

Supplementary Dataset 2: Genes differentially expressed between human fibroblasts isolated from abdominal adhesions ('Adhesions') versus control peritoneum tissue ('Healthy') by DESeq2

This workbook contains one sheet:

Sheet 1: Table of differentially expressed genes between human fibroblasts isolated from abdominal adhesions ($n = 6$ samples) and control peritoneal tissue ($n = 3$ samples) after performing lfcShrink using Approximate Posterior Estimation for GLM (apeglm) in DESeq2. A significance threshold of $P\text{-adjusted} < 0.1$ was used to filter genes. Positive $\log_2\text{FoldChange}$ values correspond to genes significantly enriched in abdominal adhesions compared to healthy controls.

GeneID	baseMean	log2FoldChange	lfcSE	pvalue	padj
TBC1D3D	66.57	10.21	3.06	1.56E-11	7.02E-09
ALPK2	321.19	6.11	1.04	4.59E-11	1.85E-08
KLF17	23.39	6.07	1.71	9.93E-06	4.55E-04
DLL3	6.62	5.85	2.78	9.88E-05	2.49E-03
GUCA1A	36.02	5.48	1.37	3.23E-06	1.97E-04
MAB21L2	1003.01	5.36	1.04	2.26E-09	5.42E-07
PTPN22	2468.02	5.21	1.04	6.28E-09	1.32E-06
LRRN1	7966.96	5.13	1.11	3.22E-08	5.04E-06
EPN3	56.70	4.87	1.27	2.23E-06	1.47E-04
GJB2	2655.17	4.85	0.80	1.45E-11	6.80E-09
IGDCC3	54.14	4.84	0.86	6.00E-10	1.61E-07
PROC	9.41	4.76	1.44	4.15E-05	1.33E-03
EVI2A	1131.46	4.68	0.79	3.91E-11	1.67E-08
TNFRSF9	906.51	4.59	0.96	2.05E-08	3.50E-06
IL21R	275.54	4.57	1.16	8.58E-07	7.11E-05
SLC12A8	4130.34	4.46	1.02	1.32E-07	1.63E-05
IQGAP2	845.26	4.17	1.12	2.15E-06	1.43E-04
C19orf81	10.69	3.94	1.47	4.23E-04	7.21E-03
ADAM12	13955.97	3.91	1.10	4.31E-06	2.46E-04
ADD2	1882.55	3.77	1.08	5.52E-06	2.90E-04
F2RL2	506.88	3.75	1.10	8.22E-06	3.98E-04
ACSBG2	12.97	3.54	1.42	3.64E-04	6.51E-03
CD22	102.78	3.53	1.11	2.17E-05	8.05E-04
SDC1	1898.33	3.51	0.84	4.93E-07	4.56E-05
SAMD5	149.14	3.47	0.81	3.48E-07	3.56E-05
SPTSSB	92.79	3.46	1.25	6.52E-05	1.87E-03
C1QTNF6	11609.83	3.45	0.70	1.46E-08	2.61E-06
ATP1B1	5355.55	3.44	0.81	3.16E-07	3.41E-05
STRA6	2322.68	3.42	1.01	9.00E-06	4.25E-04
SAMD3	113.80	3.31	1.07	2.96E-05	1.03E-03
NLRP2	25.59	3.30	1.10	6.18E-05	1.79E-03
KLK13	16.53	3.29	1.03	5.16E-05	1.56E-03
C3orf80	1970.33	3.24	0.98	1.31E-05	5.54E-04
PLEKHN1	95.54	3.23	0.77	6.22E-07	5.49E-05
SMTNL2	2806.46	3.21	1.11	4.56E-05	1.42E-03
COL24A1	1734.84	3.18	0.82	1.71E-06	1.23E-04
COL1A1	6550287.27	3.17	0.81	1.60E-06	1.17E-04
PRSS35	1230.38	3.17	0.95	1.28E-05	5.47E-04
SHANK1	25.61	3.11	1.36	3.51E-04	6.37E-03
COL3A1	4484053.61	3.02	0.98	2.79E-05	9.87E-04
GCNT1	986.16	3.02	0.38	5.06E-17	9.70E-14
KIF26B	637.99	2.99	0.70	3.46E-07	3.56E-05
SLC38A5	1342.90	2.98	0.95	2.53E-05	9.19E-04
DEF6	563.53	2.98	0.93	2.15E-05	8.04E-04
ADAMTS14	4752.23	2.93	0.96	3.44E-05	1.15E-03
CILP2	9323.87	2.91	1.01	5.52E-05	1.64E-03
RUNX2	1359.05	2.90	0.45	2.87E-12	1.84E-09
NEDD4L	1137.38	2.87	1.15	1.58E-04	3.53E-03
CDH2	1169.11	2.86	1.03	7.67E-05	2.09E-03
SIT1	52.65	2.85	1.30	3.60E-04	6.46E-03
EVA1A	501.97	2.79	0.60	6.95E-08	9.33E-06
ZNF114	65.74	2.77	0.46	7.78E-11	2.71E-08
KERA	593.34	2.73	1.27	3.44E-04	6.28E-03
DUSP4	1113.19	2.72	0.81	1.41E-05	5.84E-04
GSDMA	136.43	2.72	1.13	2.20E-04	4.51E-03
CDC45	97.73	2.70	1.28	4.16E-04	7.12E-03
CSTA	379.21	2.69	1.00	1.10E-04	2.69E-03
TEX35	21.18	2.67	1.31	7.02E-04	1.02E-02
OCIAD2	598.14	2.66	0.87	3.71E-05	1.21E-03
PODNL1	2008.76	2.66	0.62	4.79E-07	4.45E-05
SELL	535.46	2.64	1.30	4.54E-04	7.59E-03
ST6GAL2	2365.09	2.63	1.09	2.16E-04	4.45E-03
MCTP2	953.46	2.63	0.73	7.09E-06	3.54E-04
CXCL5	107.77	2.61	1.12	2.76E-04	5.36E-03
RAC3	43.33	2.61	1.22	4.56E-04	7.60E-03
TNFRSF18	105.54	2.61	1.28	4.86E-04	7.92E-03
COL26A1	283.75	2.60	1.30	5.05E-04	8.10E-03
ENC1	2490.33	2.59	0.91	7.07E-05	1.99E-03
NAT8L	9.15	2.59	1.49	2.01E-03	2.14E-02
IQCA1	688.06	2.59	0.84	3.60E-05	1.19E-03
CNIH2	38.22	2.57	1.26	5.96E-04	9.06E-03
B3GALT2	70.74	2.55	0.97	1.60E-04	3.57E-03
PCDH7	7153.62	2.54	0.76	1.62E-05	6.48E-04
CRABP2	31273.44	2.51	0.65	2.83E-06	1.76E-04
DGKI	538.88	2.50	0.70	8.67E-06	4.12E-04
IL4I1	571.39	2.49	1.28	5.78E-04	8.94E-03
CLNK	46.00	2.48	1.34	8.13E-04	1.13E-02
COMP	45407.23	2.45	0.95	1.66E-04	3.68E-03
PNPLA3	39.50	2.43	0.71	1.82E-05	7.06E-04
GALNT5	2486.19	2.41	1.24	6.00E-04	9.08E-03
P4HA3	6227.88	2.40	1.06	3.25E-04	6.00E-03
NEFH	205.10	2.39	1.07	3.81E-04	6.71E-03
SPARC	1797901.02	2.38	0.58	9.56E-07	7.63E-05
LCTL	139.68	2.38	0.86	1.11E-04	2.69E-03
SLN	151.92	2.38	1.05	3.59E-04	6.44E-03
MEX3A	113.75	2.38	0.66	8.68E-06	4.12E-04
COL5A1	112579.09	2.37	0.73	2.54E-05	9.20E-04
FSCN1	9092.52	2.35	0.55	4.65E-07	4.40E-05
F2R	11380.17	2.33	0.88	1.51E-04	3.42E-03
CLEC11A	12166.07	2.30	0.43	3.71E-09	8.36E-07
FAM151B	222.71	2.28	0.44	6.60E-09	1.35E-06
PYCR1	7232.42	2.27	0.78	7.61E-05	2.09E-03
KIAA2012	112.80	2.26	0.29	9.12E-17	1.55E-13
CCDC102B	4013.39	2.26	0.79	8.54E-05	2.22E-03
PHEX	166.87	2.25	0.83	1.37E-04	3.15E-03

VSNL1	926.75	2.24	1.09	5.55E-04	8.68E-03
SFT2D3	331.90	2.24	0.81	1.18E-04	2.81E-03
KCNAB3	84.31	2.24	1.01	4.76E-04	7.81E-03
CDC25C	43.30	2.21	1.21	9.58E-04	1.27E-02
RRM2	852.94	2.20	1.26	9.37E-04	1.25E-02
KIF4A	199.80	2.19	0.98	4.23E-04	7.21E-03
CDCA3	242.50	2.19	0.55	1.86E-06	1.29E-04
PKP2	2108.08	2.19	0.92	3.00E-04	5.66E-03
ZNF469	1961.94	2.19	0.52	8.03E-07	6.77E-05
ARL9	70.98	2.18	0.71	5.41E-05	1.61E-03
LIMD2	1381.64	2.17	0.85	2.00E-04	4.26E-03
CEM1P	475.12	2.16	1.07	6.41E-04	9.54E-03
PRAG1	142.53	2.15	1.18	9.21E-04	1.24E-02
GYG2	282.45	2.14	0.55	2.71E-06	1.72E-04
PSD	1025.14	2.14	0.71	6.12E-05	1.78E-03
GRIA3	1211.17	2.12	1.07	6.80E-04	1.00E-02
RM12	462.80	2.11	0.33	9.57E-12	5.24E-09
DNAH14	203.64	2.10	0.74	1.08E-04	2.66E-03
SERINC5	2915.57	2.10	0.59	1.09E-05	4.89E-04
DNAJC12	572.21	2.10	0.49	5.02E-07	4.59E-05
FGD6	1046.63	2.09	0.52	1.75E-06	1.25E-04
KIF2C	228.16	2.08	0.89	3.78E-04	6.69E-03
OSBPL3	1513.19	2.07	0.50	1.11E-06	8.67E-05
QPR1	1386.28	2.06	0.68	5.81E-05	1.70E-03
TRIM59	423.24	2.06	0.60	1.68E-05	6.68E-04
SPON1	41874.28	2.05	0.97	5.78E-04	8.94E-03
LXN	9088.58	2.05	0.91	4.72E-04	7.77E-03
B4GALNT3	253.77	2.04	1.15	1.06E-03	1.37E-02
ANXA13	47.26	2.04	1.11	1.09E-03	1.40E-02
CBX8	384.30	2.03	0.65	4.87E-05	1.49E-03
KCNK6	1237.14	2.02	0.62	2.88E-05	1.01E-03
PCLAF	322.89	2.00	1.03	8.38E-04	1.15E-02
ENTFD7	847.10	2.00	0.57	1.21E-05	5.23E-04
CSMD2	843.48	1.99	0.51	2.90E-06	1.80E-04
SMCO2	12.42	1.99	1.35	2.53E-03	2.53E-02
COL5A2	74425.44	1.99	0.74	1.66E-04	3.68E-03
SLC17A9	1249.57	1.96	0.55	1.14E-05	5.00E-04
KIAA1211	157.85	1.94	1.06	1.06E-03	1.37E-02
PRR7	316.22	1.92	0.55	1.47E-05	6.03E-04
PTGER1	187.99	1.91	0.93	7.58E-04	1.07E-02
PKIA	2153.68	1.91	0.44	4.17E-07	4.13E-05
CDKN2A	1045.67	1.90	1.04	1.04E-03	1.36E-02
NRK	1191.07	1.90	0.69	1.53E-04	3.45E-03
CCNE1	207.37	1.88	0.55	2.06E-05	7.78E-04
DEPDC7	447.07	1.88	0.42	2.53E-07	2.92E-05
BMF	633.34	1.88	0.32	2.51E-10	7.71E-08
SSX2IP	1299.68	1.87	0.37	1.31E-08	2.38E-06
UNC5B	4372.79	1.86	0.50	5.85E-06	3.03E-04
PLK4	202.52	1.85	0.50	6.81E-06	3.41E-04
HMGB3	569.31	1.84	0.81	5.03E-04	8.08E-03
RHBDL2	163.95	1.84	0.58	4.79E-05	1.47E-03
NRCAM	168.84	1.84	1.01	1.19E-03	1.48E-02
NFE2	70.98	1.83	1.54	2.38E-03	2.42E-02
FAP	14186.15	1.83	0.70	2.26E-04	4.60E-03
TTYH3	5373.07	1.83	0.63	1.05E-04	2.59E-03
MICB	172.98	1.82	0.78	4.75E-04	7.81E-03
C10TNF12	139.85	1.81	1.29	1.99E-03	2.13E-02
KDEL3	13867.14	1.80	0.77	4.25E-04	7.22E-03
LRRCB8E	560.49	1.80	0.95	1.08E-03	1.39E-02
ZNF474	46.56	1.79	0.80	6.71E-04	9.95E-03
TRIB2	3829.80	1.79	0.56	4.59E-05	1.43E-03
ST6GALNAC5	344.90	1.79	0.97	1.21E-03	1.50E-02
PLOD2	16341.55	1.78	0.89	8.99E-04	1.22E-02
SEMA5A	4900.60	1.77	0.31	5.45E-10	1.49E-07
NUSAP1	645.71	1.77	1.02	1.40E-03	1.66E-02
GN2	6122.31	1.76	0.65	1.97E-04	4.22E-03
NREP	14634.97	1.76	0.52	2.12E-05	7.98E-04
MMP15	352.93	1.76	0.66	2.08E-04	4.38E-03
SH3BP1	241.10	1.76	0.66	2.20E-04	4.51E-03
RNF175	236.95	1.74	0.95	1.28E-03	1.56E-02
BTBD11	235.30	1.74	0.56	6.63E-05	1.90E-03
KIF11	408.19	1.74	0.55	4.86E-05	1.49E-03
KCNK1	157.55	1.72	0.99	1.50E-03	1.75E-02
SLC16A3	534.54	1.71	0.37	1.92E-07	2.27E-05
ACSM3	173.60	1.71	0.35	3.94E-08	5.93E-06
SEZ6	38.07	1.71	0.47	1.28E-05	5.47E-04
DEPDC1	215.16	1.69	1.27	2.38E-03	2.42E-02
GPR137C	175.23	1.69	0.56	8.95E-05	2.30E-03
PARPB	482.31	1.68	0.36	1.15E-07	1.45E-05
ARMC9	2667.59	1.68	0.56	9.41E-05	2.39E-03
MXRA5	35898.30	1.67	0.77	5.89E-04	9.03E-03
MMP16	4071.84	1.66	1.00	1.69E-03	1.89E-02
SYNDIG1	652.42	1.66	0.78	8.10E-04	1.13E-02
SLC1A1	734.10	1.66	0.58	1.37E-04	3.15E-03
PLEKHG4B	70.97	1.66	1.32	2.77E-03	2.66E-02
PLK1	295.88	1.65	1.04	1.94E-03	2.09E-02
ALCAM	6972.62	1.64	0.65	3.47E-04	6.31E-03
C9orf84	22.17	1.64	0.59	2.52E-04	5.02E-03
TMT2C	367.50	1.62	1.06	2.11E-03	2.21E-02
RAB40A	86.33	1.62	0.97	1.88E-03	2.05E-02
SMC1B	6.75	1.62	1.24	5.68E-03	4.36E-02
PRPH2	676.87	1.62	0.67	4.57E-04	7.61E-03
TMEM154	589.27	1.61	0.53	8.28E-05	2.19E-03
FNDC10	1304.43	1.61	0.76	8.63E-04	1.18E-02
GPR162	233.15	1.60	0.60	2.50E-04	4.99E-03
SMC4	3917.28	1.59	0.29	1.17E-09	2.93E-07
GRK3	1319.29	1.58	0.93	1.75E-03	1.95E-02
PLPPR4	2029.95	1.57	0.74	8.99E-04	1.22E-02
ABCC4	977.90	1.56	0.74	9.21E-04	1.24E-02
BMP8A	61.74	1.55	0.80	1.42E-03	1.67E-02
TLR9	20.19	1.55	1.00	2.81E-03	2.68E-02
BRCA2	486.17	1.55	0.52	1.10E-04	2.69E-03

DCBLD1	1587.78	1.55	0.29	7.95E-09	1.56E-06
OTUB2	144.94	1.54	0.54	1.57E-04	3.52E-03
RADS4L	86.89	1.52	1.59	3.57E-03	3.17E-02
HTRA4	68.17	1.51	0.53	1.71E-04	3.75E-03
DIRAS3	692.89	1.51	1.17	2.95E-03	2.77E-02
FAM171A2	726.46	1.51	0.79	1.42E-03	1.67E-02
SHCBP1	326.72	1.51	1.29	3.23E-03	2.95E-02
BCL11A	62.86	1.50	1.22	3.38E-03	3.04E-02
SULF2	22441.74	1.50	0.62	4.83E-04	7.90E-03
TMEM200A	2807.82	1.50	0.62	5.09E-04	8.13E-03
CDH11	24057.44	1.50	0.69	7.50E-04	1.07E-02
CHRNE	143.54	1.50	0.73	1.19E-03	1.49E-02
TNFRSF6B	1045.82	1.49	1.47	3.44E-03	3.07E-02
ARHGAP28	4829.74	1.49	1.00	2.54E-03	2.54E-02
HAGHL	353.04	1.49	0.40	8.24E-06	3.98E-04
VDR	1561.58	1.49	0.66	7.50E-04	1.07E-02
ZNF608	538.82	1.48	0.79	1.56E-03	1.79E-02
STK17B	5869.09	1.47	0.79	1.53E-03	1.77E-02
CASP1	1034.93	1.46	0.58	4.11E-04	7.06E-03
GXYLT2	13456.10	1.46	0.99	2.67E-03	2.62E-02
FKBP11	4415.41	1.46	0.38	6.53E-06	3.32E-04
CFAP206	18.53	1.46	1.51	4.65E-03	3.82E-02
PANO1	37.95	1.45	0.73	1.51E-03	1.75E-02
RAD51	235.78	1.45	1.00	2.85E-03	2.71E-02
XPR1	2360.09	1.43	0.97	2.78E-03	2.67E-02
OSTC	15442.18	1.43	0.38	9.59E-06	4.48E-04
SMCO4	1435.74	1.42	0.28	2.49E-08	4.11E-06
TLCD1	203.51	1.42	1.06	3.30E-03	3.00E-02
CENPK	313.23	1.42	1.00	3.05E-03	2.84E-02
CACNA1D	180.91	1.41	0.54	3.67E-04	6.54E-03
P2RY1	909.16	1.40	0.45	7.80E-05	2.11E-03
LAYN	2181.04	1.40	0.50	2.07E-04	4.37E-03
C4orf48	897.12	1.39	0.55	4.64E-04	7.70E-03
C1orf74	253.29	1.39	0.68	1.31E-03	1.58E-02
TLR6	140.25	1.39	1.07	3.58E-03	3.17E-02
ACTR3C	144.30	1.39	0.56	5.02E-04	8.08E-03
ZNF730	58.66	1.39	0.63	1.05E-03	1.37E-02
TANC2	2097.31	1.38	0.24	3.07E-10	9.05E-08
ADAMTS12	1897.36	1.38	0.59	6.73E-04	9.96E-03
MAGEL2	466.23	1.38	1.02	3.40E-03	3.05E-02
COL8A1	17566.18	1.38	0.60	7.14E-04	1.04E-02
ABHD17C	469.67	1.38	0.48	1.88E-04	4.07E-03
ZNF93	495.20	1.38	0.36	6.23E-06	3.20E-04
DIAPH3	288.05	1.38	1.35	4.09E-03	3.50E-02
GBP3	2484.56	1.37	0.33	2.09E-06	1.41E-04
GRAMD1B	201.30	1.37	1.14	3.88E-03	3.36E-02
GRIK2	155.41	1.37	0.77	2.19E-03	2.27E-02
HENMT1	768.90	1.37	0.31	5.41E-07	4.79E-05
SERPINH1	55253.57	1.37	0.49	2.17E-04	4.45E-03
SRGAP3	970.55	1.37	0.48	2.08E-04	4.38E-03
ENPP2	9052.02	1.36	1.35	4.09E-03	3.49E-02
CENPE	275.17	1.35	0.78	2.34E-03	2.39E-02
BANK1	125.87	1.34	1.19	4.22E-03	3.56E-02
ARHGAP22	1300.81	1.34	0.91	3.17E-03	2.91E-02
TUSC3	3762.48	1.34	0.55	5.91E-04	9.05E-03
ZKSCAN4	485.01	1.33	0.43	1.02E-04	2.55E-03
EPHB2	3742.10	1.33	0.56	6.54E-04	9.72E-03
SERPINE2	13321.12	1.32	0.92	3.31E-03	3.00E-02
PTGER3	3173.17	1.32	0.83	2.77E-03	2.67E-02
TIGD2	358.78	1.32	0.38	3.20E-05	1.11E-03
FZD2	504.43	1.31	0.64	1.43E-03	1.68E-02
ORAI2	3937.47	1.31	0.39	3.81E-05	1.24E-03
BICDL2	49.30	1.30	0.53	6.78E-04	1.00E-02
ADGRL1	870.62	1.30	0.52	5.38E-04	8.47E-03
FKBP10	3333.20	1.28	0.83	3.19E-03	2.92E-02
COBL	67.70	1.27	0.59	1.27E-03	1.56E-02
RIPK3	601.82	1.27	0.71	2.40E-03	2.44E-02
STIL	203.91	1.27	0.70	2.34E-03	2.39E-02
ZNF697	359.65	1.27	0.21	5.11E-11	1.97E-08
P3H4	7350.05	1.26	0.66	1.89E-03	2.05E-02
C4orf47	154.93	1.26	1.08	4.69E-03	3.85E-02
POMC	202.41	1.26	0.80	3.33E-03	3.02E-02
FASTKD1	1073.13	1.25	0.41	1.04E-04	2.58E-03
CCDC184	175.83	1.25	0.94	4.25E-03	3.58E-02
CTHRC1	42439.03	1.25	1.07	4.55E-03	3.77E-02
MAD2L1	573.57	1.25	0.62	1.62E-03	1.84E-02
LAMB4	38.49	1.25	0.63	2.07E-03	2.19E-02
MAPK12	1386.45	1.25	1.07	4.64E-03	3.82E-02
LRRC61	777.38	1.25	0.66	2.08E-03	2.20E-02
SULF1	25454.90	1.25	0.63	1.74E-03	1.94E-02
OXSM	626.76	1.24	0.43	2.09E-04	4.38E-03
CARD14	61.26	1.24	0.55	1.11E-03	1.42E-02
C1orf53	81.09	1.24	0.72	2.93E-03	2.77E-02
ZFP69B	156.75	1.23	0.71	2.81E-03	2.68E-02
FANCF	735.78	1.23	0.19	1.21E-11	6.39E-09
RTP4	288.57	1.22	0.60	1.69E-03	1.89E-02
RIMBP2	692.06	1.22	1.22	5.28E-03	4.18E-02
IGF1	23223.49	1.21	0.97	4.66E-03	3.83E-02
RHOBTB1	2538.76	1.20	0.30	5.17E-06	2.79E-04
MAGED1	31746.77	1.20	0.58	1.55E-03	1.78E-02
CKAP2	1779.46	1.20	0.46	4.98E-04	8.06E-03
FXYD5	4527.18	1.20	0.68	2.71E-03	2.63E-02
PLOD1	18377.83	1.20	0.26	2.34E-07	2.74E-05
GREM1	3604.42	1.19	1.21	5.73E-03	4.38E-02
ANKRD2	109.77	1.19	0.57	1.68E-03	1.88E-02
P3H1	16501.19	1.19	0.59	1.80E-03	1.98E-02
LMO7	1253.40	1.18	0.45	4.19E-04	7.17E-03
SOX12	1054.18	1.18	0.43	3.44E-04	6.28E-03
FBXO4	1186.17	1.18	0.24	6.03E-08	8.49E-06
CPPED1	3277.26	1.18	0.50	9.08E-04	1.22E-02
UBE2T	344.48	1.18	1.07	5.47E-03	4.26E-02
RCC1	763.99	1.17	0.42	2.86E-04	5.46E-03

GRM6	28.28	1.17	0.64	3.06E-03	2.84E-02
DNAJC15	4046.76	1.17	0.37	9.16E-05	2.34E-03
MIS18BP1	3246.00	1.16	0.59	2.13E-03	2.23E-02
VANGL2	455.43	1.15	0.63	2.67E-03	2.62E-02
EPHB3	4209.14	1.15	1.00	5.45E-03	4.25E-02
N4BP2	1891.00	1.15	0.37	1.10E-04	2.69E-03
HSD11B2	1637.41	1.15	1.57	5.92E-03	4.49E-02
IDH2	8016.33	1.15	0.52	1.22E-03	1.51E-02
PLPP2	166.48	1.15	1.12	6.02E-03	4.55E-02
SCD	835.04	1.15	0.43	4.69E-04	7.73E-03
CAPG	7423.12	1.15	0.43	4.38E-04	7.36E-03
TRIM16	1617.51	1.14	0.47	8.27E-04	1.14E-02
CCDC28B	1403.80	1.14	0.35	6.83E-05	1.94E-03
HSBP1L1	672.94	1.14	0.56	2.00E-03	2.14E-02
IL1RAP	1759.76	1.14	0.52	1.45E-03	1.70E-02
SGO2	717.70	1.14	0.74	4.16E-03	3.52E-02
AIPL1	18.82	1.13	0.81	6.14E-03	4.61E-02
RAP2B	3741.18	1.13	0.40	2.85E-04	5.46E-03
FERMT1	214.16	1.13	0.95	5.86E-03	4.46E-02
SPATA17	78.80	1.13	0.76	4.78E-03	3.90E-02
B4GALNT4	77.25	1.13	1.53	6.32E-03	4.71E-02
RBM43	728.47	1.13	0.42	4.35E-04	7.35E-03
MCEE	2187.16	1.12	0.13	3.19E-18	9.80E-15
ZNF888	246.58	1.12	0.38	2.31E-04	4.68E-03
KCTD15	850.69	1.12	0.37	1.47E-04	3.34E-03
CASC10	412.98	1.12	0.79	4.89E-03	3.96E-02
PTK7	9053.38	1.12	0.98	5.90E-03	4.49E-02
RM1	623.54	1.12	0.33	5.35E-05	1.61E-03
NHLRC1	264.05	1.12	0.42	4.93E-04	7.99E-03
ANLN	775.28	1.12	1.62	6.20E-03	4.64E-02
DAPK1	3413.51	1.11	0.67	3.70E-03	3.26E-02
CENPF	588.09	1.11	0.87	5.54E-03	4.29E-02
FBM2	236.17	1.11	1.37	6.42E-03	4.75E-02
MFAP2	20659.07	1.11	0.64	3.41E-03	3.06E-02
MORN3	85.85	1.11	0.50	1.51E-03	1.75E-02
CHST2	1418.60	1.10	0.91	5.93E-03	4.50E-02
CTSB	78372.91	1.10	0.30	1.49E-05	6.09E-04
SNX8	1099.60	1.10	0.47	1.03E-03	1.34E-02
PRUNE2	2488.18	1.10	0.66	3.80E-03	3.32E-02
CRMP1	1201.08	1.10	1.04	6.34E-03	4.71E-02
FKBP14	7910.41	1.10	0.80	5.31E-03	4.19E-02
RTN4RL2	1177.41	1.10	0.41	4.64E-04	7.70E-03
SCD5	1737.91	1.10	0.46	9.48E-04	1.27E-02
SLC2A9	293.22	1.09	0.72	4.80E-03	3.91E-02
PHTF2	4137.25	1.09	0.31	3.48E-05	1.16E-03
TRPM8	11.98	1.08	1.09	8.99E-03	5.95E-02
SAMD9	1791.89	1.08	0.28	9.82E-06	4.54E-04
AP1S1	546.97	1.08	0.68	4.29E-03	3.60E-02
MAGED4B	2310.29	1.08	0.36	1.81E-04	3.95E-03
TICAM2	2174.20	1.08	0.45	1.01E-03	1.33E-02
TPMT	2008.27	1.08	0.29	1.78E-05	6.98E-04
ZNF85	497.90	1.08	0.28	1.15E-05	5.00E-04
SLC9A5	405.86	1.08	0.63	3.83E-03	3.33E-02
VWA7	42.18	1.07	0.95	7.27E-03	5.18E-02
ZKSCAN7	596.59	1.07	0.37	2.91E-04	5.56E-03
PAFAH1B3	571.28	1.06	0.52	2.19E-03	2.27E-02
SLC29A4	589.77	1.06	0.73	5.38E-03	4.22E-02
SPDL1	790.45	1.06	0.23	3.23E-07	3.44E-05
RAB31	14448.41	1.05	0.30	3.61E-05	1.19E-03
LSAMP	2350.33	1.05	0.71	5.34E-03	4.20E-02
LHFPL2	11315.79	1.05	0.62	3.99E-03	3.44E-02
SPAG4	199.94	1.05	1.07	7.28E-03	5.18E-02
SSC4D	80.87	1.05	0.43	1.01E-03	1.33E-02
DNAJB7	9.22	1.05	1.23	1.04E-02	6.53E-02
KCNE3	506.89	1.04	0.41	6.99E-04	1.02E-02
SLC7A7	1077.86	1.04	2.01	6.29E-03	4.69E-02
CCDC96	135.65	1.04	0.42	9.65E-04	1.28E-02
PABPC4L	447.59	1.04	0.44	1.15E-03	1.44E-02
SLC38A6	2175.97	1.04	0.32	8.41E-05	2.22E-03
NAT14	746.43	1.04	0.32	8.45E-05	2.22E-03
EFNA4	526.30	1.03	0.45	1.39E-03	1.65E-02
HELLS	439.34	1.03	0.50	2.30E-03	2.36E-02
LRRRC19	19.95	1.03	0.81	8.01E-03	5.53E-02
PPIB	52039.63	1.03	0.33	1.25E-04	2.91E-03
SLC16A1	10493.86	1.03	0.77	6.29E-03	4.69E-02
DHFR	515.76	1.03	0.76	6.29E-03	4.69E-02
AKR7L	28.92	1.02	0.49	2.59E-03	2.57E-02
RAD51AP1	231.62	1.02	1.03	7.77E-03	5.42E-02
SLFN12	828.45	1.01	0.55	3.32E-03	3.01E-02
AGRN	1301.23	1.01	0.35	2.80E-04	5.39E-03
ZNF587B	304.65	1.01	0.34	2.15E-04	4.45E-03
AKAP5	56.05	1.01	0.37	5.08E-04	8.12E-03
ZMYND12	122.20	1.01	0.79	7.17E-03	5.13E-02
FSBP	152.78	1.01	0.51	2.88E-03	2.72E-02
GPX7	3941.30	1.01	0.71	6.03E-03	4.55E-02
OSBPL7	902.54	1.01	0.40	7.48E-04	1.07E-02
GLIPR1	7304.40	1.01	0.46	1.62E-03	1.84E-02
GINS4	112.56	1.01	0.50	2.57E-03	2.55E-02
PDI5	5512.79	1.01	0.59	4.23E-03	3.57E-02
NMI	2207.90	1.01	0.28	2.70E-05	9.65E-04
TP53INP1	5488.53	1.01	0.45	1.62E-03	1.84E-02
SLC7A11	46.67	1.01	0.98	8.43E-03	5.70E-02
BRIP1	110.70	1.00	0.65	5.73E-03	4.38E-02
SLC39A7	4931.36	1.00	0.76	6.96E-03	5.02E-02
FAAP24	253.94	1.00	0.34	2.98E-04	5.64E-03
KDEL1C1	2664.37	1.00	0.42	1.29E-03	1.57E-02
TRIM6	834.28	0.99	0.78	7.24E-03	5.17E-02
TMEM132E	157.13	0.99	0.55	4.12E-03	3.51E-02
HMG1	12524.41	0.99	0.15	2.18E-12	1.45E-09
PGM2L1	1537.28	0.99	0.34	2.84E-04	5.45E-03
RGS14	652.64	0.99	0.81	7.61E-03	5.36E-02
CCT6B	204.28	0.99	0.35	3.75E-04	6.65E-03

