

Table 3 Differential expression results from gene microarray study

**GS87**

<b>Gene</b>	<b>LogFC.GS87 - untreated</b>	<b>p.value.adj.GS87 - untreated</b>
PRTN3	-6.12	0
ZFPM2	-5.69	0.00762
MIR425	-5.5	0.02167
GPM6B	-5.02	0.00055
SLC23A3	-5	0.00983
SNORA79	-4.92	0.04537
VAT1L	-4.9	0
FAM46C	-4.81	0
DDN	-4.74	0
GAL	-4.65	0
SPNS3	-4.63	1.00E-05
IRF8	-4.57	0
ACCN2	-4.57	0.00026
MPO	-4.38	0
C20ORF103	-4.35	0
TCEA3	-4.31	1.00E-05
CTSG	-4.29	0
CPA6	-4.29	0.04099
BCL11A	-4.24	0
AFF3	-4.14	3.00E-05
BZRAP1	-4.11	1.00E-05
NAT8L	-4.11	0.01806
FAM69B	-4.09	0
RNASE3	-4.05	0.0027
GPR85	-4.02	0.01673
DYSFIP1	-3.93	0
GARNL3	-3.9	0.01281
UPK2	-3.82	0.02753
KLK1	-3.78	0.02241
C10ORF10	-3.75	0.03697
ELANE	-3.72	0
CTXN1	-3.72	5.00E-05
EBF3	-3.69	0
REEP1	-3.69	0.02793
PRG2	-3.67	0
RGS16	-3.66	6.00E-05
SYNGR1	-3.63	0
C5ORF20	-3.62	0
ADAMTS3	-3.61	0.03369

HPDL	-3.55	0
DTNB	-3.55	0.04734
GRM8	-3.54	0.00732
PNMA6A	-3.45	0.00241
E2F5	-3.44	0
SERPINB10	-3.42	0
CD320	-3.42	1.00E-05
PRSSL1	-3.42	3.00E-04
GATM	-3.38	0
PODXL2	-3.38	1.00E-05
GPR124	-3.38	0.00071
SNHG3-RCC1	-3.38	0.01498
KRBA1	-3.35	0.00866
MYC	-3.3	0
ZDHHC8	-3.29	0
NFIA	-3.29	0.00042
MS4A3	-3.28	0
PDZD7	-3.28	0.01149
MATK	-3.26	0
THBS4	-3.19	0
GZMH	-3.19	0.04039
FLT3	-3.18	0
C3ORF54	-3.1	0
MLC1	-3.09	0
LPPR3	-3.09	0.00698
C1ORF188	-3.07	0
C5ORF13	-3.07	0
SLC39A14	-3.06	0
ALDH5A1	-3.05	0
DPY19L2	-3.03	0.04471
SOCS2	-3.01	0
GPR18	-3.01	1.00E-05
MS4A6A	-3	0
FAM131B	-2.98	0.00802
MAP6D1	-2.95	0
CHST4	-2.95	0.00531
SHISA2	-2.93	0
PRLR	-2.93	0.00047
KCNN2	-2.92	0
AZU1	-2.91	0
CD59	-2.91	0

DACH1	-2.91	0
KNG1	-2.9	0.00532
RPL36A	-2.89	0
SCGB1D2	-2.89	0.00107
PACSIN3	-2.88	0.002
CA8	-2.87	0
NTHL1	-2.87	0
FZD2	-2.86	0.00028
IMMP2L	-2.84	0
RPP40	-2.82	0
USP18	-2.81	0.01147
GCSH	-2.8	0
MMACHC	-2.79	1.00E-05
TET1	-2.79	0.00925
C1ORF186	-2.78	0
GCAT	-2.77	0
CCDC36	-2.76	0.02591
BEX2	-2.76	0.03645
ASS1	-2.74	0
PLD6	-2.74	0
FJX1	-2.72	3.00E-05
RXFP1	-2.72	0.00217
MYBBP1A	-2.71	1.00E-05
CFD	-2.68	0
ISOC2	-2.67	0
MACROD1	-2.67	1.00E-05
NPAS1	-2.66	0.03007
WT1	-2.65	0
LILRB4	-2.65	0.00206
IRAK1BP1	-2.63	6.00E-05
WWC1	-2.63	0.00021
NLRP2	-2.63	0.00506
FAM117B	-2.62	0
PM20D2	-2.61	0
SRM	-2.61	0
ADAM23	-2.61	0.01219
TUBA3E	-2.6	0.03415
SLC29A2	-2.59	0
HTR6	-2.59	0.01227
FEZ1	-2.58	0
NOP16	-2.57	0

FLJ39827	-2.56	0
GABRB2	-2.56	0.00197
PNMA3	-2.55	4.00E-05
DEPDC6	-2.54	0.00598
ABCB10	-2.53	0
BMP8B	-2.52	0
SIDT1	-2.52	0.00339
MAP4K1	-2.5	0.00033
ALDH1B1	-2.49	1.00E-05
PUS7	-2.48	0
SAMD13	-2.47	0.00145
CCND2	-2.46	0
ZDHHC11	-2.46	1.00E-05
PARD6G	-2.45	1.00E-04
C7ORF68	-2.44	0
SLC25A23	-2.43	0
SPNS2	-2.43	2.00E-05
C16ORF13	-2.42	0
PDIA5	-2.41	0
MRPL12	-2.41	4.00E-05
SLITRK5	-2.41	5.00E-05
BCL2	-2.39	0
C12ORF24	-2.39	0
PDCD2L	-2.39	0
TRAP1	-2.39	0
DNAJC12	-2.38	0
SLC25A15	-2.38	0.00055
ALDH18A1	-2.37	0
C21ORF56	-2.37	0.00415
ARHGAP5	-2.36	8.00E-05
GLB1L2	-2.36	0.02187
CYORF15A	-2.36	0.04001
C10ORF2	-2.35	0
WIT1	-2.34	0.00025
TMEM161A	-2.34	0.00082
C20ORF27	-2.33	0
WDR21A	-2.33	0.00015
KAT2A	-2.32	0
PFN2	-2.32	0.00045
ABCC4	-2.31	0
AK3L1	-2.29	0

