

Supplementary I: Assessment of differentially expressed genes in early and late passage human primary endothelial cells.

The identity of each genes and the fold change expression of each in early passage (PD = 36) and late passage cells (PD = 84) respectively are given (n = 3 biological replicates), along with the raw p value and the FDR adjusted p value.

Gene Symbol	Fold Change	FDR P-val	P-val
FAM20A	82.28	2.34E-08	1.72E-13
LOC100507065; LOC105369187; RP11-230G5.2	141.06	5.34E-08	7.86E-13
HLA-DRB1	29.08	3.43E-07	7.57E-12
SNCA	-9.4	7.36E-07	2.17E-11
RP11-463J10.3	127.25	1.37E-06	6.04E-11
TBX2	31.84	1.48E-06	7.65E-11
HOXA10-AS	7.14	1.84E-06	1.08E-10
RP11-597D13.9	16.48	1.07E-05	1.19E-09
HLA-DPB1	15.54	1.50E-05	2.19E-09
GNG2	29	1.50E-05	2.23E-09
RP11-1152H15.1	-36.74	1.50E-05	2.09E-09
USP32P1	4.91	2.92E-05	4.95E-09
TFDP2	36.78	3.51E-05	6.21E-09
ADAMTS14	3.53	4.10E-05	7.56E-09
RPL23AP2	-4.04	4.10E-05	7.85E-09
RP4-791M13.3	42.4	5.50E-05	1.13E-08
EDRF1	15.57	5.86E-05	1.25E-08
RP11-392O17.1	103.65	6.07E-05	1.39E-08
LVRN	53.3	6.64E-05	1.57E-08
TCF21	30.47	8.05E-05	1.96E-08
TP53TG3D	9.99	8.58E-05	2.15E-08
SFRP2	6.69	8.76E-05	2.39E-08
HLA-DPA1	918.44	8.76E-05	2.45E-08
CTD-2353F22.2	16.56	9.92E-05	2.85E-08
CFAP126	14.36	0.0001	3.10E-08
GSTM1	36.93	0.0001	3.44E-08
ZKSCAN1	10.7	0.0001	3.36E-08
TARSL2	5.11	0.0001	3.36E-08
GALNT15	4.82	0.0001	4.31E-08
GFPT2	5.85	0.0001	4.34E-08
SLC4A7	10.18	0.0001	4.67E-08
GUSBP2	30.5	0.0001	4.84E-08
TP53TG3B; TP53TG3; TP53TG3C	6.48	0.0002	6.78E-08
CTD-2139B15.2	-6.2	0.0002	8.55E-08

MAPK10	5.98	0.0002	8.97E-08
MT1DP	-9.12	0.0002	9.05E-08
SOGA3; KIAA0408	18.09	0.0002	9.83E-08
XPOT	12.89	0.0002	9.79E-08
CCL23	-272.33	0.0002	9.79E-08
ANKRD13C	8.28	0.0002	1.18E-07
MIER1	6.71	0.0003	1.24E-07
SMOC1	19.71	0.0003	1.50E-07
MTND4LP30; MTND4P12	-8.49	0.0003	1.53E-07
CARNMT1	24.41	0.0003	1.56E-07
GRK4	6.24	0.0003	1.77E-07
TP53TG3C	5.02	0.0003	2.03E-07
SIM1	7.64	0.0003	2.09E-07
KB-1517D11.4	8.54	0.0003	2.12E-07
FBXO17	6.31	0.0004	2.29E-07
SDHAF3	8.54	0.0004	2.38E-07
MT1A	-3.54	0.0004	2.42E-07
RPL23AP57	-10.58	0.0004	2.46E-07
RASA2	6.33	0.0004	2.71E-07
SCUBE3	9.59	0.0004	2.73E-07
NPIPAS	7.64	0.0004	2.69E-07
RP11-999E24.3	6.5	0.0004	3.13E-07
HGF	8.2	0.0004	3.40E-07
FOCAD	13.14	0.0004	3.44E-07
CCT4	3.72	0.0005	3.57E-07
IL6	-26	0.0005	3.60E-07
AHSA2	10.04	0.0005	3.64E-07
SMYD3	25.05	0.0005	3.68E-07
MRE11A	3.7	0.0005	3.79E-07
BICC1	100.19	0.0005	3.93E-07
USP32P2; FAM106A; CCDC144B	6.93	0.0005	3.98E-07
ADAMTS12	232.17	0.0006	4.70E-07
USP24	21.27	0.0006	5.02E-07
BASP1	-16.53	0.0006	4.90E-07
ZMYND11	7.54	0.0006	5.01E-07
XPO6	6.44	0.0006	4.96E-07
EPS15	22.23	0.0006	5.22E-07
HSPE1P4	-4.22	0.0006	5.19E-07
ARHGAP35	15.09	0.0006	5.27E-07
KCTD10	9.95	0.0006	5.76E-07
SLC27A3	8.33	0.0006	6.28E-07
RPS20P10	-8.77	0.0006	6.36E-07

OGFRL1	9.91	0.0007	6.50E-07
PTGER2	15.52	0.0007	6.49E-07
CHI3L2	9.42	0.0007	6.65E-07
PPP2R3A	10.28	0.0007	7.91E-07
ZBTB24	8.73	0.0007	7.72E-07
IPO8	7.57	0.0007	7.94E-07
EMC4	15.03	0.0007	7.86E-07
MYO1D	11.21	0.0007	7.81E-07
LINC00152	-4.53	0.0008	8.26E-07
MT2P1	-2.58	0.0008	8.64E-07
BIVM	4.46	0.0008	8.64E-07
RP11-423H2.3; RP11-1252I4.2; TCONS_I2_00022658	9.82	0.0008	9.16E-07
VPS13B	31.51	0.0008	9.14E-07
ZNF451	18.82	0.0008	9.58E-07
ZFX	12.23	0.0008	9.56E-07
RP11-597D13.8	36.72	0.0008	9.66E-07
LOC102546298; CTC-367J11.1	7.71	0.0008	9.73E-07
DAGLB	4.9	0.0009	1.01E-06
RP11-399B17.1	10.17	0.0009	1.04E-06
SCAF8; TIAM2	13.04	0.0009	1.04E-06
HSPE1P7	-6.71	0.0009	1.02E-06
HSPE1P8	-8.25	0.0009	1.07E-06
NBPF19	42.54	0.0009	1.11E-06
TRIM4	6.04	0.0009	1.11E-06
IKZF5	7.67	0.0009	1.11E-06
MIR544A	7.29	0.0009	1.09E-06
MAP3K7	10.59	0.0009	1.17E-06
C10orf76	4.01	0.0009	1.16E-06
MAP2K5	13.41	0.0009	1.16E-06
MLH3	7.25	0.0009	1.20E-06
CD74	58.32	0.0009	1.22E-06
HLA-DQA1	3.56	0.0009	1.23E-06
CDC42BPB	5.99	0.001	1.27E-06
MED13L	8.25	0.001	1.37E-06
ABCA9	24.56	0.001	1.34E-06
ZNF510	6.58	0.001	1.41E-06
ND2	-7.7	0.001	1.40E-06
TBX20	3.83	0.001	1.43E-06
PARP15	2.73	0.001	1.48E-06
SMA4	6.58	0.001	1.48E-06
RP11-30J20.1	3.3	0.001	1.48E-06
DGKI	3.95	0.001	1.55E-06

USP34	12.2	0.0011	1.58E-06
RHOA	3.73	0.0011	1.59E-06
RP11-448A19.1	2.86	0.0011	1.61E-06
LINC00556; RP11-264J4.9	-2.6	0.0011	1.60E-06
ATP6AP1L	6.48	0.0011	1.64E-06
GOLGA8O	15.5	0.0011	1.65E-06
PI4KA	23.3	0.0011	1.66E-06
EIF4ENIF1	4.76	0.0011	1.65E-06
AHR	23.7	0.0011	1.75E-06
RP11-318M2.3	55.88	0.0011	1.80E-06
SEMA3A	12.38	0.0011	1.84E-06
RPL23AP63	-4.33	0.0011	1.83E-06
XXbac-BPG55C20.7	5.73	0.0012	1.88E-06
UBE2D3P3	5.76	0.0012	1.89E-06
ZNF236	3.64	0.0012	1.94E-06
FAM172A; POU5F2; MIR2277	8.69	0.0012	1.99E-06
NPIPA3	5.75	0.0012	2.06E-06
USO1	13.72	0.0012	2.11E-06
RPL34P1	-4.74	0.0013	2.13E-06
KIF3B	11.84	0.0013	2.13E-06
RP1-55C23.7	-2.88	0.0013	2.14E-06
TCEANC2; MIR4781	4.54	0.0013	2.33E-06
HLA-DRA	1153.75	0.0014	2.43E-06
GTPBP10	5.32	0.0014	2.45E-06
RP11-394O4.6	6.85	0.0014	2.47E-06
CPXM2	19.74	0.0014	2.48E-06
SHQ1	6.48	0.0014	2.50E-06
SBF2-AS1	15.04	0.0014	2.55E-06
KSR2	-14.42	0.0014	2.55E-06
NXT2	8.77	0.0014	2.58E-06
PPM1K	11.14	0.0014	2.60E-06
PRDM2	8.58	0.0015	2.67E-06
CPA3	-21.08	0.0015	2.72E-06
PDHX	6.17	0.0015	2.76E-06
UBA52P3	-3.17	0.0015	2.79E-06
CTD-3247H4.2	74.14	0.0016	3.01E-06
ZNF189	5.35	0.0016	3.03E-06
AC026150.8	8.32	0.0016	3.06E-06
FBN2	18.03	0.0016	3.19E-06
RNF8	-6.23	0.0016	3.14E-06
RP11-624G17.3	2.71	0.0016	3.16E-06
ABHD2	16.55	0.0016	3.21E-06

DLEU2_2	9.05	0.0016	3.30E-06
PSMA3P	-2.93	0.0016	3.31E-06
DAG1	12.95	0.0016	3.39E-06
NPR3	38.04	0.0016	3.37E-06
NFX1	14.87	0.0016	3.43E-06
RAD23B	25.45	0.0016	3.42E-06
MDM4	14.08	0.0017	3.55E-06
ZNF664	6.75	0.0017	3.58E-06
SPAG9	8.07	0.0017	3.59E-06
CREBZF	9.64	0.0017	3.61E-06
CNOT7	3.66	0.0017	3.64E-06
STEAP2	225.16	0.0017	3.65E-06
UBD	-352.63	0.0017	3.74E-06
RP4-791M13.4	11.58	0.0017	3.76E-06
ASPN	308.07	0.0017	3.77E-06
HLA-DQB1	3.39	0.0018	3.99E-06
EBF1	66.62	0.0018	4.02E-06
TMEM97	29.3	0.0018	4.04E-06
LINC01197	3.84	0.0018	4.14E-06
FAM13B	10.55	0.0018	4.17E-06
GUSBP3; SMA4	20.55	0.0018	4.16E-06
ERMARD	4.98	0.0018	4.20E-06
RPL23AP75	-3.14	0.0018	4.37E-06
RP11-181K3.4	3.13	0.0019	4.43E-06
RPL12P47	-5.75	0.0019	4.46E-06
RPS17P1	-2.15	0.0019	4.42E-06
RP11-331F9.3	5.49	0.0019	4.48E-06
NAA35	3.78	0.0019	4.46E-06
PLXDC1	4.22	0.0019	4.51E-06
MIR4435-2HG	-3.17	0.0019	4.58E-06
RP11-624L4.1	-14.86	0.0019	4.59E-06
KCNIP3	5.27	0.0019	4.70E-06
AKR1E2	6.44	0.0019	4.74E-06
PLK2	-106.3	0.002	4.87E-06
EYA4	20.54	0.002	4.90E-06
INTS4P2	4.5	0.002	5.05E-06
SMAP2	12.83	0.002	5.08E-06
GATB	7.74	0.002	5.09E-06
RP11-556O5.6	9.81	0.002	5.10E-06
NBPF1	20.66	0.002	5.15E-06
GTF2I	3.93	0.002	5.15E-06
GOLGA8N	23.19	0.002	5.22E-06

HMCN1	8.55	0.002	5.25E-06
PCDHB7	4.52	0.002	5.29E-06
CD40	3.61	0.0021	5.37E-06
KIFAP3	17.34	0.0021	5.57E-06
SMA4; LOC100170939	7.34	0.0021	5.59E-06
ITPRIPL2	2	0.0021	5.60E-06
COL4A3BP	30.64	0.0022	5.73E-06
TMEM168	8.38	0.0022	5.72E-06
ZCCHC14	5.82	0.0022	5.74E-06
C2CD5	17.7	0.0022	5.93E-06
GNA12	6.58	0.0022	5.99E-06
SMARCA2	27.57	0.0022	5.99E-06
RPS18P9	-5.31	0.0022	6.05E-06
PNRC2	6.78	0.0022	6.15E-06
VPS39	18.37	0.0022	6.14E-06
ADCY9	7.88	0.0022	6.12E-06
RTN4RL2	2.11	0.0023	6.30E-06
NPIPA2	4.67	0.0023	6.30E-06
KDM3B	3.86	0.0024	6.67E-06
KAT6B	10.91	0.0024	6.73E-06
RALGPS2	64.87	0.0024	6.76E-06
UGDH	16.65	0.0024	6.81E-06
TCEANC	15.43	0.0025	7.01E-06
COX7A2P2	-3.3	0.0025	7.32E-06
LOC101927365; RP11-98I9.4	3.39	0.0025	7.32E-06
WDR61	3.78	0.0025	7.37E-06
HOXB7	-9.08	0.0026	7.47E-06
BORCS5	4.05	0.0026	7.51E-06
GMFB	37.58	0.0026	7.55E-06
RNU7-119P	4.44	0.0026	7.59E-06
DLEU2_6	11.46	0.0026	7.66E-06
TRDMT1	5.04	0.0026	7.81E-06
SIRT1	6.55	0.0026	7.85E-06
TAF13	-5.11	0.0026	7.98E-06
MTA3	4.25	0.0027	8.05E-06
TRIM23	5.91	0.0027	8.12E-06
RIT1	-6.92	0.0027	8.36E-06
SETMAR	3.52	0.0027	8.46E-06
HERC4	4.36	0.0027	8.46E-06
TBCE	5.12	0.0027	8.48E-06
RP11-332H17.1	3.53	0.0028	8.71E-06
CC2D2A	13.9	0.0028	8.73E-06

SYTL2	180.1	0.0028	8.71E-06
CBLB	13.54	0.0028	8.80E-06
SCRG1	3.64	0.0028	8.80E-06
SBF2	7.69	0.0028	8.89E-06
ZHX1	6.53	0.0028	8.96E-06
RMND1	19.28	0.0028	9.07E-06
RP11-172H24.4	-2.79	0.0028	9.06E-06
CBY1	9.21	0.0028	8.99E-06
MTCO3P12; MTATP8P1; MTATP6P1	-6.12	0.0028	9.12E-06
GSN-AS1	3.91	0.0029	9.32E-06
ZNF567	5.08	0.0029	9.33E-06
DFNB59	6.37	0.0029	9.36E-06
NBPF8	5.69	0.0029	9.51E-06
EFR3A	14.71	0.0029	9.51E-06
ACIN1	6.89	0.0029	9.54E-06
ZNF337	3.02	0.0029	9.46E-06
SNAP25	11.44	0.0029	9.59E-06
NDUFS1; GCSHP3	5.62	0.0029	9.62E-06
MTCYBP2	-1.87	0.0029	9.66E-06
DCTN4	11.06	0.003	9.92E-06
FAM156B; FAM156A	7.49	0.003	1.01E-05
TMEM144	7.64	0.003	1.02E-05
NPIPA8	4.14	0.003	1.03E-05
LOC100129434; AC007743.1	-12.75	0.003	1.04E-05
MED1	3.43	0.003	1.04E-05
PPP1R10	-3.33	0.0031	1.05E-05
NEK10	30.13	0.0031	1.06E-05
RP11-2E11.9	8.07	0.0031	1.07E-05
ATG14	12.19	0.0031	1.07E-05
MTCO2P2	-6.69	0.0031	1.06E-05
ZNF354C	8.67	0.0031	1.08E-05
CHD1L	8.98	0.0031	1.08E-05
UFL1	6.53	0.0031	1.09E-05
LINC00520	-1019.89	0.0031	1.10E-05
PIEZO2	-17.53	0.0031	1.09E-05
KAT2B	3.46	0.0031	1.11E-05
DGAT2	2.98	0.0031	1.11E-05
HPS3	18.75	0.0032	1.12E-05
SUMO2P7	-2.87	0.0032	1.13E-05
SRSF6	9.91	0.0032	1.13E-05
HSPE1P5	-7.71	0.0032	1.14E-05
RP11-594C13.1	-131.78	0.0032	1.15E-05