ARHGEF19	924.97	0.99	0.58	4.59E-03	3.79E-02
HS25T1	2811.32	0.98	0.36	5.06E-04	8.10E-03
TGFB1	3572.94	0.98	0.42	1.42E-03	1.67E-02
C17orf107	516.26	0.98	0.53	3.76E-03	3.30E-02
IFT20	3167.41	0.98	0.24	4.70E-06	2.59E-04
IL15	426.23	0.98	1.04	8.43E-03	5.70E-02
MMP14	4532.85	0.98	0.74	7.28E-03	5.18E-02
TTC30B	468.44	0.98	0.37	6.74E-04	9.96E-03
XKR8	1087.71	0.97	0.27	3.05E-05	1.06E-03
SPATS2	2129.45	0.97	0.19	3.11E-08	4.96E-06
TBC1D8B	3527.27	0.97	0.41	1.38E-03	1.65E-02
TMEM177	433.05	0.97	0.34	4.20E-04	7.18E-03
CASP8	1365.81	0.97	0.41	1.38E-03	1.65E-02
BCAS1	54.13	0.97	0.62	6.20E-03	4.64E-02
ZNF860	75.73	0.96	0.58	5.46E-03	4.25E-02
ICAM3	767.47	0.96	0.36	6.27E-04	9.37E-03
GOLM1	12882.41	0.96	0.60	5.53E-03	4.29E-02
UAP1L1	3410.52	0.96	0.29	8.58E-05	2.23E-03
STK32C	956.11	0.95	0.39	1.18E-03	1.48E-02
CYP2R1	748.16	0.95	0.24	8.26E-06	3.98E-04
ZDHH20	4603.30	0.95	0.57	5.44E-03	4.25E-02
CMTM4	2084.40	0.95	0.63	6.65E-03	4.86E-02
CASR	43.24	0.94	0.86	9.58E-03	6.19E-02
SAMD13	129.80	0.94	0.45	2.77E-03	2.67E-02
WNK3	148.98	0.94	0.59	6.10E-03	4.59E-02
OR2L2	63.38	0.94	0.51	4.25E-03	3.58E-02
TGFB3	11255.01	0.94	0.46	2.95E-03	2.78E-02
IL11	50.87	0.94	0.68	8.22E-03	5.63E-02
OSTF1	3531.28	0.94	0.43	2.03E-03	2.16E-02
B4GALT6	220.71	0.94	0.45	2.75E-03	2.66E-02
ACTR2	16092.55	0.94	0.46	2.63E-03	2.59E-02
CERCAM	42367.41	0.94	0.84	8.57E-03	5.77E-02
SYT7	247.37	0.94	0.79	8.93E-03	5.92E-02
CGNL1	806.51	0.94	0.47	3.21E-03	2.93E-02
THY1	71863.18	0.93	0.79	8.77E-03	5.85E-02
NUDT14	616.38	0.93	0.77	8.79E-03	5.86E-02
RASD2	334.00	0.93	0.58	6.03E-03	4.55E-02
SYT5	28.84	0.93	0.57	6.71E-03	4.89E-02
RCN1	26724.66	0.93	0.52	4.50E-03	3.74E-02
MDK	13087.63	0.93	0.74	8.65E-03	5.81E-02
PYCARD	1446.12	0.93	0.65	7.63E-03	5.36E-02
MLKL	1180.91	0.93	0.68	8.02E-03	5.53E-02
PHTF1	2397.94	0.93	0.42	2.21E-03	2.29E-02
ZNF20	74.59	0.92	0.67	8.31E-03	5.64E-02
CYBSR2	1171.41	0.92	0.73	8.73E-03	5.83E-02
RAB7B	4482.33	0.92	0.62	7.16E-03	5.12E-02
ORMDL3	3287.00	0.92	0.49	4.04E-03	3.47E-02
RYR1	241.40	0.92	0.57	6.34E-03	4.71E-02
PRPF19	569.31	0.91	0.29	1.53E-04	3.45E-03
SLC16A14	296.50	0.91	0.35	7.60E-04	1.07E-02
SLX4IP	601.86	0.91	0.26	5.40E-05	1.61E-03
TBC1D3B	48.11	0.91	0.69	9.20E-03	6.04E-02
FMBP1L	3696.37	0.91	0.22	4.02E-06	2.34E-04
RACGAP1	1078.69	0.91	0.70	8.88E-03	5.91E-02
PAQR6	36.52	0.91	0.62	8.27E-03	5.64E-02
TRPS1	3063.60	0.90	0.44	3.14E-03	2.89E-02
GALM	2427.89	0.90	0.24	1.57E-05	6.33E-04
CDH24	389.31	0.90	0.77	9.97E-03	6.36E-02
BET1	3828.28	0.90	0.24	1.84E-05	7.14E-04
ZNF555	621.61	0.89	0.42	2.80E-03	2.68E-02
CLN6	400.58	0.89	0.35	9.84E-04	1.30E-02
GPX8	13109.72	0.89	0.74	9.48E-03	6.15E-02
TNIK	683.67	0.89	0.49	4.96E-03	3.98E-02
TMED3	8119.15	0.89	0.36	1.13E-03	1.43E-02
CDC42EP5	2947.33	0.89	0.24	2.77E-05	9.83E-04
SLC35B3	3300.35	0.89	0.37	1.46E-03	1.70E-02
BORA	432.00	0.89	0.44	3.44E-03	3.07E-02
ZNF675	776.39	0.88	0.28	1.75E-04	3.84E-03
CYBA	12977.62	0.88	0.77	1.03E-02	6.48E-02
SRDS3	2319.52	0.88	0.30	3.20E-04	5.93E-03
SOC55	6208.10	0.88	0.48	4.90E-03	3.96E-02
DISC1	459.76	0.88	1.04	1.07E-02	6.62E-02
DIP5	97.37	0.88	0.62	9.13E-03	6.00E-02
NUDT19	527.90	0.88	0.50	5.66E-03	4.35E-02
CCDC170	235.05	0.88	0.74	1.05E-02	6.56E-02
DNASE1L1	1233.35	0.87	0.42	3.03E-03	2.83E-02
ZNF792	275.55	0.87	0.60	8.60E-03	5.79E-02
FAM214B	2306.27	0.87	0.26	7.96E-05	2.14E-03
ZNF155	459.61	0.87	0.24	3.30E-05	1.12E-03
RPGRIP1L	1226.39	0.87	0.55	7.30E-03	5.19E-02
ARID3A	373.55	0.87	0.38	2.15E-03	2.24E-02
SLC25A15	396.41	0.87	0.33	8.23E-04	1.14E-02
PAPSS1	7829.06	0.87	0.24	2.95E-05	1.03E-03
CREB3L1	12122.77	0.87	0.97	1.10E-02	6.76E-02
CYB561D2	1690.68	0.86	0.23	1.97E-05	7.56E-04
RASSF2	4468.19	0.86	0.69	1.02E-02	6.45E-02
DNAJC28	158.04	0.86	0.48	5.44E-03	4.25E-02
FTL	327933.32	0.86	0.32	1.01E-03	1.33E-02
GEN1	485.05	0.86	0.48	5.38E-03	4.22E-02
TMEM60	1935.66	0.86	0.25	7.85E-05	2.12E-03
PIF1	254.03	0.86	0.52	6.86E-03	4.98E-02
RCN3	31857.08	0.86	0.86	1.13E-02	6.89E-02
SRPRB	5192.61	0.86	0.46	5.01E-03	4.01E-02
CERS6	3726.14	0.86	0.32	7.11E-04	1.03E-02
STIM2	2520.74	0.86	0.34	1.13E-03	1.43E-02
PPP2R3A	2585.62	0.86	0.21	6.56E-06	3.32E-04
RAB42	713.11	0.86	0.85	1.16E-02	6.98E-02
PGM3	7045.22	0.86	0.36	1.73E-03	1.93E-02
DCBLD2	11307.81	0.85	0.76	1.10E-02	6.74E-02
FANCI	587.39	0.85	0.61	9.34E-03	6.09E-02
EVL	1559.47	0.85	0.26	1.23E-04	2.88E-03
PPP1R36	59.94	0.85	0.96	1.22E-02	7.22E-02

MAP10	249.81	0.85	0.28	2.60E-04	5.12E-03
SSR1	21450.18	0.84	0.31	6.51E-04	9.68E-03
ZNF530	209.28	0.84	0.20	5.04E-06	2.75E-04
MGAT3	121.34	0.84	1.30	1.05E-02	6.56E-02
DSN1	1449.73	0.84	0.21	6.76E-06	3.40E-04
C9orf116	190.94	0.84	0.28	3.27E-04	6.02E-03
ZNF737	650.17	0.84	0.43	4.36E-03	3.66E-02
CCNB1	742.20	0.84	0.69	1.14E-02	6.92E-02
ARV1	1363.46	0.84	0.19	2.13E-06	1.43E-04
GORAB	1676.20	0.84	0.18	2.78E-07	3.18E-05
IL18R1	438.48	0.84	1.10	1.14E-02	6.92E-02
IKBIP	4799.05	0.84	0.58	9.46E-03	6.15E-02
GTF2E1	1128.34	0.83	0.31	7.99E-04	1.11E-02
PEX11G	417.10	0.83	0.27	2.78E-04	5.38E-03
ZNF43	1519.53	0.83	0.34	1.41E-03	1.66E-02
TCEAL8	7286.76	0.83	0.27	2.63E-04	5.17E-03
SPATS2L	13263.84	0.83	0.33	1.26E-03	1.54E-02
BMP1	15662.46	0.83	0.66	1.10E-02	6.76E-02
SLC39A10	3970.83	0.83	0.34	1.61E-03	1.83E-02
SUV39H2	466.03	0.83	0.35	1.95E-03	2.10E-02
RIDA	1017.48	0.83	0.18	3.96E-07	3.94E-05
PTRHD1	1107.85	0.83	0.31	9.11E-04	1.22E-02
SHB	1246.78	0.83	0.47	6.35E-03	4.71E-02
SESN3	2834.75	0.83	0.28	3.93E-04	6.86E-03
WDR5B	720.34	0.83	0.44	5.27E-03	4.17E-02
KIF15	229.89	0.82	0.85	1.29E-02	7.50E-02
ATM	2807.99	0.82	0.18	7.46E-07	6.39E-05
PRR11	188.92	0.82	0.63	1.17E-02	7.02E-02
BBS12	500.90	0.82	0.54	9.35E-03	6.10E-02
H2AFY2	1318.09	0.82	0.25	1.22E-04	2.87E-03
AGA	1694.62	0.82	0.30	7.45E-04	1.07E-02
C3orf14	1022.64	0.82	0.32	1.22E-03	1.51E-02
RIN1	1011.17	0.82	0.21	1.36E-05	5.74E-04
MFSO3	690.71	0.81	0.26	2.70E-04	5.27E-03
TCN2	4914.17	0.81	0.44	5.49E-03	4.27E-02
LPAR2	225.43	0.81	0.65	1.22E-02	7.22E-02
LZTS1	1114.87	0.81	0.64	1.20E-02	7.16E-02
ARHGAP11A	252.70	0.81	0.94	1.30E-02	7.53E-02
ZNF701	805.00	0.81	0.25	1.34E-04	3.10E-03
UBE2E1	708.29	0.81	0.49	8.22E-03	5.63E-02
TST	795.71	0.81	0.57	1.07E-02	6.62E-02
WDHD1	525.37	0.81	0.24	1.28E-04	2.96E-03
TBC1D7	1422.51	0.80	0.34	2.11E-03	2.21E-02
SYCE1L	158.64	0.80	0.79	1.37E-02	7.87E-02
SEC11A	7061.35	0.80	0.19	5.45E-06	2.89E-04
SSR3	13440.72	0.80	0.43	5.28E-03	4.18E-02
PTPA	2634.41	0.80	0.40	4.54E-03	3.76E-02
PRDX4	14637.55	0.80	0.55	1.05E-02	6.56E-02
MYL5	479.33	0.80	0.44	6.37E-03	4.72E-02
ABCC9	5531.98	0.80	0.94	1.32E-02	7.60E-02
RNASEH2B	3915.10	0.80	0.15	7.53E-09	1.52E-06
KLHL35	271.72	0.80	0.64	1.30E-02	7.52E-02
PDKK	7036.40	0.79	0.20	1.26E-05	5.40E-04
DNAJC13	4080.83	0.79	0.32	1.69E-03	1.89E-02
PPP1R8	1412.76	0.79	0.46	7.31E-03	5.19E-02
ACY1	1337.11	0.79	0.24	1.47E-04	3.34E-03
LRP2BP	234.87	0.79	0.80	1.43E-02	8.08E-02
GALNT1	11013.35	0.79	0.29	8.94E-04	1.22E-02
SLC18B1	1716.34	0.79	0.46	7.90E-03	5.48E-02
ABRACL	1569.49	0.79	1.70	8.90E-03	5.91E-02
CHSY3	1112.87	0.79	0.46	7.77E-03	5.42E-02
MRPL17	2150.25	0.79	0.32	1.79E-03	1.97E-02
YIPF5	10062.51	0.79	0.40	4.64E-03	3.82E-02
TMEM45A	7536.69	0.78	0.52	1.01E-02	6.41E-02
AURKA	269.32	0.78	0.68	1.41E-02	8.00E-02
YIPF2	3494.17	0.78	0.44	6.98E-03	5.03E-02
SLC50A1	2605.55	0.78	0.26	4.25E-04	7.22E-03
ZWILCH	1208.73	0.78	0.36	3.76E-03	3.30E-02
RASL11B	881.64	0.78	1.11	1.25E-02	7.35E-02
CCNA2	428.40	0.78	1.33	1.10E-02	6.74E-02
RUNX1	5162.93	0.78	0.83	1.45E-02	8.15E-02
CHPF2	7883.43	0.78	0.40	5.23E-03	4.15E-02
ARSB	2513.23	0.77	0.57	1.25E-02	7.35E-02
SNX25	2215.47	0.77	0.57	1.28E-02	7.44E-02
GPR107	2243.08	0.77	0.26	4.71E-04	7.77E-03
AP2S1	4041.13	0.77	0.30	1.49E-03	1.74E-02
TMEM167B	4919.74	0.76	0.24	2.00E-04	4.26E-03
IKBKE	831.27	0.76	0.32	2.18E-03	2.27E-02
CCDC138	375.76	0.76	0.25	3.25E-04	6.00E-03
LIPT2	122.12	0.76	0.39	5.57E-03	4.31E-02
USP51	167.89	0.76	0.38	5.29E-03	4.18E-02
ZNF561	1346.63	0.76	0.20	1.60E-05	6.43E-04
CRISPDL1	5549.98	0.76	1.19	1.14E-02	6.92E-02
NBPF1	6936.19	0.76	0.30	1.45E-03	1.70E-02
BLOC1S3	864.65	0.76	0.36	4.47E-03	3.72E-02
C1orf122	4007.08	0.76	0.29	1.15E-03	1.45E-02
ETAA1	1877.09	0.76	0.37	4.96E-03	3.99E-02
C2orf81	704.37	0.75	0.38	5.65E-03	4.35E-02
MMP11	2429.48	0.75	0.41	6.95E-03	5.02E-02
P4HA1	12217.39	0.75	0.45	9.22E-03	6.04E-02
ZNF572	138.97	0.75	0.39	6.33E-03	4.71E-02
OR14J1	250.43	0.75	0.25	4.64E-04	7.70E-03
BEND6	1502.01	0.75	1.07	1.36E-02	7.80E-02
UBXN6	1967.32	0.75	0.38	5.44E-03	4.25E-02
SPTSSA	6159.21	0.75	0.25	4.52E-04	7.56E-03
VHL	1847.38	0.75	0.20	2.42E-05	8.88E-04
ATF5	242.53	0.75	0.40	6.92E-03	5.00E-02
PCBP3	508.07	0.74	0.50	1.24E-02	7.31E-02
PPIL3	1458.32	0.74	0.18	5.65E-06	2.96E-04
MFSD1	9613.92	0.74	0.26	7.11E-04	1.03E-02
ZNF613	436.26	0.74	0.27	8.26E-04	1.14E-02
CISD1	2094.62	0.74	0.17	2.55E-06	1.64E-04

KNSTRN	448.61	0.74	0.52	1.32E-02	7.60E-02
MPHOSPH9	1163.07	0.74	0.30	2.04E-03	2.17E-02
SH3BP2	1886.88	0.74	0.62	1.60E-02	8.72E-02
GMPPA	4691.38	0.74	0.28	1.16E-03	1.46E-02
SMYD2	2192.15	0.74	0.36	4.84E-03	3.94E-02
ATF7IP2	1065.56	0.74	1.01	1.43E-02	8.08E-02
ZNF286A	1270.21	0.74	0.35	4.64E-03	3.82E-02
CHRN1	1070.81	0.73	0.31	2.56E-03	2.55E-02
SLX1A	2017.54	0.73	0.52	1.36E-02	7.79E-02
C21orf58	207.68	0.73	0.31	2.67E-03	2.62E-02
SRD5A1	993.08	0.73	0.57	1.54E-02	8.50E-02
EMC10	1372.61	0.73	0.23	1.92E-04	4.13E-03
PARVB	716.22	0.73	0.45	1.06E-02	6.59E-02
LBHD1	415.38	0.73	0.38	6.46E-03	4.77E-02
ATP8B3	317.17	0.73	0.60	1.64E-02	8.86E-02
BRSK1	32.59	0.73	0.66	1.86E-02	9.68E-02
CAPZB	18471.49	0.73	0.20	5.40E-05	1.61E-03
TTC3	26416.87	0.73	0.41	8.17E-03	5.61E-02
MAGO1B	1799.94	0.73	0.21	8.28E-05	2.19E-03
HSF2BP	71.28	0.73	0.39	8.06E-03	5.56E-02
PPP3R1	492.84	0.73	0.42	9.09E-03	5.99E-02
SLC31A1	3068.65	0.72	0.33	4.12E-03	3.51E-02
IFIT2	2187.49	0.72	0.47	1.21E-02	7.20E-02
PD1K1L	927.80	0.72	0.24	4.27E-04	7.24E-03
FASTKD3	802.81	0.72	0.28	1.61E-03	1.83E-02
ZNF596	369.50	0.72	0.47	1.28E-02	7.45E-02
RBM3	14283.42	0.72	0.28	1.44E-03	1.69E-02
RWDD2B	1251.05	0.72	0.23	3.36E-04	6.16E-03
MSANTD3	2644.63	0.72	0.37	7.11E-03	5.10E-02
TP53I3	4979.41	0.72	0.37	6.49E-03	4.79E-02
CHEK1	545.55	0.71	0.38	7.79E-03	5.43E-02
ZNF273	547.27	0.71	0.29	2.30E-03	2.36E-02
BBOF1	794.78	0.71	0.49	1.41E-02	8.00E-02
SSR2	14410.26	0.71	0.21	1.41E-04	3.22E-03
CCDC167	784.47	0.71	0.28	1.91E-03	2.07E-02
WDR41	4948.75	0.71	0.27	1.41E-03	1.66E-02
SLC19A1	1097.21	0.71	0.39	7.93E-03	5.49E-02
ZNF253	701.81	0.71	0.43	1.10E-02	6.76E-02
SNX30	1850.48	0.71	0.37	7.20E-03	5.15E-02
MC1R	630.39	0.71	0.58	1.75E-02	9.30E-02
CCDC122	541.98	0.71	0.48	1.38E-02	7.90E-02
NUDT12	1030.15	0.70	0.26	1.07E-03	1.38E-02
BIVM	2307.53	0.70	0.41	9.68E-03	6.25E-02
NUCB2	11440.99	0.70	0.57	1.65E-02	8.90E-02
COG6	4600.16	0.70	0.42	1.06E-02	6.59E-02
TONSL	436.03	0.70	0.36	6.58E-03	4.83E-02
COP22	12184.77	0.70	0.57	1.65E-02	8.89E-02
HYLS1	706.88	0.70	0.40	9.61E-03	6.21E-02
ENAH	7190.16	0.70	0.45	1.24E-02	7.29E-02
PRELID3A	41.71	0.70	0.37	8.41E-03	5.68E-02
PLN3	11422.97	0.70	0.24	7.85E-04	1.10E-02
CNIH1	7797.34	0.70	0.24	5.88E-04	9.02E-03
NAA40	1026.83	0.70	0.26	1.13E-03	1.43E-02
CCZ1B	3887.13	0.69	0.37	8.24E-03	5.64E-02
CTBS	3937.42	0.69	0.20	8.47E-05	2.22E-03
ZNF587	913.81	0.69	0.19	5.03E-05	1.53E-03
PEX12	752.04	0.69	0.26	1.40E-03	1.66E-02
RARS	3937.07	0.69	0.19	5.65E-05	1.67E-03
NINL	1157.15	0.69	0.54	1.78E-02	9.40E-02
KDM2B	927.61	0.69	0.23	5.28E-04	8.36E-03
PUS7L	1721.02	0.69	0.19	4.34E-05	1.36E-03
SLC29A3	1814.41	0.69	0.29	2.79E-03	2.67E-02
ODF2L	3970.94	0.69	0.37	8.14E-03	5.59E-02
FADD	1069.01	0.69	0.39	9.21E-03	6.04E-02
TMEM119	15776.71	0.69	0.65	1.90E-02	9.79E-02
CA11	548.25	0.69	0.36	8.13E-03	5.59E-02
ZNF260	2049.24	0.69	0.22	2.85E-04	5.46E-03
HSD11B1L	954.33	0.69	0.43	1.22E-02	7.22E-02
RCC2	2838.54	0.69	0.44	1.31E-02	7.59E-02
TMEM121	456.82	0.69	0.40	1.09E-02	6.72E-02
FAM227A	130.98	0.69	0.40	1.13E-02	6.89E-02
ATXN1	3219.09	0.68	0.16	5.47E-06	2.89E-04
SQLE	1776.96	0.68	0.52	1.80E-02	9.47E-02
PEX11B	1979.96	0.68	0.38	9.25E-03	6.05E-02
GGACT	431.60	0.68	0.46	1.51E-02	8.38E-02
NBPF15	2339.14	0.68	0.30	3.60E-03	3.18E-02
TMEM223	1504.89	0.68	0.23	5.82E-04	8.94E-03
ZBED6	1043.21	0.68	0.25	1.13E-03	1.43E-02
FHOD1	1154.17	0.68	0.41	1.21E-02	7.18E-02
FBXL8	899.21	0.68	0.42	1.29E-02	7.50E-02
STXBP5	2740.29	0.68	0.38	1.06E-02	6.57E-02
EPHB4	3391.51	0.68	0.16	5.20E-06	2.79E-04
PLGRKT	1333.94	0.68	0.25	1.21E-03	1.50E-02
ATP6V1D	4706.93	0.67	0.33	6.58E-03	4.83E-02
LAPTM4B	5957.11	0.67	0.22	4.37E-04	7.36E-03
ERCC2	498.63	0.67	0.14	7.31E-07	6.30E-05
FEN1	958.40	0.67	0.46	1.64E-02	8.85E-02
AP5S1	1100.97	0.67	0.16	6.56E-06	3.32E-04
POLN	159.94	0.67	0.32	5.72E-03	4.38E-02
RPL26L1	1537.24	0.67	0.20	2.11E-04	4.40E-03
RAI14	4277.44	0.67	0.41	1.28E-02	7.44E-02
TIMP1	74677.24	0.67	0.54	1.50E-02	8.34E-02
EFNB1	4375.76	0.67	0.35	9.05E-03	5.97E-02
ACP2	2913.25	0.67	0.37	1.04E-02	6.54E-02
SLC35A2	2417.49	0.67	0.29	3.87E-03	3.36E-02
WHRN	779.94	0.67	0.26	1.82E-03	1.99E-02
CCDC34	436.40	0.67	0.33	6.79E-03	4.94E-02
PCNA	3589.19	0.67	0.26	1.74E-03	1.94E-02
ETV2	70.65	0.67	0.46	1.79E-02	9.44E-02
HMBS	1328.39	0.66	0.36	9.62E-03	6.21E-02
ZNF485	219.62	0.66	0.20	1.80E-04	3.94E-03
PPP1R9B	490.08	0.66	0.32	5.90E-03	4.49E-02

