03
EXOSC6	-0.21	1.96E-02	-0.21	3.17E-03
IFIH1	-0.31	1.98E-02	-0.23	1.60E-02

ULBP1	0.47	1.98E-02	0.53	1.38E-02
HTT	0.20	1.99E-02	0.33	2.76E-05
PPP1CB	-0.18	2.00E-02	-0.26	6.29E-04
UBE2J1	-0.17	2.01E-02	-0.36	6.32E-08
PRPF38A	-0.15	2.02E-02	-0.17	7.92E-03
DYNLL1	-0.21	2.04E-02	-0.20	3.08E-02
SEMA3E	0.66	2.04E-02	1.91	4.53E-11
LY9	-0.42	2.06E-02	-0.49	9.77E-03
RYK	-0.19	2.07E-02	-0.20	1.82E-02
GALNS	-0.23	2.08E-02	-0.19	2.30E-02
SERINC5	0.35	2.09E-02	0.28	1.03E-02
GP1BA	0.46	2.11E-02	0.60	1.67E-02
RRM2B	0.24	2.17E-02	0.34	2.09E-03
FBXO9	0.19	2.19E-02	0.38	1.52E-06
UBE2N	-0.21	2.21E-02	-0.18	3.40E-02
SIGLEC10	-0.42	2.23E-02	-0.44	1.46E-02
ALAD	0.18	2.24E-02	0.32	9.96E-06
CCDC115	0.16	2.24E-02	0.22	2.97E-03
C4BPA	0.68	2.26E-02	2.52	6.66E-13
S1PR3	-0.34	2.31E-02	-0.43	1.57E-04
ASB5	0.80	2.35E-02	1.07	5.25E-03
PIK3CB	-0.19	2.36E-02	-0.34	7.62E-05
RBP1	0.43	2.39E-02	0.59	4.44E-04
RNF128	0.54	2.41E-02	1.84	5.02E-12
MUC17	-4.11	2.42E-02	-1.11	2.14E-02
DYNLL2	-0.19	2.42E-02	-0.23	2.81E-03
GLA	-0.27	2.44E-02	-0.33	6.22E-04
GLCE	-0.26	2.44E-02	-0.34	3.01E-04
KLRK1	0.44	2.48E-02	0.96	7.58E-08
RAB3GAP1	-0.13	2.52E-02	-0.17	2.88E-03
TXK	0.41	2.54E-02	0.84	5.94E-06
COL6A1	-0.36	2.55E-02	-0.52	2.14E-03
CXCR3	-0.42	2.56E-02	-0.43	1.24E-02
CHRNA1	-0.69	2.58E-02	-0.98	1.15E-02
TRIM63	0.80	2.58E-02	1.88	1.65E-08
COMMD3	-0.23	2.58E-02	-0.24	1.62E-02
UBA3	-0.17	2.59E-02	-0.19	1.30E-02
PFN1	-0.18	2.60E-02	-0.20	4.74E-03
TNFAIP6	-0.44	2.61E-02	-0.81	7.43E-05
NPC1	0.23	2.62E-02	0.32	9.76E-04
USP8	0.16	2.63E-02	0.18	5.11E-03
RHOT1	0.16	2.67E-02	0.24	5.03E-04
CIITA	0.35	2.69E-02	0.60	2.20E-04

RGS4	-0.56	2.70E-02	-0.99	9.01E-05
MYH14	0.31	2.72E-02	0.80	1.25E-07
HECTD1	-0.21	2.75E-02	-0.14	4.28E-02
RASA4	0.28	2.78E-02	0.47	1.54E-04
SEMA3C	-0.37	2.78E-02	-0.42	1.02E-02
COG8	-0.14	2.81E-02	-0.23	3.09E-04
EIF2AK4	-0.16	2.81E-02	-0.24	4.02E-04
PLXND1	0.27	2.82E-02	0.35	1.72E-03
LANCL2	-0.23	2.82E-02	-0.31	3.97E-03
TBX21	0.50	2.82E-02	1.19	8.53E-09
FOLR1	0.56	2.86E-02	2.00	2.35E-08
MS4A1	-0.69	2.88E-02	-1.48	3.23E-05
MAST4	0.32	2.88E-02	0.37	1.63E-03
APLF	-0.24	2.92E-02	-0.34	1.35E-03
PHLDA1	-0.38	2.94E-02	-0.41	3.04E-02
CD48	0.37	2.94E-02	0.34	4.78E-02
MMP2	-0.36	2.94E-02	-0.65	5.91E-05
KBTBD6	-0.21	2.97E-02	-0.21	3.24E-02
ICAM5	0.48	2.97E-02	1.78	1.08E-11
DUOXA2	0.70	2.99E-02	2.37	5.65E-17
IL1RAP	-0.34	3.00E-02	-0.38	1.53E-02
MUC15	0.59	3.03E-02	1.32	8.96E-06
CUL1	-0.13	3.06E-02	-0.21	4.73E-04
MED12	-0.19	3.11E-02	-0.30	1.27E-03
CEBPE	0.54	3.12E-02	0.52	9.97E-03
ST3GAL4	-0.33	3.12E-02	-0.31	9.88E-03
PDLIM5	-0.25	3.14E-02	-0.50	3.23E-06
UBE2E1	-0.19	3.16E-02	-0.20	1.23E-02
RCAN2	0.41	3.17E-02	0.78	5.00E-08
SAMD9L	0.33	3.26E-02	0.54	6.23E-04
CASP4	-0.24	3.26E-02	-0.25	4.76E-03
TOR1A	-0.14	3.27E-02	-0.25	2.60E-05
BBS5	0.21	3.27E-02	0.33	1.89E-03
GATA3	0.43	3.27E-02	0.64	7.92E-05
TECPR1	0.24	3.28E-02	0.38	4.81E-05
KALRN	0.34	3.40E-02	0.33	4.37E-02
UXS1	0.17	3.41E-02	0.36	1.18E-05
NSA2	-0.22	3.43E-02	-0.21	1.02E-02
RAB43	-0.21	3.44E-02	-0.21	2.15E-02
PPARGC1A	0.60	3.45E-02	1.92	6.79E-12
BTN2A2	0.19	3.46E-02	0.38	8.02E-05
MICA	0.24	3.47E-02	0.33	1.15E-03
HLA-C	0.27	3.47E-02	0.30	1.47E-03