SFXN2	-2.29	1.00E-05
ADA	-2.29	2.00E-05
AFMID	-2.29	5.00E-05
DLEU1	-2.27	0
CCDC86	-2.25	0
SLC27A5	-2.25	4.00E-05
LGR4	-2.24	1.00E-05
LASS1	-2.24	3.00E-05
POLR3G	-2.24	0.00097
C9ORF140	-2.23	0
NPM3	-2.23	0
SLC25A19	-2.23	0
RNF207	-2.23	9.00E-05
ALKBH2	-2.22	0
RPL29	-2.22	0
SDK2	-2.22	1.00E-05
ACY1	-2.22	2.00E-05
C18ORF22	-2.22	2.00E-05
SLC17A9	-2.22	8.00E-05
GAMT	-2.2	0
TYSND1	-2.2	0
C3ORF26	-2.19	0
CDK6	-2.19	0
DBP	-2.18	0.00014
MPP6	-2.17	0
NME1	-2.17	0
CDCA7	-2.16	0
WNT10B	-2.16	0.03838
MIF	-2.15	0
RPS7	-2.15	0
UNG	-2.15	0
CXORF21	-2.15	1.00E-05
HEATR1	-2.14	0
TFAP4	-2.14	0
NHEDC2	-2.14	2.00E-05
IL12A	-2.14	0.02436
GLCC1	-2.13	2.00E-05
PIK3C2B	-2.13	0.02642
RAB40B	-2.12	1.00E-05
B3GNT6	-2.12	0.00037
IQUB	-2.12	0.01801

VIT	-2.11	0
WIT-1	-2.11	0.00102
FLJ46156	-2.11	0.02187
PRRG2	-2.11	0.03191
P2RY2	-2.1	0
RNF175	-2.1	0.00054
PLCH1	-2.1	0.01615
NOLC1	-2.09	0
LRRC34	-2.09	0.00124
PSMG4	-2.08	0
TGIF2	-2.08	0
EXOSC5	-2.08	1.00E-05
ID3	-2.08	0.00055
DZIP1	-2.08	0.03677
IL26	-2.08	0.03865
C7ORF41	-2.07	0
MCOLN2	-2.07	0
TSTA3	-2.07	1.00E-05
UBIAD1	-2.06	0
CHCHD6	-2.05	0
SLMO1	-2.05	0
KLHL23	-2.05	0.00308
KLF11	-2.04	0
PRMT1	-2.04	0
LDLRAD3	-2.04	1.00E-05
GIYD2	-2.04	0.02103
BOP1	-2.03	0
IFRD2	-2.03	0
MIPEP	-2.03	3.00E-05
GCDH	-2.02	0
TMOD1	-2.02	8.00E-05
PTPRCAP	-2.01	0
MSRB3	-2.01	0.00011
ZSCAN23	-2.01	0.00311
ZNF286A	-2.01	0.01342
VAPB	-2.01	0.04211
CBS	-2	0
HSPC111	-2	0
PCCB	-1.99	0
TNKS1BP1	-1.99	0.00016
GPT2	-1.98	0

WDR12	-1.98	0
WDR54	-1.98	0
TEAD4	-1.98	2.00E-05
CNKSR3	-1.98	0.00024
C1ORF93	-1.98	0.00096
KIAA0114	-1.97	0
POLD2	-1.97	0
SLC39A3	-1.97	0
MECR	-1.97	0.00023
CEP68	-1.97	0.01843
CENPM	-1.96	0
DTNA	-1.96	0
GEMIN5	-1.96	0
IFT57	-1.96	0
PEBP1	-1.96	0
ITM2A	-1.96	0.00013
PTCD2	-1.96	0.00027
DHODH	-1.96	0.00095
DAD1L	-1.96	0.0066
ANKLE1	-1.95	0
DPH2	-1.95	0
TFB2M	-1.95	0
MDN1	-1.95	1.00E-05
KILLIN	-1.95	0.01489
GPD1L	-1.94	0
PSAT1	-1.94	0
SIGMAR1	-1.94	0
C18ORF45	-1.94	0.00087
FAM189B	-1.93	0
SMYD2	-1.93	0
BEND3	-1.93	0.00012
C10ORF79	-1.93	0.0047
CRYZ	-1.92	0
NARS2	-1.92	0
RRP1	-1.92	0
MEST	-1.92	0.03045
EBNA1BP2	-1.91	0
IPO4	-1.91	0
P2RY8	-1.91	1.00E-05
ICOSLG	-1.91	5.00E-05
MCM3APAS	-1.91	0.00196



OXCT2	-1.9	0
PPAT	-1.9	0
SCARB1	-1.9	0
SUPV3L1	-1.9	0
NMNAT3	-1.9	0.00913
KHDRBS3	-1.9	0.00968
TMEM231	-1.89	1.00E-05
TTC26	-1.89	1.00E-05
SNORA71A	-1.89	0.03383
TMEM97	-1.88	0
CAD	-1.88	1.00E-05
LZTFL1	-1.88	2.00E-05
REEP6	-1.88	0.02536
CLYBL	-1.87	0
MTHFD1L	-1.87	0
NHP2	-1.87	0
PPAN-P2RY11	-1.87	3.00E-05
GAR1	-1.86	0
HSPB1	-1.86	0
KBTBD6	-1.86	0
MBLAC2	-1.86	0
NDUFAF2	-1.86	0
UTP20	-1.86	0.00093
GSDM1	-1.86	0.00144
CABC1	-1.85	0
CENPV	-1.85	0
LRRC20	-1.85	0
LYAR	-1.85	0
NR2F2	-1.85	0
URB2	-1.85	0
HSH2D	-1.85	1.00E-05
ZNF354C	-1.85	0.02723
IQCK	-1.84	3.00E-05
MRT04	-1.84	4.00E-05
FBL	-1.83	0
GINS2	-1.83	0
ST6GAL1	-1.83	0
FLJ13305	-1.83	1.00E-05
DJ222E13.2	-1.83	5.00E-05
TTC7A	-1.83	0.00295
SNORA23	-1.83	0.03754