ITPR2	1744.94	0.66	0.50	1.91E-02	9.84E-02
IBTK	5087.89	0.66	0.15	1.32E-06	1.01E-04
MGAT4B	3622.72	0.66	0.45	1.55E-02	8.55E-02
ARF4	44829.90	0.66	0.41	1.22E-02	7.23E-02
MED8	3960.12	0.66	0.22	6.06E-04	9.14E-03
TMEM167A	10368.64	0.66	0.45	1.61E-02	8.77E-02
AKAP7	674.17	0.66	0.31	5.83E-03	4.44E-02
TMEM65	1149.23	0.66	0.36	9.90E-03	6.35E-02
C19orf48	1577.55	0.66	0.24	1.37E-03	1.64E-02
MOSPD1	1338.98	0.66	0.25	1.60E-03	1.82E-02
RHNO1	1422.08	0.66	0.20	1.92E-04	4.13E-03
UBXN8	767.47	0.65	0.29	3.86E-03	3.36E-02
HNMT	6644.30	0.65	0.34	8.58E-03	5.78E-02
IFT80	2454.51	0.65	0.46	1.82E-02	9.55E-02
MFAP3	1763.97	0.65	0.23	7.42E-04	1.06E-02
CCDC18	462.93	0.65	0.32	7.07E-03	5.07E-02
TMEM87B	3178.83	0.65	0.23	8.04E-04	1.12E-02
C20orf96	320.04	0.65	0.28	4.17E-03	3.54E-02
MAP4K4	15542.85	0.65	0.87	1.87E-02	9.68E-02
PPP1R37	420.66	0.65	0.40	1.49E-02	8.32E-02
ZNF467	720.59	0.65	1.39	1.00E-02	6.37E-02
AGPAT3	1740.77	0.64	0.29	4.72E-03	3.86E-02
ISCA2	1662.32	0.64	0.34	1.01E-02	6.38E-02
ZNF784	174.62	0.64	0.43	1.71E-02	9.15E-02
NHSL2	2816.25	0.64	0.20	2.60E-04	5.12E-03
RNASE10	102.65	0.64	0.33	8.73E-03	5.83E-02
NUS1	2958.34	0.64	0.35	1.07E-02	6.63E-02
TPM4	67910.60	0.64	0.26	2.38E-03	2.42E-02
MCTS1	2876.14	0.64	0.20	3.90E-04	6.82E-03
VIPAS39	1523.26	0.64	0.10	6.92E-12	3.93E-09
STK16	776.88	0.64	0.31	6.59E-03	4.83E-02
FBXO41	123.26	0.64	1.05	1.57E-02	8.62E-02
ZNF117	893.49	0.64	0.41	1.66E-02	8.93E-02
DNAJC1	3207.29	0.63	0.23	1.39E-03	1.65E-02
SOX4	10408.63	0.63	0.30	6.40E-03	4.74E-02
UROS	3796.84	0.63	0.29	5.08E-03	4.06E-02
RAB27A	2028.78	0.63	0.40	1.67E-02	8.99E-02
UBTD1	2156.64	0.63	0.33	1.03E-02	6.50E-02
NMNAT1	942.33	0.63	0.25	2.75E-03	2.65E-02
GOLGA5	6576.83	0.63	0.35	1.22E-02	7.22E-02
TSPAN5	1337.33	0.62	0.95	1.75E-02	9.29E-02
MPDU1	3701.06	0.62	0.35	1.31E-02	7.59E-02
KCTD18	1702.20	0.62	0.19	2.19E-04	4.50E-03
KLK10	154.79	0.62	1.17	1.29E-02	7.49E-02
ALG5	3441.66	0.62	0.17	6.28E-05	1.82E-03
YDJC	905.38	0.62	0.34	1.11E-02	6.81E-02
MGAT2	3755.62	0.62	0.39	1.67E-02	8.98E-02
C16orf87	1178.53	0.62	0.24	2.05E-03	2.17E-02
ZNF578	94.65	0.62	0.35	1.39E-02	7.92E-02
COA6	1158.45	0.62	0.30	6.90E-03	4.99E-02
ALKBH4	1076.47	0.62	0.27	4.20E-03	3.55E-02
EML4	3003.82	0.62	0.40	1.79E-02	9.43E-02
ZNF69	332.23	0.62	0.27	4.88E-03	3.95E-02
ANKIB1	2804.67	0.62	0.31	8.87E-03	5.90E-02
ZNF254	1768.68	0.61	0.18	2.06E-04	4.35E-03
MORF4L2	24859.26	0.61	0.25	3.08E-03	2.86E-02
P4HB	65037.84	0.61	0.40	1.76E-02	9.32E-02
ASTE1	1124.46	0.61	0.24	2.63E-03	2.59E-02
TMED2	46161.56	0.61	0.27	5.28E-03	4.18E-02
ZNF223	381.59	0.61	0.27	4.63E-03	3.82E-02
TMEM208	2709.22	0.61	0.14	1.84E-06	1.28E-04
ZNF30	305.85	0.61	0.34	1.39E-02	7.92E-02
ZNF616	1077.20	0.60	0.37	1.70E-02	9.10E-02
MPHOSPH10	3025.20	0.60	0.26	4.22E-03	3.56E-02
MYDGF	12234.34	0.60	0.32	1.11E-02	6.81E-02
PIGW	620.35	0.60	0.23	2.19E-03	2.27E-02
TMEM243	3894.62	0.60	0.12	1.66E-07	2.01E-05
SEC22B	8662.40	0.60	0.34	1.32E-02	7.60E-02
HTR2A	979.24	0.60	1.08	1.35E-02	7.77E-02
MNS1	463.82	0.60	0.35	1.58E-02	8.65E-02
CNPY2	4702.85	0.60	0.13	8.91E-07	7.31E-05
ZNF616	469.78	0.60	0.27	5.47E-03	4.26E-02
TRIQK	3145.73	0.59	0.32	1.20E-02	7.16E-02
TEN1	816.09	0.59	0.23	2.47E-03	2.48E-02
KDM4D	123.28	0.59	0.29	9.13E-03	6.00E-02
MED18	437.20	0.59	0.22	1.63E-03	1.85E-02
GGCT	1449.32	0.59	0.23	2.10E-03	2.21E-02
EFCAB11	547.72	0.59	0.20	8.10E-04	1.13E-02
G6PC3	3998.91	0.59	0.25	4.37E-03	3.66E-02
EFNB2	1663.53	0.59	1.00	1.59E-02	8.70E-02
GAR1	1028.38	0.59	0.23	2.57E-03	2.55E-02
TBC1D32	581.24	0.59	0.31	1.08E-02	6.67E-02
PEA15	6280.69	0.59	0.32	1.30E-02	7.53E-02
SHIM15	4820.27	0.59	0.22	1.88E-03	2.05E-02
TMEM141	1713.00	0.58	0.25	4.87E-03	3.95E-02
CMPK2	522.11	0.58	0.35	1.82E-02	9.53E-02
MIA2	2753.46	0.58	0.17	1.18E-04	2.80E-03
FHL3	4106.04	0.58	0.21	1.31E-03	1.58E-02
DBR1	1563.79	0.58	0.26	5.63E-03	4.33E-02
THUMP3	1671.44	0.58	0.15	2.05E-05	7.78E-04
RAB9A	2929.13	0.58	0.34	1.63E-02	8.82E-02
ADAMTS2	33467.83	0.58	0.89	1.60E-02	8.72E-02
PKM	53444.12	0.58	0.31	1.13E-02	6.89E-02
GD12	19399.66	0.58	0.26	6.10E-03	4.58E-02
DAP	16125.63	0.58	0.25	4.62E-03	3.80E-02
ZNF514	558.78	0.58	0.29	9.24E-03	6.05E-02
AMZ2	4874.44	0.58	0.10	2.35E-09	5.54E-07
ALG1	2623.42	0.58	0.30	1.07E-02	6.63E-02
SPC24	117.88	0.58	0.35	1.87E-02	9.70E-02
TARBP2	1259.43	0.58	0.26	5.78E-03	4.41E-02
THNSL1	687.83	0.58	0.34	1.75E-02	9.29E-02
WNT3	202.30	0.58	0.35	1.80E-02	9.45E-02

MTERF1	733.27	0.58	0.22	2.43E-03	2.46E-02
LRRC1	754.53	0.58	0.35	1.85E-02	9.62E-02
SHMT2	3103.48	0.58	0.19	7.72E-04	1.09E-02
ZNF720	1446.10	0.58	0.17	1.41E-04	3.22E-03
PPCS	4793.23	0.58	0.08	2.09E-12	1.45E-09
HOXB7	1015.25	0.58	0.27	7.63E-03	5.36E-02
ZNF827	1276.08	0.58	0.29	1.05E-02	6.56E-02
ZNF814	649.21	0.58	0.30	1.21E-02	7.19E-02
COQ2	1113.04	0.58	0.21	1.54E-03	1.77E-02
BNIP1	731.15	0.57	0.21	1.76E-03	1.96E-02
PROX2	9.54	0.57	1.33	8.57E-03	5.77E-02
AKR1A1	9239.92	0.57	0.22	2.42E-03	2.45E-02
COMMD9	3219.99	0.57	0.27	8.14E-03	5.59E-02
BROX	4107.54	0.57	0.22	2.29E-03	2.35E-02
ZNHIT1	5479.38	0.57	0.21	1.53E-03	1.77E-02
MLST8	3150.95	0.57	0.11	3.77E-08	5.78E-06
NME2	10708.11	0.57	0.34	1.79E-02	9.45E-02
SLFN13	509.92	0.57	0.31	1.30E-02	7.53E-02
JTB	13518.19	0.57	0.25	5.36E-03	4.22E-02
GSR	2972.95	0.57	0.22	2.56E-03	2.55E-02
NABP2	462.26	0.57	0.33	1.75E-02	9.31E-02
SLC39A4	495.07	0.57	0.29	1.09E-02	6.73E-02
SCRN3	1360.86	0.57	0.16	1.02E-04	2.55E-03
SPINK9	97.35	0.57	0.25	5.59E-03	4.32E-02
E2F5	269.92	0.57	0.28	1.01E-02	6.39E-02
C19orf24	1576.44	0.57	0.18	5.15E-04	8.19E-03
TDRD3	1437.55	0.57	0.30	1.21E-02	7.21E-02
PIGBOS1	934.34	0.57	0.18	5.62E-04	8.75E-03
IDH1	8054.56	0.56	0.29	1.05E-02	6.56E-02
ZNF419	699.84	0.56	0.32	1.63E-02	8.82E-02
AIDA	6541.61	0.56	0.33	1.86E-02	9.68E-02
SPC25	172.01	0.56	0.99	1.55E-02	8.56E-02
NLK	235.82	0.56	0.17	3.70E-04	6.59E-03
RARS2	5799.62	0.56	0.32	1.58E-02	8.67E-02
ZNF969	729.21	0.56	0.21	2.31E-03	2.36E-02
SLC38A7	2193.90	0.56	0.27	8.21E-03	5.62E-02
CNEP1R1	2155.50	0.56	0.16	1.20E-04	2.85E-03
OR5A1	53.72	0.56	0.28	1.19E-02	7.13E-02
L3HYPDH	2282.26	0.56	0.23	3.38E-03	3.04E-02
COMMD8	2339.97	0.56	0.29	1.29E-02	7.50E-02
LGALS3	32432.22	0.56	0.20	1.25E-03	1.53E-02
ZNF550	1010.03	0.56	0.23	4.23E-03	3.57E-02
LTC4S	613.25	0.56	0.91	1.85E-02	9.62E-02
SYT3	37.75	0.56	0.93	1.85E-02	9.63E-02
TXNDC17	2449.64	0.56	0.28	1.13E-02	6.89E-02
ZNF776	943.13	0.56	0.27	9.10E-03	5.99E-02
RFESD	202.77	0.55	0.30	1.51E-02	8.38E-02
SULT1B1	758.88	0.55	1.06	1.16E-02	6.98E-02
CCDC106	1015.97	0.55	0.18	7.27E-04	1.05E-02
ZIK1	458.95	0.55	0.31	1.73E-02	9.23E-02
TMEM106A	782.98	0.55	0.28	1.19E-02	7.11E-02
ERCC8	940.89	0.55	0.17	4.47E-04	7.49E-03
JRKL	1570.40	0.55	0.20	1.86E-03	2.03E-02
C8orf76	1187.82	0.55	0.28	1.25E-02	7.36E-02
RHBDD3	1751.40	0.55	0.16	1.81E-04	3.95E-03
METTL18	557.97	0.55	0.30	1.61E-02	8.77E-02
ZNF562	1110.02	0.55	0.30	1.61E-02	8.77E-02
AP5M1	3545.37	0.55	0.19	1.18E-03	1.47E-02
EIF2AK1	9207.34	0.54	0.21	2.85E-03	2.71E-02
IFI44	1782.78	0.54	0.30	1.63E-02	8.82E-02
ADAM32	362.33	0.54	0.26	9.87E-03	6.33E-02
CUTA	9299.63	0.54	0.22	3.35E-03	3.03E-02
UCHL3	1726.28	0.54	0.31	1.89E-02	9.75E-02
TRPM7	3874.80	0.54	0.26	8.92E-03	5.92E-02
LGALS1	67604.99	0.54	0.30	1.90E-02	9.81E-02
EEF1A2	38.10	0.54	1.26	5.36E-03	4.22E-02
IFI27L2	1938.31	0.54	0.26	1.00E-02	6.38E-02
GLMN	761.77	0.54	0.24	6.03E-03	4.55E-02
TCEAL9	12829.92	0.54	0.29	1.45E-02	8.17E-02
RBAK	1433.51	0.54	0.22	4.18E-03	3.54E-02
VPS25	3085.83	0.54	0.15	1.04E-04	2.58E-03
ZBED3	2151.56	0.54	0.30	1.73E-02	9.21E-02
ZNF107	704.32	0.54	0.17	4.27E-04	7.23E-03
DPAGT1	3571.06	0.54	0.17	6.11E-04	9.19E-03
PRKCSH	6437.04	0.53	0.26	1.09E-02	6.73E-02
TFB2M	1344.31	0.53	0.21	2.66E-03	2.62E-02
ZNF461	445.44	0.53	0.27	1.26E-02	7.40E-02
MRS2	2168.49	0.53	0.17	7.27E-04	1.05E-02
MIER2	1360.41	0.53	0.27	1.26E-02	7.39E-02
ZNF189	653.41	0.53	0.24	7.28E-03	5.18E-02
ZSCAN2	447.50	0.53	0.19	1.78E-03	1.96E-02
LZTFL1	1934.05	0.53	0.29	1.61E-02	8.76E-02
CD2AP	1783.21	0.53	0.20	2.56E-03	2.55E-02
C12orf76	732.52	0.53	0.21	3.56E-03	3.17E-02
SPAST	1871.38	0.53	0.26	1.04E-02	6.52E-02
ANAPC13	6336.66	0.53	0.11	4.46E-07	4.28E-05
EDARADD	122.00	0.53	1.75	2.27E-04	4.61E-03
B9D2	328.01	0.53	0.24	8.11E-03	5.58E-02
CHD3	4022.92	0.52	0.11	1.67E-06	1.21E-04
TRIM27	4650.71	0.52	0.17	5.40E-04	8.48E-03
RCBTB2	3083.38	0.52	0.10	3.36E-08	5.21E-06
CDK7	1461.97	0.52	0.21	3.25E-03	2.95E-02
B3GALT6	2970.30	0.52	0.18	1.19E-03	1.48E-02
RPP38	946.26	0.52	0.23	6.95E-03	5.02E-02
CHCHD1	1523.10	0.52	0.23	5.92E-03	4.50E-02
PIGC	3467.75	0.52	0.21	4.48E-03	3.72E-02
SFXN5	1041.71	0.52	0.27	1.39E-02	7.92E-02
TMEM39A	5444.47	0.52	0.29	1.81E-02	9.51E-02
C14orf119	5163.51	0.52	0.24	8.89E-03	5.91E-02
B3GNTL1	407.13	0.52	0.23	7.83E-03	5.45E-02
FAM200A	793.18	0.52	0.27	1.53E-02	8.48E-02
C18orf21	534.18	0.52	0.26	1.23E-02	7.26E-02

PEAK1	5182.24	0.52	0.22	5.81E-03	4.44E-02
PRIM2	798.19	0.52	0.27	1.52E-02	8.41E-02
TGDS	1342.12	0.52	0.19	1.77E-03	1.96E-02
TMEM260	2114.33	0.51	0.14	1.23E-04	2.89E-03
FAM114A2	2456.55	0.51	0.22	6.08E-03	4.57E-02
TACO1	1098.17	0.51	0.16	3.18E-04	5.92E-03
AP3B1	5657.08	0.51	0.22	5.95E-03	4.51E-02
APH1A	4528.44	0.51	0.25	1.13E-02	6.89E-02
TOR1AIP2	3929.80	0.51	0.25	1.10E-02	6.76E-02
CGREF1	2351.62	0.51	1.00	9.58E-03	6.19E-02
SLC25A16	783.96	0.51	0.15	2.81E-04	5.40E-03
DDX42	2691.25	0.51	0.26	1.40E-02	7.98E-02
ZFP30	562.42	0.51	0.16	5.94E-04	9.06E-03
ATP2C1	4856.20	0.51	0.26	1.46E-02	8.19E-02
POLA2	587.85	0.51	0.26	1.41E-02	8.01E-02
DECR1	5352.22	0.51	0.23	7.13E-03	5.11E-02
FOXP1	12943.84	0.51	0.17	1.07E-03	1.38E-02
NXT2	1245.13	0.51	0.19	2.35E-03	2.39E-02
EBP	1441.51	0.51	0.19	2.45E-03	2.47E-02
CBX3	7302.65	0.51	0.19	2.87E-03	2.72E-02
ZCCHC7	2236.12	0.51	0.12	5.18E-06	2.79E-04
FAH	2690.41	0.51	1.09	5.08E-03	4.06E-02
GLB1	7386.17	0.51	0.25	1.23E-02	7.25E-02
TRNT1	1761.97	0.50	0.25	1.17E-02	7.02E-02
ZNF180	839.84	0.50	0.26	1.45E-02	8.17E-02
RGS17	132.96	0.50	0.85	1.88E-02	9.73E-02
MARCKSL1	11813.60	0.50	0.81	1.94E-02	9.94E-02
AGGF1	3205.55	0.50	0.14	8.45E-05	2.22E-03
ZNF490	266.61	0.50	0.26	1.40E-02	7.97E-02
OVC22	1236.42	0.50	0.19	2.89E-03	2.62E-02
SEC81G	5335.01	0.50	0.19	2.86E-03	2.61E-02
ZSCAN20	241.88	0.50	0.23	8.42E-03	5.69E-02
TAOK2	2844.37	0.50	0.26	1.59E-02	8.68E-02
CCDC90B	4964.44	0.50	0.16	6.15E-04	9.24E-03
NPTX2	464.73	0.50	1.11	3.79E-03	3.32E-02
PDI3	54467.48	0.50	0.23	9.29E-03	6.07E-02
EME1	119.16	0.50	0.88	1.57E-02	8.62E-02
B4GALT7	2297.07	0.50	0.19	2.35E-03	2.39E-02
MYO1B	14724.95	0.50	0.21	5.55E-03	4.29E-02
SHANK2	42.61	0.50	0.94	1.16E-02	7.00E-02
TRA2A	3345.82	0.50	0.21	6.49E-03	4.79E-02
GPATCH2	1236.44	0.50	0.17	1.24E-03	1.52E-02
SAC3D1	882.84	0.50	0.23	8.67E-03	5.81E-02
LAGE3	954.34	0.50	0.21	5.15E-03	4.10E-02
C3orf38	2264.77	0.49	0.23	9.09E-03	5.99E-02
SMIM20	1923.49	0.49	0.20	4.47E-03	3.72E-02
CASP6	1336.90	0.49	0.24	1.28E-02	7.46E-02
TATDN2	1389.23	0.49	0.26	1.68E-02	9.01E-02
RAP2A	3625.67	0.49	0.24	1.18E-02	7.06E-02
PPIC	23173.86	0.49	0.75	1.93E-02	9.90E-02
MRPS33	1234.81	0.49	0.20	4.57E-03	3.78E-02
DNAJC4	2125.03	0.49	0.22	7.41E-03	5.24E-02
PGLS	2946.59	0.49	0.24	1.18E-02	7.06E-02
SRP9	18588.62	0.49	0.13	8.71E-05	2.25E-03
CSGALNACT2	5414.97	0.49	0.25	1.53E-02	8.47E-02
WDFY1	9030.44	0.49	0.17	1.30E-03	1.58E-02
SLFN12L	157.58	0.49	0.92	1.10E-02	6.76E-02
NCK1	3502.07	0.49	0.19	3.42E-03	3.06E-02
IMPACT	3731.85	0.48	0.14	2.96E-04	5.61E-03
DERL2	4883.65	0.48	0.19	3.41E-03	3.06E-02
MR1	1701.87	0.48	0.25	1.59E-02	8.70E-02
TBC1D23	6371.45	0.48	0.22	9.93E-03	6.36E-02
TEX11	16.70	0.48	1.07	2.86E-03	2.71E-02
RWDD2A	954.88	0.48	0.19	3.43E-03	3.07E-02
SUPT20H	4018.32	0.48	0.15	4.12E-04	7.08E-03
PDZD11	2869.80	0.48	0.25	1.78E-02	9.40E-02
SCN11A	95.22	0.48	0.96	6.57E-03	4.83E-02
CCDC110	537.77	0.48	0.85	1.44E-02	8.13E-02
RGS4	4649.99	0.48	1.00	3.84E-03	3.34E-02
S100PBP	2753.24	0.48	0.15	4.83E-04	7.90E-03
COX18	495.16	0.48	0.19	3.82E-03	3.33E-02
OXLD1	1271.58	0.48	0.14	2.79E-04	5.38E-03
ALG3	3179.62	0.48	0.18	2.71E-03	2.63E-02
MYL6B	1918.01	0.48	0.23	1.22E-02	7.24E-02
COX16	2671.49	0.47	0.13	1.09E-04	2.67E-03
TMEM42	1313.10	0.47	0.21	7.31E-03	5.19E-02
LINS1	1327.15	0.47	0.21	7.15E-03	5.12E-02
VTA1	6045.60	0.47	0.21	8.39E-03	5.68E-02
CDK19	676.08	0.47	0.21	8.15E-03	5.60E-02
LGALS2	461.56	0.47	1.21	8.16E-05	2.18E-03
KDEL1	11981.39	0.47	0.24	1.53E-02	8.49E-02
EVA1B	3240.48	0.47	0.18	3.29E-03	2.99E-02
COMMD3	3727.63	0.47	0.09	1.56E-08	2.74E-06
ASCC3	4324.46	0.47	0.16	1.04E-03	1.36E-02
SCFD1	7625.92	0.47	0.17	2.45E-03	2.48E-02
KDM8	438.49	0.47	0.19	4.27E-03	3.59E-02
RNF113A	886.50	0.47	0.15	9.61E-04	1.27E-02
TRAPPC1	3919.67	0.47	0.18	4.10E-03	3.50E-02
SAYS1D1	1503.95	0.47	0.21	8.86E-03	5.90E-02
TMEFF1	108.65	0.47	0.95	4.78E-03	3.90E-02
ADAT1	1241.55	0.47	0.15	7.32E-04	1.05E-02
COPZ1	9781.28	0.46	0.18	3.20E-03	2.93E-02
NFXL1	1163.08	0.46	0.16	1.54E-03	1.77E-02
ALG14	1336.99	0.46	0.18	4.01E-03	3.45E-02
PPHLN1	4239.11	0.46	0.12	2.40E-05	8.82E-04
GEMIN6	583.29	0.46	0.20	8.01E-03	5.53E-02
NEURL4	507.17	0.46	0.14	4.03E-04	6.96E-03
RBM4B	2157.92	0.46	0.23	1.43E-02	8.08E-02
SUPT4H1	3693.63	0.46	0.17	3.01E-03	2.82E-02
GTPBP8	858.36	0.46	0.18	4.73E-03	3.87E-02
C1QL1	248.70	0.46	0.98	2.00E-03	2.14E-02
TMEM219	8374.08	0.46	0.12	3.32E-05	1.12E-03

MMS22L	588.57	0.46	0.22	1.24E-02	7.32E-02
IL27RA	927.83	0.45	0.92	4.05E-03	3.47E-02
GSK3B	2487.05	0.45	0.15	8.59E-04	1.18E-02
FAHD1	1622.74	0.45	0.18	4.42E-03	3.69E-02
DAD1	16794.70	0.45	0.21	1.16E-02	7.01E-02
LOX	39004.88	0.45	0.78	1.30E-02	7.53E-02
ADM2	65.80	0.45	0.83	1.19E-02	7.11E-02
COL1A2	3678459.70	0.45	0.76	2.36E-04	4.76E-03
NAGK	5564.84	0.45	0.21	1.06E-02	6.59E-02
SUSD3	391.13	0.45	0.90	4.81E-03	3.92E-02
FIBP	4670.99	0.45	0.20	1.00E-02	6.38E-02
CHRNA9	8.06	0.45	1.07	5.78E-05	1.70E-03
HAUS3	1987.12	0.45	0.10	3.29E-06	2.00E-04
ZNF811	1206.22	0.45	0.18	5.20E-03	4.13E-02
MTRF1	714.27	0.45	0.23	1.70E-02	9.09E-02
ESCO2	184.44	0.45	0.85	8.52E-03	5.75E-02
RBM45	766.16	0.45	0.20	9.82E-03	6.32E-02
ANKRD49	1369.94	0.45	0.23	1.65E-02	8.90E-02
ARL14EP	2620.89	0.45	0.16	1.57E-03	1.80E-02
TMEM216	1695.73	0.45	0.21	1.28E-02	7.45E-02
PMCH	7.46	0.45	1.04	8.08E-05	2.16E-03
YARS2	1376.81	0.45	0.19	6.93E-03	5.01E-02
FUNDC1	997.12	0.45	0.16	1.89E-03	2.06E-02
FKBP3	4310.09	0.45	0.19	7.36E-03	5.21E-02
KRCC1	2638.68	0.44	0.20	1.16E-02	7.00E-02
PIPSK2	5534.66	0.44	0.14	5.51E-04	8.63E-03
SH3GLB1	12787.65	0.44	0.18	5.39E-03	4.22E-02
NUP37	1607.34	0.44	0.21	1.24E-02	7.29E-02
C1orf131	1025.82	0.44	0.16	2.43E-03	2.46E-02
INIP	1969.00	0.44	0.17	4.46E-03	3.72E-02
DPM2	2775.61	0.44	0.14	9.10E-04	1.22E-02
LAMP5	1737.71	0.44	0.85	5.39E-03	4.22E-02
GTF2H5	2809.82	0.44	0.08	6.72E-08	9.12E-06
TIAL1	1754.81	0.44	0.21	1.27E-02	7.42E-02
ACIN1	2743.63	0.44	0.08	1.97E-08	3.44E-06
TTC9C	1179.18	0.44	0.14	5.56E-04	8.68E-03
DYRK1B	1294.96	0.44	0.17	4.96E-03	3.98E-02
ZNF480	1520.95	0.44	0.18	6.23E-03	4.65E-02
RING1	1244.25	0.44	0.22	1.71E-02	9.14E-02
ZCCHC9	1400.32	0.43	0.13	4.08E-04	7.03E-03
SMIM18	11.25	0.43	0.80	1.17E-02	7.04E-02
C18orf32	6307.23	0.43	0.15	1.39E-03	1.65E-02
C10orf82	102.17	0.43	0.84	5.40E-03	4.23E-02
ELP6	1437.80	0.43	0.20	1.19E-02	7.11E-02
ZDHC16	2559.30	0.43	0.19	9.68E-03	6.25E-02
APLP1	1426.56	0.43	0.73	1.91E-02	9.84E-02
MAPK8	1461.60	0.43	0.17	4.94E-03	3.98E-02
CCDC43	1761.96	0.43	0.20	1.27E-02	7.43E-02
NDST3	24.58	0.43	0.81	7.27E-03	5.18E-02
KLK11	67.15	0.43	0.77	1.29E-02	7.48E-02
ZNF138	680.79	0.43	0.22	1.93E-02	9.90E-02
SPOCD1	76.18	0.43	0.89	9.94E-04	1.31E-02
TMEM126B	3131.16	0.43	0.15	1.94E-03	2.09E-02
DSG2	2251.22	0.43	0.94	8.47E-05	2.22E-03
MRPL19	3286.13	0.43	0.13	3.52E-04	6.37E-03
DENR	6466.10	0.43	0.14	9.87E-04	1.30E-02
CENPW	1224.84	0.43	0.73	1.83E-02	9.58E-02
NXPH4	158.53	0.43	0.89	9.91E-04	1.31E-02
CASP2	1371.79	0.42	0.17	6.10E-03	4.58E-02
ACTR8	1893.47	0.42	0.15	1.62E-03	1.84E-02
TMEM258	4029.32	0.42	0.15	1.91E-03	2.07E-02
WDPCP	1454.56	0.42	0.19	1.06E-02	6.58E-02
SCG2	3064.12	0.42	0.94	1.70E-05	6.75E-04
CARNMT1	1528.12	0.42	0.19	1.23E-02	7.27E-02
RAB33A	145.95	0.42	0.73	1.62E-02	8.80E-02
DEUP1	17.88	0.42	0.93	4.33E-05	1.36E-03
ARHGAP8	82.25	0.42	0.77	9.99E-03	6.37E-02
CHST6	396.47	0.42	0.85	1.59E-03	1.82E-02
R3HDM1	1392.85	0.42	0.18	9.05E-03	5.97E-02
SMYD3	1424.49	0.42	0.17	4.94E-03	3.98E-02
POLQ	98.28	0.42	0.82	2.68E-03	2.62E-02
ARF5	10209.80	0.41	0.14	1.02E-03	1.33E-02
GSS	2762.72	0.41	0.15	3.23E-03	2.95E-02
TIRAP	492.77	0.41	0.16	4.44E-03	3.70E-02
ZNF766	1734.63	0.41	0.15	2.82E-03	2.69E-02
RAD50	5210.32	0.41	0.14	1.64E-03	1.86E-02
GAS2L3	336.53	0.41	0.72	1.41E-02	8.00E-02
ZMYM2	3948.05	0.41	0.20	1.79E-02	9.43E-02
NUPL2	1606.04	0.41	0.12	3.86E-04	6.77E-03
HLTF	4399.98	0.41	0.20	1.75E-02	9.29E-02
RWDD3	1354.04	0.41	0.19	1.40E-02	7.97E-02
LEO1	2163.94	0.41	0.16	3.92E-03	3.40E-02
C1orf174	2371.15	0.41	0.13	6.89E-04	1.01E-02
MED19	1404.55	0.41	0.20	1.87E-02	9.71E-02
PTPRN	70.33	0.41	0.81	1.37E-03	1.64E-02
ADCK5	748.78	0.41	0.17	8.16E-03	5.60E-02
MORF4L1	33867.10	0.41	0.15	3.58E-03	3.17E-02
ELAC1	909.13	0.40	0.17	6.71E-03	4.89E-02
ORC5	1317.52	0.40	0.09	4.08E-06	2.35E-04
C9orf85	992.72	0.40	0.13	1.11E-03	1.42E-02
ZNF146	5703.56	0.40	0.17	9.21E-03	6.04E-02
CPSF2	3084.32	0.40	0.18	1.26E-02	7.36E-02
ALG2	3859.20	0.40	0.19	1.41E-02	8.01E-02
TMCO1	8813.33	0.40	0.14	2.85E-03	2.71E-02
MRPL27	3350.33	0.40	0.19	1.62E-02	8.79E-02
LAG3	691.71	0.40	0.75	4.94E-03	3.98E-02
PUSL1	983.69	0.40	0.17	9.49E-03	6.15E-02
YIPF3	10400.29	0.40	0.18	1.20E-02	7.15E-02
SLC25A46	4005.78	0.39	0.10	7.34E-05	2.04E-03
C12orf73	520.91	0.39	0.19	1.68E-02	9.01E-02
SLC35E3	1839.36	0.39	0.17	1.01E-02	6.40E-02
NSA2	1482.29	0.39	0.17	1.12E-02	6.82E-02