CLECL1	-0.41	3.48E-02	-0.66	4.41E-03
DNAJC6	-0.42	3.57E-02	-0.42	1.94E-02
JAG1	0.34	3.59E-02	0.29	3.07E-02
GABARAP	0.17	3.61E-02	0.23	1.89E-03
MYO18A	-0.25	3.64E-02	-0.19	4.51E-02
ST6GAL1	-0.30	3.65E-02	-0.26	1.24E-02
RPS6KA3	-0.21	3.67E-02	-0.19	3.29E-02
REN	0.58	3.70E-02	1.31	1.50E-06
ADH5	0.19	3.76E-02	0.20	1.92E-02
ADAM17	0.20	3.76E-02	0.20	1.51E-02
ANKRD2	0.55	3.78E-02	0.65	1.88E-02
PJA1	-0.18	3.80E-02	-0.37	1.83E-07
PKN1	0.18	3.80E-02	0.19	4.08E-03
FKBP8	0.17	3.82E-02	0.31	2.53E-06
GLI2	-0.35	3.82E-02	-0.44	5.04E-03
ACTR2	-0.12	3.82E-02	-0.35	3.96E-09
NLRP12	0.51	3.84E-02	0.82	1.93E-03
SIT1	-0.41	3.86E-02	-0.46	1.39E-02
CH25H	0.48	3.92E-02	0.66	1.12E-02
NRL	0.24	3.92E-02	0.49	8.38E-05
ATP5F1	-0.18	3.92E-02	-0.27	9.38E-04
ATN1	0.18	3.93E-02	0.34	3.93E-04
ERCC4	-0.16	3.95E-02	-0.30	3.03E-04
CD28	-0.34	4.04E-02	-0.73	4.77E-05
CSK	-0.15	4.09E-02	-0.32	5.31E-06
NR1H3	0.23	4.09E-02	0.25	2.55E-02
H2AFY2	-0.41	4.18E-02	-0.48	6.30E-03
CHRM3	0.59	4.21E-02	1.68	1.50E-07
UBOX5	0.17	4.22E-02	0.22	7.35E-03
DDX21	-0.24	4.22E-02	-0.45	1.76E-05
SIRT2	0.18	4.23E-02	0.24	2.16E-04
PAX5	-0.63	4.24E-02	-2.21	1.11E-10
MAP4K2	0.22	4.26E-02	0.33	7.47E-04
RAG1	0.41	4.27E-02	0.72	5.68E-05
FGF18	0.53	4.31E-02	1.75	9.87E-11
NHLRC3	0.15	4.32E-02	0.26	1.61E-03
IL18	0.31	4.34E-02	0.38	1.56E-02
SECTM1	0.34	4.34E-02	0.73	7.76E-08
MAPK9	-0.18	4.37E-02	-0.18	1.90E-03
DAZ1	-1.41	4.38E-02	-2.05	8.57E-06
GNA15	-0.26	4.42E-02	-0.38	3.90E-04
ITGA7	0.28	4.48E-02	0.55	3.75E-04
PHF10	0.16	4.55E-02	0.19	3.07E-02

GNB2	-0.18	4.56E-02	-0.18	1.68E-02
PDE4A	0.20	4.63E-02	0.25	3.66E-02
CLEC5A	-0.40	4.67E-02	-0.65	1.93E-03
KLHL11	-0.27	4.68E-02	-0.37	5.20E-03
GTF2H2	-0.39	4.76E-02	-0.56	2.79E-03
ACTN1	-0.22	4.78E-02	-0.36	2.64E-03
TCF7L2	0.17	4.79E-02	0.35	2.67E-04
CDKN2D	0.22	4.81E-02	0.32	6.30E-03
ANKRD13A	0.16	4.84E-02	0.30	1.90E-03
HIRIP3	0.18	4.92E-02	0.37	7.02E-06
IGFALS	0.54	4.97E-02	2.54	6.04E-16

Supplementary Table 3. Univariate Cox proportional hazard regression results for significant DEGs (FDR<0.05).