IMP4	-1.82	0
TOP1MT	-1.82	0
FAHD2B	-1.82	1.00E-05
RUVBL1	-1.82	2.00E-05
FAM86C	-1.82	0.0071
CAMKV	-1.82	0.0425
ABHD14B	-1.82	0.04369
ERI3	-1.81	0
FKBP4	-1.81	0
NOP56	-1.81	0
OAF	-1.81	0
SLC25A4	-1.81	0
TTC27	-1.8	0
SLC39A10	-1.8	1.00E-05
NME4	-1.79	0
PDF	-1.79	0.00011
ZNF185	-1.79	0.01349
CIRH1A	-1.78	0
MARS2	-1.78	0
LRFN4	-1.78	1.00E-05
CXORF15	-1.78	2.00E-05
DTD1	-1.77	0
ELOVL6	-1.77	0
LY6E	-1.77	0
PFAS	-1.77	0
WDR18	-1.77	0
PRICKLE1	-1.77	1.00E-05
CHST12	-1.77	3.00E-05
NUBP2	-1.77	0.00015
MRM1	-1.77	0.00224
SLC38A5	-1.76	0.00207
TOMM20L	-1.76	0.00995
ASNS	-1.75	0
MYB	-1.75	0
FAM162A	-1.75	1.00E-05
HAGHL	-1.75	2.00E-05
FASN	-1.74	0
KIAA1804	-1.74	0
MTHFD1	-1.74	0
NUCB2	-1.74	0
NUDT7	-1.74	0

REXO4	-1.74	0
PHOSPHO2	-1.74	4.00E-05
NUFIP1	-1.74	9.00E-05
MAGEC2	-1.74	0.00051
FAM86A	-1.73	0
LIN28B	-1.73	0
MRPS26	-1.73	0
SLC16A10	-1.73	0
SLC5A6	-1.73	0
CDCA7L	-1.73	3.00E-05
SOHLH2	-1.73	5.00E-04
ANKRD41	-1.72	0
CCDC34	-1.72	0
CLEC11A	-1.72	0
NUP88	-1.72	0
TDRD7	-1.72	0
UAP1	-1.72	1.00E-05
CDR2L	-1.72	2.00E-05
BZW2	-1.71	0
METTL1	-1.71	0
WDR4	-1.71	0
RCC1	-1.71	3.00E-05
ADAM6	-1.71	0.00165
BCAT1	-1.7	0
ENDOG	-1.7	0
PAFAH1B3	-1.7	0
RPL6	-1.7	0
SLC22A4	-1.7	0
SACS	-1.7	1.00E-05
TBC1D4	-1.7	1.00E-05
RET	-1.7	2.00E-05
STUB1	-1.7	0.00097
C12ORF66	-1.7	0.00154
C22ORF9	-1.69	0
NFE2L3	-1.69	0
IMPDH2	-1.69	1.00E-05
DEAF1	-1.69	6.00E-05
CCDC85B	-1.69	0.00035
BEND6	-1.69	0.00045
COQ3	-1.68	0
MEF2D	-1.68	0

SPATA13	-1.68	0.00501
CSDA	-1.67	0
IRX3	-1.67	0
RUVBL2	-1.67	0
SETMAR	-1.67	0
TSPAN32	-1.67	0
TTLL12	-1.67	0
PYCRL	-1.67	0.00019
TBL3	-1.67	0.00137
TMEM45A	-1.67	0.02074
CA2	-1.66	0
LSM7	-1.66	0
NUDT16L1	-1.66	0
C7ORF40	-1.66	1.00E-05
MRPS2	-1.66	4.00E-05
C9ORF41	-1.66	0.00011
SEMA3A	-1.66	0.00708
ARL2	-1.65	0
CTNNAL1	-1.65	0
NOLA1	-1.65	0
SFXN4	-1.65	0
FARS2	-1.65	1.00E-05
CD300LG	-1.65	0.01057
ISG20L1	-1.64	0
PPAN	-1.64	0
SCAMP1	-1.64	0
TNFSF13B	-1.64	0
SLC1A3	-1.64	2.00E-05
HOMER1	-1.64	0.00075
GPATCH4	-1.63	0
RUNDC3B	-1.63	2.00E-05
KIAA0133	-1.63	0.00164
AHCY	-1.62	0
GART	-1.62	0
PDCD5	-1.62	0
PHGDH	-1.62	0
RRS1	-1.62	0
TXNIP	-1.62	0
ZNF586	-1.62	0
FAM102B	-1.62	1.00E-05
SLC27A2	-1.62	1.00E-05

BEX1	-1.62	1.00E-04
HOTAIR	-1.62	0.03415
C7ORF65	-1.62	0.03965
CCRN4L	-1.61	1.00E-05
BLMH	-1.61	2.00E-05
QTRT1	-1.61	2.00E-04
ATAD3A	-1.6	0
ELP2	-1.6	0
FTSJ1	-1.6	0
RFTN1	-1.6	0
SORD	-1.6	0
GATA2	-1.6	1.00E-05
JUP	-1.6	1.00E-05
WDR27	-1.6	3.00E-05
TNS3	-1.6	4.00E-05
CGI-96	-1.6	1.00E-04
HIST2H2AC	-1.6	0.00029
ACOT7	-1.59	0
ATXN10	-1.59	0
MRPL54	-1.59	0
AARSD1	-1.59	1.00E-05
RDH13	-1.59	1.00E-05
AAMP	-1.59	0.00075
HRSP12	-1.58	0
MRPL36	-1.58	0
REXO2	-1.58	0
POLR3D	-1.58	1.00E-05
ZNF92	-1.58	0.03565
SCO2	-1.57	0
KCTD15	-1.57	1.00E-05
COMTD1	-1.57	5.00E-05
BCL2L11	-1.57	0.00015
CARM1	-1.56	0
CCRK	-1.56	0
FYN	-1.56	0
SNORD96A	-1.56	0.00022
IMPACT	-1.56	0.00064
PDGFD	-1.56	0.00327
SNORD96B	-1.56	0.00416
POP1	-1.55	0
BYSL	-1.55	1.00E-05