TANGO6	23.74	0.0033	1.17E-05
DLEU2_1	5.44	0.0033	1.19E-05
SOCS5	17.99	0.0033	1.18E-05
MT1B; MT1CP	-3.55	0.0033	1.19E-05
HPS4	13.73	0.0033	1.19E-05
TMEM245	7.23	0.0033	1.20E-05
TNPO3	6.69	0.0033	1.21E-05
ADAM9	4.35	0.0033	1.20E-05
CTC1	4.12	0.0033	1.21E-05
OLFML2A	18.51	0.0033	1.21E-05
CTD-3128G10.6	-7.58	0.0033	1.21E-05
ZCCHC11	4.62	0.0033	1.23E-05
LRRC2	5.38	0.0034	1.26E-05
DOCK7	121.39	0.0034	1.29E-05
TMEM209	7.76	0.0035	1.30E-05
PKP4	4.18	0.0035	1.32E-05
HLA-V	2.23	0.0035	1.34E-05
NBPF14	87.27	0.0035	1.35E-05
FAM27E2	-4.09	0.0035	1.36E-05
CHRNA10; NUP98	6.32	0.0035	1.35E-05
CHD4	4.13	0.0035	1.36E-05
MTND4LP1	-7.14	0.0036	1.40E-05
WHAMMP3	-8.71	0.0036	1.40E-05
AC010761.10	-23.56	0.0036	1.41E-05
RPL7P2	-4.88	0.0036	1.41E-05
RP11-6B19.1	7.44	0.0036	1.43E-05
LOC730101	4.62	0.0036	1.43E-05
SRSF5	3.58	0.0037	1.45E-05
CCDC144A	3.92	0.0037	1.46E-05
LINC00260	3.12	0.0037	1.47E-05
PCMTD2	9.86	0.0037	1.47E-05
GUSBP9	6.41	0.0038	1.50E-05
CHURC1-FNTB	4.21	0.0038	1.51E-05
MTCYBP18	-5.77	0.0038	1.53E-05
MTCO2P12	-23.68	0.0038	1.54E-05
TLN1; MIR6852	7.77	0.0038	1.57E-05
NSD1	5.72	0.0039	1.58E-05
CDH2	-19.33	0.0039	1.59E-05
UBE2V1P11	-2.59	0.0039	1.59E-05
SNRPEP7	-5.71	0.0039	1.60E-05
CNOT2	5.06	0.0039	1.61E-05
ALDH1L2	98.52	0.0039	1.61E-05

C14orf37	8.74	0.0039	1.61E-05
MMP10	-85.95	0.0039	1.62E-05
ACSL1	6.67	0.0039	1.63E-05
GNG5P1	-3.59	0.004	1.66E-05
MYOF	60.03	0.004	1.66E-05
RPL18P13	-4.21	0.004	1.66E-05
STARD13	10.2	0.004	1.67E-05
MT1G	-9.1	0.004	1.68E-05
CNTNAP1	3.39	0.004	1.68E-05
NBPF12	20.95	0.004	1.72E-05
MIR3945	-3.65	0.004	1.72E-05
SFSWAP	6.71	0.004	1.72E-05
KIAA1107	6.36	0.0041	1.76E-05
SHPRH	6.03	0.0041	1.76E-05
MEIS3P1	13.9	0.0041	1.78E-05
PHAX	4.7	0.0041	1.78E-05
HLA-A	6.48	0.0042	1.81E-05
MYH10	14.62	0.0042	1.84E-05
NAB1	18.56	0.0042	1.85E-05
RN7SL711P	-2.81	0.0044	1.91E-05
KMT2E	3.34	0.0044	1.95E-05
MT-TK	-9.91	0.0044	1.95E-05
FBXW8	3.88	0.0044	1.96E-05
RPS26P56	-3.62	0.0044	1.97E-05
DDX50	6.35	0.0044	1.97E-05
ARHGAP1	16.83	0.0044	1.98E-05
FAM20B	10.6	0.0044	1.99E-05
RPL34P18	-9.99	0.0044	1.99E-05
PGBD2	2.4	0.0044	1.99E-05
BBS5	6.43	0.0044	2.00E-05
NCOA2	14.13	0.0044	2.00E-05
RP11-80I15.4	-2.75	0.0045	2.00E-05
PKD2	99.49	0.0045	2.01E-05
SLC35A1	3.42	0.0045	2.02E-05
PRSS3	-45.58	0.0045	2.04E-05
KAT6A	7.8	0.0045	2.06E-05
THRB-IT1; AC112217.2	8.62	0.0046	2.10E-05
RCBTB1	8.82	0.0047	2.17E-05
GMPPA	11.71	0.0047	2.18E-05
RPL24P8	-5.02	0.0047	2.19E-05
KIAA1199	84.78	0.0047	2.20E-05
ADAMTS5	555.52	0.0047	2.20E-05

KCTD9	10.1	0.0047	2.21E-05
SNRPGP9	-4.61	0.0048	2.22E-05
HNRNPDL	5.69	0.0048	2.21E-05
FGFR1OP	3.72	0.0048	2.23E-05
LINC00944	3.8	0.0048	2.22E-05
RP11-95P13.2	2.18	0.0048	2.26E-05
ANGPTL1	11.31	0.0048	2.27E-05
TRBV5-5	-3.04	0.0048	2.26E-05
ZNF577	6.59	0.0048	2.26E-05
RP11-380L11.4	2.35	0.0048	2.28E-05
NPIPA7; NPIPA8; PKD1P1	3.38	0.0048	2.29E-05
CTIF; MIR4743	2.66	0.0048	2.28E-05
RPL12P50	-10.75	0.0048	2.30E-05
ADAM12	145.58	0.0048	2.31E-05
HKR1	5.2	0.0048	2.32E-05
RP1-79C4.4	18.97	0.0049	2.39E-05
EFCAB7; DLEU2L	55.41	0.0049	2.41E-05
ZFP69	3.33	0.0049	2.42E-05
GTF2A1	3.96	0.005	2.48E-05
VCPIP1	9.71	0.005	2.49E-05
RP11-399O19.9	5.4	0.005	2.49E-05
OBSL1	4.97	0.0051	2.52E-05
TRIM52	6.44	0.0051	2.53E-05
PPM1B	22.18	0.0051	2.56E-05
LIMD1-AS1	4.62	0.0051	2.58E-05
AHNAK	16.71	0.0051	2.56E-05
ADGRE5	150.95	0.0051	2.56E-05
SBSN	743.36	0.0051	2.58E-05
DCTN1	7.6	0.0051	2.61E-05
DDB1	15.09	0.0051	2.61E-05
DHRS7B	3.01	0.0051	2.60E-05
FAM13A	54.2	0.0051	2.64E-05
RP11-382D12.1	-1.97	0.0052	2.67E-05
MATR3; SNORA74A; SNHG4	6.17	0.0052	2.67E-05
DMXL2	6.33	0.0052	2.68E-05
PCBP2; PCBP2-OT1	4.65	0.0052	2.68E-05
CACNA1C	5.88	0.0052	2.71E-05
VWA8; MIR5006	15.5	0.0052	2.71E-05
SULF2	-164.82	0.0052	2.71E-05
ZNF436	4.67	0.0052	2.73E-05
RPL10P14	-2.37	0.0053	2.74E-05
KCNS2	5.01	0.0053	2.75E-05

ATP13A3	15.7	0.0053	2.76E-05
RP11-804A23.1	-2.96	0.0053	2.78E-05
LOC100506142; RP11-417F21.1; RHOQ	5.35	0.0053	2.79E-05
DSTYK	7.16	0.0053	2.79E-05
UBE2D2	-16.52	0.0053	2.82E-05
RP11-626G11.3	3.46	0.0053	2.82E-05
AAED1	9.4	0.0054	2.84E-05
MT1XP1	-4.86	0.0054	2.84E-05
FOSL2	4.55	0.0054	2.85E-05
UBA5	10.45	0.0055	2.91E-05
NPHP3-ACAD11	13.61	0.0055	2.93E-05
LEPR; LEPROT	10.05	0.0055	2.94E-05
FBXO8	6.23	0.0055	2.95E-05
XRN2	8.43	0.0055	2.97E-05
SP3	11.63	0.0056	2.99E-05
RP5-1180E21.4	4.9	0.0056	3.00E-05
RPL24P2	-3.89	0.0056	3.00E-05
RP5-1024G6.2	5.16	0.0056	3.02E-05
RP11-1250I15.1	15.41	0.0056	3.05E-05
EEF1A1P22	-2.97	0.0056	3.04E-05
GGA2	5.61	0.0056	3.05E-05
C22orf46	2.7	0.0056	3.05E-05
Y_RNA	-2.55	0.0056	3.08E-05
HECTD1	21.23	0.0056	3.08E-05
TRAPPC12	11.14	0.0057	3.10E-05
LOC101927416; SRGAP3-AS2; AC037193.1	-3.15	0.0057	3.14E-05
PLAG1	13.06	0.0057	3.14E-05
RPL12P35	-4.35	0.0057	3.14E-05
CBFA2T2	3.16	0.0057	3.14E-05
PDCD1LG2	-8.95	0.0057	3.16E-05
MAGED1	14.28	0.0057	3.18E-05
TTC14	3.65	0.0059	3.29E-05
DPY19L2	3.65	0.0059	3.32E-05
RP11-203M5.8	-1363.73	0.0059	3.32E-05
LMAN2L	3.91	0.0059	3.34E-05
DCLRE1C	6	0.006	3.36E-05
GPATCH2	7.35	0.006	3.41E-05
RPL6P21	-2.46	0.0061	3.44E-05
PDE1A	14.73	0.0061	3.46E-05
RP11-674N23.4	21.08	0.0061	3.47E-05
CAT	2.52	0.0061	3.49E-05
RUFY2	4.63	0.0062	3.50E-05

TNKS	2.42	0.0062	3.52E-05
CCDC144CP	47.49	0.0062	3.51E-05
EIF1AXP1; RP5-875O13.7	2.23	0.0063	3.61E-05
RPL39P18	-5.3	0.0063	3.61E-05
SNRPEP2	-4.97	0.0063	3.59E-05
RP11-20I23.7	-3.4	0.0063	3.60E-05
PPM1L	4.29	0.0063	3.63E-05
C8orf88	4.14	0.0063	3.66E-05
NBPF10	39.38	0.0063	3.67E-05
IARS	5.04	0.0063	3.69E-05
ATE1	7.26	0.0063	3.69E-05
RNA5SP336	-2.07	0.0063	3.68E-05
CDON	499.14	0.0063	3.69E-05
MINOS1P2	-2.24	0.0063	3.68E-05
CEP250	3.71	0.0064	3.72E-05
CCDC85A	-9.4	0.0064	3.75E-05
CALD1	26.75	0.0064	3.74E-05
LOC283335; RP11-983P16.4	3.62	0.0064	3.75E-05
DGCR2; DGCR11	4.92	0.0064	3.74E-05
Metazoa_SRP	-2.83	0.0064	3.81E-05
RP11-425D17.1	3.33	0.0065	3.83E-05
RP11-95P13.1	26.25	0.0065	3.84E-05
SESTD1	3.15	0.0065	3.85E-05
ORC4	3.56	0.0065	3.86E-05
SSBP2	31.42	0.0065	3.93E-05
OGT	7.94	0.0065	3.92E-05
ASB8	17.6	0.0065	3.92E-05
ACAD10	5.62	0.0065	3.94E-05
ACOT1	4.17	0.0065	3.94E-05
CDC42EP3	4.05	0.0065	3.97E-05
SETD5	3.64	0.0065	3.97E-05
TSPAN5	5.24	0.0065	3.96E-05
HERC2P8	2.93	0.0065	3.96E-05
ATP2B4	55.6	0.0066	3.99E-05
RP13-216E22.5	-3.88	0.0066	3.98E-05
CDK19	11.03	0.0066	4.05E-05
EXOC4	5.52	0.0066	4.04E-05
RP11-171I2.4	3.35	0.0067	4.06E-05
KIAA0319L	6.43	0.0067	4.07E-05
ARNT	10.67	0.0067	4.11E-05
TAF1	8.08	0.0067	4.12E-05
AKAP11	6.17	0.0067	4.15E-05

TARBP1	4.59	0.0068	4.20E-05
HLA-DMB	5.53	0.0068	4.23E-05
ZNF404	5.52	0.0068	4.23E-05
PLA2G4C-AS1	-243.7	0.0068	4.24E-05
IRS2	9.52	0.0069	4.25E-05
TBC1D9B	23.7	0.0069	4.27E-05
HFE	9.98	0.0069	4.26E-05
THAP1	2.74	0.0069	4.29E-05
PNMA1	4.69	0.0069	4.28E-05
MSH6	9.2	0.0069	4.31E-05
UBA3	16.54	0.0069	4.33E-05
WDR6	3.85	0.0069	4.32E-05
PCDHB13	-10.52	0.0069	4.31E-05
ACSF2	4.29	0.0069	4.32E-05
SIRT3	3	0.0069	4.34E-05
DMXL1	14.14	0.0069	4.36E-05
SMAD5	11.65	0.0069	4.35E-05
HINT3	6.33	0.0069	4.37E-05
TBC1D2B	24.4	0.0069	4.37E-05
TMEM91	-16.03	0.0069	4.37E-05
PSD3	55.99	0.0069	4.40E-05
PABPC4	8.48	0.007	4.46E-05
MFHAS1	5.97	0.007	4.46E-05
RPS26P43	-3.78	0.007	4.50E-05
HERC2P3	11.08	0.0071	4.53E-05
BRD7P4	5.03	0.0071	4.55E-05
ZNF277	6.92	0.0071	4.55E-05
BDKRB1	4.51	0.0071	4.55E-05
MCU	4.6	0.0071	4.60E-05
MRVI1	5	0.0071	4.61E-05
SUCLA2	3.29	0.0071	4.63E-05
SETD7	5.62	0.0072	4.70E-05
ZCCHC2	4.59	0.0072	4.74E-05
PHF20	4.25	0.0072	4.74E-05
MIR767	-1.91	0.0073	4.76E-05
TNFAIP8	10.6	0.0073	4.78E-05
MICU1	43.23	0.0073	4.81E-05
SNORA25	-1.99	0.0074	4.87E-05
EYA1	28.91	0.0074	4.91E-05
DEDD	7.3	0.0074	4.91E-05
DCTN5	9.03	0.0074	4.94E-05
RP11-419I17.1	7.61	0.0075	5.01E-05

CAND1	4.65	0.0075	5.00E-05
FRG1CP	-10.64	0.0075	5.05E-05
SNRPGP10	-5.2	0.0075	5.06E-05
SMC5-AS1	2.76	0.0076	5.11E-05
SCRN3	5.28	0.0076	5.13E-05
EEF1B2; SNORA41	2.47	0.0076	5.16E-05
ZCCHC4	3.62	0.0076	5.13E-05
PMS2P3	3.98	0.0076	5.16E-05
LINC00294	2.57	0.0076	5.17E-05
AMY2B; ACTG1P4	3.96	0.0076	5.20E-05
LOC101929095; RP11-665G4.1	61.93	0.0076	5.18E-05
SP1	16.48	0.0076	5.21E-05
CTD-2240J17.2	9.9	0.0076	5.20E-05
MT1JP	-7.64	0.0076	5.20E-05
RN7SL624P	-3.52	0.0076	5.25E-05
Y_RNA	-2.6	0.0077	5.33E-05
RP11-395B7.2	-1.78	0.0077	5.30E-05
IFRD1	7.58	0.0077	5.33E-05
PCF11	7.36	0.0077	5.29E-05
ATF1	4.8	0.0077	5.28E-05
NFXL1	3.22	0.0078	5.43E-05
RP11-1148L6.5	-8.63	0.0078	5.43E-05
DCAF10	5.02	0.0079	5.51E-05
RNF214	3.79	0.0079	5.52E-05
PTRF	8.2	0.0079	5.54E-05
RFTN2	25.64	0.008	5.60E-05
LRRC8C	-55.45	0.008	5.65E-05
ERLIN2	5.57	0.008	5.65E-05
CPNE3	11.81	0.008	5.65E-05
Y_RNA	2.15	0.008	5.66E-05
METTL7A	22.34	0.008	5.64E-05
SNRPGP2	-8.52	0.008	5.75E-05
CTD-2659N19.2	-3.42	0.008	5.75E-05
SATB1	30.69	0.0081	5.81E-05
EIF2AK4	6.64	0.0081	5.83E-05
KIAA1109	11.4	0.0081	5.84E-05
CADPS	4.95	0.0082	5.92E-05
NHLRC3	9.92	0.0082	5.91E-05
DIEXF	4.47	0.0082	5.96E-05
DUBR	4.67	0.0082	5.96E-05
CTD-2287O16.5	2.98	0.0082	5.95E-05
IFI27	-3971.91	0.0082	5.96E-05