Chromosome	Gene	HR (95% CI)	P value	FDR
12p11.23	ARNTL2	1.35 (1.19-1.53)	4.45E-06	3.65E-03
15q15.1	PLA2G4F	0.83 (0.77-0.90)	7.82E-06	3.65E-03
10q24.32	CYP17A1	0.91 (0.86-0.95)	5.49E-05	1.71E-02
8p21.3	LOXL2	1.31 (1.15-1.51)	8.39E-05	1.76E-02
3p22.1	VIPR1	0.81 (0.73-0.90)	9.40E-05	1.76E-02
1p34.3	GJB3	1.16 (1.08-1.26)	1.38E-04	2.14E-02
12p13.31	GAPDH	1.56 (1.24-1.96)	1.67E-04	2.21E-02
3p21.31	CACNA2D2	0.88 (0.82-0.94)	1.92E-04	2.21E-02
5q34	HMMR	1.32 (1.14-1.53)	2.13E-04	2.21E-02
15q22.31	DAPK2	0.74 (0.63-0.87)	2.56E-04	2.40E-02
5q35.1	NKX2-5	1.09 (1.04-1.15)	3.23E-04	2.64E-02
4p16.3	TACC3	1.44 (1.18-1.75)	3.71E-04	2.64E-02
13q12.11	GJB2	1.20 (1.08-1.32)	3.86E-04	2.64E-02
18q12.1	DSG3	1.10 (1.04-1.16)	4.09E-04	2.64E-02
14q23.1	SIX1	0.84 (0.77-0.93)	4.24E-04	2.64E-02
3p21.31	COL7A1	1.15 (1.06-1.25)	5.15E-04	2.85E-02
19q13.31	LYPD3	1.17 (1.07-1.28)	5.19E-04	2.85E-02
5q13.2	CCNB1	1.34 (1.13-1.58)	6.80E-04	3.53E-02
1p13.3	SLC6A17	1.14 (1.06-1.23)	7.69E-04	3.74E-02
18q21.32	MC4R	0.91 (0.86-0.96)	8.00E-04	3.74E-02
16p12.2	PLK1	1.27 (1.10-1.45)	8.69E-04	3.86E-02
16q11.2	SHCBP1	1.29 (1.11-1.50)	9.39E-04	3.94E-02
8q21.11	TRPA1	1.13 (1.05-1.21)	9.70E-04	3.94E-02
12p13.33	FOXM1	1.24 (1.09-1.41)	1.04E-03	4.05E-02
6q25.1	RAET1L	1.07 (1.03-1.12)	1.12E-03	4.20E-02
6p21.31	HMGA1	1.35 (1.13-1.62)	1.18E-03	4.25E-02
14q22.2	CDKN3	1.25 (1.09-1.43)	1.30E-03	4.25E-02
1q21.3	S100A7	1.06 (1.02-1.10)	1.38E-03	4.25E-02
17q21.2	KRT16	1.10 (1.04-1.17)	1.38E-03	4.25E-02
1p34.2	SLC2A1	1.24 (1.09-1.41)	1.44E-03	4.25E-02
9q31.2	KLF4	1.28 (1.10-1.49)	1.47E-03	4.25E-02
21q22.3	HSF2BP	1.30 (1.11-1.53)	1.48E-03	4.25E-02
4q27	CCNA2	1.26 (1.09-1.45)	1.50E-03	4.25E-02
20q11.21	TPX2	1.22 (1.08-1.39)	1.61E-03	4.39E-02
12q14.3	GRIP1	1.21 (1.08-1.37)	1.69E-03	4.39E-02
2q35	PTPRN	1.10 (1.03-1.16)	1.69E-03	4.39E-02
17q21.32	IGF2BP1	1.07 (1.03-1.12)	1.79E-03	4.52E-02
1p36.12	CDA	1.13 (1.05-1.22)	1.84E-03	4.52E-02

18q21.1	MAPK4	1.10 (1.04-1.17)	2.01E-03	4.82E-02
3q24	PLOD2	1.23 (1.08-1.40)	2.14E-03	4.99E-02
17q21.2	KRT14	1.07 (1.03-1.13)	2.19E-03	4.99E-02