C1QBP	-1.55	2.00E-05
B4GALT2	-1.55	0.00022
LPHN2	-1.55	0.00061
C10ORF125	-1.55	0.00211
MRPL4	-1.54	0
PEMT	-1.54	0
QDPR	-1.54	0
IPO13	-1.54	1.00E-05
POLR2I	-1.54	1.00E-05
SLC25A10	-1.54	1.00E-05
ABHD14A	-1.54	3.00E-05
POMT2	-1.54	3.00E-05
POLR1B	-1.54	5.00E-05
ASMTL	-1.54	4.00E-04
FARSB	-1.54	0.00056
DLX1	-1.53	0
KATNB1	-1.53	0
TARBP1	-1.53	0
TCFL5	-1.53	0
DKFZP686O24166	-1.53	1.00E-05
UHRF1	-1.53	1.00E-05
MINA	-1.53	2.00E-05
C8ORF38	-1.53	3.00E-05
SNORA84	-1.53	0.00013
KLHL35	-1.53	0.00068
KIAA0368	-1.53	0.00094
UGT2B11	-1.53	0.00211
DEFB122	-1.53	0.01389
BCAR4	-1.53	0.01448
MT1G	-1.52	0
NAT14	-1.52	0
AKR7A3	-1.52	1.00E-05
EIF3CL	-1.52	2.00E-05
ORM2	-1.52	2.00E-05
ZBTB44	-1.52	2.00E-05
C12ORF45	-1.52	3.00E-05
ZNF74	-1.52	5.00E-05
PATZ1	-1.52	0.00031
FERMT1	-1.52	0.00409
CYP27B1	-1.52	0.00647
PDXP	-1.51	1.00E-05

PFKM	-1.51	1.00E-05
NLN	-1.51	0.00011
ACN9	-1.5	0
BCKDHB	-1.5	0
GNL3	-1.5	0
IRX5	-1.5	0
LRP3	-1.5	0
MFSD3	-1.5	0
MTP18	-1.5	1.00E-05
ORM1	-1.5	1.00E-05
XRCC6BP1	-1.5	1.00E-05
CCDC58	-1.5	2.00E-05
PRSS12	-1.5	4.00E-05
RPS21	-1.5	7.00E-05
EIF4EBP1	-1.5	8.00E-05
MGC35361	-1.5	0.00013
FSTL3	-1.5	0.00893
IGF2R	1.5	0
RCSD1	1.5	1.00E-05
TMEM175	1.5	1.00E-05
HNMT	1.5	2.00E-05
MTHFS	1.5	2.00E-05
SFXN5	1.5	2.00E-05
KIAA1598	1.5	5.00E-05
LPHN3	1.5	0.00122
CYTIP	1.5	0.00249
ZFAND3	1.5	0.02012
ZNF485	1.5	0.02642
GRINA	1.51	0
KCTD12	1.51	0
ITGAV	1.51	1.00E-05
KLF4	1.51	1.00E-05
RNF149	1.51	1.00E-05
PELI1	1.51	1.00E-04
B3GNT8	1.52	2.00E-05
MTHFR	1.52	0.00025
KIAA1271	1.52	0.01134
SDPR	1.52	0.0258
OR51D1	1.52	0.03413
NPL	1.53	0
TANK	1.53	0

ENG	1.53	1.00E-05
PSCD1	1.53	1.00E-05
ALPK1	1.53	2.00E-05
IRF1	1.53	3.00E-05
SAMD9L	1.53	8.00E-05
CASP7	1.53	0.00027
MAP7	1.53	0.00952
KRTAP10-1	1.53	0.04142
IFNGR2	1.54	0
ACOT11	1.54	1.00E-05
ZC3H12A	1.54	2.00E-04
FSTL5	1.54	0.0025
KCNAB1	1.54	0.02587
ATP6V1D	1.55	0
MTMR3	1.55	0
PFKFB4	1.55	0
IL18BP	1.55	0.00015
TIRAP	1.55	0.00337
FURIN	1.55	0.0048
RGS2	1.56	0
CORO1B	1.56	3.00E-05
PRDM1	1.56	0.00036
PITPNA	1.56	0.01239
GBGT1	1.57	0
INPP1	1.57	0
CTSH	1.57	1.00E-05
GDI1	1.57	2.00E-05
MAP1LC3B	1.57	4.00E-05
ZCCHC24	1.57	8.00E-05
MOBKL2C	1.57	0.00016
SLC48A1	1.58	0
DOK3	1.58	0.00069
SMPD1	1.58	0.00135
FER1L3	1.58	0.00335
RGS14	1.58	0.02448
LPP	1.59	0
SH3BP1	1.59	0
DMXL2	1.59	1.00E-05
CXCL6	1.59	5.00E-05
PLSCR1	1.59	0.00296
TMEM187	1.59	0.00325



EIF2C4	1.59	0.00592
PLEKHF1	1.59	0.01424
FAM151B	1.59	0.01537
NOL3	1.59	0.03688
GEM	1.59	0.04669
HPCAL1	1.6	0
EHD1	1.6	1.00E-05
ELL2	1.6	2.00E-05
CLOCK	1.6	7.00E-05
SH3RF1	1.6	0.00011
HRH1	1.6	0.00105
SLCO2B1	1.6	0.00621
RHOH	1.6	0.02049
PAX8	1.6	0.03484
CFLAR	1.61	0
CTSA	1.61	1.00E-05
TPK1	1.61	1.00E-05
RNF19B	1.61	4.00E-05
PPP2R2C	1.61	0.0147
ESRRB	1.61	0.03035
LPIN2	1.62	0
DCUN1D3	1.62	2.00E-05
DENND4B	1.62	2.00E-05
CNTNAP4	1.62	3.00E-05
GPR162	1.62	4.00E-05
C10ORF118	1.62	0.00118
FAM134B	1.63	0
IL10RB	1.63	0
SQRDL	1.63	2.00E-05
TMTC1	1.63	7.00E-05
C9ORF72	1.63	0.00084
C9ORF103	1.63	0.02452
RNU1G2	1.64	0
RABGAP1	1.64	0.00021
CSGALNACT2	1.64	0.00023
TTY1	1.64	0.00949
FUCA1	1.65	0
TMEM144	1.65	2.00E-05
DNHL1	1.65	0.02201
ANKRD22	1.66	0
HIF1A	1.66	0