ERLIN1	6.1	0.0082	5.98E-05
ITGA7	4.3	0.0082	5.99E-05
CPEB2	26.61	0.0083	6.01E-05
TTC3P1	3.7	0.0083	6.03E-05
PPP4R3B	6.48	0.0083	6.05E-05
PTPN11	15.26	0.0083	6.05E-05
SCP2	6.6	0.0083	6.06E-05
IL1RL1	-2443.41	0.0083	6.08E-05
RP11-355B11.2	3.63	0.0083	6.16E-05
RP11-401E14.2	-1.88	0.0083	6.16E-05
RP3-445N2.1	-2.67	0.0083	6.15E-05
MFAP5	220.65	0.0084	6.18E-05
HLA-DMA	657.14	0.0084	6.21E-05
OSBPL3	21.45	0.0084	6.22E-05
EDC3	13.07	0.0084	6.20E-05
ZNF646	2.04	0.0084	6.21E-05
ZNF461	3.72	0.0084	6.21E-05
PEX5	4.21	0.0084	6.27E-05
SLC40A1	5.08	0.0085	6.37E-05
AC007098.1	30.82	0.0085	6.39E-05
DDR2	424.12	0.0085	6.41E-05
PLEKHH2	8.53	0.0085	6.42E-05
SAP130	2.43	0.0085	6.42E-05
RP3-388E23.2	4.14	0.0085	6.48E-05
TMEM43	8.08	0.0086	6.50E-05
RP11-214K3.21	6.2	0.0086	6.51E-05
KAT6B	10.65	0.0086	6.51E-05
TTC32	12.9	0.0086	6.56E-05
ZNF106	43.42	0.0086	6.55E-05
STARD5	12.73	0.0086	6.56E-05
TMEM132B	3.77	0.0086	6.58E-05
CTD-2325A15.5	2.26	0.0086	6.61E-05
TRMT10B	3.85	0.0086	6.60E-05
RICTOR	5.28	0.0086	6.64E-05
CTD-2007A10.1	-3.92	0.0086	6.63E-05
ADCY6; MIR4701	2.34	0.0087	6.72E-05
CYP20A1	4.3	0.0087	6.76E-05
BBS9	7.21	0.0088	6.81E-05
GNAS	4.34	0.0088	6.87E-05
ZBTB1	6.74	0.0089	6.91E-05
RP11-359D24.1	-2.06	0.0089	6.93E-05
AADAT	7.54	0.0089	6.97E-05

CKAP5; SNORD67	5.61	0.0089	6.97E-05
WNT2B	4.4	0.0089	7.00E-05
SMCHD1	6.73	0.0089	7.00E-05
ANKRD13A	23.57	0.009	7.05E-05
SNRNP200	7.22	0.009	7.11E-05
RP11-146G7.2	2.5	0.009	7.13E-05
ADD1	39.56	0.0091	7.17E-05
RYBP	4.38	0.0091	7.18E-05
SEPT2P1	7.35	0.0091	7.21E-05
AP3S1	54.05	0.0091	7.21E-05
P2RY1	2.77	0.0091	7.25E-05
SLC35F5	41.9	0.0091	7.27E-05
RPL12P32	-3.1	0.0091	7.28E-05
SNX9	72.48	0.0091	7.31E-05
CHIAP1	-2.25	0.0092	7.34E-05
PITHD1	13.31	0.0092	7.42E-05
STAM2	5.62	0.0092	7.45E-05
SMCR2	-2.48	0.0092	7.45E-05
EIF3F	2.46	0.0092	7.44E-05
CD99P1	-113.28	0.0093	7.48E-05
NTN4	-35.24	0.0093	7.56E-05
ARHGAP11B	1.89	0.0094	7.61E-05
PRKDC	11.22	0.0094	7.63E-05
RP11-433J22.2	-10.91	0.0094	7.66E-05
FAS-AS1	3.76	0.0095	7.73E-05
NABP1	13.58	0.0095	7.78E-05
TOMM70A	6.46	0.0095	7.81E-05
RNU6-471P	-3.35	0.0096	7.87E-05
AC005606.15	-3.2	0.0096	7.87E-05
ELP3	16.91	0.0096	7.88E-05
TRAK1	4.59	0.0096	7.90E-05
CTD-2012K14.3; CTD-2012K14.4	-7.46	0.0096	7.89E-05
DDX3X	10.18	0.0097	7.99E-05
UBE2G2	2.78	0.0097	8.00E-05
GXYLT2	8.17	0.0097	8.03E-05
RP11-704M14.1	-2.91	0.0097	8.04E-05
ZNHIT6	3.53	0.0097	8.07E-05
MIR4737	20.7	0.0098	8.15E-05
Y_RNA	-2.43	0.0098	8.17E-05
CLCC1	10.58	0.0098	8.22E-05
NAIP	4.57	0.0098	8.22E-05
ZKSCAN8	4.48	0.0098	8.23E-05

RBM39	4.5	0.0098	8.26E-05
AMT; NICN1	1.9	0.0098	8.29E-05
RPL19P13	-2.93	0.0098	8.29E-05
RP11-326I11.5	2.83	0.0098	8.31E-05
RN7SL676P	-2.15	0.0099	8.39E-05
TBCK	8.88	0.01	8.44E-05
BBS7	4.18	0.01	8.44E-05
GUSBP3	5.77	0.01	8.43E-05
NPHP3	4.48	0.01	8.50E-05
DYNC2H1	29.24	0.01	8.49E-05
DCBLD1	-21.95	0.01	8.51E-05
ALKBH1	2.99	0.01	8.51E-05
HNRNPH1P1	21.39	0.01	8.55E-05
PTPN23	3.5	0.01	8.58E-05
BDKRB2	11.35	0.0102	8.72E-05
ZNF330	12.46	0.0102	8.80E-05
ZNF141	3.55	0.0102	8.81E-05
FGF7	660.1	0.0102	8.82E-05
FAM213A	-42.66	0.0102	8.82E-05
NDUFB4P4	-3.64	0.0102	8.86E-05
KIDINS220	9.33	0.0102	8.86E-05
RUFY3	39.4	0.0103	8.88E-05
SAMD8	4.85	0.0103	8.90E-05
RP11-278C7.4	-4.41	0.0103	8.93E-05
PPM1A	3.76	0.0103	8.94E-05
FBXO7	7.02	0.0103	8.98E-05
KIF1B	4.34	0.0103	9.02E-05
RP4-704D21.2	3.53	0.0103	9.02E-05
RPL23AP74	-3.08	0.0103	9.03E-05
RBM14	2.63	0.0104	9.05E-05
RPL23AP17	-1.99	0.0104	9.10E-05
ZHX3	9.52	0.0105	9.19E-05
DPYSL3	7.72	0.0105	9.21E-05
POLR1E	19.39	0.0105	9.22E-05
NFIL3	30.19	0.0106	9.33E-05
RXFP1	3.81	0.0106	9.40E-05
LGI4	2.42	0.0106	9.41E-05
PANK2	38.89	0.0106	9.44E-05
PLPP4	-39.95	0.0107	9.59E-05
BBS4	4.15	0.0107	9.59E-05
MAT2A	23.72	0.0107	9.62E-05
RAB30	6.41	0.0107	9.60E-05

GATSL2	3.27	0.0107	9.65E-05
CFAP97	6.35	0.0107	9.67E-05
NPM1P47	-2.18	0.0108	9.70E-05
RN7SL418P	2.6	0.0108	9.71E-05
SRPX2	14.82	0.0108	9.72E-05
NKIRAS1	15.22	0.0108	9.79E-05
CAB39L	8.47	0.0108	9.80E-05
ASH1L; MIR555	6.33	0.0108	9.83E-05
MTCO2P19	2.83	0.0108	9.85E-05
RP5-1022J11.2	-1.79	0.0108	9.85E-05
MFSD14A	9.73	0.0108	9.86E-05
SRGAP1	22.83	0.0108	9.87E-05
BRD8	8.69	0.0109	9.92E-05
CTD-2085J24.3	-2.76	0.0109	9.96E-05
MAP4K3	4.3	0.011	0.0001
FABP5	-108.12	0.0111	0.0001
GMPR2	10.44	0.0111	0.0001
TSN	4.78	0.0111	0.0001
SUMO2P6	-3.34	0.0111	0.0001
STX17	2.3	0.0111	0.0001
ATP1B1	-216.4	0.0111	0.0001
IFT80	20.25	0.0111	0.0001
ARHGAP6	6.01	0.0111	0.0001
CDKL1	14.34	0.0112	0.0001
FAM120AOS	15.66	0.0113	0.0001
ELP2	5.58	0.0114	0.0001
GTF2H1	5.22	0.0115	0.0001
UBR2	5.19	0.0115	0.0001
ADSSL1	3.48	0.0116	0.0001
LPIN1; MIR548S	74.11	0.0116	0.0001
GNG5P3	-8.28	0.0116	0.0001
HSPA9	6.01	0.0116	0.0001
CUX1	3.18	0.0116	0.0001
RPS26P11	-2.87	0.0116	0.0001
HSPB6	1198.1	0.0116	0.0001
MLLT11	-164.28	0.0116	0.0001
SNRPG	-3.87	0.0116	0.0001
TMEM184C	3.79	0.0116	0.0001
RALA	-7.36	0.0116	0.0001
TRPM7	9.91	0.0116	0.0001
ATP9B	5.73	0.0116	0.0001
FAM193A	2.47	0.0117	0.0001

RNF41	7.81	0.0117	0.0001
STARD7	4.81	0.0117	0.0001
RPL21P120	-3.76	0.0117	0.0001
COL1A2	199.79	0.0117	0.0001
KIAA0556	3.06	0.0118	0.0001
LAMA1	14.97	0.0118	0.0001
RAB3C	-16.84	0.0118	0.0001
URGCP; URGCP-MRPS24	7.41	0.0118	0.0001
HIVEP2	12.42	0.0119	0.0001
PIGN	15.48	0.0119	0.0001
ANKRD17	3.54	0.0119	0.0001
VPS52	10.65	0.0119	0.0001
SRD5A1	2.83	0.0119	0.0001
HNRNPA1P27	-3.42	0.0119	0.0001
LINC01359	2.68	0.012	0.0001
MIR4273	7.33	0.012	0.0001
NOL8	4.85	0.012	0.0001
GIGYF2	8.05	0.012	0.0001
SYNPO	-44.4	0.012	0.0001
RP11-624M8.1	-2.89	0.0121	0.0001
MTRF1L	-4.56	0.0121	0.0001
SNX27	5.74	0.0121	0.0001
SPIDR	3.59	0.0121	0.0001
SLC39A6	68.91	0.0121	0.0001
NRDC; MIR761	4.33	0.0121	0.0001
FAM69A	17.02	0.0121	0.0001
PDCD6IP	3.26	0.0121	0.0001
EIF3E	4.26	0.0121	0.0001
PRKG1	224.76	0.0121	0.0001
MTCO1P2	-3	0.0121	0.0001
CRYBA1	4.86	0.0121	0.0001
MATN2	450.37	0.0121	0.0001
GOLGA2	5.54	0.0121	0.0001
MRVI1-AS1	15.33	0.0121	0.0001
GACAT2	272.3	0.0121	0.0001
RPL26P31	-1.67	0.0122	0.0001
RP4-535B20.4	3.89	0.0122	0.0001
FABP5	-81.4	0.0122	0.0001
NFASC	100.44	0.0122	0.0001
LINC00607	-56.69	0.0122	0.0001
APPL1	4.88	0.0122	0.0001
RNASE1	-4064.5	0.0122	0.0001

ARHGAP10	4.39	0.0123	0.0001
ZNF514	4.18	0.0123	0.0001
SRP19; ZRSR1	-4.67	0.0123	0.0001
GCC1	-2.45	0.0123	0.0001
DLEU2_5	17.76	0.0123	0.0001
RNU6-1164P	-4.6	0.0123	0.0001
SRSF11	5.16	0.0124	0.0001
RHOU	5.69	0.0124	0.0001
RP11-400F19.6	-2.58	0.0124	0.0001
MIR4451	3.37	0.0124	0.0001
LAMA2	12.14	0.0124	0.0001
DPYSL2	54.7	0.0124	0.0001
MBNL3	9.55	0.0124	0.0001
HACE1	4.06	0.0124	0.0001
YBX1P5	-2.13	0.0124	0.0001
FBLN2	5.99	0.0125	0.0001
PPP6R3	4.58	0.0125	0.0001
ERC1	4.15	0.0125	0.0001
MEST	30.09	0.0125	0.0001
AC005480.1	-7.53	0.0125	0.0001
LOC653513	1660.92	0.0125	0.0001
CDK13	2.33	0.0125	0.0001
SLC30A6	4.55	0.0125	0.0001
GTF2F1	3.56	0.0125	0.0001
ANKIB1	9.02	0.0126	0.0001
RP11-84C13.2	4.54	0.0126	0.0001
TNFRSF19	3.19	0.0126	0.0001
SFRP1	513.39	0.0126	0.0001
RP11-1C8.6	3.34	0.0127	0.0001
AP1M1	14.1	0.0127	0.0001
VAMP1	4.36	0.0127	0.0001
EPG5	10.56	0.0128	0.0001
RNU6-116P	-3.51	0.0128	0.0001
RNY3P9	-2.61	0.0128	0.0001
TRAK2	32.77	0.0129	0.0001
WDR11	11.97	0.0129	0.0001
MUC20; SDHAP2; MIR570; LINC00969	3.25	0.0129	0.0001
UNC13B	5.06	0.0129	0.0001
RABGEF1	31.47	0.0129	0.0001
PTPRS	6.19	0.0129	0.0001
MTND2P31	-3.14	0.0129	0.0001
MIR222HG; RP6-99M1.2	4.63	0.0129	0.0001

RAB2B	3.14	0.0129	0.0001
NEK9	12.45	0.0129	0.0001
MT1P3	-12.79	0.0129	0.0001
CLPX	4.09	0.0129	0.0001
FAM104A	-4.05	0.0129	0.0001
SETDB2	11.83	0.0129	0.0001
ZNF217	15.8	0.0129	0.0001
FNIP1	17.85	0.0129	0.0001
ZFYVE1	3.42	0.013	0.0001
GPBP1	4.04	0.013	0.0001
RBPMS	51.19	0.013	0.0001
TUB	3.11	0.013	0.0001
ANTXR2	95.42	0.013	0.0001
RPL23AP55	-6.41	0.013	0.0001
FAHD1	2.54	0.013	0.0001
EIF3C; EIF3CL	7.74	0.013	0.0001
FBXO32	25.49	0.013	0.0001
TTC39C	52.52	0.0131	0.0001
BCL2L13	6.03	0.0131	0.0001
ZNF605	3.66	0.0132	0.0001
ISYNA1	-8.91	0.0132	0.0001
ZNF730	-2.5	0.0132	0.0001
STK17B	30.92	0.0132	0.0001
ROCK1P1	3.34	0.0132	0.0001
GUCY1B3	8	0.0132	0.0001
NDFIP1	2.76	0.0132	0.0001
MBD2	-8.58	0.0132	0.0001
TMEM217	-7.6	0.0133	0.0001
NARS	3.35	0.0133	0.0001
SSPN	105.04	0.0134	0.0001
GDNF-AS1	3.48	0.0134	0.0001
GUSBP11	7.11	0.0134	0.0001
ST13P20	-1.87	0.0135	0.0001
KCTD3	9.79	0.0135	0.0001
SULT1C2	7.34	0.0135	0.0001
ZBTB2	8.01	0.0135	0.0001
RP11-498E2.9	4.77	0.0135	0.0001
FTO	15.02	0.0135	0.0001
ANAPC5	4.95	0.0135	0.0001
CTC-490E21.11	3.83	0.0136	0.0001
RN7SL493P	-2.01	0.0136	0.0002
GCNT1	21.49	0.0136	0.0002