OST4	11688.54	0.39	0.16	6.62E-03	4.84E-02
TADA1	1318.79	0.39	0.19	1.79E-02	9.42E-02
STX18	2365.57	0.39	0.09	1.40E-05	5.82E-04
EED	1572.45	0.39	0.18	1.50E-02	8.36E-02
GTF2H3	1524.88	0.39	0.13	1.30E-03	1.58E-02
DHX29	3415.04	0.39	0.17	1.00E-02	6.37E-02
YEATS2	1551.82	0.39	0.18	1.46E-02	8.18E-02
SMC6	2951.05	0.39	0.14	3.02E-03	2.82E-02
CIR1	2795.53	0.38	0.15	6.00E-03	4.54E-02
ANGPTL6	298.75	0.38	0.72	5.84E-03	4.45E-02
SEZ6L2	1210.01	0.38	0.77	3.49E-04	6.36E-03
ZCCHC12	154.40	0.38	0.71	6.90E-03	5.00E-02
ZNF281	2407.22	0.38	0.16	8.97E-03	5.94E-02
BICD1	1762.81	0.38	0.18	1.59E-02	8.68E-02
HTR2B	799.54	0.38	0.71	6.61E-03	4.84E-02
MPV17	4772.26	0.38	0.15	5.70E-03	4.37E-02
ARMCX6	1180.18	0.38	0.15	4.54E-03	3.76E-02
CNTN6	137.84	0.38	0.70	7.17E-03	5.13E-02
DLG1	3881.33	0.38	0.18	1.84E-02	9.60E-02
TIMM21	2515.57	0.38	0.11	1.60E-04	3.58E-03
ASPN	65896.35	0.38	0.67	9.75E-03	6.28E-02
PGGT1B	1774.42	0.38	0.13	1.59E-03	1.82E-02
AASDHPPT	4125.98	0.38	0.18	1.54E-02	8.50E-02
GLS	8583.99	0.38	0.16	9.87E-03	6.33E-02
PGAM1	21174.33	0.38	0.17	1.25E-02	7.35E-02
APOPT1	2217.89	0.38	0.15	5.63E-03	4.33E-02
RBM47	1285.46	0.38	0.74	6.11E-04	9.19E-03
CLK2	1765.68	0.37	0.17	1.15E-02	6.94E-02
COQ4	2462.56	0.37	0.12	9.57E-04	1.27E-02
MED31	1338.44	0.37	0.18	1.83E-02	9.57E-02
GOLGA7	9777.84	0.37	0.14	4.15E-03	3.52E-02
COLGAL1	7694.60	0.37	0.15	7.58E-03	5.33E-02
SPAG9	7502.61	0.37	0.16	1.22E-02	7.23E-02
CLN5	5369.80	0.37	0.16	9.98E-03	6.37E-02
RPAP2	3071.16	0.37	0.16	9.70E-03	6.25E-02
CLSPN	154.64	0.37	0.64	1.70E-02	9.12E-02
CHST1	392.84	0.37	0.65	1.44E-02	8.13E-02
PSMA2	8262.01	0.37	0.16	9.85E-03	6.32E-02
LAMTOR3	4345.93	0.37	0.13	2.50E-03	2.51E-02
ANKRD26	1218.86	0.37	0.17	1.39E-02	7.92E-02
LRFN1	144.56	0.37	0.67	6.90E-03	5.00E-02
SLC30A9	7000.01	0.37	0.13	2.35E-03	2.39E-02
CPXM1	61889.57	0.37	0.63	1.62E-02	8.82E-02
ALDH7A1	4312.54	0.36	0.15	9.85E-03	6.32E-02
UFC1	3598.45	0.36	0.16	1.19E-02	7.13E-02
PPIH	920.78	0.36	0.15	9.40E-03	6.12E-02
TIMM9	1518.84	0.36	0.16	1.07E-02	6.63E-02
HIF1A	15094.08	0.36	0.17	1.74E-02	9.28E-02
PIAS2	3120.96	0.36	0.15	1.00E-02	6.37E-02
PANX2	33.43	0.36	0.72	1.55E-05	6.29E-04
LYPD1	189.59	0.36	0.68	2.48E-03	2.50E-02
HMCN1	14982.38	0.36	0.66	6.43E-03	4.75E-02
TAF12	2494.26	0.35	0.13	3.04E-03	2.83E-02
WISP3	124.71	0.35	0.63	1.45E-02	8.16E-02
ERLIN2	960.31	0.35	0.12	1.39E-03	1.65E-02
DNAAF2	1666.79	0.35	0.15	1.01E-02	6.41E-02
POLR2G	5001.96	0.35	0.15	1.04E-02	6.53E-02
AGPAT2	2948.52	0.35	0.13	3.03E-03	2.83E-02
SUCLG1	5244.80	0.35	0.15	1.16E-02	7.01E-02
ZNF354A	1104.97	0.35	0.12	2.14E-03	2.24E-02
AIFM3	42.31	0.35	0.64	8.81E-03	5.87E-02
PRR36	101.09	0.35	0.65	3.04E-03	2.83E-02
KIAA1024	414.83	0.35	0.63	8.74E-03	5.84E-02
PTPMT1	2837.30	0.35	0.15	1.08E-02	6.65E-02
NFE2L3	852.13	0.34	0.65	2.09E-03	2.20E-02
APOC1	1124.10	0.34	0.67	7.63E-04	1.08E-02
ALG8	2753.25	0.34	0.15	1.18E-02	7.10E-02
SEMA6B	430.06	0.34	0.61	1.70E-02	9.10E-02
CWC15	3936.29	0.34	0.14	7.19E-03	5.15E-02
SMARCAD1	2536.46	0.34	0.15	1.14E-02	6.92E-02
EPYC	4137.16	0.34	0.69	5.26E-11	1.97E-08
ZNF775	812.46	0.34	0.16	1.68E-02	9.04E-02
MYO19	1575.79	0.34	0.15	1.48E-02	8.27E-02
FAM173B	808.12	0.34	0.14	7.97E-03	5.51E-02
MDF1	671.65	0.34	0.62	8.45E-03	5.71E-02
EFNB3	669.79	0.34	0.66	1.90E-04	4.09E-03
GFER	555.34	0.34	0.16	1.76E-02	9.35E-02
EXOSC1	1435.39	0.34	0.16	1.81E-02	9.51E-02
G2E3	1811.98	0.34	0.16	1.77E-02	9.35E-02
SFRP4	132492.23	0.34	0.60	1.31E-02	7.58E-02
CENPM	143.25	0.33	0.62	8.32E-03	5.65E-02
NLGN4X	767.62	0.33	0.65	2.77E-04	5.37E-03
FCHO1	224.31	0.33	0.64	1.04E-03	1.36E-02
DNAJC22	354.29	0.33	0.65	8.77E-05	2.26E-03
LSM8	1932.99	0.33	0.16	1.89E-02	9.75E-02
DDOST	21348.98	0.33	0.15	1.64E-02	8.86E-02
TNFSF11	226.48	0.33	0.64	7.11E-04	1.03E-02
CLIC3	924.67	0.33	0.59	1.83E-02	9.55E-02
SNUPN	2124.61	0.33	0.16	1.88E-02	9.73E-02
SLC35F5	5718.54	0.33	0.14	1.25E-02	7.35E-02
NOL8	2842.20	0.33	0.16	1.94E-02	9.93E-02
AKR7A2	6344.17	0.33	0.14	1.11E-02	6.80E-02
TTK	156.84	0.33	0.61	3.69E-03	3.25E-02
DPH5	736.70	0.32	0.14	1.15E-02	6.94E-02
APOE	53974.53	0.32	0.59	1.27E-02	7.42E-02
WDR92	1072.03	0.32	0.14	1.27E-02	7.43E-02
BFAR	2900.51	0.32	0.12	5.35E-03	4.21E-02
SUMO1	9869.83	0.32	0.09	1.57E-04	3.53E-03
TRMT61B	1319.99	0.32	0.13	1.02E-02	6.46E-02
KRT80	51.42	0.32	0.62	1.28E-04	2.96E-03
ARSE	318.53	0.32	0.59	1.01E-02	6.38E-02
TACC3	439.66	0.32	0.58	1.15E-02	6.94E-02

SCT	4.96	0.32	0.61	4.65E-04	7.70E-03
RNF128	106.17	0.32	0.61	3.02E-04	5.68E-03
BIRC2	6909.52	0.32	0.13	1.20E-02	7.16E-02
RUBCNL	204.75	0.31	0.60	2.46E-03	2.48E-02
EEF1AKMT2	1784.24	0.31	0.14	1.50E-02	8.34E-02
NKPD1	8.32	0.31	0.59	6.26E-03	4.67E-02
HIGD1B	740.45	0.31	0.59	6.80E-03	4.94E-02
TD02	2953.48	0.31	0.62	1.15E-05	5.00E-04
ADGRF5	5610.68	0.31	0.56	1.91E-02	9.83E-02
COL9A2	1610.75	0.31	0.57	1.28E-02	7.46E-02
MOY10L1	102.58	0.31	0.58	1.05E-02	6.56E-02
LRRCG6	19.47	0.31	0.57	1.55E-02	8.56E-02
SPAG17	42.79	0.31	0.58	6.35E-03	4.71E-02
TFCP2	1376.77	0.31	0.11	2.09E-03	2.20E-02
USP34	3414.95	0.31	0.11	2.24E-03	2.31E-02
FAM136A	2725.86	0.31	0.13	9.29E-03	6.07E-02
GALNT14	708.18	0.31	0.59	1.32E-03	1.59E-02
CPA4	472.50	0.31	0.59	1.08E-03	1.39E-02
SPCS1	7968.06	0.31	0.13	1.25E-02	7.33E-02
CPNE7	76.37	0.31	0.60	2.45E-04	4.92E-03
TRAPPC5	3312.22	0.30	0.14	1.79E-02	9.44E-02
BEAN1	339.23	0.30	0.57	9.96E-03	6.36E-02
UFL1	4740.99	0.30	0.13	1.40E-02	7.95E-02
TSPAN13	2564.38	0.30	0.57	8.27E-03	5.64E-02
TMPRSS3	10.59	0.30	0.56	1.65E-02	8.91E-02
TAF10	4043.67	0.30	0.11	5.46E-03	4.25E-02
HOXA1	80.55	0.30	0.55	1.44E-02	8.12E-02
GPR158	79.93	0.30	0.57	1.79E-03	1.97E-02
TMEM147	6016.12	0.29	0.13	1.75E-02	9.29E-02
SOX30	38.53	0.29	0.54	1.93E-02	9.92E-02
FLRT3	450.56	0.29	0.54	1.58E-02	8.70E-02
CDCP1	159.00	0.29	0.56	2.07E-03	2.19E-02
NEBL	102.58	0.29	0.54	1.77E-02	9.38E-02
TRIM14	603.69	0.29	0.54	1.19E-02	7.11E-02
PTPN4	1357.09	0.29	0.12	1.35E-02	7.77E-02
AGAP2	46.57	0.28	0.54	1.35E-02	7.76E-02
CEP55	253.75	0.28	0.54	1.43E-02	8.08E-02
GTSE1	175.68	0.28	0.54	1.15E-02	6.94E-02
COL10A1	581.23	0.28	0.55	1.32E-03	1.59E-02
SKA3	117.19	0.28	0.54	4.90E-03	3.96E-02
TMEM163	74.17	0.28	0.53	9.81E-03	6.31E-02
APLN	1004.81	0.28	0.53	1.23E-02	7.27E-02
CLNS1A	3048.66	0.28	0.13	1.94E-02	9.94E-02
ASPHD1	152.86	0.28	0.55	7.39E-04	1.06E-02
RFLNA	798.90	0.27	0.53	9.11E-03	6.00E-02
TESMIN	24.54	0.27	0.52	1.90E-02	9.81E-02
UHRF1	501.21	0.27	0.52	1.69E-02	9.06E-02
KRT18	3828.70	0.27	0.54	1.10E-03	1.41E-02
KIAA1324L	17670.34	0.27	0.53	3.71E-03	3.26E-02
SNX10	4617.01	0.27	0.55	5.49E-06	2.89E-04
DIRC1	35.76	0.27	0.53	1.60E-03	1.82E-02
TSNAX	4278.23	0.27	0.12	1.51E-02	8.38E-02
PLPPR3	18.18	0.26	0.52	8.83E-03	5.88E-02
SIDT1	103.31	0.26	0.53	3.86E-04	6.77E-03
PLAC1	39.33	0.26	0.53	1.03E-03	1.35E-02
KIAA1211L	371.86	0.26	0.51	1.32E-02	7.60E-02
USP43	55.36	0.26	0.51	8.92E-03	5.92E-02
MAGED4	787.97	0.26	0.51	1.65E-02	8.90E-02
TMEM26	548.34	0.25	0.52	5.33E-04	8.41E-03
PARN	3837.24	0.25	0.10	6.58E-03	4.83E-02
RAB27B	327.03	0.25	0.51	2.10E-03	2.20E-02
C10orf90	20.72	0.25	0.51	4.43E-03	3.70E-02
P2RY6	178.10	0.25	0.52	1.36E-06	1.03E-04
CD7	179.86	0.25	0.52	4.29E-05	1.36E-03
IL19	27.64	0.25	0.52	3.99E-04	6.94E-03
DSC2	1147.12	0.25	0.51	3.72E-04	6.62E-03
PDRG1	1125.58	0.25	0.09	2.85E-03	2.71E-02
EPHX3	109.06	0.25	0.50	1.65E-02	8.91E-02
TMEM92	175.01	0.25	0.51	4.12E-03	3.51E-02
GIP	42.74	0.25	0.52	3.35E-07	3.52E-05
POU2F3	35.56	0.24	0.50	7.83E-03	5.45E-02
FAM19A3	99.62	0.24	0.51	7.27E-04	1.05E-02
VTN	1163.41	0.24	0.50	8.61E-03	5.79E-02
MCHR1	99.97	0.24	0.51	1.80E-06	1.27E-04
NRG1	358.67	0.24	0.51	4.80E-05	1.47E-03
LRRC43	27.74	0.24	0.49	1.11E-02	6.77E-02
HMMR	226.43	0.24	0.49	1.19E-02	7.11E-02
M1AP	19.74	0.24	0.49	7.84E-03	5.45E-02
RAC2	2348.63	0.24	0.50	4.53E-06	2.52E-04
CLDN16	63.07	0.24	0.50	7.96E-04	1.11E-02
TOX	189.98	0.23	0.50	1.35E-03	1.62E-02
CALB2	424.49	0.23	0.50	9.27E-04	1.24E-02
F2RL1	169.36	0.23	0.48	1.58E-02	8.66E-02
TNIP3	15.01	0.23	0.49	3.39E-03	3.05E-02
CAMK2N2	11.99	0.23	0.49	2.40E-03	2.44E-02
INHA	20.06	0.23	0.48	1.21E-02	7.20E-02
HRASLS	26.23	0.23	0.49	7.48E-03	5.28E-02
HSD17B6	236.95	0.23	0.49	2.16E-03	2.25E-02
AQP5	130.04	0.23	0.48	9.87E-03	6.33E-02
CLDN1	9051.93	0.23	0.49	7.80E-04	1.10E-02
GALNT13	3407.91	0.23	0.48	7.21E-03	5.15E-02
C7orf57	12.27	0.23	0.48	4.61E-03	3.80E-02
FXVD7	76.44	0.23	0.48	1.90E-02	9.81E-02
NKX2-3	648.78	0.22	0.49	1.35E-05	5.69E-04
EPCAM	9.70	0.22	0.48	9.12E-03	6.00E-02
ELFN1	451.61	0.22	0.48	4.37E-04	7.36E-03
PPP2R5C	6776.65	0.22	0.09	1.45E-02	8.15E-02
SPATA8	8.31	0.22	0.48	4.59E-03	3.79E-02
AIM2	29.34	0.22	0.48	3.14E-03	2.89E-02
PRSS21	20.29	0.22	0.48	1.18E-04	2.80E-03
CPLX1	125.04	0.22	0.47	7.11E-03	5.10E-02
BDH1	247.98	0.22	0.47	9.21E-03	6.04E-02

MARCO	283.56	0.21	0.47	3.17E-03	2.91E-02
LIX1	54.46	0.21	0.48	3.94E-06	2.31E-04
OPN4	61.26	0.21	0.46	1.40E-02	7.98E-02
REC8	1171.51	0.21	0.47	1.92E-03	2.08E-02
IL1R2	233.32	0.20	0.47	1.35E-03	1.62E-02
GRM3	42.61	0.20	0.47	1.19E-03	1.48E-02
KLK14	78.98	0.20	0.46	1.23E-02	7.27E-02
IGFL2	71.46	0.20	0.47	4.22E-05	1.35E-03
GSTM1	1845.23	0.20	0.46	9.06E-04	1.22E-02
WNK4	249.85	0.20	0.46	7.54E-03	5.32E-02
HHIRL2	186.20	0.20	0.45	1.82E-02	9.54E-02
HIST1H3C	3.42	0.20	0.45	1.50E-02	8.34E-02
RAB4A	4440.65	0.20	0.08	9.04E-03	5.97E-02
DSC3	728.72	0.20	0.46	3.72E-03	3.27E-02
LRRN4	630.05	0.19	0.46	9.96E-05	2.51E-03
NKX3-2	723.27	0.19	0.46	2.61E-03	2.58E-02
SLC22A18AS	46.17	0.19	0.45	1.61E-02	8.77E-02
KRT39	16.62	0.19	0.45	7.29E-03	5.19E-02
SPINT1	786.47	0.19	0.45	8.38E-04	1.15E-02
MUC3A	81.65	0.19	0.45	3.21E-03	2.93E-02
CALB1	279.69	0.19	0.45	6.58E-03	4.83E-02
OTOF	38.70	0.18	0.45	2.69E-04	5.25E-03
TAS2R10	6.23	0.18	0.44	5.19E-03	4.13E-02
ALK	9.33	0.18	0.44	1.45E-02	8.17E-02
ISL2	113.42	0.17	0.44	5.08E-04	8.12E-03
DMKN	2351.18	0.17	0.44	8.66E-03	5.81E-02
IL10	1028.03	0.17	0.44	2.14E-05	8.03E-04
LMNTD2	71.77	0.17	0.44	4.10E-03	3.50E-02
POSTN	163371.21	0.17	0.43	1.43E-02	8.09E-02
CXADR	776.42	0.17	0.43	1.76E-02	9.33E-02
LGALS12	142.07	0.16	0.43	2.48E-03	2.50E-02
GJA9	10.30	0.16	0.44	3.16E-04	5.89E-03
WFIKKN1	165.20	0.16	0.43	1.33E-02	7.64E-02
ALOX15B	104.22	0.16	0.43	4.05E-04	6.99E-03
CHRM2	347.62	0.16	0.43	1.01E-02	6.41E-02
CXCL13	28.11	0.16	0.43	1.50E-05	6.09E-04
TNNT1	65.22	0.16	0.43	5.94E-04	9.06E-03
TCERG1L	53.34	0.16	0.43	2.47E-04	4.95E-03
STXBP2	584.51	0.16	0.43	3.39E-04	6.20E-03
FAM83H	42.77	0.16	0.43	1.43E-03	1.68E-02
CA9	495.01	0.16	0.43	7.06E-05	1.99E-03
KRT8	6689.99	0.16	0.43	7.00E-04	1.02E-02
BRINP2	92.03	0.16	0.43	2.76E-06	1.74E-04
KISS1R	3.69	0.15	0.43	4.91E-03	3.97E-02
KLHL31	23.16	0.15	0.43	8.03E-03	5.54E-02
F5	2504.15	0.15	0.43	1.36E-02	7.83E-02
MYRF	1077.22	0.15	0.43	1.09E-03	1.40E-02
ADAMTS19	253.38	0.15	0.42	1.86E-02	9.68E-02
CCL22	288.80	0.15	0.43	1.15E-02	6.98E-02
PORY10	57.45	0.15	0.42	1.06E-02	6.57E-02
ILDR2	581.77	0.15	0.43	6.89E-03	4.88E-02
IGFBP2	49074.57	0.15	0.42	7.37E-03	5.22E-02
NOTUM	202.51	0.15	0.43	5.80E-04	8.94E-03
PALM3	16.06	0.15	0.42	2.70E-03	2.63E-02
EGFL6	8086.16	0.15	0.42	5.42E-03	4.24E-02
CBLN2	90.00	0.14	0.42	8.81E-04	1.20E-02
PRKCQ	100.08	0.14	0.42	7.15E-05	2.00E-03
DSC1	17.64	0.14	0.42	2.06E-03	2.18E-02
NEFL	590.08	0.14	0.42	9.50E-03	6.15E-02
CCDC68	205.98	0.14	0.42	1.78E-02	9.40E-02
NXP2	13.93	0.14	0.42	2.41E-04	4.85E-03
TNN	1483.64	0.14	0.42	2.78E-03	2.67E-02
USH2A	7.04	0.14	0.42	1.88E-02	9.73E-02
TREM1	226.78	0.14	0.42	1.13E-03	1.43E-02
WNT4	11124.99	0.13	0.42	1.54E-03	1.77E-02
SLC46A2	77.18	0.13	0.42	2.13E-04	4.42E-03
KLK7	161.96	0.13	0.41	1.64E-02	8.87E-02
PCSK9	92.83	0.13	0.41	1.35E-02	7.76E-02
BCL11B	48.55	0.13	0.41	1.91E-02	9.82E-02
DRC1	16.85	0.13	0.41	1.07E-02	6.64E-02
IL13RA2	409.20	0.12	0.41	2.24E-03	2.31E-02
NR1I2	7.00	0.12	0.41	2.29E-03	2.35E-02
KLK4	87.99	0.12	0.41	4.58E-03	3.79E-02
RGPD4	11.01	0.12	0.41	1.94E-02	9.93E-02
FASLG	46.91	0.12	0.41	1.43E-05	5.89E-04
SP7	250.83	0.12	0.41	2.80E-03	2.68E-02
NR1H4	45.13	0.12	0.41	8.65E-04	1.18E-02
ATG9B	145.25	0.12	0.41	7.01E-03	5.04E-02
ABCA12	8.72	0.11	0.41	7.08E-03	5.08E-02
ARMC3	4.21	0.11	0.41	8.33E-03	5.65E-02
FOLR3	77.23	0.11	0.41	8.12E-03	5.58E-02
TFAP2C	188.50	0.11	0.41	5.09E-03	4.06E-02
IL5	4.26	0.11	0.40	8.28E-03	5.64E-02
CRB2	174.74	0.11	0.40	1.81E-02	9.51E-02
TRIM71	109.98	0.11	0.40	2.69E-03	2.62E-02
ASTL	8.55	0.11	0.40	2.07E-03	2.19E-02
SOWAHD	13.49	0.10	0.40	3.82E-03	3.33E-02
HIST1H2AJ	15.33	0.10	0.40	6.92E-04	1.02E-02
GBX2	7.66	0.10	0.40	3.38E-03	3.04E-02
CYP2J2	14.64	0.10	0.40	1.02E-02	6.45E-02
CXCR3	92.82	0.10	0.40	3.17E-03	2.91E-02
SLC9C2	11.11	0.10	0.40	1.78E-03	1.97E-02
CFAP46	19.06	0.10	0.40	6.77E-03	4.93E-02
SLC30A10	146.88	0.10	0.40	1.83E-03	2.01E-02
HIST1H2AB	5.83	0.10	0.40	7.00E-03	5.04E-02
GZMM	24.49	0.09	0.40	3.01E-04	5.67E-03
CARD11	58.29	0.09	0.40	5.86E-04	9.00E-03
SBK2	10.56	0.09	0.40	2.14E-03	2.23E-02
RFPL1	10.13	0.09	0.40	2.52E-03	2.53E-02
VNN1	693.50	0.09	0.40	4.38E-04	7.36E-03
ST8SIA6	68.14	0.09	0.40	1.29E-02	7.50E-02
INA	11.12	0.09	0.40	9.40E-03	6.12E-02

KIRREL2	158.08	0.09	0.40	7.48E-05	2.06E-03
ADGRE1	31.95	0.09	0.40	3.03E-03	2.83E-02
GRP	8.45	0.08	0.39	5.02E-03	4.02E-02
EPGN	68.89	0.08	0.39	1.53E-02	8.48E-02
RORC	68.25	0.08	0.39	2.23E-03	2.31E-02
CD244	63.94	0.08	0.39	2.79E-03	2.68E-02
CCR2	86.20	0.08	0.39	9.94E-03	6.36E-02
ADGRF4	15.60	0.07	0.39	9.07E-03	5.99E-02
KCNK4	22.52	0.07	0.39	1.71E-03	1.91E-02
FRMPD4	7.66	0.07	0.39	1.23E-02	7.25E-02
FAM216B	221.62	0.07	0.39	8.29E-03	5.64E-02
OTOS	5.88	0.06	0.39	1.93E-02	9.90E-02
SCEL	16.79	0.06	0.39	3.48E-03	3.10E-02
CF1	11.73	0.06	0.39	6.89E-03	4.99E-02
PRR9	8.25	0.06	0.39	1.69E-02	9.06E-02
ASGR2	27.10	0.05	0.39	8.96E-03	5.94E-02
XCR1	15.98	0.05	0.39	8.53E-03	5.76E-02
HAPLN1	21.32	0.05	0.39	1.61E-02	8.77E-02
TIMD4	25.31	0.05	0.39	1.47E-02	8.21E-02
SPHAR	46.33	0.04	0.38	5.31E-03	4.19E-02
TBC1D3C	45.51	0.03	0.38	6.39E-03	4.73E-02
USH1G	33.12	0.03	0.38	1.18E-02	7.09E-02
TOX3	8.26	-0.10	0.40	9.36E-03	6.10E-02
OPRK1	6.51	-0.13	0.41	1.74E-02	9.28E-02
SOST	21.35	-0.14	0.42	1.89E-02	9.75E-02
OCA2	89.09	-0.16	0.43	1.38E-02	7.89E-02
OSTN	86.89	-0.16	0.43	1.32E-02	7.62E-02
ALLC	3.88	-0.17	0.44	9.73E-03	6.27E-02
NUP85	2810.14	-0.19	0.08	1.80E-02	9.45E-02
NUPR2	16.49	-0.19	0.45	1.75E-02	9.29E-02
GRIK5	40.07	-0.19	0.45	1.67E-02	8.98E-02
SPRR2A	65.01	-0.19	0.45	1.39E-02	7.94E-02
SNTG2	17.99	-0.19	0.46	5.09E-03	4.06E-02
TP53TG3	8.76	-0.20	0.46	8.07E-03	5.56E-02
MRPS26	2889.57	-0.21	0.09	1.44E-02	8.13E-02
PCCD5	3821.12	-0.21	0.08	6.10E-03	4.58E-02
SLC8A2	16.90	-0.21	0.47	1.38E-02	7.89E-02
CIDEA	7.52	-0.21	0.47	2.65E-03	2.61E-02
CPNE6	49.09	-0.22	0.48	1.32E-02	7.61E-02
TRIM44	7792.27	-0.22	0.10	1.61E-02	8.77E-02
PTPN5	28.34	-0.23	0.49	1.26E-02	7.39E-02
FBN3	37.95	-0.23	0.49	1.93E-02	9.90E-02
ARFRP1	4613.46	-0.24	0.10	9.04E-03	5.97E-02
ARIH2	5572.97	-0.24	0.11	1.55E-02	8.56E-02
TRIM37	1992.03	-0.25	0.08	1.53E-03	1.77E-02
RRM2B	3173.43	-0.25	0.11	1.62E-02	8.79E-02
VIM	182513.46	-0.26	0.09	2.68E-03	2.62E-02
PRPH	1001.70	-0.26	0.52	1.59E-02	8.70E-02
ATG13	7065.31	-0.26	0.11	1.21E-02	7.21E-02
TARDBP	7968.88	-0.26	0.11	1.29E-02	7.50E-02
TCF15	258.53	-0.26	0.52	1.85E-02	9.63E-02
CDK9	3869.67	-0.27	0.12	1.69E-02	9.06E-02
TPCN2	1665.40	-0.27	0.11	8.62E-03	5.79E-02
SMU1	4806.36	-0.28	0.08	5.04E-04	8.10E-03
PSMD11	6915.11	-0.28	0.08	5.92E-04	9.05E-03
RRP1	2058.90	-0.28	0.12	1.75E-02	9.29E-02
EWSR1	18918.05	-0.28	0.13	1.88E-02	9.74E-02
CTNNA1	17566.62	-0.29	0.07	6.01E-05	1.75E-03
SLC35A1	3354.52	-0.29	0.13	1.66E-02	8.92E-02
CC2D1A	2514.50	-0.29	0.11	8.58E-03	5.78E-02
CDH4	81.33	-0.29	0.55	1.47E-02	8.22E-02
GPS1	6217.63	-0.29	0.11	7.89E-03	5.47E-02
SERINC3	22438.63	-0.29	0.13	1.60E-02	8.74E-02
TTC21B	1760.73	-0.30	0.13	1.83E-02	9.56E-02
ZFAND4	631.40	-0.30	0.11	4.37E-03	3.66E-02
DYNC1L1L2	9621.39	-0.30	0.12	1.03E-02	6.50E-02
CDK5RAP2	2736.63	-0.30	0.10	2.54E-03	2.54E-02
PRKAR2A	3429.04	-0.30	0.13	1.17E-02	7.02E-02
ZXDA	617.60	-0.30	0.13	1.08E-02	6.65E-02
WRNIP1	3441.93	-0.30	0.14	1.80E-02	9.47E-02
RBM4	7486.71	-0.31	0.11	2.84E-03	2.71E-02
CHM	2281.86	-0.31	0.14	1.94E-02	9.93E-02
GTF3C5	2983.67	-0.31	0.12	6.51E-03	4.80E-02
SF3B4	6129.19	-0.31	0.14	1.58E-02	8.66E-02
DCTN2	10199.55	-0.31	0.11	1.92E-03	2.08E-02
UIMC1	1384.69	-0.32	0.15	1.91E-02	9.84E-02
SEC22C	4969.84	-0.32	0.14	1.82E-02	9.53E-02
SEC24C	6239.98	-0.32	0.14	1.52E-02	8.43E-02
HUWE1	4469.42	-0.32	0.12	5.30E-03	4.18E-02
CYBSR1	3369.30	-0.32	0.15	1.77E-02	9.35E-02
TBX1	220.91	-0.32	0.60	1.08E-02	6.67E-02
SART3	2699.71	-0.32	0.15	1.93E-02	9.90E-02
NMT1	4229.67	-0.32	0.14	1.07E-02	6.63E-02
DNAJB12	5094.68	-0.32	0.14	1.44E-02	8.14E-02
TRIM28	7711.64	-0.32	0.12	5.59E-03	4.32E-02
PIGO	2167.72	-0.33	0.13	7.64E-03	5.37E-02
BRD7	3271.65	-0.33	0.12	3.49E-03	3.11E-02
DDC	4.39	-0.33	0.61	1.57E-02	8.62E-02
GIGYF2	3986.93	-0.33	0.12	3.57E-03	3.17E-02
ALKBH1	894.74	-0.33	0.15	1.62E-02	8.82E-02
YLPM1	4392.43	-0.33	0.15	1.81E-02	9.51E-02
TAF1C	2972.77	-0.34	0.12	3.58E-03	3.17E-02
CGGBP1	9314.36	-0.34	0.14	1.06E-02	6.57E-02
PSKH1	3367.14	-0.34	0.16	1.86E-02	9.66E-02
UBR3	3101.22	-0.34	0.12	2.97E-03	2.79E-02
KCNK5	195.18	-0.34	0.63	1.39E-02	7.92E-02
AQR	3222.03	-0.34	0.13	5.43E-03	4.25E-02
EIF4ENIF1	1825.45	-0.34	0.11	9.67E-04	1.28E-02
VPS72	3078.10	-0.34	0.14	9.08E-03	5.99E-02
PRKRA	5216.47	-0.34	0.15	1.19E-02	7.11E-02
AIP	3142.54	-0.34	0.14	9.85E-03	6.32E-02
TMUB2	4505.89	-0.35	0.16	1.88E-02	9.72E-02