ENC1	1.66	3.00E-05
SRA1	1.66	3.00E-05
B3GNT5	1.66	0.00012
MITF	1.66	0.0018
PHC2	1.66	0.00383
NOTCH1	1.67	0
WDR26	1.67	1.00E-05
C11ORF75	1.67	2.00E-05
EEPD1	1.67	4.00E-05
NPHP3	1.67	2.00E-04
PCAF	1.67	0.03175
GRN	1.68	0
LACTB	1.68	0
RNU1-3	1.68	0
CCDC126	1.68	1.00E-05
IRF9	1.68	2.00E-05
ZNF514	1.68	0.00013
HSD17B13	1.68	0.00032
PLXDC2	1.68	0.0127
OSGIN2	1.69	0
GALNT12	1.69	0.00466
SLC38A6	1.7	0
CHD2	1.7	3.00E-05
DNAH1	1.7	0.00024
CD55	1.7	0.00027
CALHM2	1.7	0.00039
MX2	1.7	0.01214
ARHGAP24	1.7	0.01219
EVPL	1.7	0.04962
IFNGR1	1.71	0
SRXN1	1.71	0
IQCG	1.71	0.00041
TNFAIP8L3	1.71	0.00349
C12ORF35	1.72	0
CLIP1	1.72	0
KLF2	1.72	1.00E-05
FMO5	1.72	0.00021
SLC6A12	1.72	0.02221
BMP2K	1.73	0
FCRLB	1.73	0
MTF1	1.73	0

RAX2	1.73	0.02518
MGC3771	1.73	0.04565
RN7SK	1.74	0
RNU1-5	1.74	1.00E-05
ACP2	1.74	0.00017
NOTCH2	1.74	0.00061
C19ORF66	1.74	0.00086
HTR7	1.74	0.00719
PCTK1	1.74	0.02616
CLIC2	1.74	0.03905
KCTD7	1.74	0.04794
POR	1.75	0
DYNLT3	1.75	1.00E-05
RHBDD2	1.75	1.00E-05
SLC5A3	1.75	0.00578
KLHDC7A	1.75	0.00924
KRT37	1.75	0.01132
PMAIP1	1.76	0
CCL23	1.76	1.00E-05
TMEM87B	1.76	0.00112
ROBO2	1.76	0.00643
C5	1.76	0.02642
OR3A1	1.76	0.03979
TTYH3	1.77	0
LGALS12	1.77	0.00026
ZFP36L1	1.78	2.00E-05
MAPK13	1.78	0.00093
SPTA1	1.78	0.02425
PRR7	1.78	0.04034
HIST1H2BK	1.79	0
NPC1	1.79	0
TGFBR2	1.79	0
CYTH1	1.79	1.00E-05
F11R	1.79	1.00E-05
NQO2	1.79	3.00E-05
FLJ10996	1.79	0.00324
GOLGA9P	1.79	0.04175
CCND3	1.8	0
KRCC1	1.8	0
GK	1.8	1.00E-05
TAAR9	1.8	0.0146

BHLHB2	1.81	0
CCDC92	1.81	0.00136
GARNL4	1.81	0.00185
TMEM91	1.81	0.00645
SDS	1.81	0.02633
PTPRG	1.81	0.0423
PLD3	1.82	0
FOS	1.82	1.00E-05
OSBPL11	1.82	2.00E-05
YPEL5	1.82	2.00E-05
ANTXR2	1.83	0
SLC36A1	1.83	0
FLJ20489	1.83	6.00E-05
NTSR1	1.83	0.00012
ANK2	1.83	0.03369
TECPR1	1.84	0
CD1D	1.84	2.00E-05
AMELY	1.84	0.01581
CCDC147	1.85	0
HEXB	1.85	0
TNF	1.85	0
BST1	1.85	1.00E-05
LMO3	1.85	0.01799
CTSB	1.86	0
DOCK10	1.86	0
S100A6	1.86	0
ADAM17	1.86	1.00E-05
PTAFR	1.86	0.00041
ACOX2	1.86	0.00097
C2CD2L	1.86	0.00159
CIDECP	1.86	0.00674
CAPN10	1.86	0.01312
ARHGAP27	1.87	0
FGD3	1.87	0
CDA	1.87	8.00E-04
PCDHGA3	1.87	0.03503
CD300LF	1.88	0
DDIT3	1.88	0
ANXA1	1.88	3.00E-05
PML	1.88	0.04573
C1ORF162	1.89	0

LRP10	1.89	0
LTB4R	1.89	0
NFKBIL1	1.89	0.04289
FERMT3	1.9	0
TOM1	1.9	0
MXD1	1.9	2.00E-05
TRIM38	1.9	5.00E-05
CTSK	1.9	0.00058
CART1	1.9	0.01511
TBC1D2	1.9	0.01581
NAGK	1.91	0
SAT1	1.91	0
C9ORF164	1.91	0.00106
LYG1	1.91	0.03484
PSAP	1.92	0
MMP25	1.92	1.00E-05
SLC44A2	1.92	1.00E-05
PAX3	1.92	0.00651
TFF2	1.92	0.0306
CPD	1.93	0
DNAJB2	1.93	0
DPYD	1.93	0
NINJ2	1.93	0
SYTL3	1.93	2.00E-05
NFKB2	1.93	0.00013
YPEL3	1.93	0.00224
AMICA1	1.93	0.00884
FBXL14	1.93	0.04565
HILS1	1.93	0.04567
KIAA0913	1.94	0
PTPRE	1.94	0
TNFRSF10D	1.94	0.00263
DOPEY1	1.94	0.01114
PIR	1.95	0
SYNJ1	1.95	0
RHOBTB3	1.95	2.00E-05
SERTAD1	1.96	0
SIGLEC7	1.96	0.00012
CRYL1	1.96	0.00016
DYSF	1.96	0.02585
ASTL	1.96	0.02589