BACE1	14.62	0.0136	0.0002
MYO9A	10.77	0.0136	0.0002
XPNPEP3	7.88	0.0136	0.0002
MAGI2	3.69	0.0137	0.0002
RP11-12K6.2	-1.98	0.0137	0.0002
ADAMTS8	5.69	0.0137	0.0002
TPP2	6.4	0.0137	0.0002
RNU6-978P	-2.41	0.0137	0.0002
SRP68P1	3.11	0.0137	0.0002
LINC00437	-2.2	0.0137	0.0002
IRAK4	9.28	0.0137	0.0002
HTATSF1	4.74	0.0137	0.0002
B3GALT4	7.44	0.0137	0.0002
RP11-177N22.3	-2.43	0.0137	0.0002
UTP15	3.25	0.0138	0.0002
AQP11	16.67	0.0138	0.0002
LRP1	438.11	0.0138	0.0002
DYRK1A	2.86	0.0138	0.0002
LUCAT1	-2.45	0.0138	0.0002
SLC2A13	2.46	0.0138	0.0002
YAP1	60.24	0.0139	0.0002
PPP1R3E	4.74	0.0139	0.0002
SNX1	6.05	0.0139	0.0002
FN3KRP	6.13	0.0139	0.0002
DSN1	6.23	0.0139	0.0002
RP11-491F9.2	-1.83	0.0139	0.0002
MITF	7.39	0.0139	0.0002
RANP1	-2.62	0.014	0.0002
RPL7L1P9	1.73	0.014	0.0002
TXLNB	5.18	0.014	0.0002
LOC100506990	7.03	0.014	0.0002
ZNF267	-92.01	0.014	0.0002
LOC100129034	4.95	0.0141	0.0002
RNA5SP206	-1.85	0.0141	0.0002
ZKSCAN7	3.38	0.0141	0.0002
SESN3	15.27	0.0142	0.0002
MAN1C1	24.33	0.0142	0.0002
SNRPEP4	-4.99	0.0142	0.0002
FABP5P3	-3.25	0.0143	0.0002
EIF3A	10.4	0.0143	0.0002
PABPC1P4	4.1	0.0143	0.0002
LDHB	4.72	0.0143	0.0002

MIR1282	6.73	0.0143	0.0002
CEMIP	2347	0.0143	0.0002
RN7SL659P	5	0.0144	0.0002
SLC25A40	11.71	0.0144	0.0002
RPL7A	4.46	0.0145	0.0002
WDR35	5.38	0.0145	0.0002
HSPD1P18	-2.59	0.0145	0.0002
ANKRD49	2.85	0.0145	0.0002
FABP5P1	-118.48	0.0145	0.0002
TM6SF1	-33.43	0.0145	0.0002
CWC27	4.16	0.0145	0.0002
PDE9A	3.92	0.0145	0.0002
CHEK2	5.7	0.0145	0.0002
RNF20	7.58	0.0146	0.0002
RP11-404P21.5	3.42	0.0146	0.0002
RNF103	3.66	0.0146	0.0002
RP11-250B2.3	2.7	0.0146	0.0002
RIC1	2.96	0.0146	0.0002
NFE2L1	5.41	0.0146	0.0002
DROSHA	4.36	0.0147	0.0002
CRTC2	4.38	0.0147	0.0002
RHBDD1	10.98	0.0149	0.0002
INE2	5.32	0.0149	0.0002
SRP68P3	3.36	0.0149	0.0002
C3orf17	2.67	0.0149	0.0002
TMOD2	11.19	0.015	0.0002
UROD	50.75	0.015	0.0002
RSU1P3	3.62	0.015	0.0002
GORAB	7.73	0.015	0.0002
GPR107	3.98	0.0151	0.0002
AC011648.1	-2.06	0.0151	0.0002
ANGEL2	6.57	0.0151	0.0002
FKBP9	46.99	0.0152	0.0002
RPL36AP48	-2.42	0.0152	0.0002
CCDC191	3.97	0.0152	0.0002
TIGD2	5.42	0.0152	0.0002
OSMR	29.34	0.0152	0.0002
ZNF37A	4.21	0.0152	0.0002
TNRC6A	6.04	0.0152	0.0002
KNOP1	-6.46	0.0152	0.0002
POLI	4.39	0.0152	0.0002
APOC1	212.89	0.0152	0.0002

SIRPB3P	-1.91	0.0152	0.0002	
ZDHHC3	17.53	0.0152	0.0002	
CDK14	7.52	0.0152	0.0002	
RBM43	3.75	0.0153	0.0002	
NRG1	-489.67	0.0153	0.0002	
RBM12B	10.06	0.0153	0.0002	
ALDH18A1	10.63	0.0153	0.0002	
RP11-756P10.6	-6.08	0.0153	0.0002	
MDFIC	6.03	0.0153	0.0002	
CDC14B	24.62	0.0153	0.0002	
NR0B1	2.59	0.0153	0.0002	
RNU6-290P	-2.79	0.0153	0.0002	
WDYHV1	4.75	0.0155	0.0002	
TCONS_00017433	175.54	0.0155	0.0002	
FAM106CP	3.35	0.0155	0.0002	
HSPE1P3	-3.69	0.0155	0.0002	
TRAPPC4; MIR3656	25.35	0.0155	0.0002	
TBC1D25	4.12	0.0156	0.0002	
NOL10	3.67	0.0156	0.0002	
LRRC34	12.82	0.0157	0.0002	
PCDH10	-78.92	0.0157	0.0002	
FADS1; MIR1908	93.97	0.0157	0.0002	
SCN2A	15.23	0.0158	0.0002	
PPME1	26.71	0.0158	0.0002	
Y_RNA	3.08	0.0159	0.0002	
FLNC	14.17	0.0159	0.0002	
MRPL30	-4.8	0.0159	0.0002	
CUL7	4.51	0.0159	0.0002	
SLC1A3	216.79	0.016	0.0002	
SLC36A1	2.61	0.016	0.0002	
RNA5SP408	-2.2	0.016	0.0002	
NPIPA7	2.25	0.016	0.0002	
	Sep-09	56.09	0.016	0.0002
ANKRD28	49.19	0.0161	0.0002	
VPS45	13.38	0.0161	0.0002	
TMEM135	5.22	0.0162	0.0002	
TCEB1P2	-4.27	0.0162	0.0002	
SEH1L	16.32	0.0162	0.0002	
ZNF426	5.49	0.0162	0.0002	
PRPF8	9.23	0.0162	0.0002	
GALNT1	-36.36	0.0163	0.0002	
HIST1H1C	29.82	0.0163	0.0002	

ASXL2	4.99	0.0163	0.0002	
RNLS	10.29	0.0164	0.0002	
PCNT	7.9	0.0164	0.0002	
SET	2.75	0.0164	0.0002	
UBE4A	3.62	0.0164	0.0002	
THBS3	5.44	0.0164	0.0002	
FXVD1	4.48	0.0165	0.0002	
RP11-52J3.2	2.83	0.0165	0.0002	
LRCH3	4.03	0.0165	0.0002	
PDPR	4.48	0.0165	0.0002	
RP4-791M13.5	2.27	0.0165	0.0002	
HOOK3	4.21	0.0165	0.0002	
HSDL2	11.01	0.0165	0.0002	
DYNC1H1	7.74	0.0165	0.0002	
HDAC6	3.8	0.0165	0.0002	
MAP4	6.73	0.0165	0.0002	
ARCN1	5.62	0.0166	0.0002	
CEP44	6.41	0.0166	0.0002	
CNOT1; SNORA50A	9.42	0.0166	0.0002	
LOC440434; Y_RNA	3.85	0.0166	0.0002	
ZNF253	9.66	0.0166	0.0002	
VPS8	4.17	0.0166	0.0002	
RNA5SP188	-2.36	0.0166	0.0002	
PTP4A2	3.78	0.0167	0.0002	
TRRAP	3.43	0.0167	0.0002	
ANK1	18.55	0.0167	0.0002	
P2RX7	2.21	0.0167	0.0002	
	Sep-10	6.6	0.0167	0.0002
C15orf38-AP3S2	6.02	0.0167	0.0002	
ZNF148	6.46	0.0167	0.0002	
OSBPL8	31.52	0.0167	0.0002	
BOLA2P1	-2.99	0.0167	0.0002	
MTR	9.36	0.0168	0.0002	
EID1	53.02	0.0168	0.0002	
ENOX2	3.47	0.0168	0.0002	
FMR1	7.37	0.0168	0.0002	
RP11-426C22.4	18.68	0.0168	0.0002	
XRCC6	4.6	0.0168	0.0002	
SNORD113-2	4.69	0.0169	0.0002	
IPO5	12.98	0.0169	0.0002	
PTGS1	153.33	0.0169	0.0002	
ADGRF5	-23.14	0.017	0.0002	

ATXN10	3.38	0.017	0.0002	
WNK1	15.21	0.017	0.0002	
RNU6-187P	-2.28	0.017	0.0002	
RP11-227B21.2	-2.34	0.017	0.0002	
ITGA4	6.74	0.017	0.0002	
CA5B	18.41	0.0171	0.0002	
ACKR1	-6.56	0.0171	0.0002	
S100PBP	4.2	0.0172	0.0002	
SLC35B4	7.24	0.0172	0.0002	
EEF1A1P41	-2.14	0.0172	0.0002	
TDRD1	3.54	0.0172	0.0002	
PTGES3L-AARSD1; PTGES3L; AARSD1	3.22	0.0172	0.0002	
COL1A1	106.17	0.0172	0.0002	
BANP	9.61	0.0172	0.0002	
PBX1	18.79	0.0173	0.0002	
U91328.21	9.4	0.0173	0.0002	
PPIB	7.37	0.0173	0.0002	
NPIPA1	3.75	0.0173	0.0002	
NEK6	7.46	0.0173	0.0002	
DNAJB12	3.65	0.0174	0.0002	
RNU4ATAC18P	1.93	0.0174	0.0002	
GALNT16	7.79	0.0174	0.0002	
AFG3L2	7.08	0.0174	0.0002	
EGFLAM-AS2	-1.99	0.0174	0.0002	
PIGV	2.44	0.0175	0.0002	
GALC	4.77	0.0175	0.0002	
IRAK3; MIR6502	4.11	0.0175	0.0002	
RAP2C	3.14	0.0175	0.0002	
APOC4	4.03	0.0175	0.0002	
PRDM5	6.08	0.0176	0.0002	
FBXL5	5.1	0.0176	0.0002	
CFAP69	3.72	0.0176	0.0002	
NSFP1	6.84	0.0176	0.0002	
COQ7	3.75	0.0177	0.0002	
EDNRA	24.11	0.0178	0.0002	
THAP9-AS1	15.65	0.0178	0.0002	
	Mar-06	3.25	0.0178	0.0002
BTF3P11	-2.69	0.0178	0.0002	
CSNK1E	-2.63	0.0178	0.0002	
GOLGA4	6.69	0.0178	0.0002	
SLC25A27	6.08	0.0178	0.0002	
ANG; RNASE4	6.01	0.0179	0.0002	

FAM222B	-5.85	0.0179	0.0002
ZNF234	3.49	0.018	0.0002
RP11-473J6.1	-1.95	0.018	0.0002
NPIPA5	3.01	0.018	0.0002
SERPING1	277.51	0.018	0.0002
ZNF773	6.37	0.0181	0.0002
LOC101929646; RP11-475D12.1	-2.4	0.0182	0.0003
ACP1	9.08	0.0182	0.0003
STAG2	2.57	0.0182	0.0003
GON4L	6.23	0.0182	0.0003
USP53	42.28	0.0183	0.0003
WDR45B	3.14	0.0183	0.0003
CTB-5E10.3	-3.59	0.0183	0.0003
INTS1	6.46	0.0183	0.0003
MIR3911	3.48	0.0183	0.0003
ANKS3	2.55	0.0183	0.0003
NEAT1; MIR612	15.54	0.0183	0.0003
RP11-196H14.3	11.42	0.0184	0.0003
OTUD5	5.86	0.0184	0.0003
CCDC80; LINC01279	19405.96	0.0184	0.0003
RP11-37L2.1	-1.96	0.0184	0.0003
LHFP	63.84	0.0184	0.0003
WARS2	8.35	0.0184	0.0003
GTF2IRD2B	6.66	0.0184	0.0003
HSPE1P22	-2.64	0.0184	0.0003
RBM3	38.59	0.0184	0.0003
NIFK	-9.16	0.0184	0.0003
NBPF26	12.91	0.0185	0.0003
CTD-2528A14.5	-2.21	0.0185	0.0003
LYRM7	4.29	0.0185	0.0003
RP11-472G23.10	-1.69	0.0185	0.0003
CACNA1C-AS4	2.28	0.0185	0.0003
NPM1P5	-2.61	0.0185	0.0003
AMFR	5.86	0.0185	0.0003
ICK	9.64	0.0185	0.0003
LURAP1L-AS1	-89.88	0.0185	0.0003
TWF2	3.89	0.0185	0.0003
RP11-45P15.4	5.25	0.0185	0.0003
FTX_1	6.68	0.0186	0.0003
ZDHHC3	6.03	0.0186	0.0003
RPS27P22	-3.04	0.0186	0.0003
RN7SL587P; AF111168.3	-2.47	0.0186	0.0003

PDGFC	10.42	0.0186	0.0003
PARP6	3.48	0.0186	0.0003
NSMAF	11.96	0.0187	0.0003
SLC4A1AP	2.21	0.0187	0.0003
RP11-638I2.8	-17.02	0.0187	0.0003
TRIM59	7.73	0.0187	0.0003
PATL1	7.73	0.0187	0.0003
ATF7IP	4.21	0.0188	0.0003
MIR6763	-3.33	0.0188	0.0003
PDE4DIP	374.98	0.0188	0.0003
ZNF621	2.66	0.0189	0.0003
IFT122	12.81	0.0189	0.0003
EIF4G3	3.14	0.0189	0.0003
XRN1	6.91	0.0189	0.0003
RP11-54A9.1	-53.52	0.0189	0.0003
HIBADH	30.71	0.0189	0.0003
PRKG2	506.71	0.0189	0.0003
FASN	7.89	0.0189	0.0003
OSBPL1A	11.56	0.0189	0.0003
H6PD	2.27	0.019	0.0003
RNU6-828P	-1.93	0.019	0.0003
CCDC18-AS1	13	0.019	0.0003
NUDT12	4.57	0.019	0.0003
FAM63B	16.04	0.019	0.0003
ENDOD1	4.9	0.019	0.0003
LRP6	4.56	0.019	0.0003
DCPS	14.7	0.019	0.0003
LINC00202-2	2.23	0.0191	0.0003
SMG6	3.58	0.0192	0.0003
MYO1B	82.22	0.0192	0.0003
CA12	136.13	0.0193	0.0003
PRKD3	3.79	0.0194	0.0003
RPL12P6	-4.56	0.0194	0.0003
PPP2R5A	6.08	0.0195	0.0003
ST3GAL5-AS1	-2.01	0.0195	0.0003
ADD3	21.38	0.0195	0.0003
SVIL	36.8	0.0195	0.0003
MON2	9.31	0.0195	0.0003
SS18L2P2	-1.6	0.0195	0.0003
SMARCD1	2.67	0.0196	0.0003
IL1R1	79.48	0.0196	0.0003
KIAA0226L	3.54	0.0196	0.0003

PLIN2	949.25	0.0196	0.0003
HNRNPUL2	2.35	0.0197	0.0003
CDIPT	6.97	0.0197	0.0003
DZIP1	7.37	0.0197	0.0003
RRAS2	14.99	0.0197	0.0003
CUL4A	6.71	0.0197	0.0003
FZD7	7.21	0.0198	0.0003
TAS2R31	2.95	0.0198	0.0003
EHBP1	33.18	0.0198	0.0003
AFMID	5.36	0.0198	0.0003
RPL37P23	-4.81	0.0198	0.0003
KAT6B	1.79	0.0198	0.0003
TCAF2P1	-3.37	0.0199	0.0003
ZC2HC1A	6.35	0.0199	0.0003
EIF4B	11.32	0.0199	0.0003
CREBL2	6.77	0.02	0.0003
CCDC6	4.37	0.02	0.0003
FAM122C	3.3	0.02	0.0003
HDAC3	4.68	0.0201	0.0003
SCML1	6.98	0.0201	0.0003
CYCSP55	-2.58	0.0202	0.0003
RP11-815J4.1	-2.1	0.0202	0.0003
ESM1	-8853.24	0.0202	0.0003
TMEM263	14.58	0.0202	0.0003
SNAR-A12; SNAR-A13	-2.23	0.0202	0.0003
TRAK2	3.6	0.0203	0.0003
MMP24-AS1; RP4-614O4.5	24.69	0.0203	0.0003
TCTA	19.55	0.0203	0.0003
NAP1L4	-2.95	0.0203	0.0003
TFIP11	3.39	0.0203	0.0003
SNX29P1	4.18	0.0203	0.0003
RP11-861E21.2	2.47	0.0204	0.0003
PIK3R4	3.62	0.0204	0.0003
CD36	176.58	0.0205	0.0003
LMO4	4.56	0.0205	0.0003
RCOR3	4.27	0.0205	0.0003
NUDT19P5	1.56	0.0205	0.0003
FABP4	-613.77	0.0205	0.0003
FOXP2	3.96	0.0205	0.0003
HSPB3	23.37	0.0206	0.0003
DOCK11	51.67	0.0206	0.0003
ZNF318	2.14	0.0206	0.0003