MTRR	3114.18	-0.35	0.15	1.43E-02	8.09E-02
LEP	13.66	-0.35	0.65	1.17E-02	7.04E-02
NFRKB	2244.78	-0.35	0.15	1.15E-02	6.94E-02
HCRTR1	15.33	-0.35	0.65	1.07E-02	6.64E-02
RRP8	1470.02	-0.35	0.13	3.88E-03	3.36E-02
ARAF	5349.50	-0.35	0.13	4.90E-03	3.96E-02
NELFE	4943.02	-0.35	0.10	1.80E-04	3.95E-03
PCID2	3275.34	-0.35	0.13	4.66E-03	3.83E-02
PPP2R1A	19272.22	-0.36	0.13	3.37E-03	3.04E-02
TMEM259	12896.24	-0.36	0.11	1.11E-03	1.42E-02
SART1	4482.90	-0.36	0.14	6.60E-03	4.84E-02
TAF9B	3255.77	-0.36	0.15	7.55E-03	5.32E-02
CNST	3349.35	-0.36	0.15	7.93E-03	5.49E-02
MINK1	3545.58	-0.36	0.16	1.54E-02	8.50E-02
TOX4	4168.69	-0.36	0.16	1.22E-02	7.23E-02
ARMC2	469.28	-0.36	0.16	1.15E-02	6.94E-02
DOK7	27.74	-0.36	0.67	1.49E-02	8.30E-02
ATG4B	4217.38	-0.37	0.11	7.04E-04	1.03E-02
SHPK	1570.46	-0.37	0.17	1.44E-02	8.13E-02
GP2	1592.37	-0.37	0.17	1.38E-02	7.90E-02
DDX54	3198.30	-0.37	0.13	2.85E-03	2.71E-02
PEF1	5802.60	-0.37	0.17	1.67E-02	8.97E-02
PIGU	1819.06	-0.38	0.16	1.13E-02	6.89E-02
CLIP1	8792.12	-0.38	0.17	1.50E-02	8.35E-02
XPO7	2724.87	-0.38	0.15	7.74E-03	5.41E-02
TANGO6	1082.45	-0.38	0.14	4.15E-03	3.52E-02
KANK3	1773.21	-0.38	0.68	1.85E-02	9.62E-02
SAP30BP	4657.59	-0.38	0.13	1.46E-03	1.71E-02
MAPK1IP1L	11131.87	-0.38	0.14	3.11E-03	2.87E-02
ANKRD11	7705.73	-0.38	0.12	8.47E-04	1.16E-02
PPP4R3A	6246.38	-0.38	0.16	9.97E-03	6.36E-02
DDX19A	3656.27	-0.38	0.09	5.24E-06	2.80E-04
ANKRD12	7007.13	-0.38	0.16	8.73E-03	5.63E-02
LVRN	632.50	-0.38	0.70	1.62E-02	8.82E-02
ARFGAP2	5292.73	-0.38	0.12	7.53E-04	1.07E-02
CBLN1	37.25	-0.38	0.70	1.58E-02	8.67E-02
MTR	3632.81	-0.38	0.16	7.31E-03	5.19E-02
PFAS	1593.24	-0.39	0.19	1.93E-02	9.92E-02
NFYB	3865.69	-0.39	0.15	6.14E-03	4.61E-02
USP10	5636.34	-0.39	0.15	5.21E-03	4.14E-02
NSFL1C	6022.20	-0.39	0.11	2.06E-04	4.35E-03
AAMP	7691.83	-0.39	0.15	5.94E-03	4.50E-02
ACADVL	34530.72	-0.39	0.18	1.84E-02	9.62E-02
MAU2	4059.61	-0.39	0.14	2.94E-03	2.77E-02
RALGAPB	3031.28	-0.39	0.12	5.61E-04	8.73E-03
PPP6C	4952.51	-0.39	0.14	3.07E-03	2.86E-02
PUM1	10822.72	-0.39	0.15	4.83E-03	3.93E-02
MFS10	6053.66	-0.39	0.17	1.09E-02	6.73E-02
POLR2E	11242.44	-0.39	0.13	1.93E-03	2.08E-02
TRMT12	588.39	-0.39	0.15	5.32E-03	4.19E-02
RAD54L2	2386.34	-0.39	0.13	1.84E-03	2.01E-02
TM7SF3	5103.75	-0.39	0.16	7.24E-03	5.17E-02
PPP5C	3451.41	-0.39	0.13	1.62E-03	1.84E-02
BORCS5	828.18	-0.39	0.17	1.23E-02	7.25E-02
HRAS	1457.67	-0.39	0.19	1.71E-02	9.14E-02
RNF41	2513.93	-0.39	0.15	5.46E-03	4.25E-02
MARK2	3189.36	-0.40	0.18	1.38E-02	7.90E-02
RRP15	1085.81	-0.40	0.18	1.43E-02	8.08E-02
USP19	4483.23	-0.40	0.18	1.45E-02	8.14E-02
CCT7	11204.65	-0.40	0.15	3.82E-03	3.33E-02
SNRPA	2170.61	-0.40	0.19	1.67E-02	8.97E-02
XRCC6	21447.58	-0.40	0.08	8.63E-07	7.12E-05
GEMIN5	1652.89	-0.40	0.19	1.87E-02	9.68E-02
KMT2D	1382.86	-0.40	0.16	5.69E-03	4.37E-02
KIF1BP	4641.35	-0.40	0.17	9.81E-03	6.31E-02
MED24	3561.24	-0.40	0.15	3.87E-03	3.36E-02
ELOC	4999.13	-0.40	0.17	7.69E-03	5.39E-02
NHLRC2	2817.87	-0.40	0.18	1.32E-02	7.60E-02
REPS1	2558.02	-0.40	0.15	2.99E-03	2.80E-02
LARP1B	1614.90	-0.40	0.20	1.95E-02	9.97E-02
WASHC2C	4858.37	-0.41	0.15	4.18E-03	3.54E-02
RBM7	5706.93	-0.41	0.13	1.22E-03	1.51E-02
ZNF777	1583.10	-0.41	0.18	1.28E-02	7.47E-02
ABCF1	3232.27	-0.41	0.15	2.89E-03	2.73E-02
SEHL	3119.38	-0.41	0.16	4.50E-03	3.74E-02
STRN4	6691.04	-0.41	0.11	1.17E-04	2.79E-03
CDC73	5310.78	-0.41	0.16	6.02E-03	4.55E-02
GET4	2486.98	-0.41	0.20	1.91E-02	9.81E-02
ZNF593	811.58	-0.41	0.19	1.54E-02	8.50E-02
CYP51A1	4430.83	-0.41	0.19	1.63E-02	8.83E-02
GTPBP6	3186.16	-0.41	0.20	1.83E-02	9.56E-02
CELF1	7017.86	-0.41	0.13	4.87E-04	7.92E-03
POC1B	1423.35	-0.41	0.20	1.96E-02	9.99E-02
ZBTB7A	6181.44	-0.41	0.18	1.00E-02	6.38E-02
UBE3B	3416.12	-0.42	0.12	2.16E-04	4.45E-03
MED30	1813.70	-0.42	0.18	8.24E-03	5.64E-02
ELMO2	5418.05	-0.42	0.17	7.36E-03	5.21E-02
RRP9	1024.91	-0.42	0.19	1.23E-02	7.27E-02
LRWD1	1230.50	-0.42	0.16	3.57E-03	3.17E-02
POU6F1	652.82	-0.42	0.17	7.33E-03	5.20E-02
ACAT1	7179.25	-0.42	0.20	1.78E-02	9.42E-02
TINF2	5386.53	-0.42	0.12	1.81E-04	3.95E-03
ASB6	2171.36	-0.42	0.16	3.57E-03	3.17E-02
ETFDH	2223.90	-0.42	0.16	3.93E-03	3.40E-02
EFCAB14	13611.98	-0.42	0.15	1.98E-03	2.12E-02
CUL1	5996.15	-0.42	0.10	2.24E-05	8.25E-04
PCIF1	5210.54	-0.42	0.21	1.79E-02	9.43E-02
PPP3CC	3037.85	-0.43	0.21	1.94E-02	9.92E-02
NELFCD	5256.22	-0.43	0.19	1.09E-02	6.73E-02
DIMT1	3300.33	-0.43	0.18	9.44E-03	6.14E-02
BAG1	4643.30	-0.43	0.18	7.72E-03	5.40E-02
TBRG1	3356.01	-0.43	0.13	3.52E-04	6.37E-03

DDX24	11739.94	-0.43	0.15	2.56E-03	2.55E-02
MRPL38	3865.26	-0.43	0.13	5.08E-04	8.12E-03
MED29	5845.41	-0.43	0.14	1.05E-03	1.37E-02
NR2C2AP	665.09	-0.43	0.18	7.98E-03	5.51E-02
ZNF76	2324.35	-0.43	0.18	7.91E-03	5.48E-02
ELOVL5	7036.39	-0.43	0.15	1.50E-03	1.75E-02
FAM120AOS	5562.44	-0.43	0.17	5.70E-03	4.37E-02
CDIPT	9141.54	-0.43	0.11	3.68E-05	1.21E-03
DUSP22	3691.05	-0.43	0.21	1.86E-02	9.67E-02
RBBP7	10902.47	-0.43	0.14	1.38E-03	1.65E-02
POR	6563.42	-0.43	0.17	5.53E-03	4.28E-02
GPR108	5937.21	-0.43	0.20	1.26E-02	7.39E-02
SRRT	4628.06	-0.43	0.16	2.96E-03	2.79E-02
ANKHD1	8021.34	-0.44	0.17	5.73E-03	4.38E-02
AK9	450.42	-0.44	0.16	2.62E-03	2.59E-02
NAPA	8387.73	-0.44	0.20	1.17E-02	7.05E-02
PTEN	12355.39	-0.44	0.19	8.10E-03	5.58E-02
AKAP8	2735.19	-0.44	0.16	2.94E-03	2.77E-02
ZNF333	2124.46	-0.44	0.19	9.99E-03	6.37E-02
DNAJA3	3268.17	-0.44	0.17	4.40E-03	3.68E-02
SARS	9953.39	-0.44	0.15	1.97E-03	2.11E-02
B4GALT3	2635.21	-0.44	0.21	1.42E-02	8.02E-02
CTBP2	5416.24	-0.44	0.22	1.84E-02	9.60E-02
RRN3	3399.20	-0.44	0.16	3.08E-03	2.86E-02
FBXO33	2065.38	-0.44	0.16	3.11E-03	2.87E-02
MUS81	3101.17	-0.44	0.22	1.90E-02	9.78E-02
CPSF4	1356.70	-0.44	0.21	1.63E-02	8.82E-02
NAT10	2827.13	-0.44	0.16	2.64E-03	2.60E-02
SELENOO	1843.80	-0.44	0.21	1.57E-02	8.63E-02
CDC97	3187.18	-0.45	0.20	1.24E-02	7.32E-02
HMBOX1	3326.82	-0.45	0.20	1.12E-02	6.81E-02
TJAP1	1660.06	-0.45	0.21	1.39E-02	7.92E-02
SF3A1	6208.58	-0.45	0.22	1.57E-02	8.63E-02
LARP4	3090.83	-0.45	0.22	1.61E-02	8.77E-02
GPKOW	1746.81	-0.45	0.17	3.05E-03	2.84E-02
DHX8	2319.25	-0.45	0.21	1.26E-02	7.40E-02
TTBK2	1599.97	-0.45	0.22	1.76E-02	9.33E-02
TOPORS	4429.58	-0.45	0.17	3.88E-03	3.36E-02
PRPF3	2740.94	-0.45	0.22	1.54E-02	8.51E-02
APH1B	2486.55	-0.45	0.17	4.14E-03	3.52E-02
ETS2	9336.33	-0.45	0.85	1.80E-02	9.48E-02
ZNF335	1969.80	-0.45	0.18	4.52E-03	3.75E-02
UTP4	2878.05	-0.45	0.16	2.09E-03	2.20E-02
NELFA	2518.38	-0.46	0.17	2.67E-03	2.62E-02
MTMR3	3993.66	-0.46	0.21	1.29E-02	7.48E-02
ZBTB40	1621.95	-0.46	0.18	5.51E-03	4.28E-02
SDHA	10230.71	-0.46	0.15	1.05E-03	1.37E-02
GAK	4816.59	-0.46	0.15	8.42E-04	1.16E-02
ATF4	14677.23	-0.46	0.20	7.91E-03	5.49E-02
ACTR5	704.72	-0.46	0.16	2.30E-03	2.36E-02
GRAMP1	1434.37	-0.46	0.23	1.75E-02	9.28E-02
DHX15	8052.91	-0.46	0.15	8.96E-04	1.22E-02
PSMF1	9828.59	-0.46	0.17	3.13E-03	2.89E-02
COX20	3142.41	-0.46	0.22	1.44E-02	8.13E-02
BBX	6539.53	-0.46	0.20	9.18E-03	6.03E-02
VEZF1	5011.21	-0.46	0.20	9.65E-03	6.23E-02
SENP2	2113.87	-0.46	0.11	1.69E-05	6.72E-04
RBBP6	5479.12	-0.46	0.22	1.36E-02	7.82E-02
RAB11B	11143.21	-0.46	0.19	6.04E-03	4.55E-02
ECSIT	1799.94	-0.46	0.16	1.47E-03	1.71E-02
EXOC7	9075.19	-0.46	0.21	1.03E-02	6.50E-02
AATF	2709.70	-0.46	0.16	2.10E-03	2.20E-02
PIN1	4763.45	-0.46	0.17	2.80E-03	2.68E-02
RNF123	2332.45	-0.46	0.10	2.79E-06	1.75E-04
FBXO31	3299.79	-0.46	0.22	1.33E-02	7.63E-02
CYB5D2	2157.02	-0.46	0.19	6.75E-03	4.91E-02
HNRNPU	31294.23	-0.46	0.18	4.93E-03	3.97E-02
POLR3E	1433.77	-0.46	0.17	3.17E-03	2.91E-02
RBM42	7440.12	-0.46	0.12	4.76E-05	1.47E-03
IARS2	6573.44	-0.46	0.17	3.16E-03	2.90E-02
ZNF143	1595.51	-0.47	0.16	1.68E-03	1.88E-02
UBE3A	8138.23	-0.47	0.15	1.18E-03	1.48E-02
ATF7	5535.14	-0.47	0.23	1.49E-02	8.33E-02
PPA1	5150.44	-0.47	0.22	1.40E-02	7.98E-02
DHRS7	7295.12	-0.47	0.20	7.41E-03	5.24E-02
ULK2	3530.57	-0.47	0.22	1.20E-02	7.16E-02
SLC25A28	2009.85	-0.47	0.20	7.87E-03	5.47E-02
BRPF1	1626.64	-0.47	0.17	2.74E-03	2.65E-02
TRIM39	1167.46	-0.47	0.20	7.64E-03	5.37E-02
ERCC3	4245.97	-0.47	0.11	1.78E-05	6.98E-04
RNPS1	12341.14	-0.47	0.15	1.05E-03	1.36E-02
PRPF6	6788.78	-0.47	0.15	9.62E-04	1.27E-02
UCKL1	2658.30	-0.47	0.16	1.35E-03	1.62E-02
LINC7	5557.57	-0.47	0.16	1.72E-03	1.91E-02
EDC4	4481.67	-0.47	0.14	3.84E-04	6.75E-03
RRP1B	2811.86	-0.47	0.16	1.30E-03	1.58E-02
LRSAM1	1902.20	-0.47	0.20	7.01E-03	5.04E-02
ZNF524	1505.16	-0.48	0.22	1.19E-02	7.13E-02
ZNFX1	7525.04	-0.48	0.13	8.60E-05	2.23E-03
CLASP1	3757.20	-0.48	0.23	1.38E-02	7.89E-02
RANBP10	1937.32	-0.48	0.14	2.78E-04	5.38E-03
PA2G4	7321.07	-0.48	0.21	8.85E-03	5.89E-02
POLG	3867.24	-0.48	0.20	6.13E-03	4.60E-02
TGFBRAP1	2626.25	-0.48	0.15	7.14E-04	1.04E-02
NCOA6	3030.93	-0.48	0.08	5.71E-09	1.23E-06
HINT3	1875.24	-0.48	0.17	1.54E-03	1.77E-02
GORASP1	3938.76	-0.48	0.07	1.29E-11	6.40E-09
SIVA1	4963.05	-0.48	0.19	3.50E-03	3.12E-02
GPHN	1257.24	-0.48	0.16	1.10E-03	1.41E-02
BCAS3	2529.88	-0.48	0.20	5.39E-03	4.22E-02
ST3GAL3	1784.15	-0.48	0.21	7.47E-03	5.27E-02
TCTA	3537.71	-0.48	0.25	1.83E-02	9.58E-02

PCGF5	4675.52	-0.48	0.21	7.71E-03	5.39E-02
MECP2	2582.73	-0.49	0.22	9.47E-03	6.15E-02
SF1	9709.96	-0.49	0.20	6.21E-03	4.64E-02
POLD2	4912.80	-0.49	0.14	1.85E-04	4.02E-03
NOC4L	1271.17	-0.49	0.14	2.02E-04	4.29E-03
TBC1D22B	755.14	-0.49	0.17	1.11E-03	1.42E-02
STAT6	12664.38	-0.49	0.24	1.27E-02	7.42E-02
CASKIN2	1125.01	-0.50	0.21	6.85E-03	4.97E-02
ZNF131	2526.74	-0.50	0.20	4.43E-03	3.70E-02
HNRNPM	12896.11	-0.50	0.13	7.43E-05	2.05E-03
STARD7	11927.90	-0.50	0.23	1.20E-02	7.14E-02
RFAP1	1671.17	-0.50	0.16	7.19E-04	1.04E-02
RELA	6015.79	-0.50	0.16	7.33E-04	1.05E-02
LRRC57	1411.40	-0.50	0.23	1.04E-02	6.53E-02
CALCOCO2	10958.28	-0.50	0.14	1.22E-04	2.88E-03
PSIP1	7216.09	-0.50	0.15	2.36E-04	4.76E-03
ABHD14B	4273.98	-0.50	0.15	3.33E-04	6.10E-03
THTPA	1324.19	-0.50	0.21	6.55E-03	4.82E-02
SMG7	3999.68	-0.50	0.23	1.06E-02	6.57E-02
EIF1AX	6560.81	-0.50	0.22	8.26E-03	5.64E-02
SOGA1	2013.52	-0.50	0.16	7.80E-04	1.10E-02
NUP214	3388.95	-0.50	0.15	2.56E-04	5.08E-03
CCDC61	858.71	-0.50	0.15	2.09E-04	4.38E-03
ADD1	24907.05	-0.50	0.26	1.72E-02	9.20E-02
MAFG	3194.34	-0.50	0.12	1.96E-05	7.56E-04
BTG3	4172.80	-0.50	0.23	9.12E-03	6.00E-02
UBE2H	13834.34	-0.51	0.19	3.08E-03	2.86E-02
UBAP1	5799.37	-0.51	0.20	3.95E-03	3.41E-02
TCP1	11270.55	-0.51	0.20	4.04E-03	3.47E-02
MLYCD	1484.26	-0.51	0.19	2.94E-03	2.77E-02
INPP5J	174.78	-0.51	1.00	1.81E-02	9.48E-02
INPP5E	1776.34	-0.51	0.14	1.32E-04	3.04E-03
SDE2	2086.24	-0.51	0.21	5.14E-03	4.09E-02
NRF1	1069.92	-0.51	0.13	3.19E-05	1.11E-03
SRSF4	8274.28	-0.51	0.15	2.51E-04	5.01E-03
MFS14A	6208.39	-0.51	0.18	1.67E-03	1.88E-02
RAB21	5889.46	-0.52	0.21	5.41E-03	4.24E-02
ZNF410	4756.46	-0.52	0.16	5.81E-04	8.94E-03
SLC22A4	425.53	-0.52	0.26	1.54E-02	8.50E-02
ZXDB	1446.82	-0.52	0.25	1.24E-02	7.32E-02
WDFY3	2663.97	-0.52	0.16	4.01E-04	6.96E-03
GABPB2	991.26	-0.52	0.19	2.15E-03	2.24E-02
PUF60	10311.68	-0.52	0.13	3.34E-05	1.12E-03
ILKAP	2286.93	-0.52	0.14	7.72E-05	2.10E-03
HOMER1	541.51	-0.52	0.21	4.73E-03	3.87E-02
RXRA	3863.77	-0.52	0.25	1.28E-02	7.45E-02
SCAF4	3252.69	-0.52	0.20	3.35E-03	3.03E-02
FLVCR1	352.41	-0.52	0.23	8.18E-03	5.61E-02
PPP2CB	2318.53	-0.52	0.28	1.85E-02	9.64E-02
GRB10	3059.28	-0.52	0.21	4.84E-03	3.93E-02
TTC7B	2129.61	-0.52	0.28	1.86E-02	9.68E-02
CNPPD1	4865.80	-0.52	0.14	8.43E-05	2.22E-03
ROCK2	12055.01	-0.52	0.19	1.70E-03	1.90E-02
UBIAD1	1874.39	-0.52	0.18	1.11E-03	1.42E-02
CNBP	34476.24	-0.52	0.16	2.72E-04	5.32E-03
CSAD	942.36	-0.52	0.23	8.29E-03	5.64E-02
CES2	5288.01	-0.52	0.19	1.93E-03	2.08E-02
GNA12	9260.26	-0.52	0.22	6.22E-03	4.65E-02
HIF1AN	3211.96	-0.53	0.20	2.73E-03	2.65E-02
LDLRAD3	1912.65	-0.53	0.28	1.88E-02	9.73E-02
AHCTF1	3622.36	-0.53	0.22	5.29E-03	4.18E-02
TSSC4	3165.82	-0.53	0.16	3.95E-04	6.88E-03
USP42	1838.36	-0.53	0.22	6.18E-03	4.63E-02
SLC25A12	2320.55	-0.53	0.10	1.08E-07	1.38E-05
USP18	948.70	-0.53	0.20	2.98E-03	2.79E-02
CXXC1	3889.96	-0.53	0.16	3.44E-04	6.28E-03
BBS7	1992.05	-0.53	0.19	1.92E-03	2.07E-02
CYB5R3	50265.27	-0.53	0.25	1.01E-02	6.41E-02
TFEB	2126.82	-0.53	0.18	1.23E-03	1.52E-02
RHOQ	6422.14	-0.53	0.25	1.09E-02	6.73E-02
VPS4A	4105.08	-0.53	0.10	8.44E-08	1.11E-05
TAPT1	2490.90	-0.54	0.18	9.51E-04	1.27E-02
INTS1	5725.56	-0.54	0.27	1.49E-02	8.32E-02
SUPT6H	4357.88	-0.54	0.15	1.50E-04	3.40E-03
LYSMD4	752.88	-0.54	0.28	1.72E-02	9.17E-02
BCL2L1	2824.43	-0.54	0.22	5.30E-03	4.18E-02
FAM53C	5799.22	-0.54	0.18	8.67E-04	1.18E-02
TRMT2B	924.82	-0.54	0.24	8.23E-03	5.63E-02
NOLC1	6607.44	-0.54	0.25	9.45E-03	6.14E-02
STX16	5323.56	-0.54	0.24	8.32E-03	5.65E-02
DHX30	5825.12	-0.54	0.11	3.19E-07	3.43E-05
PITPNB	9872.05	-0.54	0.16	3.04E-04	5.72E-03
WDR45B	7648.04	-0.55	0.13	1.10E-05	4.91E-04
PAF1	4677.67	-0.55	0.19	1.14E-03	1.43E-02
UBE2B	4522.04	-0.55	0.16	1.69E-04	3.72E-03
DIXDC1	4925.38	-0.55	0.30	1.87E-02	9.68E-02
NATD1	1461.14	-0.55	0.28	1.52E-02	8.41E-02
C18orf25	2018.58	-0.55	0.20	2.42E-03	2.45E-02
TOLLIP	5441.61	-0.55	0.17	3.86E-04	6.77E-03
ING1	2352.99	-0.55	0.30	1.94E-02	9.92E-02
USP20	2302.82	-0.55	0.25	9.04E-03	5.97E-02
RPTOR	868.11	-0.55	0.23	5.08E-03	4.06E-02
IBAS7	687.15	-0.55	0.17	2.94E-04	5.60E-03
KAT6A	3149.50	-0.55	0.21	2.70E-03	2.63E-02
SOD1	11246.08	-0.55	0.15	7.59E-05	2.09E-03
DHX38	2791.58	-0.55	0.14	1.98E-05	7.58E-04
SLC27A5	317.03	-0.56	0.25	8.30E-03	5.64E-02
PLP2	5849.52	-0.56	0.25	8.30E-03	5.64E-02
ATL2	2750.49	-0.56	0.21	2.86E-03	2.71E-02
SLC38A2	40804.00	-0.56	0.22	3.70E-03	3.25E-02
PHC2	10808.91	-0.56	0.30	1.58E-02	8.66E-02
PCF11	2894.26	-0.56	0.21	2.07E-03	2.19E-02

ZNF653	270.08	-0.56	0.30	1.63E-02	8.84E-02
LRRC47	4095.43	-0.56	0.19	8.58E-04	1.18E-02
SLC41A3	2617.80	-0.56	0.20	1.96E-03	2.10E-02
OSBPL1A	8399.93	-0.56	0.23	4.87E-03	3.95E-02
DXS1	1830.07	-0.56	0.25	7.55E-03	5.32E-02
LZTS2	9755.50	-0.56	0.28	1.12E-02	6.85E-02
BCR	2662.70	-0.56	0.23	3.99E-03	3.44E-02
KLC1	11872.27	-0.56	0.13	4.02E-06	2.34E-04
JOSD1	1291.92	-0.56	0.22	3.54E-03	3.15E-02
PHRF1	3119.55	-0.56	0.19	1.10E-03	1.41E-02
NUDC	8739.43	-0.56	0.19	7.35E-04	1.05E-02
LRRC75B	2189.12	-0.56	0.31	1.80E-02	9.48E-02
NFKBIB	888.76	-0.57	0.23	4.48E-03	3.72E-02
YY1AP1	4750.93	-0.57	0.17	3.51E-04	6.37E-03
PIK3C2A	3354.87	-0.57	0.20	1.63E-03	1.85E-02
BAZ2A	4763.72	-0.57	0.20	1.32E-03	1.59E-02
SSBP2	6409.44	-0.57	0.31	1.77E-02	9.35E-02
NFAT5	3765.22	-0.57	0.20	1.19E-03	1.48E-02
COQ8B	1763.43	-0.57	0.24	5.01E-03	4.01E-02
PRKAA2	253.93	-0.57	1.21	1.85E-02	9.64E-02
APLP2	40263.77	-0.57	0.26	7.97E-03	5.51E-02
AKAP8L	4986.54	-0.57	0.26	8.28E-03	5.64E-02
SNRNP200	8747.76	-0.57	0.16	1.07E-04	2.65E-03
PTPRK	4208.56	-0.58	0.27	9.18E-03	6.03E-02
NGRN	11789.97	-0.58	0.21	1.75E-03	1.95E-02
ELMSAN1	4761.43	-0.58	0.29	1.21E-02	7.18E-02
TICAM1	1460.42	-0.58	0.30	1.42E-02	8.04E-02
RBMXL1	1995.66	-0.58	0.23	3.65E-03	3.22E-02
COX17	1888.54	-0.58	0.23	3.43E-03	3.07E-02
ARL2	6479.00	-0.58	0.14	1.07E-05	4.83E-04
NOD1	1454.73	-0.58	0.22	2.61E-03	2.58E-02
FBXC42	3814.28	-0.58	0.23	3.34E-03	3.02E-02
FAM219B	4299.33	-0.58	0.28	1.02E-02	6.44E-02
VAV2	1959.81	-0.58	0.15	4.16E-05	1.33E-03
PANK4	2042.70	-0.58	0.14	8.21E-06	3.98E-04
MAP3K3	5988.61	-0.58	0.14	1.41E-05	5.84E-04
DHPS	2570.43	-0.58	0.22	2.23E-03	2.31E-02
BTNZ1A	2510.64	-0.58	0.27	7.47E-03	5.27E-02
TSR2	3107.80	-0.58	0.21	1.58E-03	1.81E-02
SP2	1185.21	-0.59	0.23	2.87E-03	2.72E-02
TMEM129	5460.09	-0.59	0.23	3.24E-03	2.95E-02
VSIR	16020.97	-0.59	0.32	1.54E-02	8.50E-02
AEN	1719.19	-0.59	0.29	1.03E-02	6.48E-02
SLC25A44	2358.08	-0.59	0.16	5.01E-05	1.52E-03
POLRMT	2861.87	-0.59	0.13	1.93E-06	1.33E-04
BARD1	705.02	-0.59	0.26	6.53E-03	4.81E-02
SMC1A	5630.24	-0.59	0.20	1.11E-03	1.42E-02
KAT7	4336.23	-0.59	0.27	6.96E-03	5.03E-02
DHX16	2835.04	-0.59	0.19	4.61E-04	7.68E-03
CDK2	1895.15	-0.59	0.32	1.54E-02	8.52E-02
TSNARE1	644.54	-0.60	0.24	3.78E-03	3.31E-02
RIMKLB	3092.26	-0.60	0.33	1.71E-02	9.14E-02
ADCY9	2818.54	-0.60	0.27	7.69E-03	5.39E-02
CEP68	4642.29	-0.60	0.24	3.99E-03	3.44E-02
CCNDBP1	6070.96	-0.60	0.19	3.74E-04	6.63E-03
MYLIP	5601.26	-0.60	0.26	6.04E-03	4.55E-02
ATG4D	971.64	-0.60	0.28	8.72E-03	5.83E-02
FAM199X	1771.08	-0.60	0.26	5.59E-03	4.32E-02
CLK3	3911.93	-0.60	0.19	4.24E-04	7.22E-03
TUSC1	4640.19	-0.60	0.30	1.00E-02	6.38E-02
TMEM120A	3114.73	-0.60	0.18	3.09E-04	5.80E-03
CALCOCC1	11594.05	-0.60	0.34	1.79E-02	9.42E-02
OCRL	1689.03	-0.60	0.29	9.03E-03	5.97E-02
PPM1B	5586.11	-0.60	0.20	5.99E-04	9.08E-03
ANAPC16	7942.11	-0.60	0.29	1.02E-02	6.43E-02
SLC29A2	116.60	-0.60	1.30	1.89E-02	9.75E-02
CLCN6	1844.98	-0.60	0.28	7.52E-03	5.31E-02
FDFT1	5706.58	-0.60	0.27	7.06E-03	5.07E-02
EHD1	7447.44	-0.61	0.26	5.57E-03	4.31E-02
NCOA1	6792.27	-0.61	0.22	1.39E-03	1.65E-02
BCL2L13	4267.86	-0.61	0.31	1.21E-02	7.20E-02
INPP4A	2375.40	-0.61	0.24	2.73E-03	2.64E-02
TBL3	3368.02	-0.61	0.17	1.15E-04	2.75E-03
DNAJA1	17942.06	-0.61	0.34	1.63E-02	8.82E-02
SMAD7	2953.40	-0.61	0.30	9.94E-03	6.36E-02
RERE	3815.35	-0.61	0.26	4.87E-03	3.95E-02
SYPL1	12828.72	-0.61	0.18	1.88E-04	4.07E-03
YPEL2	4182.46	-0.61	0.29	8.64E-03	5.80E-02
SAFB	7708.00	-0.61	0.18	1.58E-04	3.53E-03
VPS13D	6245.45	-0.61	0.26	5.02E-03	4.02E-02
NRBP2	4148.70	-0.61	0.26	4.48E-03	3.72E-02
H3F3B	95184.70	-0.61	0.15	2.06E-05	7.78E-04
PLAGL2	1020.98	-0.61	0.29	8.98E-03	5.95E-02
NFE2L2	19157.30	-0.61	0.24	2.99E-03	2.80E-02
ZYX	27661.24	-0.61	0.17	7.13E-05	2.00E-03
INPP5K	3201.49	-0.61	0.22	1.23E-03	1.52E-02
UNC45A	7205.88	-0.62	0.20	7.27E-04	1.05E-02
TRMT6	848.97	-0.62	0.22	1.59E-03	1.82E-02
SELENOK	6244.30	-0.62	0.33	1.40E-02	7.98E-02
TAF3	2163.18	-0.62	0.28	6.62E-03	4.84E-02
PEX19	5589.73	-0.62	0.26	4.28E-03	3.59E-02
GAS8	1042.89	-0.62	0.34	1.47E-02	8.25E-02
HSP90AB1	42868.21	-0.62	0.30	9.45E-03	6.14E-02
KLHL42	2923.58	-0.62	0.22	1.01E-03	1.32E-02
ATG101	1679.66	-0.63	0.28	5.75E-03	4.40E-02
KIAA0232	2716.16	-0.63	0.24	2.25E-03	2.32E-02
LIN37	547.77	-0.63	0.24	2.12E-03	2.22E-02
EIF4H	23468.40	-0.63	0.12	1.20E-07	1.49E-05
ENGASE	2245.61	-0.63	0.32	1.05E-02	6.56E-02
TECR	6733.95	-0.63	0.22	1.29E-03	1.57E-02
ID1	4291.78	-0.63	0.34	1.33E-02	7.64E-02
GDI1	9401.54	-0.63	0.21	5.95E-04	9.06E-03