ADORA3	1.97	0
NID2	1.97	0.03568
STK40	1.98	0
BLVRB	1.98	1.00E-05
PDGFRL	1.98	7.00E-05
LGALS3	1.98	0.00057
EGF	1.98	0.01757
ASB2	1.98	0.0189
SNORA28	1.98	0.02917
DENND4C	2	0
KLF6	2	0
NRCAM	2	0.041
TPP1	2.01	0
HIP1	2.01	1.00E-05
NMT2	2.01	6.00E-05
COL9A2	2.01	0.0026
STX11	2.02	0
ACPP	2.02	1.00E-04
VSIG1	2.02	0.03971
APLP2	2.03	0
PHCA	2.03	0
PDLIM5	2.03	3.00E-04
PTPRC	2.04	0
PBX3	2.04	1.00E-05
MR1	2.05	0
POLD4	2.05	0.01755
FAM171B	2.05	0.03943
TMC6	2.06	0
TMEM127	2.06	1.00E-05
MYO5C	2.06	0.00336
RHOB	2.06	0.01693
IGSF6	2.06	0.04401
KIAA1370	2.07	0
S100A4	2.07	0
PECR	2.07	2.00E-05
KLF10	2.07	3.00E-05
ZNF433	2.07	0.04046
ADAM9	2.08	0
EMR4P	2.08	0.00012
CYTH4	2.08	5.00E-04
BAG3	2.09	0

NAMPT	2.09	0
SPPL2A	2.09	0
STXBP5	2.09	0
FAM104B	2.09	0.00058
FAM151A	2.09	0.00478
IFI6	2.1	0
NEU1	2.1	0
PTPN22	2.1	0
RN5S9	2.1	0
HS1BP3	2.1	0.00036
ATP7A	2.1	0.00198
LITAF	2.11	0
LRG1	2.11	0
PANX2	2.11	0
ICAM3	2.12	0
TNFSF9	2.12	2.00E-05
SIGLEC9	2.12	0.04201
ARHGAP12	2.13	0
OSTM1	2.13	0
PNPLA1	2.13	2.00E-05
SIGLEC14	2.13	0.01167
GPR137B	2.14	3.00E-05
CLCF1	2.14	4.00E-05
AXUD1	2.15	0
RELB	2.15	0
EVI2A	2.15	1.00E-05
ECM1	2.15	4.00E-05
MVP	2.15	0.00015
PDE6H	2.16	0.00353
NPR2	2.16	0.00576
ATP6V0A1	2.17	0
HSF4	2.17	0.01433
CYP17A1	2.17	0.01603
RAB31	2.18	0
SDCBP	2.18	0
TGFBR1	2.18	0.02593
RHBDL2	2.18	0.03799
ACSL1	2.19	0
CCPG1	2.19	0
BATF	2.19	7.00E-05
CTSO	2.2	0.00524

AADAACL1	2.21	0
SNORD3C	2.21	0.00016
GUCA1B	2.21	0.00041
RHBDF1	2.21	0.00238
ANXA5	2.22	0
SECISBP2L	2.22	0
SMOX	2.22	0
MAPRE3	2.22	0.01795
IL6ST	2.22	0.04625
FYB	2.23	0.00016
TIMP2	2.23	0.00023
SDSL	2.23	0.00041
HPD	2.23	0.00104
GIMAP4	2.23	0.02319
TRIB2	2.24	0
MYO5A	2.25	0
PRKCB	2.26	0
GPR82	2.26	0.01355
ADCY4	2.26	0.04285
SERPINB1	2.27	0
PKD2L1	2.27	0.01221
GAS7	2.28	0
NOD2	2.28	0.00327
ABTB1	2.28	0.00781
SLC38A3	2.28	0.03778
PECAM1	2.29	0
PRKCB1	2.29	0
PSCD4	2.29	0
APOB48R	2.29	2.00E-05
ZNF397	2.29	0.01327
FTHL2	2.29	0.03467
CD53	2.3	0
NCF1B	2.3	0.00064
SRC	2.3	0.04489
ARHGAP9	2.31	0
MCOLN1	2.31	1.00E-05
CDS1	2.31	0.00878
CPEB4	2.33	7.00E-05
RAB7B	2.33	1.00E-04
PH-4	2.33	0.0146
ZMYND11	2.33	0.02593



ORAI3	2.33	0.0368
GBP2	2.34	0
KAT2B	2.34	0
NLRP12	2.34	1.00E-05
RAB20	2.34	1.00E-05
ICAM1	2.34	6.00E-04
MSC	2.34	0.0139
GLRX	2.35	0
PDLIM7	2.35	2.00E-05
C2ORF58	2.35	0.00011
ARRDC3	2.35	0.00247
G6PD	2.36	0
BEST1	2.36	0.00035
LSP1	2.37	0
MGAM	2.37	0.00044
PLEKHG2	2.37	0.01506
KIAA0247	2.38	0
IRS1	2.38	0.03997
C3AR1	2.39	0
IL4R	2.39	0
ASRGL1	2.39	1.00E-05
ANKDD1A	2.39	2.00E-05
FRMD7	2.39	0.00674
TLR6	2.4	0.00084
C1ORF183	2.4	0.02246
LAPTM5	2.41	0
TNFAIP6	2.41	0
TPCN1	2.41	0.00217
CAMSAP1L1	2.41	0.00632
C12ORF59	2.43	3.00E-05
SRGAP1	2.43	0.00082
WDR31	2.43	0.02351
RIT1	2.44	0
DEFB115	2.44	0.04626
RSPH3	2.45	2.00E-05
TMEM169	2.45	0.03114
AIM2	2.46	1.00E-05
PLXNC1	2.46	0.00556
GABARAPL1	2.47	0
ID2	2.47	0
TMOD2	2.47	0.00758