CNPY3	14.69	0.0207	0.0003
EEF1DP6	-2.33	0.0207	0.0003
CAST	10.33	0.0208	0.0003
METTL3	5.66	0.0208	0.0003
HS2ST1	5.02	0.0208	0.0003
AC008063.2	17.3	0.0208	0.0003
SOHLH2	6.34	0.0208	0.0003
MIR1537	1.88	0.0209	0.0003
HNRNPH2	2.35	0.0209	0.0003
CPSF2	3.02	0.0209	0.0003
LYST	22.75	0.0209	0.0003
CD109	38.03	0.021	0.0003
RAPGEF6	4.42	0.021	0.0003
ENTPD4; LOXL2	3.02	0.021	0.0003
C4orf36	3.75	0.021	0.0003
EIF2AK3	7.14	0.0212	0.0003
ARHGAP1	23.43	0.0212	0.0003
PEX3	4.77	0.0212	0.0003
KCND2	22.23	0.0212	0.0003
OXR1	5.32	0.0212	0.0003
EIF2B4	3.8	0.0212	0.0003
AKR1B1	347.31	0.0212	0.0003
BCL6	13.07	0.0213	0.0003
TMED1	8.05	0.0213	0.0003
EBLN3	4.62	0.0213	0.0003
CREB3L2	3.69	0.0214	0.0003
LAPTM4B	8.46	0.0214	0.0003
CTC-510F12.7	4.37	0.0214	0.0003
ZNF445	2.14	0.0214	0.0003
TSNAX	10.48	0.0214	0.0003
SLC9A7	14.54	0.0214	0.0003
NT5C2	5.14	0.0214	0.0003
PPP1R12A	4.45	0.0214	0.0003
ZMAT3	19.67	0.0214	0.0003
SRP9	4.43	0.0215	0.0003
IGFBP5	622.51	0.0215	0.0003
GPC6	2.49	0.0216	0.0003
ABCA9-AS1	3.72	0.0216	0.0003
ACTA2	86.47	0.0216	0.0003
PI4K2B	3.59	0.0216	0.0003
PGGT1BP2	-2.18	0.0216	0.0003
RNASEH1	4.55	0.0217	0.0003

XXbac-B135H6.18	-2.36	0.0217	0.0004
CTC-351M12.1	2.76	0.0217	0.0004
FAM107B	-31.72	0.0218	0.0004
SLC37A4	2.33	0.0218	0.0004
SIK3	2.82	0.0218	0.0004
LOC101927876; RP11-174G17.2	-1.8	0.0219	0.0004
AC010096.1	-2.42	0.0219	0.0004
SACM1L	5.72	0.0219	0.0004
RP11-481J8.3	-1.97	0.0219	0.0004
RP11-799B12.1	164.46	0.0219	0.0004
AP3M2	4.57	0.0219	0.0004
PTPN2	4.32	0.0219	0.0004
CCDC92	26.75	0.0219	0.0004
RNU6-773P	-3.36	0.0219	0.0004
DYM	3.25	0.0219	0.0004
RP11-291L22.4	1.94	0.0219	0.0004
RHOA	10.51	0.0221	0.0004
ZYG11B	6.5	0.0221	0.0004
AZIN1	7.64	0.0221	0.0004
ACCS	7.22	0.0221	0.0004
VPS9D1	1.76	0.0221	0.0004
RPL17P1	-1.81	0.0221	0.0004
CLMP	181.79	0.0223	0.0004
POR; MIR4651	6.2	0.0224	0.0004
RP11-654A16.3	-2.43	0.0224	0.0004
ZBTB38	10.96	0.0224	0.0004
PAAF1	3.57	0.0224	0.0004
CH507-254M2.1	-14.21	0.0224	0.0004
CH507-254M2.2	-14.21	0.0224	0.0004
COG6	2.62	0.0224	0.0004
DCLK1	3552.96	0.0225	0.0004
SAMD4B	5.61	0.0225	0.0004
AIFM1	2.51	0.0225	0.0004
BVES	27.13	0.0225	0.0004
SCARNA11	-1.99	0.0225	0.0004
CLIP4	9.57	0.0225	0.0004
C2	2.53	0.0225	0.0004
LOC101060389; TBC1D3D	3.02	0.0226	0.0004
RPRD2	3.23	0.0226	0.0004
CASP4	-9.45	0.0226	0.0004
EHD2	29.6	0.0226	0.0004
BRF1	3.29	0.0226	0.0004

AC012456.3	-1.77	0.0226	0.0004
SLC29A1	-43.7	0.0226	0.0004
ELMO2	9.98	0.0226	0.0004
ZNF561	4.9	0.0227	0.0004
SMIM2-IT1	-1.89	0.0228	0.0004
ATG4B	4.62	0.0229	0.0004
RN7SL43P; AC079920.1	-2.3	0.0229	0.0004
RP11-570H19.2	-3.23	0.0229	0.0004
ARHGAP17	6.92	0.0229	0.0004
RP11-506D12.5	-1.74	0.0229	0.0004
RPL37AP1	-2.4	0.0229	0.0004
TMEM14DP	10	0.0229	0.0004
GPR75-ASB3	2.76	0.023	0.0004
FNBP1L	-44.34	0.023	0.0004
ASAP3	4.06	0.023	0.0004
NDRG4	-35.36	0.0231	0.0004
NBPF19	19.07	0.0231	0.0004
NR2C1	3.19	0.0232	0.0004
RFPL4A	-2.86	0.0232	0.0004
CPA4	6.54	0.0232	0.0004
BLOC1S2P1	-2.16	0.0233	0.0004
NSMCE1	15.99	0.0233	0.0004
RAB21	3.96	0.0235	0.0004
PHF13	2.99	0.0235	0.0004
HMG1P30	-4.47	0.0235	0.0004
SOAT1	11.93	0.0235	0.0004
POLR3C	5.29	0.0235	0.0004
DDX17	3.58	0.0235	0.0004
RP11-321F6.2	2.88	0.0235	0.0004
RP11-135F9.3	2.87	0.0236	0.0004
HCG25	4.69	0.0236	0.0004
DIDO1	4.4	0.0236	0.0004
COX15	3.28	0.0237	0.0004
RP11-265N6.1	-6.34	0.0237	0.0004
ZZZ3	3.58	0.0238	0.0004
AP4B1	3.9	0.0238	0.0004
IPO11; LRRC70	4.48	0.0238	0.0004
FAM53C	2.35	0.0238	0.0004
COPG2; TSGA13	5.85	0.0238	0.0004
RP11-65L3.3	1.79	0.0238	0.0004
SNORA17A; SNORA17B; SNHG7	2.89	0.0238	0.0004
DUXAP5	-1.53	0.0238	0.0004

GTF2IP1; GTF2IP4	3.27	0.0239	0.0004
MARCKS	-7.61	0.0239	0.0004
HIST1H2BK	23.25	0.0239	0.0004
RP11-363E6.3	-27.86	0.0239	0.0004
MIR3689B	1.88	0.0239	0.0004
FIP1L1	4.62	0.024	0.0004
NBPF20	9.85	0.024	0.0004
ACAD9	4.66	0.024	0.0004
AKAP10	2.39	0.024	0.0004
DCAKD	61.09	0.024	0.0004
RP11-74C13.4	-14.7	0.024	0.0004
JADE1	4.09	0.0241	0.0004
ARHGEF9; ARHGEF9-IT1	12.53	0.0241	0.0004
IMPACT	2.75	0.0241	0.0004
SNRPEP5	-4.72	0.0241	0.0004
GRPEL1	-4.33	0.0242	0.0004
RNA5SP177	-1.99	0.0242	0.0004
NDUFA10	2.59	0.0242	0.0004
CPSF6	6.44	0.0243	0.0004
CTDSPL	24.23	0.0243	0.0004
IPP	7.14	0.0243	0.0004
SVEP1	135.45	0.0243	0.0004
STK38	3.97	0.0243	0.0004
NR2F2	15.25	0.0243	0.0004
ECSIT	5.98	0.0243	0.0004
IGFBP7	-17.65	0.0244	0.0004
U91328.22	7.32	0.0244	0.0004
REEP3	4.88	0.0244	0.0004
SMIM7; MED26	5.44	0.0244	0.0004
ADH5	78.67	0.0244	0.0004
RP11-588H23.3	-48.03	0.0244	0.0004
KPNB1	6.57	0.0244	0.0004
HN1	-46.56	0.0244	0.0004
WDR7	4.07	0.0244	0.0004
LOC100505715; RP11-15A1.3	35.05	0.0245	0.0004
TRIM51JP	-1.73	0.0246	0.0004
PPP6R1	6.05	0.0246	0.0004
HECTD3	9.67	0.0247	0.0004
C1RL	7.73	0.0247	0.0004
RP11-384L8.1	-2.32	0.0248	0.0004
EEF1A1P16	-4.03	0.0248	0.0004
CLCN6	4.1	0.0248	0.0004

URGCP	9.68	0.0248	0.0004
EEA1	10.44	0.0248	0.0004
SNAP25-AS1	1.99	0.0249	0.0004
CNBP	10.43	0.0249	0.0004
CCDC91	8.03	0.0249	0.0004
HNRNPM	5.85	0.0249	0.0004
KIAA0825	3.73	0.0249	0.0004
POLK	5.8	0.0249	0.0004
RP4-633I8.4	-2.09	0.0249	0.0004
C5orf42	4.57	0.025	0.0005
EMC2	3.27	0.025	0.0005
HNRNPA3P1	-2.93	0.025	0.0005
RPL7P44	-2.79	0.025	0.0005
MAP2K4; MIR744	3.72	0.025	0.0005
EIF1P5	-1.91	0.025	0.0005
AGAP9; CTGLF11P	4.13	0.025	0.0005
TBC1D1	-7.86	0.0251	0.0005
GPRASP2	1.99	0.0251	0.0005
ZNF441	3.12	0.0251	0.0005
LRP12	3.12	0.0251	0.0005
APMAP	13.64	0.0251	0.0005
HSPE1P2	-4.52	0.0251	0.0005
KLHL20	6.32	0.0252	0.0005
GMDS	4.51	0.0252	0.0005
LIPA	56.25	0.0252	0.0005
ZBTB34	3.93	0.0252	0.0005
Y_RNA	-2.13	0.0253	0.0005
MTND5P10	-4.93	0.0254	0.0005
SF3A1	3.64	0.0254	0.0005
SPIN1	5.06	0.0254	0.0005
LYSMD3	-2.64	0.0254	0.0005
CLDND2	2.01	0.0254	0.0005
RP11-454C18.1	-2.13	0.0254	0.0005
RP11-374M1.4	-3.25	0.0254	0.0005
NUP43	4.82	0.0255	0.0005
TOX4	8.29	0.0255	0.0005
RP11-250B2.4	2.8	0.0255	0.0005
ESYT2	13.11	0.0255	0.0005
AIDA	4.84	0.0255	0.0005
KIF16B	6.59	0.0255	0.0005
MGST2	-652.25	0.0256	0.0005
RP11-697E22.1	-33.24	0.0256	0.0005

SRRD	-4.77	0.0256	0.0005
EZH1	11.1	0.0256	0.0005
CPM	3.63	0.0257	0.0005
TSC2	2.37	0.0257	0.0005
MIR5699	-3.32	0.0257	0.0005
GAS8	2.54	0.0257	0.0005
RPL7P25	-2.76	0.0257	0.0005
NR2F2-AS1	1.89	0.0257	0.0005
MAN1A2	3.26	0.0257	0.0005
ACTR3	2.94	0.0257	0.0005
LMNTD1	2.31	0.0257	0.0005
RP5-1112D6.7	3.47	0.0257	0.0005
PDCD7	5.21	0.0257	0.0005
TSIX	695.83	0.0258	0.0005
CTC-344H19.4	-1.66	0.0258	0.0005
CSNK1A1	7.98	0.0258	0.0005
AC004895.4	-2.06	0.0258	0.0005
ALDH1B1	2.42	0.0258	0.0005
GAS6-AS2	2.59	0.0258	0.0005
CYP2C56P	-2.38	0.0258	0.0005
ZNF717	7.35	0.0258	0.0005
RNASET2	23.79	0.0259	0.0005
FGF7P1	5.99	0.026	0.0005
MTHFSD	2.9	0.026	0.0005
SDCCAG8	3.87	0.0261	0.0005
RNU6-173P	-3.64	0.0261	0.0005
FNBP1	12.85	0.0261	0.0005
RP1-66N13.1	-2.06	0.0261	0.0005
PRPF4	5.6	0.0261	0.0005
MCCC1-AS1; RP11-786O7.1	3.13	0.0261	0.0005
KIAA0196	18.84	0.0261	0.0005
RP11-140I24.2	-1.8	0.0261	0.0005
RP11-767N15.1	-1.98	0.0262	0.0005
MIR1244-1; MIR1244-4	-3.74	0.0262	0.0005
Y_RNA	-4.28	0.0263	0.0005
ANKHD1; EIF4EBP3; ANKHD1-EIF4EBP3	2.79	0.0263	0.0005
C1S	104.14	0.0263	0.0005
CTXN1	-2.09	0.0263	0.0005
CRYBG3	2.74	0.0263	0.0005
CDKN1B	19.37	0.0263	0.0005
PRKCH	-224.65	0.0263	0.0005
KAT6B	3.39	0.0263	0.0005

SYNC	26.47	0.0263	0.0005
PNRC2P1	2.5	0.0263	0.0005
NDUFB2	-4.06	0.0263	0.0005
ZNF691	2.04	0.0263	0.0005
MTO1	8.46	0.0263	0.0005
RAB3GAP2; AURKAPS1	9.51	0.0263	0.0005
RPL23AP3	-3.09	0.0263	0.0005
ATF6B	18.74	0.0264	0.0005
ACO1	18.48	0.0264	0.0005
FAN1	2.03	0.0264	0.0005
SNORD104	-52.73	0.0264	0.0005
OSGEPL1	2.66	0.0264	0.0005
VPS36	3.45	0.0264	0.0005
IL32	-30.98	0.0265	0.0005
POLH	7.98	0.0265	0.0005
RRP15	3.67	0.0265	0.0005
HMG1N1P34	-1.7	0.0265	0.0005
LOC730100; AC007682.1	-3.17	0.0267	0.0005
KB-1000E4.2	-1.78	0.0267	0.0005
FAM46A	31.28	0.0267	0.0005
ZNF224	3.56	0.0267	0.0005
CHCHD2	3.28	0.0267	0.0005
NFIC	9.07	0.0267	0.0005
TMEM106B	3.16	0.0268	0.0005
CAST	4.25	0.0268	0.0005
RP11-545P7.4	-9.42	0.0268	0.0005
POSTN	-371.78	0.0268	0.0005
SAMD4A	-18.18	0.0268	0.0005
AGTR1	43.5	0.0269	0.0005
RBAK-RBAKDN	2.04	0.0269	0.0005
PABPC1; MIR7705	3.43	0.0269	0.0005
NCOA3	5.5	0.0269	0.0005
USP5	4.21	0.0269	0.0005
VWA9	5.7	0.0269	0.0005
MCTP1	-489.72	0.027	0.0005
PARVA	28.15	0.027	0.0005
TXNDC16	3.87	0.027	0.0005
MTCO1P12	-2.44	0.027	0.0005
SF3B1	2.12	0.027	0.0005
FAM134A	3.13	0.027	0.0005
SND1; SND1-IT1	5.43	0.027	0.0005
ASPH	3.88	0.027	0.0005