NACC2	2239.10	-0.63	0.27	4.88E-03	3.95E-02
ZNF263	3221.34	-0.63	0.25	3.12E-03	2.88E-02
FAM47E	96.63	-0.63	0.32	1.03E-02	6.50E-02
FAHD2A	1348.04	-0.63	0.23	1.45E-03	1.70E-02
SHMT1	941.85	-0.64	0.33	1.10E-02	6.76E-02
TMEM135	2572.72	-0.64	0.35	1.51E-02	8.37E-02
ZFYVE21	8221.13	-0.64	0.30	7.75E-03	5.41E-02
KLF8	1338.39	-0.64	0.37	1.74E-02	9.28E-02
ZNF891	565.28	-0.64	0.30	7.68E-03	5.38E-02
SLCO3A1	5598.56	-0.64	0.28	5.25E-03	4.16E-02
WBP11	6266.19	-0.64	0.16	2.15E-05	8.04E-04
RALY	12931.47	-0.64	0.21	5.42E-04	8.50E-03
KIF13A	2542.30	-0.64	0.37	1.64E-02	8.88E-02
TNFSF10	3339.13	-0.64	0.30	7.87E-03	5.47E-02
IFFO2	261.27	-0.64	0.36	1.48E-02	8.29E-02
KLF13	2571.93	-0.64	0.30	7.55E-03	5.32E-02
PINK1	9556.06	-0.64	0.23	1.17E-03	1.47E-02
RANBP2	4722.33	-0.64	0.21	4.93E-04	7.99E-03
GMEB2	1463.68	-0.64	0.33	1.14E-02	6.92E-02
ANXA11	22371.25	-0.64	0.15	3.87E-06	2.29E-04
PRPF8	14120.97	-0.65	0.19	1.64E-04	3.65E-03
TMEM106C	4526.09	-0.65	0.31	7.78E-03	5.42E-02
BRPF3	1919.79	-0.65	0.32	9.29E-03	6.07E-02
URGCP	2932.43	-0.65	0.22	8.53E-04	1.17E-02
DLC1	13455.28	-0.65	0.33	1.05E-02	6.56E-02
ANKRD46	1870.35	-0.65	0.28	4.15E-03	3.52E-02
DYRK3	1508.57	-0.65	0.23	1.06E-03	1.37E-02
NUDT7	631.87	-0.65	0.32	9.36E-03	6.10E-02
TUBB4B	13640.37	-0.66	0.36	1.29E-02	7.50E-02
RAVER2	940.52	-0.66	0.39	1.74E-02	9.25E-02
DNAJC18	1689.11	-0.66	0.33	9.05E-03	5.97E-02
PPT2	1697.75	-0.66	0.30	6.04E-03	4.55E-02
GPATCH4	1208.63	-0.66	0.21	4.68E-04	7.73E-03
GAMT	1896.46	-0.66	0.32	7.92E-03	5.49E-02
DAB2IP	833.45	-0.66	0.33	9.70E-03	6.25E-02
SGF29	1132.06	-0.66	0.33	8.57E-03	5.77E-02
SUDS3	3383.11	-0.66	0.23	8.36E-04	1.15E-02
MANSC1	1468.32	-0.66	0.25	1.87E-03	2.04E-02
CTTNBP2	704.36	-0.66	0.36	1.29E-02	7.50E-02
TRIM47	7749.91	-0.66	0.24	1.39E-03	1.65E-02
PIR	599.47	-0.67	0.32	7.37E-03	5.22E-02
CLDND1	9613.81	-0.67	0.18	3.71E-05	1.21E-03
CAMTA1	3432.57	-0.67	0.33	9.49E-03	6.15E-02
CABIN1	1425.93	-0.67	0.28	4.12E-03	3.51E-02
ENSA	6611.23	-0.67	0.25	2.15E-03	2.24E-02
PNMA1	8769.98	-0.67	0.33	8.72E-03	5.83E-02
CEP131	1382.48	-0.67	0.38	1.46E-02	8.20E-02
SRRM2	38102.79	-0.67	0.25	1.24E-03	1.53E-02
TA7F	10832.26	-0.67	0.19	1.07E-04	2.64E-03
HIPK1	2999.93	-0.67	0.26	2.40E-03	2.43E-02
TMBIM1	20155.60	-0.67	0.26	1.87E-03	2.04E-02
LCLAT1	2494.65	-0.67	0.42	1.89E-02	9.76E-02
MTMR12	1833.57	-0.68	0.15	2.15E-06	1.43E-04
ZBTB10	3185.17	-0.68	0.31	5.78E-03	4.41E-02
DDX27	3759.48	-0.68	0.21	2.74E-04	5.33E-03
HY1	1596.72	-0.68	0.30	4.53E-03	3.76E-02
GNB5	3150.32	-0.68	0.30	4.25E-03	3.58E-02
WBP4	1832.06	-0.68	0.20	1.17E-04	2.80E-03
EXTL3	2541.46	-0.69	0.21	2.11E-04	4.40E-03
GSTM2	3006.91	-0.69	0.32	6.62E-03	4.84E-02
FKBP4	4850.31	-0.69	0.38	1.27E-02	7.42E-02
RNF38	3280.53	-0.69	0.27	2.43E-03	2.46E-02
SMARCD3	4491.56	-0.69	0.37	1.13E-02	6.89E-02
NOC2L	4668.05	-0.69	0.19	7.23E-05	2.02E-03
DDX5	85900.34	-0.69	0.18	3.21E-05	1.11E-03
MAPKBP1	1154.45	-0.69	0.33	7.02E-03	5.05E-02
LRP10	20321.49	-0.70	0.33	6.83E-03	4.96E-02
EH2D	65644.28	-0.70	0.26	1.84E-03	2.01E-02
ACBD4	1394.97	-0.70	0.31	4.81E-03	3.92E-02
SRF	1461.86	-0.70	0.18	2.24E-05	8.26E-04
ECH1	13995.63	-0.70	0.27	2.11E-03	2.21E-02
MED14OS	136.21	-0.70	0.31	4.89E-03	3.96E-02
FKRP	1307.66	-0.70	0.27	1.78E-03	1.97E-02
EEF2K	3799.20	-0.70	0.27	2.04E-03	2.16E-02
GTPBP1	3164.66	-0.70	0.16	3.50E-06	2.11E-04
MAF1	11333.07	-0.70	0.18	2.51E-05	9.14E-04
SYNE1	9324.02	-0.70	0.30	3.67E-03	3.23E-02
BCL7B	3840.82	-0.70	0.22	3.16E-04	5.89E-03
LRRC14	2708.51	-0.70	0.16	4.20E-06	2.41E-04
KLC2	1906.27	-0.70	0.34	7.33E-03	5.20E-02
NHEJ1	1033.20	-0.71	0.23	3.83E-04	6.74E-03
C2CD2	2494.74	-0.71	0.26	1.16E-03	1.45E-02
SIRT1	3417.18	-0.71	0.28	2.06E-03	2.19E-02
GPRC5B	5482.81	-0.71	0.46	1.82E-02	9.53E-02
MAGI2	1790.85	-0.71	0.47	1.93E-02	9.90E-02
MAP1B	32707.54	-0.71	0.39	1.10E-02	6.76E-02
LRCH1	1824.45	-0.71	0.30	3.23E-03	2.95E-02
KYAT1	400.53	-0.71	0.26	1.40E-03	1.66E-02
PLCB1	2428.70	-0.71	0.24	5.80E-04	8.94E-03
TLCD2	434.74	-0.71	0.32	4.61E-03	3.80E-02
SLC25A23	4264.97	-0.71	0.45	1.65E-02	8.90E-02
DZANK1	191.04	-0.72	0.30	3.23E-03	2.95E-02
KLHL36	2623.45	-0.72	0.27	1.65E-03	1.86E-02
HNRNPH3	8465.15	-0.72	0.15	3.65E-07	3.68E-05
ALDH16A1	1827.73	-0.72	0.33	5.18E-03	4.12E-02
SMIM10	867.62	-0.72	0.43	1.41E-02	7.98E-02
PVR	1829.30	-0.72	0.49	1.86E-02	9.66E-02
MTRF1L	1494.78	-0.73	0.23	2.94E-04	5.60E-03
LYRM1	1977.99	-0.73	0.18	1.12E-05	4.96E-04
ILK	23913.66	-0.73	0.25	6.74E-04	9.96E-03
STK38L	4133.87	-0.73	0.25	7.50E-04	1.07E-02
RAF1	7856.79	-0.73	0.13	6.24E-09	1.32E-06

FUK	813.78	-0.73	0.31	3.40E-03	3.06E-02
FAM207A	532.01	-0.73	0.37	8.48E-03	5.72E-02
HABP4	3473.91	-0.73	0.34	5.60E-03	4.32E-02
FCHSD2	4653.73	-0.73	0.45	1.50E-02	8.36E-02
IGSF8	4095.77	-0.73	0.31	3.17E-03	2.91E-02
PPP1CB	20500.89	-0.73	0.22	1.96E-04	4.20E-03
UPF1	6006.68	-0.73	0.19	3.24E-05	1.11E-03
PRRT2	1743.99	-0.73	0.45	1.55E-02	8.56E-02
EHBP1	3891.21	-0.73	0.42	1.22E-02	7.23E-02
SAFB2	3846.86	-0.74	0.27	1.30E-03	1.58E-02
FAM131A	977.26	-0.74	0.32	4.00E-03	3.44E-02
BRD2	11831.26	-0.74	0.35	5.53E-03	4.29E-02
TMEM245	5846.24	-0.74	0.29	2.00E-03	2.14E-02
DCP1A	4272.93	-0.74	0.19	2.53E-05	9.19E-04
SCPEP1	12712.07	-0.74	0.39	9.53E-03	6.17E-02
KCTD10	8480.65	-0.74	0.21	7.31E-05	2.03E-03
RNF122	288.64	-0.74	0.40	9.51E-03	6.16E-02
PKIG	3557.60	-0.74	0.42	1.13E-02	6.87E-02
BCL7A	614.13	-0.75	0.47	1.53E-02	8.47E-02
DGKE	402.04	-0.75	0.40	9.39E-03	6.11E-02
LMTK2	1020.30	-0.75	0.33	4.02E-03	3.45E-02
STAT5B	6294.99	-0.75	0.23	1.96E-04	4.21E-03
CFL2	7548.36	-0.75	0.20	3.28E-05	1.11E-03
HIPK3	9764.72	-0.75	0.26	8.59E-04	1.18E-02
MFN2	4943.81	-0.75	0.21	5.94E-05	1.73E-03
RBM14	5461.34	-0.75	0.09	1.25E-17	2.74E-14
IGHMBP2	1509.99	-0.76	0.33	3.44E-03	3.08E-02
KLHDC4	652.45	-0.76	0.19	1.99E-05	7.60E-04
HERC3	2517.30	-0.76	0.33	3.41E-03	3.06E-02
CCDC9	1255.44	-0.76	0.28	1.30E-03	1.58E-02
MRPS6	4795.47	-0.76	0.37	6.22E-03	4.65E-02
CSNK1E	7677.01	-0.77	0.23	1.37E-04	3.15E-03
DUSP1	140575.22	-0.77	0.53	1.50E-02	8.34E-02
HDX	772.67	-0.77	0.27	6.94E-04	1.02E-02
PPARG	1361.10	-0.77	0.52	1.72E-02	9.16E-02
SORBS3	21676.48	-0.77	0.37	6.05E-03	4.56E-02
CDKN2D	820.99	-0.77	0.42	9.55E-03	6.18E-02
SLC44A2	12326.35	-0.77	0.23	1.92E-04	4.13E-03
IRF2BP2	8514.67	-0.77	0.28	9.04E-04	1.22E-02
SELENOW	18532.02	-0.78	0.36	4.76E-03	3.89E-02
ANKDD1A	811.51	-0.78	0.26	5.75E-04	8.91E-03
ST6GALNAC6	13688.15	-0.78	0.33	3.24E-03	2.95E-02
TCF7L1	2813.58	-0.78	0.41	8.66E-03	5.81E-02
SLC20A2	2495.85	-0.78	0.26	4.78E-04	7.84E-03
AKIRIN1	4838.91	-0.78	0.19	9.65E-06	4.49E-04
RMND5B	2882.43	-0.78	0.24	2.52E-04	5.01E-03
DHODH	644.64	-0.78	0.35	4.04E-03	3.47E-02
RAD23A	9132.57	-0.78	0.19	4.64E-06	2.57E-04
SLC5A3	2128.82	-0.78	0.57	1.88E-02	9.73E-02
SERGEF	1150.58	-0.78	0.27	6.08E-04	9.16E-03
TLE3	3172.43	-0.78	0.49	1.38E-02	7.90E-02
TMEM173	6723.23	-0.79	0.20	1.13E-05	4.97E-04
BEND3	253.86	-0.79	0.39	6.67E-03	4.87E-02
CAMK2N1	2594.38	-0.79	0.42	8.87E-03	5.90E-02
MACROD1	1362.55	-0.79	0.22	8.30E-05	2.19E-03
FYCO1	3764.72	-0.80	0.46	1.13E-02	6.89E-02
KIAA1958	328.26	-0.80	0.47	1.15E-02	6.96E-02
WDR74	1694.85	-0.80	0.31	1.52E-03	1.76E-02
TBC1D8	1169.83	-0.80	0.39	5.58E-03	4.31E-02
MAST4	3582.41	-0.80	0.27	5.00E-04	8.07E-03
GBA2	3900.63	-0.80	0.26	3.54E-04	6.38E-03
ANG	1714.81	-0.80	0.48	1.22E-02	7.23E-02
ZFP36L2	82189.00	-0.80	0.38	5.20E-03	4.13E-02
HOXA6	404.93	-0.80	0.36	3.75E-03	3.29E-02
PHF1	3806.79	-0.80	0.37	4.68E-03	3.84E-02
FAM107A	1017.78	-0.80	2.37	1.65E-02	8.90E-02
MAMLD1	687.55	-0.81	0.46	1.07E-02	6.61E-02
UBC	200791.70	-0.81	0.17	9.03E-07	7.37E-05
SPIDR	4964.44	-0.81	0.22	4.77E-05	1.47E-03
RUBCN	2547.46	-0.81	0.30	1.21E-03	1.50E-02
TNRC6C	1971.82	-0.81	0.23	6.90E-05	1.96E-03
HADH	3980.77	-0.81	0.29	7.89E-04	1.10E-02
EPM2A	718.07	-0.82	0.43	7.70E-03	5.39E-02
CLTGL1	630.19	-0.82	0.36	3.73E-03	3.27E-02
ACTA1	20.70	-0.82	0.60	1.64E-02	8.85E-02
POLE	1075.59	-0.82	0.28	6.37E-04	9.51E-03
ROCK1	11938.97	-0.82	0.36	3.31E-03	3.00E-02
KCNJ14	62.15	-0.82	0.45	8.71E-03	5.83E-02
SRSF3	24725.16	-0.82	0.28	5.42E-04	8.50E-03
TMEM47	12942.99	-0.82	0.41	6.59E-03	4.83E-02
JUP	4157.05	-0.82	0.58	1.72E-02	9.16E-02
DNAJB5	2205.64	-0.82	0.29	7.54E-04	1.07E-02
CYSTM1	6139.56	-0.82	0.36	3.40E-03	3.06E-02
C9orf3	4162.48	-0.82	0.45	9.15E-03	6.01E-02
PPP2R1B	2902.57	-0.83	0.30	8.73E-04	1.19E-02
TYSDN1	1245.94	-0.83	0.27	4.03E-04	6.96E-03
NDE1	3445.13	-0.83	0.26	2.54E-04	5.04E-03
RBM12	4499.01	-0.83	0.22	2.67E-05	9.60E-04
TNFRSF10D	1908.41	-0.83	0.52	1.27E-02	7.40E-02
DNAJB4	9785.26	-0.84	0.26	2.65E-04	5.20E-03
CASC3	8110.16	-0.84	0.23	4.56E-05	1.42E-03
SLC4A5	110.42	-0.84	0.43	6.35E-03	4.71E-02
STARD9	1625.18	-0.84	0.24	1.04E-04	2.58E-03
MTUS1	6070.42	-0.84	0.48	9.95E-03	6.36E-02
ASB13	2685.46	-0.84	0.24	7.66E-05	2.09E-03
TPCN1	8622.99	-0.84	0.31	1.14E-03	1.43E-02
SREBF2	4396.00	-0.84	0.24	9.50E-05	2.41E-03
BTBD3	2035.26	-0.84	0.34	2.03E-03	2.16E-02
PEAR1	4119.55	-0.85	0.69	1.89E-02	9.78E-02
KLFF	6072.63	-0.85	0.24	5.83E-05	1.71E-03
CTDSPL	3730.53	-0.85	0.32	1.23E-03	1.52E-02
SPEN	5944.09	-0.85	0.31	9.58E-04	1.27E-02

MYO1C	23671.11	-0.85	0.21	1.21E-05	5.23E-04
PLEKHG6	58.35	-0.85	0.67	1.77E-02	9.36E-02
LDOC1	5836.28	-0.85	0.62	1.66E-02	8.94E-02
FAHD2B	974.39	-0.85	0.51	1.06E-02	6.59E-02
BCL2L2	766.63	-0.85	0.25	9.97E-05	2.51E-03
VCL	29718.83	-0.86	0.25	1.27E-04	2.95E-03
DEPTOR	3624.18	-0.86	0.36	2.28E-03	2.34E-02
DUSP3	7001.45	-0.86	0.30	7.32E-04	1.05E-02
CCDC71L	2331.19	-0.86	0.63	1.58E-02	8.66E-02
SLC45A4	356.17	-0.86	0.33	1.35E-03	1.62E-02
BCOR	1412.00	-0.86	0.30	6.04E-04	9.12E-03
ZNF10	964.02	-0.86	0.37	2.69E-03	2.62E-02
TRIP10	7964.98	-0.87	0.42	5.00E-03	4.01E-02
NDRG2	11807.79	-0.87	0.62	1.55E-02	8.54E-02
KCNIP3	1593.50	-0.87	0.61	1.47E-02	8.24E-02
CRTC3	6196.81	-0.87	0.34	1.40E-03	1.65E-02
PANX1	2812.41	-0.88	0.37	2.54E-03	2.54E-02
MGP	172523.94	-0.88	0.49	7.26E-03	5.18E-02
IFRD1	7124.14	-0.88	0.34	1.52E-03	1.76E-02
PHF10	2997.27	-0.88	0.31	5.99E-04	9.08E-03
PPP2R5A	3035.19	-0.88	0.29	3.54E-04	6.38E-03
NDRG1	12156.76	-0.88	0.38	2.55E-03	2.54E-02
PACSIN2	5734.11	-0.88	0.21	4.45E-06	2.51E-04
ARHGEF17	7489.30	-0.88	0.41	3.82E-03	3.33E-02
PIP5KL1	132.18	-0.88	0.51	8.77E-03	5.85E-02
RELL1	1010.13	-0.88	0.36	1.80E-03	1.98E-02
FAM13A	4214.47	-0.89	0.31	7.02E-04	1.02E-02
TLN2	2204.15	-0.89	0.31	5.79E-04	8.94E-03
MINDY2	4163.52	-0.89	0.20	2.44E-06	1.59E-04
TNFSF12	4542.01	-0.89	0.26	9.55E-05	2.42E-03
MEHAS1	967.47	-0.89	0.22	8.55E-06	4.09E-04
MCL1	35066.62	-0.89	0.26	9.02E-05	2.31E-03
ATPBV0A1	4484.18	-0.89	0.38	2.34E-03	2.39E-02
ARPC1A	12823.56	-0.90	0.35	1.37E-03	1.64E-02
FST	1954.03	-0.90	0.88	1.96E-02	9.99E-02
UNC13B	1797.67	-0.90	0.23	1.11E-05	4.93E-04
PPRC1	3574.12	-0.90	0.42	3.94E-03	3.41E-02
CDADC1	1565.85	-0.90	0.28	2.16E-04	4.45E-03
C22orf39	2680.77	-0.90	0.29	2.86E-04	5.46E-03
NAP1L5	1518.64	-0.90	0.52	8.69E-03	5.82E-02
PKD2	5513.35	-0.90	0.45	5.13E-03	4.09E-02
DDX3X	33593.67	-0.90	0.31	6.01E-04	9.08E-03
PTCHD1	101.92	-0.90	0.86	1.86E-02	9.66E-02
TESK2	586.91	-0.90	0.54	9.85E-03	6.32E-02
GPER1	1581.81	-0.90	0.39	2.56E-03	2.55E-02
NR1H2	8700.87	-0.91	0.20	6.70E-07	5.87E-05
SERP2	400.08	-0.91	0.43	4.13E-03	3.51E-02
TNS2	16419.49	-0.91	0.34	9.49E-04	1.27E-02
TXLNG	1666.80	-0.91	0.44	4.68E-03	3.84E-02
ENDOD1	4593.08	-0.91	0.33	7.80E-04	1.10E-02
OVGP1	71.40	-0.91	0.40	2.65E-03	2.61E-02
C8orf86	29.35	-0.92	0.82	1.71E-02	9.15E-02
MTHFR	3191.46	-0.92	0.29	2.02E-04	4.29E-03
ISYNA1	8360.97	-0.92	0.80	1.82E-02	9.53E-02
GARNL3	1606.69	-0.92	0.41	3.16E-03	2.90E-02
COX7A1	2607.10	-0.92	0.36	1.45E-03	1.70E-02
KLHL21	6416.15	-0.92	0.44	4.39E-03	3.67E-02
SIX2	1700.65	-0.92	0.55	9.20E-03	6.04E-02
FAM122A	4158.39	-0.92	0.30	3.25E-04	6.00E-03
ALS2CL	1490.04	-0.92	0.67	1.39E-02	7.92E-02
MAML3	677.11	-0.93	0.73	1.54E-02	8.51E-02
ZSCAN18	6514.22	-0.93	0.33	7.00E-04	1.02E-02
TLN1	63434.59	-0.93	0.26	5.74E-05	1.69E-03
SH3RF3	1996.59	-0.93	0.43	3.82E-03	3.33E-02
ARHGAP17	7689.35	-0.93	0.22	5.98E-06	3.08E-04
LINGO1	2986.91	-0.93	0.71	1.47E-02	8.23E-02
MYH7B	128.03	-0.93	0.53	7.80E-03	5.43E-02
CAMK1	3381.75	-0.94	0.26	4.99E-05	1.52E-03
CCDC86	1948.06	-0.94	0.24	1.41E-05	5.84E-04
CYTH3	6826.01	-0.94	0.32	5.59E-04	8.72E-03
RPS8KA5	1367.03	-0.94	0.24	1.58E-05	6.37E-04
SPSB1	7466.79	-0.94	0.69	1.38E-02	7.90E-02
VAMP2	5217.63	-0.94	0.41	2.77E-03	2.67E-02
ELL	2551.36	-0.94	0.32	4.82E-04	7.88E-03
SLC41A1	2490.06	-0.94	0.29	1.67E-04	3.70E-03
FOXO3	17788.49	-0.94	0.42	2.83E-03	2.70E-02
EDA	371.27	-0.94	0.60	1.05E-02	6.56E-02
PPP1R12A	15885.26	-0.94	0.36	1.26E-03	1.54E-02
SYNE3	1216.25	-0.94	0.35	9.90E-04	1.31E-02
MAP7D3	3714.23	-0.94	0.42	2.76E-03	2.66E-02
TTLL7	2364.52	-0.94	0.59	9.97E-03	6.36E-02
TPM1	34066.27	-0.94	0.37	1.59E-03	1.82E-02
ACACB	1659.66	-0.95	0.38	1.70E-03	1.90E-02
ACTG2	9848.81	-0.95	1.19	1.93E-02	9.92E-02
MOB3B	2130.28	-0.95	0.77	1.57E-02	8.63E-02
PTK2	12348.98	-0.95	0.34	7.52E-04	1.07E-02
GEM	12385.49	-0.95	0.39	1.77E-03	1.96E-02
OLFM1	1945.01	-0.95	0.64	1.15E-02	6.94E-02
MAPRE2	17894.73	-0.96	0.53	7.43E-03	5.25E-02
H2AFJ	4046.24	-0.96	0.25	2.02E-05	7.72E-04
MAP3K6	4252.16	-0.96	0.29	1.24E-04	2.90E-03
COL4A6	1134.84	-0.96	2.80	1.53E-02	8.49E-02
MPRIP	11825.63	-0.96	0.38	1.47E-03	1.71E-02
LG13	59.28	-0.96	0.77	1.45E-02	8.15E-02
SLC7A2	2598.63	-0.96	0.99	1.81E-02	9.48E-02
ARHGEF6	3692.22	-0.96	0.34	6.66E-04	9.89E-03
LRRC24	397.55	-0.96	0.49	5.26E-03	4.17E-02
DAAM2	4326.86	-0.96	0.48	5.00E-03	4.01E-02
FEM1C	3630.19	-0.97	0.44	3.11E-03	2.87E-02
MANEAL	160.25	-0.97	0.86	1.61E-02	8.77E-02
WDR1	20087.84	-0.97	0.29	9.03E-05	2.31E-03
IDS	14060.90	-0.97	0.29	1.14E-04	2.74E-03