FLRT2	2.47	0.02116
KCNB2	2.47	0.02433
P2RY13	2.48	0.02707
OSCAR	2.49	0
PGD	2.49	0
SH3BGRL3	2.49	0
SLC15A3	2.49	0
PTGS1	2.49	1.00E-05
DENND2D	2.49	0.02099
LAT	2.5	0
OXGR1	2.51	0.02769
CMTM1	2.52	0
LGALS1	2.52	0
SERPINB2	2.52	0
ADAM8	2.52	8.00E-05
RGPD1	2.52	0.00048
COL15A1	2.52	0.01375
CA10	2.52	0.02538
DNASE2	2.53	0.00017
MAFF	2.54	0
PSTPIP1	2.54	1.00E-04
ENPP2	2.54	0.00028
BRI3	2.55	0
HK1	2.55	0
NINJ1	2.55	0
CTNNA1	2.55	6.00E-05
SIGLECP3	2.55	0.00039
TRAF3IP3	2.56	1.00E-05
EID3	2.56	0.00077
GBP3	2.56	0.00154
GRPR	2.56	0.00261
LILRB2	2.56	0.00324
IGSF2	2.56	0.01395
SLC2A5	2.57	0
APOBEC3B	2.57	0.01404
CD37	2.57	0.01615
PPP1R15A	2.59	0
SDC4	2.59	0.01392
MIR23B	2.59	0.03907
CYP1B1	2.6	0
GLIPR2	2.6	0

HBEGF	2.6	0
DUSP18	2.6	0.00143
HCK	2.61	0
PLEKHO2	2.61	0
NPB	2.61	0.02953
RASGRP1	2.62	0.02082
SLC25A24	2.63	0
TFE3	2.63	1.00E-05
ITPKA	2.64	0
MFSD6	2.64	0
DDX60L	2.65	0
IL10RA	2.66	0
VWA5A	2.66	2.00E-05
IQSEC1	2.66	0.00551
NPVF	2.66	0.01457
DOK2	2.67	0
GLIPR1	2.68	0
CUEDC1	2.68	1.00E-05
MIR1275	2.7	0.00119
GPR84	2.71	0
MAP3K8	2.71	1.00E-05
ARX	2.71	0.01151
AP1S2	2.72	0
SASH3	2.72	1.00E-05
PDE1B	2.72	0.00067
EFCAB1	2.72	0.00724
TLR1	2.73	1.00E-05
CD300C	2.74	0
HIPK2	2.74	0
RGS1	2.74	0
SLC31A2	2.74	0
SLC6A6	2.74	0
ARAP3	2.75	0
MIR302C	2.75	0
PPARG	2.75	0
CDKN2B	2.75	1.00E-05
PLP2	2.75	1.00E-05
SLC12A6	2.75	0.00016
CLDN7	2.75	0.01495
ARHGAP18	2.76	0
CD58	2.76	0

PLUNC	2.76	0.03677
CTSL1	2.77	0
IFI16	2.77	0
ABHD4	2.78	0.00201
F5	2.78	0.0236
SLC11A1	2.78	0.02764
SP140	2.81	2.00E-05
C10ORF53	2.81	0.00976
CD68	2.83	0
SULF2	2.83	8.00E-05
CD163	2.84	0.00072
DUSP5	2.85	0
IFIT2	2.85	0.00105
FILIP1L	2.87	0
CSF1R	2.88	0
EMR2	2.89	0
ALOX5AP	2.9	0
ADORA2A	2.91	0
NPC2	2.91	0
ARHGAP26	2.92	2.00E-05
CXCL2	2.92	0.00253
SLC7A7	2.93	0
TLR8	2.93	0.00467
PRKACA	2.94	0.00728
CEBPB	2.95	0
CYBB	2.96	0
SH3BP2	2.96	0.00022
LPAR1	2.96	0.00093
SNX12	2.96	0.02612
BCL3	2.97	0
CFP	2.97	0.00309
C9ORF89	3	0
NQO1	3.01	0
VCY	3.01	0.02364
CACNA2D4	3.02	0
KYNU	3.02	0
CLEC4A	3.02	8.00E-05
CCR1	3.03	0
TNFRSF14	3.04	0
YAP1	3.04	0.00327
BOK	3.05	0

DUSP6	3.05	0
FTHL12	3.05	0
PILRA	3.06	0
SNORD3D	3.06	0
CLCNKA	3.06	0.01402
SLC2A6	3.09	1.00E-05
DSE	3.11	3.00E-05
SEMA6B	3.11	4.00E-05
CD36	3.12	0.00086
SPDYE1	3.13	0.04757
ACER3	3.14	1.00E-05
DISP1	3.14	0.00295
NCRNA00085	3.14	0.00457
SERPINA1	3.15	0.00014
HPSE	3.16	0.00052
FTHL7	3.17	0
HSPA1L	3.18	0.0126
ERMN	3.18	0.03503
FPR2	3.19	0.01822
STX1A	3.2	1.00E-05
CCDC88B	3.2	2.00E-05
ZNF697	3.2	0.00021
MEGF9	3.22	0
ARHGEF3	3.23	0.02449
SNORD113-4	3.24	0.01682
CCDC149	3.25	0.00076
PKIB	3.25	0.01548
OR8H1	3.26	0.02554
SLC9A9	3.26	0.04558
IL8	3.27	0
COL7A1	3.27	0.0114
F3	3.29	0
SYDE1	3.29	0.00452
FTHL11	3.3	0
C16ORF7	3.3	0.00639
FLJ21687	3.3	0.02735
WIP1	3.31	0.00212
CD86	3.32	0
SIRPB1	3.33	7.00E-05
CHI3L1	3.34	0
PNOC	3.34	0.00164