FAM175B	2.14	0.027	0.0005
LACC1	9.35	0.027	0.0005
TOM1L2	4.02	0.027	0.0005
GRAMD1B	42.11	0.027	0.0005
CDC23	3.7	0.0271	0.0005
LOC102724050; LINC01154; RP11-753H16.3; RP11-753H16.5	-12.58	0.0271	0.0005
STARD9	3.38	0.0271	0.0005
RP11-230B22.1	1.66	0.0271	0.0005
RP11-440D17.3	2.09	0.0271	0.0005
ARHGDIB	-421.04	0.0271	0.0005
RNA5SP106	-1.84	0.0271	0.0005
RSPH3	7.55	0.0271	0.0005
ARHGEF40	4.55	0.0271	0.0005
TEAD1	31.75	0.0272	0.0005
CEP89	4.17	0.0272	0.0005
ITPA	132.12	0.0272	0.0005
SAMD15	2.34	0.0273	0.0005
RNU1-52P	-2.05	0.0273	0.0005
SF1	6.35	0.0273	0.0005
SMN1; SMN2	3.34	0.0274	0.0005
CXCL8	-314.03	0.0274	0.0005
RPL23AP89	-4.34	0.0275	0.0005
RP11-34P13.7; RP11-34P13.8	4.71	0.0275	0.0005
FAM27D1	-2.44	0.0275	0.0005
SYNM	4.37	0.0275	0.0005
PVR	-35.73	0.0275	0.0005
RNF125	3.27	0.0276	0.0005
CADM3	-33.26	0.0277	0.0006
TMEM214	5.82	0.0277	0.0006
MANBA	18.94	0.0277	0.0006
ARID5B	70.26	0.0277	0.0006
RN7SL585P	-1.92	0.0277	0.0006
LPAR1	205.36	0.0277	0.0006
RPS18P13	-2.03	0.0277	0.0006
ZNF542P	7.13	0.0277	0.0006
RP11-457I16.2	-2.12	0.0278	0.0006
DCAF5	9.93	0.0278	0.0006
KLHL28	5.33	0.0279	0.0006
LCLAT1	4.68	0.0279	0.0006
HACL1	9.65	0.0279	0.0006
BAG6	64.2	0.0279	0.0006
RP11-44K6.4	-2.89	0.028	0.0006

SOCS6	6.49	0.028	0.0006
RABL2B	4.27	0.028	0.0006
PPIAL4F	-2.9	0.028	0.0006
RPS20P15	13.31	0.028	0.0006
SEPSECS	2.45	0.028	0.0006
SNORD49A; SNORD65; LRRC75A-AS1	4.11	0.028	0.0006
CCDC14	3.82	0.028	0.0006
RP11-867G23.2	-2.08	0.028	0.0006
USP22	11.48	0.028	0.0006
SLC1A2	27.83	0.028	0.0006
THRB	8.06	0.028	0.0006
BAZ1B	3.97	0.028	0.0006
RP11-10N23.4	2.62	0.0281	0.0006
BTBD2	12.53	0.0281	0.0006
ARMT1	7.94	0.0281	0.0006
PLAGL1; HYMAI	4.94	0.0282	0.0006
HIRAP1	-2.02	0.0282	0.0006
C21orf33	3.86	0.0282	0.0006
GTPBP4	2.56	0.0282	0.0006
RN7SKP74	3.19	0.0282	0.0006
SPEG	2.17	0.0283	0.0006
ZZEF1	2.58	0.0283	0.0006
NPR2	6.33	0.0283	0.0006
CDHR5	-2.29	0.0283	0.0006
GAS6	30.4	0.0283	0.0006
MTMR3	3.34	0.0283	0.0006
PRH1; TAS2R14; PRR4	2.94	0.0284	0.0006
NUP160	2.74	0.0284	0.0006
CALM1P1	-1.62	0.0284	0.0006
SPRED2	20.7	0.0285	0.0006
NPM1P42	-2.36	0.0285	0.0006
HNRNPA1	2.8	0.0285	0.0006
MIR4426	-2	0.0285	0.0006
DBT	4.11	0.0285	0.0006
WBSCR22	15.59	0.0285	0.0006
LRIG2	3.33	0.0285	0.0006
DNAJC2	-4.51	0.0286	0.0006
SEMA5A	85.14	0.0286	0.0006
NAIP	5.67	0.0286	0.0006
ZNF674	3.04	0.0286	0.0006
MAP1A	58.21	0.0286	0.0006
RP11-46E17.8	-1.66	0.0286	0.0006

ZNF740	3.36	0.0287	0.0006
ATP5A1	16.43	0.0287	0.0006
SLC39A11	2.93	0.0288	0.0006
TOMM34	5.18	0.0288	0.0006
MTMR1	4.61	0.0289	0.0006
ARMC9	16.54	0.0289	0.0006
LA16c-444G7.1	-1.65	0.0289	0.0006
ZNF350	6.06	0.029	0.0006
TIAF1; MYO18A	10.95	0.0291	0.0006
IDNK	6.92	0.0292	0.0006
CNN1	2.81	0.0292	0.0006
HNRNPK; MIR7-1	2.32	0.0292	0.0006
C6orf106	3.85	0.0293	0.0006
FLNA	2.72	0.0293	0.0006
RP11-19P22.8	-15.27	0.0293	0.0006
NUCB1	2.95	0.0294	0.0006
GCNT4	14.35	0.0294	0.0006
EMILIN1	4.96	0.0296	0.0006
CLRN1-AS1	-2.26	0.0296	0.0006
TSSK3	5.99	0.0296	0.0006
TMEM87B	3.44	0.0296	0.0006
FAF1	2.99	0.0296	0.0006
PRRC2B	1.83	0.0296	0.0006
TCEB1P35	-2.34	0.0296	0.0006
CAMKK2	3.41	0.0296	0.0006
ABHD4	3.37	0.0296	0.0006
SCFD1	4.81	0.0296	0.0006
TP53TG3B	2.58	0.0296	0.0006
RNF111	2.13	0.0296	0.0006
PCNXL2	59.67	0.0297	0.0006
COL3A1; MIR3606	458.91	0.0297	0.0006
WTAP	9.61	0.0297	0.0006
NFE2L3	-94.04	0.0297	0.0006
GSR	2.15	0.0297	0.0006
XYLT1	6.12	0.0297	0.0006
RANBP9	3	0.0297	0.0006
SNORD114-10	4.49	0.0297	0.0006
COMMD8	3.3	0.0298	0.0006
MT1P1	-2.17	0.0298	0.0006
SHFM1P1	-2.2	0.0299	0.0006
PHYKPL	4.56	0.0299	0.0006
AP5M1	3.66	0.0299	0.0006

MPPE1	3.65	0.03	0.0006
RAD1	8.59	0.03	0.0006
PRKAA1	6.66	0.03	0.0006
INIP	5.45	0.03	0.0006
RPS29P20	-2.17	0.03	0.0006
SRSF4	7.02	0.03	0.0006
NUMA1	17.11	0.03	0.0006
FAXDC2	29.96	0.0301	0.0006
EXOC3	3.67	0.0301	0.0006
SERTAD2	6.57	0.0301	0.0006
ABCA9-AS1	2.99	0.0301	0.0006
CTB-52I2.7	-2.01	0.0301	0.0006
LEMD2	4.61	0.0301	0.0006
SNX13	2.76	0.0301	0.0006
RBM12; CPNE1	19.63	0.0301	0.0007
MTND6P14	-2.98	0.0301	0.0007
GUSBP9; TCONS_I2_00023779	5.85	0.0301	0.0007
BAALC	16.53	0.0303	0.0007
CNST	3.63	0.0303	0.0007
QRICH1	5.85	0.0304	0.0007
LAPTM5	-83.49	0.0304	0.0007
SNX29P2; SNX29P1	3.51	0.0304	0.0007
CCDC136	4.46	0.0306	0.0007
SF3A3	3.45	0.0307	0.0007
OR7E12P	4.64	0.0308	0.0007
DCUN1D2	2.17	0.0308	0.0007
EPM2AIP1	2.25	0.0308	0.0007
GPR39	-8.95	0.0309	0.0007
TBC1D23	3.88	0.0309	0.0007
ZC4H2	-3.47	0.0309	0.0007
NBPF3	4.64	0.0309	0.0007
RPL23AP41	-3.88	0.031	0.0007
CXorf56	3.35	0.031	0.0007
DYNLL1P1	-3.45	0.031	0.0007
HSPE1P6	-4.04	0.031	0.0007
CCDC74A	5.94	0.0311	0.0007
ECM2	43.76	0.0311	0.0007
SON; MIR6501	5.31	0.0312	0.0007
SMARCB1	5.44	0.0312	0.0007
DYRK2	5.62	0.0312	0.0007
ATXN2L	-3.18	0.0312	0.0007
PMS1	4.56	0.0312	0.0007

NKX2-8	-1.88	0.0312	0.0007
RNA5SP258	-1.86	0.0313	0.0007
INPP5B	2.91	0.0313	0.0007
RNU7-69P	-2.41	0.0313	0.0007
CMC2	-6.14	0.0313	0.0007
GLIS3	4.3	0.0313	0.0007
ZNF260	-3.48	0.0313	0.0007
C20orf194	6.2	0.0315	0.0007
PCDH9	-4.3	0.0315	0.0007
SNX30	3.9	0.0315	0.0007
CCDC77	2.65	0.0316	0.0007
NBPF9	9.24	0.0316	0.0007
RPL23AP27	-2.52	0.0316	0.0007
Y_RNA	-2.03	0.0316	0.0007
RBM41	4.4	0.0317	0.0007
SLC25A32	3.28	0.0317	0.0007
KLHL22	2.85	0.0317	0.0007
RP6-74O6.6	2.94	0.0318	0.0007
LINC00964	-2.43	0.0318	0.0007
SERINC3	7.84	0.0318	0.0007
DNM1	34.4	0.0318	0.0007
ZMPSTE24	8.48	0.0318	0.0007
FAM102B	7	0.0319	0.0007
RNF10	1.83	0.0319	0.0007
ZNF135	4.61	0.0319	0.0007
TRIM2	33.51	0.0319	0.0007
RP11-522N14.2	-2.32	0.0319	0.0007
RP11-521L9.1	2.14	0.032	0.0007
SPG11	3.06	0.032	0.0007
DAP3	2.55	0.032	0.0007
RSL24D1P5	-1.87	0.032	0.0007
USP12PY	-2.57	0.032	0.0007
SLC36A4	3.46	0.0321	0.0007
BICD1	2.34	0.0321	0.0007
ZNF286B; FOXO3B	2.97	0.0321	0.0007
HESX1	4.01	0.0322	0.0007
KIAA0232	3.32	0.0322	0.0007
RP4-742N3.1	-2.15	0.0322	0.0007
SLC16A4	48.56	0.0322	0.0007
GPAM	4.23	0.0322	0.0007
MYO9A	5.4	0.0322	0.0007
DHX8	3	0.0322	0.0007

SHISA3	-2.16	0.0322	0.0007
POLR2A	11.06	0.0323	0.0007
GTF2H2	5.58	0.0323	0.0007
CUL5	2.71	0.0323	0.0007
KIAA1715	37.54	0.0323	0.0007
ANKRD1	-8948.59	0.0323	0.0007
IQCK	3.57	0.0323	0.0007
KPNB1	3.12	0.0323	0.0007
RPL21P42	-1.98	0.0324	0.0007
CDHR3	2.45	0.0325	0.0007
CACHD1	3.29	0.0325	0.0007
MTFR1L	20	0.0325	0.0007
FTH1P9	-1.76	0.0326	0.0007
SMAD4	2.91	0.0326	0.0007
FAM85A; AC145124.2	4.7	0.0326	0.0007
RPL23AP73	-2.71	0.0326	0.0007
SLC1A5	11.44	0.0327	0.0008
BNIP3P7	-223.56	0.0327	0.0008
ZNF568	5.96	0.0327	0.0008
CH17-437K3.1; RP11-343N15.2	-2.06	0.0327	0.0008
RBM5	4.11	0.0327	0.0008
ANKRD20A1	-2.09	0.0327	0.0008
GRAMD4P6	-1.47	0.0327	0.0008
PPP4R3A	3.56	0.0328	0.0008
RNU6-933P	-1.95	0.0328	0.0008
SUMF1	2.49	0.0328	0.0008
MIR8083	-1.69	0.0329	0.0008
BCKDHB	11.05	0.033	0.0008
LMNA	69.78	0.033	0.0008
RASSF4	5.56	0.033	0.0008
SLC25A16	4.44	0.033	0.0008
MPP5	3.67	0.033	0.0008
TRMT44	2.47	0.0331	0.0008
RAET1E-AS1	-1.46	0.0331	0.0008
RPL23AP48	-1.85	0.0331	0.0008
PTGER3	28.49	0.0333	0.0008
C4orf46	6.89	0.0333	0.0008
ART4	-6.13	0.0333	0.0008
AQP7	1.93	0.0334	0.0008
RNU6-786P	2.58	0.0334	0.0008
RSC1A1; DDI2	4.98	0.0335	0.0008
RPL39P	-2.78	0.0335	0.0008

DPP8	4.29	0.0335	0.0008
YTHDF1	2.14	0.0335	0.0008
DLEU2_2	9.51	0.0336	0.0008
Y_RNA	-5.13	0.0336	0.0008
NOS3	-33.22	0.0336	0.0008
SLC2A5	2.39	0.0336	0.0008
SPOP	5.62	0.0337	0.0008
BCAP29	-6.11	0.0337	0.0008
NFAT5	8.15	0.0337	0.0008
GIT2	4.32	0.0338	0.0008
RP11-440D17.4	3.46	0.0338	0.0008
GS1-124K5.11; TCONS_I2_00027397; TCONS_I2_00026657;	6.86	0.0338	0.0008
RPL7P29	-2.16	0.0339	0.0008
COL21A1	9.69	0.0339	0.0008
RPL12P30	-2.54	0.0339	0.0008
MEIS3	8.6	0.0339	0.0008
HNRNPA3P7	-2.01	0.0339	0.0008
NSMCE2	2.26	0.0339	0.0008
MIR512-1; MIR512-2	-1.7	0.0339	0.0008
MIR512-2	-1.7	0.0339	0.0008
GOLGA8Q	5.67	0.0339	0.0008
KB-1460A1.5	5.3	0.0339	0.0008
CSAD	2.21	0.0339	0.0008
RAB1A	3.85	0.034	0.0008
WASL	5.49	0.0341	0.0008
SERPINE1	-28.68	0.0341	0.0008
PDIA6	5.87	0.0341	0.0008
ADAT1	4.39	0.0341	0.0008
RAP2C-AS1	3.84	0.0341	0.0008
CHI3L1	4.08	0.0342	0.0008
SUN1	20.15	0.0342	0.0008
RP11-360N9.2	-2.12	0.0342	0.0008
CTD-3092A11.2; TCONS_I2_00008519	3.01	0.0342	0.0008
CUL4A	8.8	0.0342	0.0008
INPP5F	4.73	0.0343	0.0008
PXYLP1	2.41	0.0343	0.0008
TLR8-AS1	-1.65	0.0343	0.0008
MMP14	4.91	0.0343	0.0008
HMG1P32	-2.06	0.0343	0.0008
LINC00341	7.94	0.0344	0.0008
SMU1	3.74	0.0344	0.0008
GLUD1P3	12.89	0.0344	0.0008

SCYL3	3.47	0.0345	0.0008
PCYT1A	8.47	0.0345	0.0008
RPS4XP15	-1.51	0.0345	0.0008
POLR3D	6.04	0.0346	0.0008
RP11-121A8.1	-1.87	0.0346	0.0008
VEZT	-2.53	0.0348	0.0008
NPM1P52	-1.67	0.0348	0.0008
TRPC4AP	2.91	0.0349	0.0008
RPL21P1	-4.21	0.0349	0.0008
PCDH18	238.29	0.035	0.0008
GBAS	3.38	0.035	0.0008
DVL3	3.85	0.035	0.0008
PLEKHO1	7.37	0.035	0.0009
FGF7P2	9.12	0.035	0.0009
ERCC6; ERCC6-PGBD3; PGBD3	-12.72	0.0351	0.0009
SDHAP3	3.5	0.0351	0.0009
UBQLN1	4.65	0.0351	0.0009
CALCOCO1	13.45	0.0351	0.0009
GDPD1	-5.64	0.0351	0.0009
ATP5L2	-3.17	0.0351	0.0009
MTCO2P22	-3.52	0.0351	0.0009
SNX12	18.92	0.0351	0.0009
BCAS3	2.76	0.0351	0.0009
METAP1D	2.47	0.0352	0.0009
FAM156A	5.26	0.0352	0.0009
BIVM-ERCC5	5.66	0.0352	0.0009
IFFO1	3.83	0.0352	0.0009
ADNP2	2.69	0.0353	0.0009
ZNF497; A1BG	-2.14	0.0353	0.0009
SH3RF1	6.09	0.0353	0.0009
NID2	74.57	0.0353	0.0009
PPP2R1A	24.4	0.0353	0.0009
CTD-2363C16.1	2.58	0.0354	0.0009
NRP2	-45.91	0.0354	0.0009
RNA5SP263	-2.14	0.0354	0.0009
SUOX	4.79	0.0355	0.0009
RPS26P34	-3.13	0.0355	0.0009
DTWD1	14.26	0.0355	0.0009
RPL23AP91	-2.34	0.0355	0.0009
KCNJ2	33.91	0.0355	0.0009
SPATA6	18.79	0.0355	0.0009
Y_RNA	-36.72	0.0355	0.0009