ZNRD1	2241.69	-0.97	0.50	5.52E-03	4.29E-02
ICAM1	17526.07	-0.97	0.96	1.73E-02	9.23E-02
NRARP	2228.35	-0.97	1.05	1.77E-02	9.35E-02
C1orf198	15141.89	-0.97	0.47	4.20E-03	3.55E-02
FILIP1	4175.68	-0.98	0.21	4.76E-07	4.45E-05
SLC8B1	5943.68	-0.98	0.32	3.19E-04	5.92E-03
RUSC2	6703.79	-0.98	0.26	1.80E-05	7.04E-04
PPP1R10	7841.31	-0.98	0.27	4.68E-05	1.45E-03
SLC48A1	2600.54	-0.98	0.26	2.70E-05	9.65E-04
CAMK2G	893.49	-0.98	0.40	1.73E-03	1.93E-02
ACTN4	5316.25	-0.98	0.30	1.86E-04	3.68E-03
JMJD6	2424.77	-0.99	0.42	2.28E-03	2.34E-02
DGKD	1864.44	-0.99	0.33	3.23E-04	5.98E-03
SMURF1	2209.96	-0.99	0.19	2.49E-08	4.11E-06
CDH13	5076.97	-0.99	0.44	2.59E-03	2.57E-02
ERF	983.86	-0.99	0.41	1.67E-03	1.88E-02
C12orf75	9906.53	-0.99	0.60	8.20E-03	5.62E-02
LGALS4	41.00	-1.00	0.68	1.10E-02	6.75E-02
FSTL3	6909.22	-1.00	0.41	1.74E-03	1.93E-02
SLC17A7	1076.00	-1.00	0.89	1.56E-02	8.58E-02
EPN2	4421.88	-1.00	0.34	4.45E-04	7.46E-03
SUN1	16532.16	-1.00	0.29	7.65E-05	2.09E-03
PER2	2434.70	-1.00	0.36	6.19E-04	9.28E-03
RRAS	11905.56	-1.00	0.27	3.63E-05	1.19E-03
MBOAT1	319.76	-1.00	0.34	3.57E-04	6.42E-03
SMTN	18594.57	-1.00	0.44	2.49E-03	2.50E-02
EPAS1	18893.34	-1.00	0.70	1.20E-02	7.14E-02
GABARAPL1	6435.89	-1.00	0.22	4.68E-07	4.40E-05
SIPA1L1	2278.84	-1.00	0.48	3.92E-03	3.40E-02
CCDC181	21.65	-1.01	2.28	1.48E-02	8.26E-02
DCAF4L1	11.27	-1.01	1.64	1.81E-02	8.77E-02
RAB6B	539.27	-1.01	0.42	1.96E-03	2.11E-02
CDS2	4473.30	-1.01	0.49	4.20E-03	3.55E-02
TSC22D2	9742.65	-1.01	0.34	4.01E-04	6.96E-03
LONRF1	4941.34	-1.01	0.25	9.46E-06	4.44E-04
LPP	17846.74	-1.01	0.29	6.98E-05	1.97E-03
SMYD4	2215.28	-1.02	0.39	1.05E-03	1.36E-02
TMEM109	17785.63	-1.02	0.20	3.90E-08	5.93E-06
PID1	4330.45	-1.02	0.55	5.92E-03	4.49E-02
CTC1	1071.22	-1.02	0.30	8.20E-05	2.19E-03
HAPLN3	2167.63	-1.02	0.57	6.51E-03	4.80E-02
CNNM2	1747.82	-1.03	0.46	2.71E-03	2.63E-02
EIF1B	5637.54	-1.03	0.23	9.13E-07	7.41E-05
LRP5	3679.87	-1.03	0.51	4.41E-03	3.69E-02
SBDS	13855.92	-1.03	0.24	1.87E-06	1.29E-04
TGFBR2	36003.97	-1.03	0.44	2.17E-03	2.25E-02
SLC7A9	13.64	-1.04	0.61	6.89E-03	4.99E-02
OSGIN1	634.55	-1.04	0.39	8.99E-04	1.22E-02
ZNF274	1491.71	-1.04	0.38	7.39E-04	1.06E-02
RNF150	1430.13	-1.04	0.88	1.40E-02	7.97E-02
ATP13A4	16.19	-1.04	1.66	1.55E-02	8.55E-02
SMIM1	37.94	-1.04	0.72	1.04E-02	6.54E-02
FOXO1	10337.54	-1.05	0.42	1.53E-03	1.77E-02
ATP6V0E2	1184.79	-1.05	0.71	1.02E-02	6.44E-02
FAAH	330.51	-1.05	0.47	2.54E-03	2.54E-02
PDE3A	4530.57	-1.05	0.52	4.08E-03	3.49E-02
PYGB	10097.29	-1.05	0.37	5.25E-04	8.33E-03
PLK3	3809.81	-1.06	0.18	7.69E-10	2.00E-07
LSMEM1	66.62	-1.06	0.70	9.48E-03	6.15E-02
TEAD3	2533.90	-1.06	0.31	7.71E-05	2.10E-03
COQ10B	6600.26	-1.06	0.32	1.14E-04	2.73E-03
TESK1	2270.35	-1.06	0.23	3.25E-07	3.44E-05
HSPB2	666.13	-1.06	0.29	2.77E-05	9.83E-04
UTRN	15224.52	-1.07	0.44	1.76E-03	1.95E-02
HSPA1A	152624.93	-1.07	0.76	1.05E-02	6.56E-02
FBXO32	7861.81	-1.07	0.61	6.62E-03	4.84E-02
MKNK2	5811.95	-1.07	0.32	1.15E-04	2.76E-03
ABR	5933.60	-1.07	0.36	3.23E-04	5.98E-03
SOC32	2692.82	-1.07	0.59	5.89E-03	4.48E-02
SLC6A9	2245.00	-1.07	0.63	7.30E-03	5.19E-02
BCL3	5525.69	-1.07	0.37	4.75E-04	7.81E-03
CCBE1	837.58	-1.07	1.39	1.58E-02	8.66E-02
ADCY6	4396.37	-1.08	0.37	4.06E-04	7.01E-03
ACSS1	2878.41	-1.08	0.58	5.49E-03	4.27E-02
STK24	8534.25	-1.08	0.36	3.73E-04	6.63E-03
ECHDC2	3848.98	-1.08	0.52	3.49E-03	3.11E-02
IRF2BPL	3361.66	-1.08	0.34	2.05E-04	4.34E-03
ARHGEF7	6397.62	-1.08	0.45	1.85E-03	2.02E-02
EZH1	3776.89	-1.08	0.41	9.07E-04	1.22E-02
SAMD4A	1451.16	-1.08	0.47	2.27E-03	2.34E-02
TACC2	3336.06	-1.08	0.36	3.07E-04	5.76E-03
WWP2	4980.80	-1.08	0.40	7.96E-04	1.11E-02
SRPK3	176.69	-1.09	1.86	1.50E-02	8.34E-02
RCL1	1514.76	-1.09	0.28	1.25E-05	5.38E-04
GZF1	1720.45	-1.09	0.40	7.69E-04	1.08E-02
ESRRG	51.99	-1.09	1.24	1.50E-02	8.36E-02
FLOT2	5259.51	-1.09	0.26	4.23E-06	2.42E-04
ZNF460	912.68	-1.09	0.23	4.22E-07	4.15E-05
MTURN	2704.41	-1.10	0.53	3.68E-03	3.25E-02
HSPB8	8253.74	-1.10	0.57	4.78E-03	3.90E-02
SPATA2L	953.41	-1.10	0.27	5.73E-06	2.98E-04
ALDH4A1	1343.92	-1.10	0.48	2.21E-03	2.29E-02
RG99	505.82	-1.10	0.40	5.96E-04	9.06E-03
C8orf88	864.54	-1.10	0.40	6.01E-04	9.08E-03
CFAP221	67.76	-1.11	0.77	9.93E-03	6.36E-02
STK40	5675.59	-1.11	0.18	3.71E-11	1.62E-08
SLC27A3	5879.51	-1.11	0.28	9.63E-06	4.49E-04
SV2C	26.37	-1.11	2.09	1.43E-02	8.09E-02
PPP1R15B	7841.00	-1.11	0.31	4.41E-05	1.38E-03
NFKBIA	54985.90	-1.11	0.76	9.42E-03	6.13E-02
SLC25A33	948.03	-1.11	0.33	7.99E-05	2.15E-03
EMP2	7755.74	-1.12	0.20	1.19E-09	2.95E-07

EHP1L1	3317.99	-1.12	0.40	5.10E-04	8.13E-03
RAI2	3109.08	-1.12	0.83	1.07E-02	6.63E-02
PHF13	2246.76	-1.13	0.47	1.65E-03	1.86E-02
LRRCA8A	10134.12	-1.13	0.16	4.65E-14	5.09E-11
SOX15	272.48	-1.13	1.53	1.46E-02	8.20E-02
HOXA13	139.21	-1.13	2.06	1.42E-02	8.04E-02
STOM	31841.22	-1.14	0.27	3.65E-06	2.18E-04
VPS37B	2951.46	-1.14	0.44	1.06E-03	1.37E-02
PELI2	1828.29	-1.14	0.49	1.91E-03	2.07E-02
ARHGEF37	511.33	-1.14	0.40	5.11E-04	8.13E-03
PLXNB1	1922.14	-1.14	0.46	1.29E-03	1.57E-02
PRODH	56.01	-1.14	0.75	8.29E-03	5.64E-02
HS6ST1	4610.57	-1.15	0.56	3.56E-03	3.17E-02
NECAB1	1439.61	-1.15	0.31	2.55E-05	9.20E-04
PCDH1	4791.80	-1.15	1.26	1.49E-02	8.31E-02
UBA2	8865.65	-1.15	0.33	6.72E-05	1.92E-03
MTMR7	76.95	-1.15	0.46	1.19E-03	1.48E-02
PRDM11	728.59	-1.15	0.23	1.14E-07	1.45E-05
CPT1A	1896.73	-1.15	0.33	5.64E-05	1.67E-03
PNPLA2	5260.66	-1.16	0.25	3.83E-07	3.84E-05
PRKAG2	2277.72	-1.16	0.56	3.26E-03	2.96E-02
RRG	9645.10	-1.16	0.47	1.23E-03	1.52E-02
ZNF385C	60.80	-1.16	0.60	4.11E-03	3.50E-02
EXOC3L4	214.76	-1.16	0.44	7.62E-04	1.08E-02
ARID5B	18965.01	-1.16	0.41	4.94E-04	8.01E-03
B3GALNT2	1607.27	-1.17	0.27	1.72E-06	1.23E-04
FAM129A	13067.92	-1.17	0.52	2.08E-03	2.19E-02
MAN2A2	2672.15	-1.17	0.28	4.50E-06	2.52E-04
PLCE1	2327.53	-1.17	0.53	2.49E-03	2.50E-02
AMOTL2	12000.49	-1.17	0.43	6.21E-04	9.30E-03
EIF1	69322.48	-1.17	0.20	2.56E-10	7.71E-08
TNFAIP2	19769.01	-1.17	0.54	2.65E-03	2.61E-02
FANCE	345.32	-1.17	0.35	8.29E-05	2.19E-03
TMEM35A	463.30	-1.17	0.97	1.17E-02	7.02E-02
STXBP1	5150.53	-1.18	0.26	5.23E-07	4.72E-05
MAP3K7CL	2482.28	-1.18	0.87	1.01E-02	6.41E-02
RDH5	730.07	-1.18	0.36	1.05E-04	2.60E-03
PANK1	608.16	-1.18	0.69	6.21E-03	4.64E-02
LGALS3	3838.25	-1.18	0.35	6.59E-05	1.89E-03
HSFX1	66.08	-1.18	0.62	4.38E-03	3.67E-02
ADH1B	18131.37	-1.18	0.96	1.14E-02	6.91E-02
ZEB1	7667.85	-1.19	0.32	1.82E-05	7.06E-04
ABCA3	1178.26	-1.19	0.80	8.65E-03	5.81E-02
ACYP1	591.11	-1.19	0.33	3.33E-05	1.12E-03
GADL1	51.76	-1.19	0.38	1.68E-04	3.72E-03
TSC22D3	64679.80	-1.19	0.89	1.06E-02	6.59E-02
ADGRB3	174.75	-1.19	1.24	1.32E-02	7.61E-02
OR51E1	1389.21	-1.19	1.34	1.36E-02	7.81E-02
RAMP1	1600.73	-1.19	0.89	1.02E-02	6.44E-02
GCNT4	95.43	-1.19	0.94	1.06E-02	6.58E-02
CRIP1	29142.65	-1.20	0.39	2.28E-04	4.61E-03
ADIPOO	39.65	-1.20	1.14	1.21E-02	7.18E-02
KIF1C	4591.13	-1.20	0.31	1.00E-05	4.57E-04
TPRG1	510.50	-1.20	0.36	8.56E-05	2.22E-03
FOSL2	25173.46	-1.20	0.56	2.71E-03	2.63E-02
JADE1	4714.54	-1.21	0.46	8.46E-04	1.16E-02
HDAC5	7025.70	-1.21	0.40	2.14E-04	4.43E-03
SLC38A1	4117.14	-1.21	0.90	9.96E-03	6.36E-02
ABCD2	288.76	-1.21	0.72	6.16E-03	4.62E-02
TNNI3K	97.19	-1.22	0.57	2.72E-03	2.64E-02
JUN	75011.85	-1.22	0.39	1.52E-04	3.43E-03
ADARB1	2090.09	-1.22	0.56	2.58E-03	2.56E-02
AFF3	1165.70	-1.22	1.02	1.12E-02	6.86E-02
FBLN5	33494.72	-1.22	0.93	1.04E-02	6.54E-02
C1orf167	268.32	-1.22	0.58	2.89E-03	2.73E-02
PROCR	12325.64	-1.23	0.75	6.78E-03	4.93E-02
LIMD1	1898.50	-1.23	0.40	2.09E-04	4.38E-03
HSPB1	54642.79	-1.23	0.23	1.39E-08	2.50E-06
PTCH1	522.45	-1.23	0.54	1.89E-03	2.05E-02
RIC3	184.22	-1.23	0.80	7.66E-03	5.37E-02
GLB1L2	89.31	-1.24	0.72	5.66E-03	4.35E-02
FRZB	8534.10	-1.24	0.96	1.01E-02	6.40E-02
HES1	4111.74	-1.25	0.59	2.71E-03	2.63E-02
C1QTNF1	13845.49	-1.25	0.69	4.92E-03	3.97E-02
OSBP2	211.80	-1.25	0.66	4.27E-03	3.59E-02
KLHL15	2410.42	-1.25	0.28	1.24E-06	9.66E-05
CCNI2	60.66	-1.25	0.93	9.29E-03	6.07E-02
CMTM5	67.52	-1.25	1.18	1.17E-02	7.05E-02
MYEF2	181.86	-1.25	1.10	1.13E-02	6.89E-02
TBC1D1	4772.53	-1.26	0.43	3.14E-04	5.87E-03
GPR88	93.19	-1.26	0.39	1.29E-04	2.99E-03
PPARGC1A	333.10	-1.26	0.61	3.07E-03	2.85E-02
SOD3	20062.03	-1.26	0.84	7.86E-03	5.46E-02
SLMAP	7103.93	-1.26	0.31	4.46E-06	2.51E-04
RGN	779.81	-1.26	0.74	5.91E-03	4.49E-02
DBNDD2	7040.72	-1.27	0.60	2.73E-03	2.64E-02
ECE1	8761.78	-1.27	0.39	1.13E-04	2.73E-03
WDR17	172.87	-1.27	0.50	9.50E-04	1.27E-02
GNAL	1264.29	-1.27	0.66	3.99E-03	3.44E-02
MARK1	2206.03	-1.27	0.41	1.88E-04	4.07E-03
CAB39L	3670.69	-1.27	0.64	3.49E-03	3.11E-02
FKBP5	18591.08	-1.27	1.03	1.04E-02	6.54E-02
NXT1	2462.93	-1.28	0.35	2.86E-05	1.01E-03
GRHL1	420.00	-1.28	0.90	8.41E-03	5.69E-02
HRH2	1787.43	-1.28	2.25	1.29E-02	7.50E-02
MAP2	2172.41	-1.29	1.10	1.10E-02	6.75E-02
CTH	640.99	-1.29	0.60	2.52E-03	2.52E-02
CHD1	5115.74	-1.29	0.40	1.13E-04	2.73E-03
GRK5	1911.89	-1.29	0.24	1.28E-08	2.37E-06
PXDC1	8090.84	-1.29	0.45	3.74E-04	6.63E-03
SYNE2	8365.78	-1.29	0.53	1.26E-03	1.54E-02
ABTB1	5464.94	-1.29	0.56	1.67E-03	1.88E-02

INMT	3129.75	-1.29	0.63	3.09E-03	2.86E-02
TEX29	10.76	-1.30	1.97	1.21E-02	7.20E-02
PDE1B	2446.26	-1.30	0.66	3.77E-03	3.30E-02
RGMA	1748.61	-1.30	0.73	5.10E-03	4.06E-02
FOLH1	418.97	-1.30	0.64	3.23E-03	2.95E-02
CNNM3	2679.90	-1.30	0.40	1.12E-04	2.72E-03
TP53111	13323.02	-1.30	0.29	1.07E-06	8.50E-05
CELA2A	8.52	-1.30	1.13	9.95E-03	6.36E-02
NAF1	695.21	-1.30	0.41	1.43E-04	3.26E-03
SYN2	32.32	-1.30	0.79	6.08E-03	4.57E-02
TSC22D1	51547.95	-1.31	0.52	9.48E-04	1.27E-02
MEF2D	7386.18	-1.31	0.30	1.40E-06	1.05E-04
L3MBTL4	585.53	-1.31	0.74	4.98E-03	4.00E-02
COLCA2	454.92	-1.31	0.77	5.57E-03	4.31E-02
TMEM25	1538.73	-1.32	0.47	4.72E-04	7.77E-03
TBX2	8374.16	-1.32	0.72	4.70E-03	3.85E-02
NPR1	5891.75	-1.32	0.92	8.36E-03	5.66E-02
GPRC5A	9147.55	-1.32	0.83	6.69E-03	4.88E-02
PALM2	232.72	-1.33	0.81	6.25E-03	4.66E-02
ZNF141	1192.75	-1.33	0.50	7.24E-04	1.05E-02
EGR3	996.30	-1.33	0.67	3.37E-03	3.04E-02
LIMS2	6173.59	-1.33	0.48	5.28E-04	8.36E-03
SYNPO2	7927.81	-1.33	0.60	1.97E-03	2.11E-02
NNMT	29475.13	-1.34	0.45	3.19E-04	5.92E-03
TMC7	248.00	-1.34	1.16	1.05E-02	6.56E-02
CASP9	1501.82	-1.34	0.34	7.93E-06	3.89E-04
CAT	13847.76	-1.34	0.21	1.25E-11	6.40E-09
CECR2	30.13	-1.35	1.35	1.10E-02	6.74E-02
INAFM2	1428.10	-1.35	0.71	3.94E-03	3.41E-02
RBKS	1062.77	-1.36	0.98	8.35E-03	5.66E-02
PPP1R12C	3886.28	-1.36	0.33	3.71E-06	2.21E-04
FLNA	126394.79	-1.36	0.30	3.47E-07	3.56E-05
RYR2	691.81	-1.36	0.55	1.12E-03	1.42E-02
TLE2	2073.87	-1.37	0.47	2.99E-04	5.65E-03
PDE5A	6067.86	-1.38	0.63	2.24E-03	2.31E-02
MAP3K8	4977.76	-1.38	0.86	6.38E-03	4.72E-02
RND3	13010.46	-1.38	0.43	1.17E-04	2.80E-03
RASL12	7997.22	-1.39	0.53	7.56E-04	1.07E-02
ATOH8	1787.75	-1.39	0.54	8.27E-04	1.14E-02
CRYAB	14762.11	-1.39	0.49	3.60E-04	6.46E-03
SOX5	1446.14	-1.39	0.47	2.58E-04	5.11E-03
GP1BB	1276.58	-1.39	0.42	7.79E-05	2.11E-03
MOB3C	2896.61	-1.40	0.28	9.08E-08	1.18E-05
GADD45G	3704.91	-1.40	0.68	2.77E-03	2.66E-02
DSTN	67797.49	-1.40	0.40	4.38E-05	1.38E-03
ARHGEF10L	7544.51	-1.41	0.46	2.10E-04	4.39E-03
ANGPTL7	1352.09	-1.41	1.41	1.10E-02	6.76E-02
RDH10	3707.21	-1.41	0.92	7.01E-03	5.04E-02
DCUN1D3	3356.98	-1.41	0.19	1.19E-14	1.53E-11
PIPSK1B	467.78	-1.41	1.47	1.12E-02	6.84E-02
TMEM51	2193.47	-1.41	0.85	5.61E-03	4.32E-02
SLC4A11	192.05	-1.42	0.64	2.04E-03	2.17E-02
EIF4A3	15312.17	-1.43	0.55	8.13E-04	1.13E-02
BMP2	4277.89	-1.43	0.68	2.61E-03	2.58E-02
SLC25A18	469.70	-1.43	0.76	3.97E-03	3.42E-02
CCDC107	4213.59	-1.43	0.33	1.65E-06	1.20E-04
ITGA7	2891.64	-1.43	0.82	4.95E-03	3.98E-02
PIM1	5777.02	-1.43	0.71	3.03E-03	2.83E-02
THRA	4582.33	-1.44	0.53	5.64E-04	8.77E-03
SORL1	2252.97	-1.44	1.86	1.16E-02	6.98E-02
GPC4	4144.91	-1.44	0.59	1.12E-03	1.42E-02
KLF11	6269.07	-1.44	0.39	1.91E-05	7.38E-04
CPED1	7181.07	-1.45	0.44	1.09E-04	2.67E-03
OLAH	48.45	-1.45	1.04	7.73E-03	5.41E-02
ARVCF	2018.24	-1.45	0.63	1.66E-03	1.87E-02
GPD1L	2697.07	-1.45	0.37	9.78E-06	4.53E-04
CRIP2	25336.87	-1.45	0.54	5.77E-04	8.94E-03
NR3C2	551.01	-1.45	0.52	4.38E-04	7.36E-03
LTBP4	71836.00	-1.45	0.93	6.35E-03	4.71E-02
KLHL38	96.84	-1.46	1.46	1.06E-02	6.57E-02
BCL6	4956.38	-1.46	0.44	8.83E-05	2.28E-03
ADCY3	11434.48	-1.46	0.25	3.38E-10	9.78E-08
SLC16A8	130.60	-1.46	0.57	8.42E-04	1.16E-02
BHLHE40	15948.64	-1.46	0.50	3.27E-04	6.02E-03
S1PR3	7404.57	-1.46	0.30	1.74E-07	2.09E-05
HSPB7	3414.04	-1.46	0.71	2.66E-03	2.61E-02
GTF2B	4144.86	-1.47	0.34	2.09E-06	1.41E-04
RADIL	1223.69	-1.47	0.64	1.65E-03	1.86E-02
FADS3	5443.38	-1.47	0.50	2.62E-04	5.17E-03
RCAN1	10838.51	-1.47	0.63	1.53E-03	1.77E-02
ASPA	1490.05	-1.47	0.41	3.43E-05	1.15E-03
CYCS	17812.37	-1.48	0.82	4.29E-03	3.60E-02
CDHR3	201.27	-1.48	0.35	2.28E-06	1.50E-04
FOSB	30794.83	-1.48	0.57	7.89E-04	1.10E-02
TGFBR3	16366.17	-1.48	0.91	5.70E-03	4.37E-02
COL11A2	112.06	-1.49	0.81	4.08E-03	3.49E-02
LG4	2782.60	-1.49	0.80	3.84E-03	3.34E-02
CSR2	6864.32	-1.49	0.71	2.50E-03	2.51E-02
ANGPT1	3990.53	-1.49	0.42	3.88E-05	1.26E-03
TMEM38B	2777.46	-1.49	0.42	3.58E-05	1.19E-03
TRIM72	117.91	-1.49	0.65	1.53E-03	1.77E-02
NFKBIZ	24860.98	-1.50	0.66	1.64E-03	1.85E-02
TMCC2	373.68	-1.50	0.40	1.52E-05	6.17E-04
MYLK	25991.39	-1.50	0.64	1.40E-03	1.65E-02
GRTP1	299.96	-1.50	0.74	2.79E-03	2.67E-02
CBX7	3798.65	-1.50	0.63	1.28E-03	1.57E-02
CARNS1	400.12	-1.50	1.12	7.98E-03	5.51E-02
BVES	508.75	-1.51	0.55	5.02E-04	8.08E-03
MAP3K20	15079.18	-1.51	0.37	4.40E-06	2.50E-04
TACC1	23435.29	-1.51	0.22	3.73E-13	3.46E-10
BMP8B	208.68	-1.51	1.47	1.01E-02	6.39E-02
CD9	27230.32	-1.51	0.48	1.39E-04	3.19E-03

FOS	409588.11	-1.52	0.53	3.63E-04	6.50E-03
SERTAD3	3735.00	-1.52	0.33	3.10E-07	3.41E-05
TP63INP2	3125.79	-1.52	0.42	3.24E-05	1.11E-03
TCAP	19.01	-1.52	1.20	8.27E-03	5.64E-02
ACTA2	220958.22	-1.53	0.75	2.70E-03	2.63E-02
OLFML2A	3309.29	-1.54	0.48	1.25E-04	2.92E-03
B4GALNT1	1137.58	-1.54	0.57	5.97E-04	9.06E-03
ARHGEF39	693.80	-1.54	0.72	2.19E-03	2.27E-02
FGF1	703.49	-1.54	0.55	3.97E-04	6.91E-03
KLHDC9	195.51	-1.54	0.59	6.89E-04	1.01E-02
ABLIM1	12104.34	-1.54	0.85	4.25E-03	3.58E-02
GATM	1247.22	-1.54	1.06	6.99E-03	5.03E-02
SYDE2	863.29	-1.54	0.71	2.01E-03	2.14E-02
DNAJB1	66556.33	-1.54	0.66	1.40E-03	1.65E-02
CNGA3	19.90	-1.54	1.82	1.03E-02	6.48E-02
SPRYD3	9574.20	-1.55	0.31	5.24E-08	7.52E-06
ARL5B	5095.94	-1.55	0.46	6.33E-05	1.83E-03
ZFH3	4629.71	-1.55	0.34	5.34E-07	4.76E-05
ADGRL3	1033.50	-1.56	1.03	6.43E-03	4.75E-02
CCNL1	18483.33	-1.56	0.45	4.24E-05	1.35E-03
KLHL23	2368.78	-1.56	0.80	3.23E-03	2.95E-02
PPFIA2	532.11	-1.56	0.59	6.23E-04	9.32E-03
SLC2A3	14786.98	-1.56	0.69	1.60E-03	1.82E-02
CSF1	21122.51	-1.57	0.50	1.40E-04	3.20E-03
CCNH	6071.03	-1.57	0.57	4.88E-04	7.94E-03
LAMA5	9787.06	-1.57	0.73	2.09E-03	2.20E-02
MTHFD2	4733.55	-1.58	0.47	7.78E-05	2.11E-03
EGFLAM	3037.51	-1.58	0.52	2.21E-04	4.52E-03
NOTCH3	62927.07	-1.58	0.60	6.77E-04	1.00E-02
NT5C1A	45.26	-1.58	2.45	1.04E-02	6.53E-02
PDK4	102881.26	-1.58	1.35	1.04E-02	6.52E-02
SVEP1	13163.67	-1.59	1.02	6.15E-03	4.61E-02
ATP8B4	888.81	-1.59	0.73	2.03E-03	2.16E-02
HEY2	2566.85	-1.59	0.76	2.35E-03	2.39E-02
SNN	2295.26	-1.59	0.39	3.88E-06	2.29E-04
PM20D2	2686.68	-1.60	0.69	1.39E-03	1.65E-02
TMC4	585.77	-1.60	0.66	1.12E-03	1.42E-02
TOB2	14322.06	-1.60	0.36	8.35E-07	6.98E-05
TPM2	58065.49	-1.60	0.53	2.24E-04	4.57E-03
KCNA2	71.17	-1.60	2.82	1.05E-02	6.56E-02
ITIH4	568.35	-1.60	0.94	4.73E-03	3.87E-02
SLC39A14	14888.45	-1.60	0.52	1.70E-04	3.75E-03
C8orf34	80.98	-1.60	0.42	1.06E-05	4.79E-04
JAG1	16700.91	-1.61	0.36	7.14E-07	6.18E-05
KLF10	23215.25	-1.61	0.41	7.73E-06	3.81E-04
JUND	85501.80	-1.61	0.42	1.11E-05	4.93E-04
ADPRH	1522.47	-1.61	0.35	4.36E-07	4.23E-05
SULT1C4	263.36	-1.62	0.76	2.16E-03	2.25E-02
ICOSLG	311.93	-1.62	0.87	3.60E-03	3.18E-02
TIPARP	6521.91	-1.62	0.45	3.16E-05	1.10E-03
LONRF2	771.92	-1.63	0.39	3.25E-06	1.98E-04
LDLR	2948.57	-1.63	0.47	5.22E-05	1.57E-03
JAKMIP2	52.02	-1.63	0.83	2.94E-03	2.77E-02
SUN2	13744.92	-1.64	0.27	1.48E-10	4.84E-08
PAR6A	304.37	-1.64	0.91	4.03E-03	3.46E-02
KRT222	631.27	-1.64	1.53	9.26E-03	6.06E-02
SPEG	3451.19	-1.64	0.80	2.53E-03	2.53E-02
MIDN	3559.55	-1.64	0.41	5.05E-06	2.75E-04
SNTA1	5291.33	-1.65	0.56	2.53E-04	5.02E-03
LONRF3	349.49	-1.65	0.43	1.15E-05	5.00E-04
LITAF	11616.17	-1.65	0.57	2.96E-04	5.61E-03
SYP	306.67	-1.66	0.70	1.21E-03	1.50E-02
PNRC1	67469.96	-1.66	0.45	2.16E-05	8.04E-04
TNS1	28250.23	-1.66	0.46	2.91E-05	1.02E-03
SLC25A21	72.62	-1.66	0.69	1.14E-03	1.44E-02
THBD	5998.46	-1.66	0.79	2.35E-03	2.39E-02
YBX3	34512.92	-1.67	0.20	2.51E-18	9.61E-15
WFS1	5060.97	-1.67	0.43	9.93E-06	4.55E-04
TRIM7	254.94	-1.67	0.62	4.99E-04	8.06E-03
MT1F	547.39	-1.68	0.47	3.28E-05	1.11E-03
ITPRIP	8547.82	-1.68	0.56	2.15E-04	4.44E-03
USP53	5032.66	-1.68	0.52	1.03E-04	2.58E-03
SPTB	353.68	-1.69	0.86	2.97E-03	2.79E-02
CBFAZT3	1198.22	-1.69	1.00	4.85E-03	3.94E-02
TMTC1	4242.92	-1.69	0.36	3.10E-07	3.41E-05
CNKSR1	45.01	-1.69	0.65	6.38E-04	9.52E-03
CEBPB	25129.08	-1.69	0.44	1.02E-05	4.61E-04
CITED4	1785.20	-1.69	0.58	2.73E-04	5.32E-03
MPPED2	417.24	-1.70	1.19	6.60E-03	4.84E-02
IER2	53583.29	-1.71	0.53	1.08E-04	2.66E-03
ASB16	86.99	-1.71	1.05	5.07E-03	4.06E-02
KLF9	4517.95	-1.71	0.52	7.84E-05	2.12E-03
TMPRSS9	34.57	-1.72	0.95	3.78E-03	3.31E-02
TINAGL1	31834.95	-1.72	1.01	4.61E-03	3.80E-02
CSPG4	10237.86	-1.72	0.53	9.94E-05	2.51E-03
MT1G	439.18	-1.72	1.34	7.65E-03	5.37E-02
SLC25A4	5465.67	-1.72	0.41	2.04E-06	1.39E-04
EBF3	763.17	-1.72	0.85	2.67E-03	2.62E-02
RGS7BP	931.89	-1.72	1.08	5.37E-03	4.22E-02
CORO6	1963.31	-1.72	0.70	9.55E-04	1.27E-02
NPNT	10286.47	-1.72	0.93	3.60E-03	3.18E-02
SPATA25	16.52	-1.73	0.74	1.13E-03	1.43E-02
RBPMS	12962.34	-1.74	0.41	2.15E-06	1.43E-04
INPP5A	7012.49	-1.75	0.49	3.20E-05	1.11E-03
PPM1L	1440.10	-1.75	0.70	8.66E-04	1.18E-02
WFDC1	2675.81	-1.76	1.02	4.45E-03	3.71E-02
FOX1	485.89	-1.77	0.91	2.98E-03	2.79E-02
SMIM10L2A	105.13	-1.77	0.51	4.07E-05	1.31E-03
LIPH	37.49	-1.77	0.93	3.16E-03	2.90E-02
IL6R	1787.83	-1.78	0.61	2.73E-04	5.32E-03
TMEM110-MUSTN1	1653.51	-1.78	0.53	6.23E-05	1.80E-03
MAOA	2297.12	-1.78	0.61	2.68E-04	5.25E-03

SOX13	2659.43	-1.78	0.39	5.07E-07	4.60E-05
RASGRP2	1515.11	-1.79	0.94	3.14E-03	2.90E-02
FNDC11	28.11	-1.79	1.76	8.77E-03	5.85E-02
NIPAL1	104.33	-1.80	1.14	5.30E-03	4.18E-02
MOB2	3924.94	-1.80	0.45	5.91E-06	3.05E-04
CMKLR1	2372.37	-1.80	0.45	6.44E-06	3.29E-04
MAT2A	24016.81	-1.80	0.27	1.08E-12	8.69E-10
ADAMTSL2	358.67	-1.81	0.72	8.13E-04	1.13E-02
MAFK	649.49	-1.81	0.43	2.62E-06	1.67E-04
KLKB1	25.73	-1.82	0.81	1.49E-03	1.74E-02
ZSWIM5	224.69	-1.82	0.88	2.29E-03	2.35E-02
SERTM1	664.42	-1.82	0.75	1.04E-03	1.36E-02
NMUR1	94.70	-1.82	0.68	5.32E-04	8.41E-03
PPM1E	20.40	-1.83	1.11	4.70E-03	3.85E-02
HACD1	982.07	-1.84	0.74	9.22E-04	1.24E-02
PPP1R12B	14371.79	-1.84	0.72	7.87E-04	1.10E-02
PTH2R	490.21	-1.84	1.49	7.67E-03	5.38E-02
STOX1	139.34	-1.84	1.00	3.45E-03	3.08E-02
ZBTB21	3008.85	-1.85	0.37	7.88E-08	1.04E-05
RHOB	20561.48	-1.85	0.53	3.91E-05	1.27E-03
NUDT4	25519.19	-1.85	0.49	1.39E-05	5.81E-04
TIMP3	192626.55	-1.86	0.40	2.88E-07	3.24E-05
NTN4	9137.09	-1.86	0.72	7.31E-04	1.05E-02
DGKG	1050.63	-1.87	1.01	3.46E-03	3.09E-02
ABCC2	391.87	-1.87	0.95	2.74E-03	2.65E-02
BAG3	15542.97	-1.87	0.33	1.07E-09	2.74E-07
KHK	523.21	-1.87	0.64	2.63E-04	5.17E-03
KLHL26	993.51	-1.87	0.40	2.85E-07	3.24E-05
TMEM56	662.78	-1.87	0.57	8.51E-05	2.22E-03
CAP2	4142.98	-1.88	0.73	6.93E-04	1.02E-02
GLUL	65736.96	-1.88	0.56	6.48E-05	1.86E-03
LEFTY2	1381.96	-1.88	1.36	6.60E-03	4.84E-02
PTGES3L	128.28	-1.88	0.57	7.50E-05	2.06E-03
ELL2	6820.28	-1.89	0.62	1.71E-04	3.76E-03
PDE2A	2073.66	-1.89	1.62	8.16E-03	5.60E-02
MYL9	39536.88	-1.89	0.45	2.53E-06	1.64E-04
PYGM	2182.13	-1.90	0.72	5.79E-04	8.94E-03
ADCYAP1R1	394.73	-1.90	0.87	1.81E-03	1.99E-02
GSN	396161.88	-1.90	0.55	4.34E-05	1.36E-03
CRIM1	4510.05	-1.90	0.48	7.52E-06	3.73E-04
AOC3	28855.17	-1.91	0.54	3.62E-05	1.19E-03
PXDNL	834.36	-1.91	1.58	7.66E-03	5.37E-02
KANK1	6742.90	-1.91	0.24	1.07E-16	1.64E-13
CSRP1	46905.03	-1.91	0.44	1.34E-06	1.02E-04
BEND7	503.00	-1.92	0.40	1.46E-07	1.78E-05
MCAM	37592.16	-1.92	0.94	2.41E-03	2.44E-02
ADAMTSL4	10416.63	-1.93	0.67	2.97E-04	5.63E-03
FHL5	5585.53	-1.93	0.98	2.79E-03	2.68E-02
GABRD	385.94	-1.93	1.29	5.69E-03	4.37E-02
SPRY2	9205.87	-1.94	0.43	4.41E-07	4.25E-05
CYP4X1	1103.60	-1.94	0.99	2.81E-03	2.69E-02
PRMT9	2973.07	-1.95	0.57	4.64E-05	1.44E-03
PROSER2	461.33	-1.96	0.32	5.70E-11	2.08E-08
SMOG1	41.82	-1.96	1.93	8.25E-03	5.64E-02
SLC25A25	3601.98	-1.96	0.40	1.07E-07	1.38E-05
GLDN	1193.03	-1.96	1.12	3.98E-03	3.43E-02
MB	70.79	-1.96	0.89	1.64E-03	1.86E-02
WTIP	2358.42	-1.96	0.58	5.76E-05	1.70E-03
ADAMTSL3	3876.07	-1.97	0.71	3.92E-04	6.85E-03
NTRK3	2153.08	-1.97	0.72	4.26E-04	7.23E-03
HEYL	8735.46	-1.97	0.46	1.46E-06	1.08E-04
CTNNA3	294.01	-1.97	1.06	3.25E-03	2.96E-02
ATP1B2	2836.55	-1.97	0.91	1.82E-03	1.99E-02
RPS6KL1	88.00	-1.98	0.74	5.39E-04	8.47E-03
NTRK2	19937.30	-1.98	1.02	2.98E-03	2.79E-02
TIMP4	681.90	-1.98	0.28	2.80E-13	2.86E-10
ADRA1A	289.45	-1.98	1.13	3.87E-03	3.36E-02
NET1	18447.82	-1.98	0.60	8.27E-05	2.19E-03
TRIM36	105.32	-1.99	1.34	5.66E-03	4.35E-02
PROB1	374.58	-1.99	0.47	2.02E-06	1.39E-04
KCNT1	140.83	-1.99	1.31	5.43E-03	4.25E-02
OXC2	82.93	-2.00	0.63	1.10E-04	2.69E-03
NTRK1	303.02	-2.01	0.86	1.23E-03	1.52E-02
CHST7	1944.84	-2.01	0.92	1.77E-03	1.96E-02
FMO2	5068.50	-2.01	0.84	1.12E-03	1.42E-02
HES6	517.38	-2.02	0.71	3.13E-04	5.85E-03
NAP1L2	102.56	-2.02	1.05	2.88E-03	2.73E-02
ITGA3	2593.62	-2.03	0.75	5.17E-04	8.21E-03
OR51E2	473.70	-2.03	1.28	4.92E-03	3.97E-02
ZC3H12A	3209.63	-2.03	0.59	4.24E-05	1.35E-03
PIGA	1426.44	-2.04	0.58	3.59E-05	1.19E-03
ANGPT4	2369.25	-2.05	1.79	7.75E-03	5.41E-02
SLC2A4	289.85	-2.06	0.84	9.60E-04	1.27E-02
FSTL4	17.97	-2.06	1.12	3.08E-03	2.86E-02
PLD5	74.77	-2.06	2.62	8.63E-03	5.80E-02
ITPRIPL1	447.69	-2.06	0.90	1.35E-03	1.62E-02
ITPK1	4686.87	-2.07	0.50	2.78E-06	1.75E-04
GSTT2	23.75	-2.07	0.85	9.00E-04	1.22E-02
TSPAN19	8.53	-2.08	0.92	1.31E-03	1.58E-02
CFAP74	120.59	-2.10	0.88	1.10E-03	1.41E-02
SEMA3E	441.22	-2.10	0.92	1.36E-03	1.64E-02
AFOD	53307.12	-2.10	1.18	3.66E-03	3.23E-02
SCN3A	627.50	-2.11	2.16	8.28E-03	5.64E-02
CAND2	1326.64	-2.11	0.59	2.71E-05	9.68E-04
NFASC	3550.77	-2.13	0.64	6.92E-05	1.96E-03
MT1E	10335.16	-2.14	0.54	6.72E-06	3.39E-04
CHST8	148.64	-2.14	1.64	6.56E-03	4.83E-02
ADIRF	29495.60	-2.14	0.73	2.44E-04	4.89E-03
FAM178B	99.57	-2.14	0.75	3.11E-04	5.83E-03
GNAZ	78.38	-2.16	0.52	2.59E-06	1.66E-04
CDC42EP4	8566.79	-2.16	0.47	3.41E-07	3.56E-05
MGLL	10791.98	-2.18	0.74	2.43E-04	4.88E-03

CABP1	295.51	-2.18	1.04	1.99E-03	2.13E-02
SCUBE3	455.05	-2.19	0.68	1.01E-04	2.53E-03
PTTG2	22.32	-2.19	2.64	8.41E-03	5.69E-02
ANGPTL5	795.92	-2.20	1.58	6.01E-03	4.55E-02
NKD1	710.28	-2.20	0.79	3.85E-04	6.76E-03
TAGLN	94742.85	-2.20	0.63	4.21E-05	1.35E-03
CNN1	15231.53	-2.20	0.59	1.73E-05	6.83E-04
ADCY1	653.09	-2.21	0.81	4.45E-04	7.46E-03
KIAA1671	2188.40	-2.21	0.41	5.04E-09	1.12E-06
SUSD5	4899.90	-2.22	0.80	4.12E-04	7.08E-03
CLMN	5914.40	-2.22	0.74	2.18E-04	4.48E-03
SNTB1	2352.50	-2.22	0.37	1.72E-10	5.51E-08
ACVR1C	55.73	-2.23	0.95	1.11E-03	1.42E-02
NOX4	1479.93	-2.23	0.77	2.80E-04	5.39E-03
BCAM	879.89	-2.24	0.68	7.29E-05	2.03E-03
WDR38	8.90	-2.24	1.09	2.04E-03	2.16E-02
CCDC69	2179.03	-2.24	0.51	9.30E-07	7.47E-05
SYPL2	555.99	-2.25	0.59	1.12E-05	4.96E-04
CYR61	92834.99	-2.26	0.37	6.90E-11	2.46E-08
LIFR	5233.03	-2.26	0.45	4.69E-08	6.86E-06
TRABD2B	465.10	-2.27	0.59	9.96E-06	4.55E-04
ADGRG2	1424.36	-2.28	0.83	4.19E-04	7.17E-03
SLC6A16	136.31	-2.29	0.86	5.45E-04	8.54E-03
NOL3	1990.13	-2.29	0.55	2.91E-06	1.80E-04
CCL8	1348.81	-2.30	1.34	3.95E-03	3.41E-02
SLPI	3288.11	-2.30	1.06	1.79E-03	1.97E-02
PPP1R15A	61690.21	-2.30	0.55	2.38E-06	1.56E-04
ABTB2	732.86	-2.31	0.77	2.11E-04	4.40E-03
LBH	14797.85	-2.31	0.66	3.56E-05	1.19E-03
KBTBD13	67.52	-2.32	1.20	2.73E-03	2.64E-02
DBNDD1	191.75	-2.33	0.95	8.83E-04	1.20E-02
PTPA43	9623.31	-2.33	0.79	2.43E-04	4.88E-03
ZNF331	10289.15	-2.33	0.70	6.81E-05	1.94E-03
SORT1	5715.36	-2.34	0.74	1.24E-04	2.90E-03
DMPK	7520.88	-2.34	0.64	2.17E-05	8.05E-04
FABP4	6547.66	-2.34	0.90	6.11E-04	9.19E-03
RGL3	648.02	-2.34	0.78	2.09E-04	4.38E-03
SERPINI1	3764.76	-2.35	0.73	9.82E-05	2.49E-03
ACKR2	375.02	-2.35	1.04	1.40E-03	1.66E-02
CKMT2	856.21	-2.35	1.05	1.49E-03	1.74E-02
SGSM1	306.62	-2.35	0.85	4.02E-04	6.96E-03
NRIP2	2896.43	-2.36	0.82	2.95E-04	5.61E-03
ATF3	15031.33	-2.36	0.72	8.04E-05	2.16E-03
AGTR2	118.22	-2.36	2.00	6.74E-03	4.91E-02
HRC	1304.26	-2.36	0.98	1.00E-03	1.32E-02
AKAP1	5965.26	-2.37	0.58	3.92E-06	2.30E-04
MEF2B	684.42	-2.37	0.89	5.33E-04	8.41E-03
UAP1	25327.27	-2.37	0.63	1.37E-05	5.74E-04
ANKK1	6.65	-2.38	1.42	4.10E-03	3.50E-02
CCDC85A	630.19	-2.39	0.56	1.82E-06	1.27E-04
MYOM1	2627.71	-2.39	0.72	6.98E-05	1.97E-03
LDHC	21.19	-2.40	1.40	3.70E-03	3.26E-02
DNAJC6	275.18	-2.40	0.70	5.24E-05	1.58E-03
HUSTB	33.16	-2.42	0.56	1.41E-06	1.05E-04
MPP7	1302.80	-2.43	0.71	5.11E-05	1.55E-03
ADAMTS1	75681.91	-2.43	0.42	6.78E-10	1.79E-07
PER1	9349.85	-2.44	0.96	7.59E-04	1.07E-02
HOXD10	27.41	-2.44	1.89	5.98E-03	4.53E-02
MRGPRE	46.45	-2.45	1.01	8.96E-04	1.22E-02
TTPA	20.20	-2.46	1.15	1.77E-03	1.96E-02
PPP1R14A	4728.26	-2.46	0.81	1.87E-04	4.07E-03
TMEM52	58.20	-2.46	0.96	6.70E-04	9.94E-03
SMCO3	34.58	-2.47	0.46	9.47E-09	1.77E-06
NPY5R	177.89	-2.47	1.97	6.34E-03	4.71E-02
RANBP3L	354.06	-2.48	0.76	9.17E-05	2.34E-03
ARTN	273.97	-2.48	0.75	7.20E-05	2.01E-03
LDB3	1325.68	-2.49	0.93	5.13E-04	8.16E-03
STUM	972.70	-2.49	0.86	2.79E-04	5.39E-03
RXRG	412.54	-2.49	0.91	4.37E-04	7.36E-03
COCH	509.32	-2.50	0.50	5.07E-08	7.34E-06
IGSF9B	146.87	-2.50	0.79	1.22E-04	2.87E-03
SRL	1060.84	-2.51	1.05	1.07E-03	1.38E-02
NTF3	809.30	-2.52	1.19	1.92E-03	2.08E-02
JUNB	210392.23	-2.52	0.49	2.16E-08	3.64E-06
ITPKC	5773.75	-2.54	0.59	1.54E-06	1.13E-04
ADGRG4	43.86	-2.54	0.91	3.66E-04	6.53E-03
ZBTB7C	2023.58	-2.54	0.68	1.49E-05	6.09E-04
DMTN	486.88	-2.55	0.81	1.20E-04	2.85E-03
ZFAND5	81654.16	-2.55	0.71	2.60E-05	9.38E-04
ADRA1D	318.11	-2.55	0.83	1.56E-04	3.52E-03
PHLDA2	3749.19	-2.58	0.55	3.13E-07	3.41E-05
SAA2	22.17	-2.58	1.01	6.94E-04	1.02E-02
KLF2	23929.39	-2.58	0.70	2.08E-05	7.83E-04
ADRA2A	9919.30	-2.59	0.67	9.07E-06	4.27E-04
APOLD1	29743.05	-2.59	1.41	3.30E-03	3.00E-02
PITX1	515.72	-2.59	1.09	1.09E-03	1.40E-02
SNGG	4553.70	-2.59	0.89	2.59E-04	5.12E-03
PERM1	121.51	-2.59	0.99	5.74E-04	8.91E-03
HES4	6570.96	-2.60	0.65	5.42E-06	2.89E-04
NPY1R	2722.04	-2.60	0.93	3.80E-04	6.70E-03
CACNA1H	3681.30	-2.62	0.84	1.35E-04	3.11E-03
HIF3A	265.73	-2.62	0.65	4.46E-06	2.51E-04
WSCD2	1026.28	-2.64	0.78	5.58E-05	1.66E-03
HS3ST2	357.03	-2.65	0.94	3.58E-04	6.43E-03
SFRP5	57.47	-2.66	2.49	6.73E-03	4.90E-02
CASQ2	8318.75	-2.67	1.15	1.27E-03	1.55E-02
CEBPD	68995.24	-2.67	0.60	7.90E-07	6.69E-05
NFIL3	13665.60	-2.70	0.41	5.20E-12	3.19E-09
GPR20	1270.39	-2.70	1.07	7.46E-04	1.07E-02
PLN	14149.90	-2.70	1.00	4.84E-04	7.90E-03
DPF3	168.17	-2.71	0.62	1.26E-06	9.73E-05
GRID2IP	8.05	-2.71	1.96	4.96E-03	3.98E-02

TSPAN8	698.21	-2.71	1.04	6.24E-04	9.33E-03
DNER	409.34	-2.72	1.22	1.51E-03	1.76E-02
MRAP2	340.40	-2.72	1.15	1.07E-03	1.38E-02
SERTAD1	3878.94	-2.72	0.42	6.20E-12	3.66E-09
ATP1A2	1991.00	-2.73	0.98	3.79E-04	6.69E-03
PPP1R9A	310.29	-2.73	0.55	6.44E-08	8.98E-06
SOCS3	60716.32	-2.73	0.70	8.50E-06	4.07E-04
DYNC111	1045.56	-2.73	0.65	2.44E-06	1.59E-04
TACR1	67.47	-2.74	1.31	1.90E-03	2.07E-02
JPH2	2145.41	-2.74	0.66	3.35E-06	2.02E-04
PDE4C	644.23	-2.74	0.81	5.87E-05	1.72E-03
RASD1	39517.58	-2.75	1.29	1.89E-03	2.05E-02
BRSK2	194.75	-2.76	0.97	3.30E-04	6.06E-03
ERRF1	17049.72	-2.77	0.69	5.21E-06	2.79E-04
RIMS3	345.33	-2.78	0.85	9.04E-05	2.31E-03
MYO3A	262.96	-2.79	0.64	1.25E-06	9.68E-05
LMOD1	12222.37	-2.79	0.76	2.20E-05	8.14E-04
IRF1	13852.23	-2.79	0.61	5.32E-07	4.76E-05
CSDC2	3067.68	-2.79	0.84	7.36E-05	2.04E-03
MAATS1	146.33	-2.80	0.63	7.66E-07	6.53E-05
KCNAB1	8391.14	-2.81	0.41	5.20E-13	4.43E-10
MYOZ1	642.58	-2.83	1.04	4.56E-04	7.60E-03
DRD1	636.98	-2.84	2.99	6.98E-03	5.03E-02
CASZ1	336.77	-2.84	0.62	4.56E-07	4.35E-05
EFHD1	14467.81	-2.85	0.53	7.83E-09	1.56E-06
KCNMB1	2571.63	-2.86	0.84	5.73E-05	1.69E-03
FOSL1	1434.34	-2.87	0.81	3.21E-05	1.11E-03
XIRP1	94.52	-2.90	1.50	2.54E-03	2.54E-02
DNAJC27	1923.83	-2.90	0.47	5.18E-11	1.97E-08
ASB2	779.75	-2.91	0.77	1.37E-05	5.74E-04
SLAIN1	327.17	-2.92	0.84	3.95E-05	1.27E-03
ANO3	140.21	-2.98	2.12	5.08E-03	4.06E-02
GREB1L	493.23	-2.98	0.79	1.30E-05	5.52E-04
FOXO2	2146.63	-2.98	0.94	1.18E-04	2.80E-03
EGR1	129789.44	-2.99	0.55	5.52E-09	1.21E-06
SORBS1	5982.13	-2.99	0.60	6.03E-08	8.49E-06
CX3CL1	3095.19	-2.99	0.80	1.77E-05	6.96E-04
MDGA2	31.52	-2.99	1.12	5.01E-04	8.07E-03
NRGN	872.11	-3.00	0.78	9.92E-06	4.55E-04
DACH2	104.45	-3.01	2.45	5.78E-03	4.41E-02
RBPMS2	3003.07	-3.03	0.65	2.96E-07	3.32E-05
HMGCLL1	451.76	-3.04	0.75	4.05E-06	2.34E-04
TC2N	2378.36	-3.04	1.08	3.52E-04	6.37E-03
MT2A	51186.83	-3.05	0.55	2.63E-09	6.11E-07
RERGL	8167.10	-3.05	1.48	2.09E-03	2.20E-02
PRDM16	823.52	-3.06	1.11	4.09E-04	7.04E-03
REEP1	1619.51	-3.07	0.80	1.14E-05	5.00E-04
SYT1	210.41	-3.07	1.04	2.39E-04	4.82E-03
ACTC1	1029.15	-3.09	1.10	3.53E-04	6.38E-03
AJAP1	605.11	-3.10	0.72	1.78E-06	1.26E-04
KCNO4	511.14	-3.10	0.77	4.71E-06	2.59E-04
CLDN4	346.36	-3.12	1.00	1.47E-04	3.34E-03
C2orf40	2657.32	-3.12	0.88	3.26E-05	1.11E-03
HAS1	9405.39	-3.13	1.05	2.26E-04	4.60E-03
ZFP36	286522.75	-3.14	0.58	8.14E-09	1.58E-06
ADAMTS8	508.83	-3.14	0.77	3.72E-06	2.21E-04
MYC	39997.88	-3.15	0.49	1.46E-11	6.80E-09
NMNAT2	951.73	-3.15	0.83	1.20E-05	5.22E-04
CCDC3	23450.44	-3.16	0.97	9.31E-05	2.37E-03
USP2	833.39	-3.18	0.40	2.30E-16	3.21E-13
KCNK3	1059.80	-3.19	0.89	2.72E-05	9.68E-04
KCNJ3	28.64	-3.24	0.87	1.43E-05	5.89E-04
ADCY5	2379.84	-3.25	0.83	8.07E-06	3.94E-04
TRPV1	1675.05	-3.25	0.54	1.41E-10	4.69E-08
AVPR1A	12789.85	-3.28	0.95	4.91E-05	1.50E-03
VIT	3772.03	-3.29	1.42	1.24E-03	1.53E-02
SYNM	2959.14	-3.31	0.70	1.87E-07	2.22E-05
SGCA	2434.82	-3.32	1.04	1.13E-04	2.73E-03
CPXM2	12394.15	-3.33	0.75	9.27E-07	7.47E-05
CSRN1P1	28760.89	-3.33	0.66	4.12E-08	6.09E-06
RRAD	8328.23	-3.34	0.82	4.54E-06	2.52E-04
SLC16A12	39.92	-3.34	0.83	4.81E-06	2.63E-04
DUSP8	2153.98	-3.35	0.56	2.41E-10	7.54E-08
KLHL30	417.94	-3.37	0.78	1.42E-06	1.05E-04
PCOLCE2	18545.93	-3.37	0.86	7.61E-06	3.76E-04
KLF15	226.44	-3.38	0.81	2.98E-06	1.83E-04
CDKN1A	88140.45	-3.39	0.54	4.13E-11	1.71E-08
KBTBD12	243.28	-3.41	0.69	6.99E-08	9.33E-06
GDA	58.74	-3.41	1.02	6.76E-05	1.93E-03
SBSPPON	2480.37	-3.44	0.75	4.96E-07	4.56E-05
ART3	197.91	-3.45	0.75	3.62E-07	3.68E-05
SCN4A	188.69	-3.48	0.79	9.64E-07	7.66E-05
ADRB1	192.26	-3.49	1.68	1.91E-03	2.07E-02
ACADL	402.43	-3.50	1.15	1.88E-04	4.07E-03
FRMD1	75.33	-3.52	0.84	2.62E-06	1.67E-04
MYOCD	1516.99	-3.52	1.07	8.49E-05	2.22E-03
EPHA5	195.49	-3.54	1.17	2.00E-04	4.26E-03
CELA2B	6.48	-3.54	1.22	2.27E-04	4.61E-03
MYH11	125221.98	-3.57	1.00	3.25E-05	1.11E-03
FAM189A2	667.46	-3.60	0.81	8.37E-07	6.98E-05
GADD45B	76038.31	-3.60	0.59	1.03E-10	3.51E-08
FOXO1	1679.56	-3.62	0.61	3.87E-10	1.10E-07
GPX3	80743.42	-3.66	0.38	8.06E-23	1.24E-18
RGR	10.13	-3.70	0.99	1.59E-05	6.39E-04
CCL21	1680.38	-3.71	1.23	1.99E-04	4.25E-03
ITIH3	1654.40	-3.71	1.16	1.11E-04	2.70E-03
SORBS2	27041.88	-3.72	0.87	1.82E-06	1.27E-04
RGS6	1419.02	-3.72	0.95	8.27E-06	3.98E-04
ENTPD3	4465.91	-3.72	0.93	5.85E-06	3.03E-04
DEFB1	179.48	-3.74	1.62	1.21E-03	1.50E-02
LGR6	1127.92	-3.77	1.08	4.26E-05	1.35E-03
PIK3C2G	122.02	-3.77	1.77	1.67E-03	1.88E-02

TMEM179	5.27	-3.80	1.94	1.30E-03	1.58E-02
TNNC1	72.53	-3.86	0.99	8.74E-06	4.14E-04
CCL2	39711.81	-3.87	0.74	2.05E-08	3.50E-06
EVX1	28.90	-3.87	1.93	2.16E-03	2.25E-02
BTC	184.75	-3.89	0.81	1.44E-07	1.77E-05
LRRC10B	1543.68	-3.89	0.66	4.86E-10	1.36E-07
RGS16	16091.86	-3.93	0.83	2.43E-07	2.82E-05
SPRR2E	104.17	-3.95	1.47	4.85E-04	7.90E-03
KCNA5	3751.26	-3.98	1.06	1.78E-05	6.98E-04
AQP7	414.25	-3.98	0.85	3.11E-07	3.41E-05
MYH14	112.53	-4.03	1.25	1.02E-04	2.55E-03
ABRA	105.73	-4.04	1.14	3.73E-05	1.21E-03
DKK1	2512.65	-4.05	1.54	5.94E-04	9.06E-03
C11orf53	84.71	-4.08	2.33	2.98E-03	2.79E-02
MT1X	19955.58	-4.11	0.60	1.13E-12	8.69E-10
LSMEM2	415.92	-4.11	0.91	7.00E-07	6.10E-05
MAFF	12734.51	-4.13	0.82	6.71E-08	9.12E-06
PCP4L1	260.80	-4.13	1.55	5.28E-04	8.36E-03
GPM6A	259.39	-4.17	0.81	3.18E-08	5.02E-06
ADRA2C	382.37	-4.17	0.81	2.69E-08	4.34E-06
ZBTB16	10941.97	-4.32	0.99	1.38E-06	1.04E-04
SERPINA3	1835.90	-4.33	0.81	9.39E-09	1.77E-06
BMP5	708.55	-4.33	1.59	4.68E-04	7.73E-03
HBG2	23.12	-4.40	1.74	7.57E-04	1.07E-02
NR4A1	117239.70	-4.44	0.88	6.63E-08	9.12E-06
SLC19A2	6993.39	-4.45	0.51	2.42E-19	1.24E-15
C11orf96	7724.62	-4.46	0.53	9.89E-18	2.53E-14
BTG2	91008.99	-4.53	0.81	2.91E-09	6.66E-07
RXFP2	32.94	-4.54	1.33	4.46E-05	1.39E-03
PRG4	9624.19	-4.60	1.09	3.00E-06	1.84E-04
RBM24	2364.05	-4.61	0.81	1.79E-09	4.37E-07
IL6	12258.25	-4.80	0.92	2.59E-08	4.23E-06
PGPEP1L	18.66	-4.82	1.58	2.13E-04	4.42E-03
MT1M	11638.78	-4.83	0.55	1.49E-19	1.14E-15
CCK	37.51	-4.94	1.86	5.60E-04	8.73E-03
OPCML	104.32	-4.96	1.34	2.04E-05	7.78E-04
LGR5	711.63	-5.06	2.26	1.31E-03	1.59E-02
MYOC	5581.10	-5.21	1.33	1.09E-05	4.91E-04
PPP1R1A	720.16	-5.21	0.96	8.49E-09	1.63E-06
PCDH10	528.39	-5.33	0.76	3.83E-13	3.46E-10
CSF3	180.04	-5.39	1.23	1.41E-06	1.05E-04
KLHL40	16.13	-5.46	1.48	2.48E-05	9.06E-04
PROM1	35.67	-5.48	1.57	4.03E-05	1.30E-03
CYP4B1	1217.57	-5.59	1.09	4.13E-08	6.09E-06
TFF3	408.71	-5.69	1.57	3.22E-05	1.11E-03
MT1A	9262.22	-5.99	0.88	1.79E-12	1.31E-09
ALKAL2	761.60	-6.00	0.81	3.18E-14	3.76E-11
GPR182	29.10	-6.46	1.66	7.75E-06	3.81E-04
NMRK2	27.61	-6.71	1.67	7.36E-06	3.67E-04
CAV3	128.75	-6.89	1.55	1.11E-06	8.67E-05
SLC6A17	16.66	-7.16	1.80	4.32E-07	4.22E-05
SAA1	202.90	-7.77	1.41	6.51E-09	1.35E-06