LCE1E	-2.41	0.0356	0.0009
RLIM	5.89	0.0356	0.0009
SCARA3	17.64	0.0356	0.0009
CHPF2; MIR671	3.46	0.0357	0.0009
MBTPS2; YY2	8.15	0.0358	0.0009
PAN3; RNU6-82P	3.36	0.0358	0.0009
WSB1	4.94	0.0358	0.0009
ALDH9A1	85	0.0358	0.0009
PDCL3P4	-3.32	0.0358	0.0009
ZNF554	2.5	0.0359	0.0009
RNF169	3.72	0.0359	0.0009
RNU5E-9P	-1.55	0.0359	0.0009
NIPAL2	51.91	0.0359	0.0009
SLC15A3	20.48	0.036	0.0009
GBA2	2.96	0.036	0.0009
NR3C1	26.25	0.0361	0.0009
ATP2B1	28.98	0.0361	0.0009
DCUN1D3	9.27	0.0361	0.0009
BARX1	2.41	0.0362	0.0009
BTN3A3	14.75	0.0363	0.0009
GORASP2	3.76	0.0363	0.0009
HSPA5	2.14	0.0363	0.0009
HERC2P9	3.16	0.0363	0.0009
RP4-773N10.4	2.65	0.0364	0.0009
ZNF331	2.91	0.0364	0.0009
MARK2P14	-1.62	0.0364	0.0009
GBP1	18.1	0.0365	0.0009
NDUFAF6	6.7	0.0365	0.0009
REXO4	2.63	0.0365	0.0009
ANKFY1	8.26	0.0365	0.0009
CDC42P3	-2.56	0.0366	0.0009
WDR20	2.36	0.0366	0.0009
SEL1L3	-546.41	0.0367	0.0009
VPS13D	6.98	0.0368	0.0009
KLF11	4.38	0.0368	0.0009
PUDP	10.68	0.0368	0.0009
CCDC18	5.16	0.0368	0.0009
DLEU2_4	2.8	0.0368	0.0009
RP5-1065P14.2	-1.94	0.0368	0.0009
ALDH7A1	8.04	0.0368	0.0009
LONRF1	14.03	0.0368	0.0009
RP11-977G19.11	-4.24	0.0368	0.0009

LYRM1	12.15	0.0368	0.0009
TBC1D20	2.42	0.0368	0.0009
SLC12A6	5.6	0.0369	0.0009
ARHGAP42P3	-1.58	0.0369	0.0009
NHS	3.12	0.037	0.0009
RP11-396F22.1	-2.05	0.037	0.0009
TFEC	-110.64	0.037	0.0009
MTCO3P31; RP11-331O9.2; MTATP6P31	-2.99	0.037	0.0009
PIGK	18.22	0.037	0.0009
CTDSPL2	5.63	0.037	0.0009
ZNF557	3.56	0.037	0.0009
SUSD2	2.09	0.037	0.0009
BTN3A2	46.36	0.037	0.0009
LAMC1	34.03	0.037	0.0009
PIKFYVE	3.07	0.037	0.0009
LINC01013	-4786.56	0.037	0.0009
TAOK3	3.87	0.0371	0.0009
GOLGA80	6.1	0.0371	0.0009
HBS1L	5.9	0.0371	0.0009
FYTTD1	2.07	0.0371	0.0009
RGS5	-638.33	0.0371	0.001
PRMT9	3.16	0.0371	0.001
SYAP1	14.71	0.0371	0.001
LUM	1629.16	0.0371	0.001
ILF3	5.34	0.0371	0.001
MIR4759	-2.71	0.0371	0.001
VCL	13.93	0.0372	0.001
VPS11	6.73	0.0372	0.001
FAM129B	6.54	0.0374	0.001
C18orf32	-9.84	0.0375	0.001
GDAP1	4.15	0.0375	0.001
RP11-1112J20.2	-1.87	0.0375	0.001
SETDB1	4.47	0.0375	0.001
ERGIC2	2.02	0.0375	0.001
ATP6V0E2-AS1	1.84	0.0375	0.001
LYG2	2.28	0.0375	0.001
CARS	4.26	0.0377	0.001
LOC101928489; RP11-553A21.3	2.51	0.0377	0.001
AUH	6.79	0.0377	0.001
CHM	3.88	0.0377	0.001
LAMTOR1	49.58	0.0377	0.001
YY1AP1	4	0.0377	0.001

ATG2B	4.18	0.0377	0.001
REV3L	77.06	0.0377	0.001
SATB2	17.49	0.0377	0.001
GABPA	3.85	0.0378	0.001
PLIN3	7.77	0.0378	0.001
RN7SL270P; AC068152.1	2	0.0378	0.001
CENPP	16.54	0.0379	0.001
ZNF449	2.37	0.0379	0.001
FJX1	2.44	0.0379	0.001
TBC1D15	11.56	0.0379	0.001
KMT2B	2.36	0.0379	0.001
COL12A1	197.29	0.0379	0.001
PLCL2; MIR3714	6.12	0.0379	0.001
MMRN1	-425.71	0.0379	0.001
HHIP-AS1	-103.9	0.0379	0.001
MGST1	50.33	0.0379	0.001
MAFIP; TEKT4P2	58.26	0.0379	0.001
C15orf54	-468.61	0.0379	0.001
OGFOD1	5.8	0.0379	0.001
AP1G1	3.12	0.0379	0.001
FBLN1	176.48	0.0379	0.001
IARS2P1	-1.56	0.0379	0.001
RNU6-554P	-2.7	0.0379	0.001
CRYM	13.02	0.0379	0.001
LDB1	48.87	0.038	0.001
ATP5B	2.12	0.038	0.001
HSF2	2.94	0.038	0.001
TCF3	-6.78	0.038	0.001
TMEM63A	2.95	0.038	0.001
MTND1P11	-3.84	0.038	0.001
RPS4Y1	-44237.34	0.038	0.001
SNX33	18.2	0.0381	0.001
RN7SL666P	-1.6	0.0381	0.001
CRAT8; RP11-349K16.1	-1.74	0.0381	0.001
EML4	4.89	0.0381	0.001
RP11-644C3.1	-2.19	0.0381	0.001
EDN1	-488.41	0.0381	0.001
MAP4K5	4.36	0.0381	0.001
MAN2A2	5.87	0.0381	0.001
SNORA50C; SNHG25	-5.53	0.0381	0.001
DDX10P1	-5.45	0.0381	0.001
PCNA-AS1	6.39	0.0381	0.001

RP11-352M15.1	-1.68	0.0381	0.001
KLHL9	2.6	0.0382	0.001
MTRR	3.42	0.0382	0.001
NRCAM	-65.25	0.0382	0.001
NOTCH2	17.57	0.0383	0.001
C9orf78	3.05	0.0383	0.001
FAR1	5.61	0.0383	0.001
NF2	5.19	0.0383	0.001
SYNGR2	-7.57	0.0384	0.001
ZNF780A	3.01	0.0384	0.001
ELOVL6	74.82	0.0384	0.001
OGN	14.49	0.0385	0.001
STAM	5.83	0.0385	0.001
PPIL3	6.46	0.0385	0.001
RP11-206L10.10; TCONS_12_00000968	6.02	0.0386	0.001
Y_RNA	-1.55	0.0386	0.001
FBXW4	9.36	0.0386	0.001
ABLIM1	-49.97	0.0387	0.001
MAP3K7CL	6.92	0.0387	0.001
ITGB8	-10.65	0.0387	0.001
ZKSCAN5	3.38	0.0388	0.001
ZNF615	3.11	0.0388	0.001
VCPKMT	3.17	0.0388	0.001
RPL23AP19	-3.42	0.0388	0.001
TAPBP	5.28	0.0389	0.001
NCSTN	14.77	0.0389	0.001
PDCD5P1	-4.3	0.0389	0.001
NPEPPS	2.83	0.0389	0.001
COX6CP2	-1.84	0.039	0.001
CCDC169-SOHLH2	9.37	0.039	0.001
FBXO38	3.43	0.0391	0.0011
STARD5	13.3	0.0391	0.0011
CAMK2N1	20.92	0.0391	0.0011
PRKAB2	4.1	0.0391	0.0011
GSN	36.81	0.0391	0.0011
TMCO3	7.57	0.0391	0.0011
ATP6V0A1; MIR5010	35.25	0.0391	0.0011
PICALM	2.15	0.0392	0.0011
NSG1; D4S234E	-26.89	0.0392	0.0011
EBF2	154.24	0.0392	0.0011
ELMOD3	2.2	0.0393	0.0011
BLVRA	50.38	0.0393	0.0011

DENND4C	5.27	0.0393	0.0011
MKX-AS1	-1.86	0.0394	0.0011
ECH1	110.21	0.0394	0.0011
GLI3	14.98	0.0394	0.0011
RNF219	2.21	0.0394	0.0011
SNORA11	2.81	0.0394	0.0011
LLGL1	2.09	0.0396	0.0011
TMED3	18.87	0.0396	0.0011
ROR1	9.68	0.0396	0.0011
TWSG1	21.2	0.0396	0.0011
ZNF266	4.83	0.0398	0.0011
PBX2	4.59	0.0398	0.0011
EIF4G2; SNORD97	1.86	0.0398	0.0011
GLIS1	2.06	0.0398	0.0011
ICA1	-28.1	0.0399	0.0011
SRGAP3	2.72	0.0399	0.0011
MYDGF	15.45	0.04	0.0011
FOXJ2	5.16	0.04	0.0011
EIF3I	11.75	0.04	0.0011
ALPL	1.54	0.0401	0.0011
GFM2	11.05	0.0401	0.0011
IMMT	2.85	0.0401	0.0011
ANXA1	7.23	0.0402	0.0011
ZNF655	6.8	0.0403	0.0011
HSPE1P12	-1.76	0.0403	0.0011
AA06; RP11-31I22.1	-1.74	0.0403	0.0011
PLEKHA5	14.05	0.0403	0.0011
SKAP2	-5.33	0.0403	0.0011
TCP11L2	8.44	0.0403	0.0011
KIAA0513	2.72	0.0403	0.0011
BHLHB9	3.52	0.0403	0.0011
RNASEL	5.81	0.0403	0.0011
PEX11B	8.77	0.0403	0.0011
RNU6-1060P	-6.72	0.0403	0.0011
KRTAP1-3	2.22	0.0403	0.0011
MIA3	3.74	0.0403	0.0011
IFT43	3.26	0.0403	0.0011
ZNF419	9.03	0.0403	0.0011
RNU6-1056P	-2.4	0.0404	0.0011
NLK	-17.43	0.0404	0.0011
NFATC3	2.66	0.0404	0.0011
SPRED1	5.86	0.0404	0.0011

SEC23A	9.97	0.0405	0.0011
AMBRA1	3.82	0.0406	0.0011
BACH1	28.97	0.0406	0.0011
ITGA5	-15.36	0.0407	0.0011
LOC100128494; RP11-849H4.4	5.22	0.0407	0.0011
TSPYL5	3.07	0.0407	0.0011
MAP6	4.61	0.0407	0.0011
ASCC1	3.64	0.0407	0.0011
ITSN2	-5.39	0.0407	0.0011
RNU6-78P	-2.53	0.0407	0.0011
SH3BGR	2.75	0.0408	0.0011
ZFP30	3.31	0.0408	0.0011
AMPH	2.46	0.0408	0.0011
YARS2	-12.43	0.0408	0.0011
SRR	3.88	0.0408	0.0011
RPL31P20	3.26	0.0408	0.0011
NXPE3	4.58	0.0408	0.0011
NCF1C	-1.91	0.0409	0.0011
RP11-30J20.1	1.95	0.0409	0.0011
RP11-483F11.7	-3.35	0.0409	0.0011
NMT1	7.93	0.0409	0.0011
FTX_3	13.33	0.0409	0.0012
RP11-65L3.2	4.19	0.0409	0.0012
SGTB	6.13	0.041	0.0012
CDC34	-3.14	0.041	0.0012
SNRNP70	5.83	0.041	0.0012
TMEM27	1.83	0.0411	0.0012
SLFN5	8.1	0.0411	0.0012
KIAA1199	3.16	0.0411	0.0012
STAG1	7.86	0.0412	0.0012
MED23	2.48	0.0412	0.0012
RP3-377H17.2	-1.62	0.0412	0.0012
MIR3179-3; MIR3179-1	-1.81	0.0412	0.0012
CTD-3012A18.1	-1.8	0.0413	0.0012
COPA	5.37	0.0413	0.0012
ZC3H4	5.24	0.0413	0.0012
PGAM1	8.45	0.0414	0.0012
MBOAT1	4.08	0.0414	0.0012
LINC01611	-3.07	0.0414	0.0012
VPS11	2.33	0.0414	0.0012
IGF2BP3	4.3	0.0414	0.0012
CHID1	28.46	0.0415	0.0012

PQLC2L	105.01	0.0415	0.0012
RNU7-74P	-1.45	0.0416	0.0012
RNF170; MIR4469	3.52	0.0416	0.0012
C9orf3; MIR24-1; MIR23B; MIR27B	2.05	0.0416	0.0012
RP11-259O18.4	-1.74	0.0416	0.0012
NFIX	254.51	0.0416	0.0012
RPL7P4	-1.89	0.0416	0.0012
RP11-648L3.2	1.98	0.0417	0.0012
PMPCB	3.94	0.0418	0.0012
ZNF17	3.1	0.0418	0.0012
A4GALT	2.84	0.0418	0.0012
RPS12P18	-1.79	0.0418	0.0012
ZNF772	4.15	0.0419	0.0012
PGBD4P3	-1.82	0.0419	0.0012
RPL36AP13	-4.43	0.0419	0.0012
CAAP1	6.47	0.0419	0.0012
SLC35E2B	10.59	0.042	0.0012
PPP3CB	6.24	0.0421	0.0012
ZNF44	1.55	0.0421	0.0012
SFT2D2	5.13	0.0422	0.0012
ATL3	13.78	0.0422	0.0012
RP11-536K7.3	-2.85	0.0422	0.0012
ZNF827	1.9	0.0423	0.0012
SNRPGP19	-2.01	0.0423	0.0012
LOC103021295	-8.42	0.0423	0.0012
FBXW2	8.7	0.0423	0.0012
RP13-753N3.3	-10.36	0.0423	0.0012
STK36	2.91	0.0423	0.0012
CCT3	3.5	0.0423	0.0012
UXS1	17.82	0.0424	0.0012
RP11-498C9.13	-28.33	0.0424	0.0012
RP11-796A5.3	-2.12	0.0425	0.0012
MSRB1	2.83	0.0425	0.0012
LOC101927660; RP5-865N13.1	-2.08	0.0425	0.0012
METTL21A	3.64	0.0425	0.0012
Y_RNA	2.51	0.0425	0.0012
KIF13A	3.65	0.0425	0.0012
CTR9	5.41	0.0425	0.0012
COMMD9	6.43	0.0425	0.0012
SRSF1	4.38	0.0425	0.0012
UBXN7	2.53	0.0425	0.0012
HEATR5A	3.05	0.0425	0.0012

UBAC2	4.87	0.0425	0.0012
GRPEL2P1	-1.76	0.0426	0.0012
SLC35E2	14.69	0.0426	0.0012
CRIPAK	6.93	0.0426	0.0012
CHCHD1	-3.72	0.0426	0.0012
ZNF780A	3.26	0.0426	0.0012
MEF2D	2.13	0.0426	0.0012
PGM1	11.26	0.0426	0.0012
CTD-2282P23.2	4.02	0.0426	0.0012
ZNF571	2.26	0.0428	0.0012
STXBP6	16.97	0.0428	0.0013
CADM3-AS1	-6.03	0.0429	0.0013
FAM225A	1.46	0.0429	0.0013
KLHDC2	7.08	0.0429	0.0013
PSMB8	47.29	0.0429	0.0013
COMMD5	2.88	0.0429	0.0013
THTPA	4.15	0.0429	0.0013
FBXL13	-2.13	0.043	0.0013
ZC3H7A	3.03	0.043	0.0013
PFN1P11	-1.63	0.043	0.0013
FAM155A	2.48	0.0431	0.0013
PDHB	12.38	0.0431	0.0013
FAM160B1	2.4	0.0431	0.0013
HNRNPKP3	-2.1	0.0431	0.0013
TP53BP1	6.26	0.0432	0.0013
CRTC3	2.56	0.0432	0.0013
MOXD1	5224.43	0.0432	0.0013
GYG1	11.87	0.0433	0.0013
WRN	3.55	0.0433	0.0013
ZNF570	2.31	0.0433	0.0013
RP11-206M11.7	-2.28	0.0433	0.0013
PCNP	3.28	0.0433	0.0013
TBC1D16	1.73	0.0434	0.0013
MIR4461	-4.05	0.0434	0.0013
RB1CC1	6.48	0.0434	0.0013
SIN3A	5.01	0.0434	0.0013
TMEM222	2.44	0.0435	0.0013
EIF2B3	7.12	0.0435	0.0013
RP11-126L15.4	2.03	0.0435	0.0013
GNE	2.96	0.0435	0.0013
RAD23A	12.4	0.0435	0.0013
PBRM1	4.04	0.0435	0.0013

GYG2-AS1; RP11-146D5.3	-2.55	0.0435	0.0013
BOLA2B; BOLA2	-3.06	0.0435	0.0013
STAU1	2.9	0.0435	0.0013
CMTR1	2.79	0.0435	0.0013
TNFRSF21	3.03	0.0435	0.0013
MCCC2	3.59	0.0435	0.0013
RP11-40A13.2	-1.47	0.0435	0.0013
UBTD2	2.62	0.0435	0.0013
TMEM14B	6.79	0.0435	0.0013
R3HDM2	10.06	0.0435	0.0013
CCT2	-6.49	0.0436	0.0013
C14orf119	3.16	0.0436	0.0013
CCDC92	19.09	0.0437	0.0013
LOC440311; RP11-255M2.3	-1.94	0.0437	0.0013
NDUFA10	3.31	0.0437	0.0013
CAPN7	3.06	0.0437	0.0013
MIR4487	-1.59	0.0437	0.0013
GLUL	66.43	0.0437	0.0013
RP11-1000B6.3	2.37	0.0437	0.0013
FBXL20	6.46	0.0437	0.0013
FPGT	4.98	0.0438	0.0013
RNU6-1229P	-1.42	0.0438	0.0013
LPAR1	3.03	0.044	0.0013
TIMM8BP1	-2.25	0.044	0.0013
LRIG3	12.12	0.0441	0.0013
HS3ST3B1	3.73	0.0441	0.0013
SNRFP1	-2.83	0.0441	0.0013
RP5-1182A14.7	-1.62	0.0441	0.0013
RNU1-150P	-1.78	0.0441	0.0013
NADK2	3.05	0.0441	0.0013
ZNF565	2.24	0.0441	0.0013
TTC3	12.59	0.0442	0.0013
RP5-1097P24.1	-1.77	0.0442	0.0013
TCTN2	5.44	0.0442	0.0013
RGMB-AS1	20.52	0.0443	0.0013
HSPD1P11	7.7	0.0443	0.0013
GSTK1	34.28	0.0443	0.0013
STARD13-AS	5.93	0.0443	0.0013
HELQ	4.09	0.0443	0.0013
S1PR2	723.51	0.0444	0.0013
RP11-280H21.1	-2.6	0.0445	0.0013
GOLGA8R	4.18	0.0445	0.0013

SLC25A5P5	-2.73	0.0445	0.0013
RP4-614O4.13	2.52	0.0445	0.0013
BROX	3.17	0.0445	0.0013
EBF3	2.7	0.0445	0.0013
LAYN	291.4	0.0445	0.0013
SNAR-A1; SNAR-A2	-2.2	0.0445	0.0013
SNAR-A9	-2.2	0.0445	0.0013
MYLIP; MIR4639	4.79	0.0446	0.0014
PPFIBP2	5.4	0.0446	0.0014
Metazoa_SRP	-2.43	0.0447	0.0014
RP11-23D24.2	-1.78	0.0448	0.0014
KIF1BP	-3.17	0.0448	0.0014
CTB-91J4.1	-1.59	0.0448	0.0014
RP11-2F20.1	-1.52	0.0449	0.0014
TSHZ3	2.21	0.0449	0.0014
RC3H1	2.85	0.0449	0.0014
PLXNA2	-142.93	0.0449	0.0014
TGOLN2	5.3	0.0449	0.0014
LMBRD2	4.26	0.0449	0.0014
SNORA31	-1.74	0.0449	0.0014
NUP214	2.48	0.045	0.0014
SLC25A3; SNORA53	4.93	0.045	0.0014
PLD3	58.26	0.045	0.0014
RCBTB2	4.02	0.045	0.0014
RP11-525J21.1	-2.61	0.045	0.0014
UBE2V1P2	-2.18	0.045	0.0014
HABP4	36.18	0.0451	0.0014
SLC2A10	7.83	0.0451	0.0014
SNORD115	-3.18	0.0451	0.0014
RPS15AP1	-1.6	0.0451	0.0014
DUSP23	-14.38	0.0452	0.0014
KLHL21	6.29	0.0452	0.0014
ZNF862	2.61	0.0452	0.0014
SLC1A1	6.35	0.0452	0.0014
PMF1; PMF1-BGLAP; BGLAP	7.15	0.0453	0.0014
AKR7A2	5.36	0.0453	0.0014
FBXL17	4.98	0.0453	0.0014
LUC7L3	3.22	0.0453	0.0014
PRKAA2	3.48	0.0453	0.0014
ANKRD10-IT1; RP11-365P13.4	2.29	0.0453	0.0014
RFX7	6.7	0.0453	0.0014
CYB5D1	3.54	0.0453	0.0014

MYO9B	2.39	0.0453	0.0014
RPL23AP80	-2.17	0.0453	0.0014
YTHDF3	5.13	0.0454	0.0014
LRP2BP	2.68	0.0454	0.0014
RAB3GAP1	6.93	0.0454	0.0014
SEC61A1	10.31	0.0454	0.0014
FBXO25	3.87	0.0454	0.0014
MSH3	5.53	0.0454	0.0014
SEMA3A	40.9	0.0454	0.0014
LOC101928894; RP11-702F3.3	-1.73	0.0454	0.0014
ERP29	4.37	0.0454	0.0014
TADA3	14.06	0.0454	0.0014
HDDC2	18.57	0.0454	0.0014
XIST	10464.52	0.0454	0.0014
NDUFS2	3.71	0.0455	0.0014
GNG12	7.32	0.0455	0.0014
LRIG1	18.28	0.0455	0.0014
RARG	41.96	0.0455	0.0014
ATG10	1.85	0.0456	0.0014
HNRNPU	2.61	0.0456	0.0014
RNU6-15P	-3.99	0.0456	0.0014
RPL23AP59	-2.48	0.0456	0.0014
FAM96A	4.51	0.0456	0.0014
EIF3C; EIF3CL	2.19	0.0456	0.0014
RP11-353N14.7	-1.5	0.0456	0.0014
NOSIP	25.14	0.0456	0.0014
SNRPE	-4.03	0.0456	0.0014
LINC00704	-1110.35	0.0456	0.0014
METTL9	4.13	0.0456	0.0014
CWF19L2	3.43	0.0458	0.0014
RP11-554D15.4	-1.65	0.0459	0.0014
LOC100507053; RP11-696N14.1	6.96	0.0459	0.0014
PSMA6P2	-3.5	0.0459	0.0014
IPO9	4.15	0.0459	0.0014
CD9	-9.94	0.0459	0.0014
AASDH	2.6	0.0459	0.0014
GUSBP6	-1.74	0.0459	0.0014
ASL	5.12	0.0459	0.0014
AC023128.1	-1.52	0.046	0.0014
STK4	6.05	0.046	0.0014
LANCL1	5.11	0.046	0.0014
CTD-2545M3.8	-1.68	0.0461	0.0014

FYCO1	5.05	0.0461	0.0014
DHPS	11.19	0.0461	0.0014
FRZB	7.32	0.0462	0.0015
NAALADL2	2.9	0.0462	0.0015
RN7SL849P	-79.11	0.0462	0.0015
RP11-452B18.2	-1.82	0.0462	0.0015
Metazoa_SRP	-1.64	0.0462	0.0015
RNPEPL1	2.1	0.0463	0.0015
ZC3H13	5.26	0.0463	0.0015
SOS1	5.33	0.0464	0.0015
RP11-49I4.3	3.45	0.0464	0.0015
RNY4P16	-1.86	0.0464	0.0015
RPL15	2.77	0.0464	0.0015
FLJ42969; RP11-302J23.1	-1.86	0.0464	0.0015
MYCT1	-710.78	0.0465	0.0015
MYLK	119.45	0.0465	0.0015
AOX1	153.04	0.0465	0.0015
RNA5SP461	-1.49	0.0467	0.0015
U4	2.64	0.0467	0.0015
ATP5G1P8	-2.6	0.0467	0.0015
SNX19	3.86	0.0467	0.0015
CYP1B1	79.04	0.0467	0.0015
MIR6809; TNS1	17.11	0.0467	0.0015
MIR582	-1.59	0.0467	0.0015
TBC1D5	3.2	0.0468	0.0015
MAB21L2	3.48	0.0468	0.0015
AC003986.7	9.05	0.0469	0.0015
TLK1	5.6	0.047	0.0015
CXorf23	2.51	0.047	0.0015
AP001464.4	-1.73	0.047	0.0015
PEG10	4.98	0.047	0.0015
RP11-369J21.12	2.37	0.047	0.0015
RP3-436N22.3	-1.54	0.047	0.0015
LRRC32	781.24	0.0471	0.0015
ZNF300	2.42	0.0471	0.0015
MIR1244-2; MIR1244-3	-3.58	0.0471	0.0015
MIR1244-1; MIR1244-2; MIR1244-3; MIR1244-4	-3.58	0.0471	0.0015
RN7SL126P; AC016753.1	-2.02	0.0471	0.0015
RP11-246A10.1	-1.78	0.0471	0.0015
GNB4	2.19	0.0472	0.0015
OSTF1	-3.7	0.0472	0.0015
C21orf33	3.52	0.0473	0.0015

uc_338	3.97	0.0473	0.0015
CTD-2235C13.2	-1.69	0.0473	0.0015
TCP11L1	6.07	0.0473	0.0015
RNU6-713P	-1.82	0.0473	0.0015
KATNAL1	2.16	0.0473	0.0015
CCRL2	-22.03	0.0474	0.0015
IK; MIR3655	6.96	0.0475	0.0015
ATG9A	6	0.0475	0.0015
HLTF	4.35	0.0475	0.0015
LOC101927207; RP11-1079K10.5	-2.15	0.0476	0.0015
PRDM1	21.95	0.0476	0.0015
RNU6-387P	-2.65	0.0477	0.0015
SLC25A36	4.41	0.0477	0.0015
RPL21P39	-3.34	0.0477	0.0015
RPS6KA2	4.79	0.0477	0.0015
ENPP2	9.63	0.0477	0.0015
NCR3LG1	2.99	0.0477	0.0015
PRH1-PRR4	8.48	0.0477	0.0015
NPTN	9.68	0.0478	0.0015
IGKV1-22	-2.67	0.0478	0.0015
SGMS2	5.98	0.0478	0.0015
RNU6-561P	-1.68	0.0478	0.0016
MTCL1	3.08	0.0478	0.0016
RPL32P31	-2.02	0.0479	0.0016
RP11-439K3.1	-1.98	0.0479	0.0016
BMS1P10	-2.37	0.0479	0.0016
PRDX3	3.82	0.0479	0.0016
FGD1	3.57	0.0479	0.0016
LOC101927296	1.6	0.0479	0.0016
KDM2A	5.09	0.0479	0.0016
HCFC2	4.29	0.048	0.0016
RP11-378J18.8	3.94	0.048	0.0016
ZNF829	2.07	0.0481	0.0016
CYCS	-9.29	0.0481	0.0016
RP11-109A6.2	-1.66	0.0481	0.0016
HEATR6	4.14	0.0482	0.0016
WDR27	3.81	0.0482	0.0016
TAGLN	132.84	0.0482	0.0016
PTCD2	2.83	0.0482	0.0016
RPL32P28	-1.64	0.0482	0.0016
CTC-548K16.5	4.94	0.0482	0.0016
RAF1	5.6	0.0482	0.0016

GTF3C3	3.72	0.0482	0.0016
COX20P1	-3.49	0.0484	0.0016
PPP2R2A	-4.14	0.0484	0.0016
CTC-573N18.1	-1.43	0.0484	0.0016
LZIC	-3.31	0.0484	0.0016
PYCR2; MIR6741	3.48	0.0484	0.0016
SVILP1	21.13	0.0484	0.0016
ZNF143	6.12	0.0484	0.0016
SNX11	2.77	0.0484	0.0016
GLUD1P7	3.86	0.0484	0.0016
PDPK1	2.47	0.0484	0.0016
RIPK1	3.78	0.0485	0.0016
RP11-561O23.8	6.18	0.0486	0.0016
TSNAX	18.18	0.0486	0.0016
PRSS12	56.84	0.0486	0.0016
RP4-614O4.12	2.82	0.0486	0.0016
BIN3	4.45	0.0486	0.0016
PSMD12	-3.67	0.0487	0.0016
LRRC58	3.57	0.0487	0.0016
SLC25A3P1	-1.74	0.0487	0.0016
MAP2	-3.87	0.0487	0.0016
BEND6	14.88	0.0487	0.0016
RP11-38L15.8	-1.84	0.0487	0.0016
CYP17A1-AS1	-2.15	0.0487	0.0016
ACSS3	22	0.0487	0.0016
SAV1	2.8	0.0487	0.0016
DSCR3	6.45	0.0487	0.0016
PIK3R1	15.22	0.0488	0.0016
SYNGAP1; MIR5004	6.32	0.0488	0.0016
TWISTNB	-7.26	0.0488	0.0016
USP12PX	-2.65	0.0488	0.0016
LOC101928437	-4.2	0.0488	0.0016
CTD-2033D15.1	-27.69	0.0488	0.0016
RP11-56L13.7	2.26	0.0488	0.0016
NMD3P1	-3.05	0.0488	0.0016
TBX18	6.18	0.0488	0.0016
PRDM10	2.48	0.0489	0.0016
ATP9A	3.55	0.0489	0.0016
TMED10	3.92	0.0489	0.0016
LEO1	-2.32	0.0489	0.0016
GSTM5	136.27	0.0489	0.0016
ZDHC7	13.49	0.0489	0.0016

MIR490	-1.54	0.049	0.0016
TARM1	-2.55	0.049	0.0016
TTC7B	2.7	0.049	0.0016
SPG7	1.8	0.049	0.0016
RP11-196G18.24	6.2	0.049	0.0016
FCRLA	2.7	0.049	0.0016
LOC100129138; RP11-364B6.1	-1.94	0.049	0.0016
RP11-449P15.2	1.9	0.049	0.0016
ZNF687	2.79	0.049	0.0016
DCTD	6.73	0.049	0.0016
KIAA1217	5.86	0.049	0.0016
ZNF471	5.14	0.049	0.0016
Y_RNA	4.13	0.0491	0.0017
Y_RNA	4.13	0.0491	0.0017
MIR3154	-1.89	0.0492	0.0017
RP11-216N14.9; RP11-216N14.8	2.24	0.0493	0.0017
ZNF821	1.92	0.0493	0.0017
RP11-56F10.3	-2.38	0.0494	0.0017
BNIP3L	7.64	0.0494	0.0017
ANKRD40	2.26	0.0494	0.0017
PCMTD1P1	-2.56	0.0495	0.0017
TCEB1P29	-2.74	0.0495	0.0017
ZNF284	3.41	0.0497	0.0017
RNU6-913P	-2.11	0.0497	0.0017
MAN1B1	8.54	0.0497	0.0017
RPL22P18	-2.58	0.0497	0.0017
RHOJ	-1983.04	0.0497	0.0017
RP11-627G18.4	-1.81	0.0497	0.0017
LINC01128	7.3	0.0497	0.0017
OMG	38.52	0.0499	0.0017
RPS10P2	-2.96	0.0499	0.0017
AC090505.1	-1.86	0.0499	0.0017
EDF1	5.03	0.0499	0.0017
STC2	157.26	0.0499	0.0017
ZNF470	4.17	0.05	0.0017
PFKM	4.21	0.05	0.0017