FOXF1	3.34	0.002
TMEM140	3.35	0.02768
DHRS3	3.36	0.00664
ACVR1	3.38	0
WSB2	3.39	1.00E-05
DOCK5	3.39	2.00E-04
ITGB5	3.39	0.01984
B4GALNT1	3.4	7.00E-05
SLC16A6	3.4	0.00037
KITLG	3.4	4.00E-04
METTL8	3.4	0.0178
CTSD	3.41	0
SQSTM1	3.41	0
FTHL3	3.42	0
RBM47	3.43	0
CCDC129	3.43	0.01269
SUCNR1	3.45	0
FTH1	3.46	0
TYROBP	3.46	0
LILRA5	3.46	0.00046
PLIN2	3.49	0
FMO4	3.49	0.00093
ABHD8	3.5	0
GPNMB	3.5	3.00E-05
PTGS2	3.51	1.00E-05
TMEM151A	3.51	0.01074
MIR943	3.51	0.02934
KIAA1618	3.54	2.00E-05
NLRC4	3.54	6.00E-05
FCHO2	3.54	0.03137
ADM	3.55	0
TNFAIP2	3.56	0
KRT80	3.56	0.00015
SPCS2	3.56	0.04688
IRAK2	3.57	1.00E-05
C19ORF59	3.58	0
RGL1	3.58	0
GALR3	3.58	0.00311
EFNB2	3.6	1.00E-05
CYP4B1	3.65	0
GATS	3.65	0

C15ORF52	3.67	1.00E-05
NFKBIZ	3.67	1.00E-05
IDUA	3.67	0.00145
FCGRT	3.69	0
LY96	3.7	0
TIMP1	3.71	0
ALOX5	3.72	0
CAPG	3.72	0
CD300A	3.72	3.00E-05
LFNG	3.74	0
CCL4L1	3.75	2.00E-05
MIR548L	3.75	0.04803
CR1	3.79	2.00E-04
DHRS9	3.8	0
SIPA1L2	3.8	0
MTMR7	3.8	0.00103
UPB1	3.81	0.00023
C1RL	3.84	0.00084
FLJ42986	3.85	0
KCNA4	3.87	0.00309
SLA	3.89	0
TMEM71	3.89	4.00E-05
C17ORF91	3.89	0.00292
ZDHHC1	3.89	0.03325
ANKRD33	3.9	0
HIST1H2BD	3.91	0.0221
IER5L	3.92	2.00E-05
UPP1	3.92	0.00047
OSM	3.93	3.00E-05
GPR34	3.94	3.00E-05
FCER1G	3.99	0
SIGLEC16	4.01	0.00429
PTPRO	4.02	0
TNFRSF12A	4.02	0.00016
ADAP2	4.03	0
TM4SF19	4.03	0.00228
S100A12	4.04	0.00266
BTG2	4.07	0
SLC43A2	4.07	7.00E-05
CD38	4.07	0.00088
SLC22A18	4.08	0.00714

A4GALT	4.08	0.01583
SLC16A14	4.09	0.0016
PDGFA	4.11	0.03756
FLJ20273	4.12	0
HK3	4.12	0.006
TBXAS1	4.13	0
JUN	4.16	0
NRP1	4.17	0
ZNF467	4.19	0.00261
CLEC5A	4.21	0
OSGIN1	4.22	8.00E-05
FAM129B	4.25	0
SGK1	4.25	0
HP	4.27	0
MMP9	4.29	0.00068
HMOX1	4.34	0
IL18R1	4.38	7.00E-05
C10ORF54	4.41	0
FAM20C	4.47	0.00266
TNNI2	4.48	0.00381
SLC47A2	4.48	0.00839
LAMB3	4.48	0.02805
CCRL2	4.5	0.00268
C13ORF31	4.52	0
SLC2A3	4.52	0
TTY16	4.52	0.00191
EGR1	4.53	0
SPOCD1	4.53	0.01307
ITGAX	4.55	0.01101
SCN2A	4.59	0.01655
OKL38	4.61	0
FPR1	4.61	0.00599
FLOT1	4.62	0
CXCL16	4.62	9.00E-05
CAMK2D	4.62	0.00858
SGK	4.63	0
KIAA1539	4.64	0.00019
BCL6	4.65	0
KIAA0513	4.67	8.00E-05
EGR2	4.68	1.00E-05
PLCB2	4.69	0



ERBB4	4.71	0.00604
CCL20	4.73	0
SLC2A14	4.74	0.04561
TBC1D9	4.75	0.02584
CENTD1	4.8	0.00229
SLC26A11	4.89	0.00028
CCL3	4.95	1.00E-05
AGPAT9	4.97	0
CDKN1A	4.97	0
BBS12	5	0.03233
OLR1	5.03	1.00E-05
GPR39	5.11	0.00346
HOM-TES-103	5.15	0.01045
LRRC25	5.19	0.00136
FLJ12684	5.26	0.00326
GNG2	5.27	0.00308
S100A8	5.34	0
S100A9	5.37	0
SLC22A18AS	5.41	5.00E-05
C5AR1	5.41	8.00E-05
AKR1C3	5.41	1.00E-04
NNMT	5.54	0.03655
TMEM158	5.58	0
GDF15	5.59	0.00088
NCF1C	5.6	0
NCF2	5.63	0
HAVCR2	5.69	0
EMP1	5.7	0
SPP1	5.71	0
IFI30	5.71	3.00E-05
RASGRP3	5.72	5.00E-05
NCF1	5.75	1.00E-05
PDX1	5.79	0.02134
ABCC3	5.88	0.02084
FOLR3	5.91	2.00E-05
MERTK	5.99	0
ITGAM	6	0
IER3	6.01	0
IL18RAP	6.01	1.00E-05
PHLDA1	6.02	0
CTSZ	6.08	0.00944

CCL3L3	6.24	0
FGR	6.28	0
CD14	6.31	0
THBS1	6.78	0.00074
TM6SF1	6.82	0.00031
RENBP	6.88	0.00941
CCL3L1	6.96	0.00028
PADI4	7	1.00E-05
IL1B	7.73	0
MAFB	7.91	0
AQP9	7.91	7.00E-05
CCL2	9.9	0

**SB**

<b>Gene</b>	<b>LogFC.SB - untreated</b>	<b>p.value.adj.SB - untreated</b>
MIR744	-5.07	0.02026
BMF	-4.31	0.00175
MCC	-3.82	0.01863
SNORD47	-3.67	0.04794
GABBR2	-3.41	0.0066
PCIF1	-3.23	0.00966
HOTAIR	-2.76	0.01295
KLHL24	-2.7	0.00096
DNMT3A	-2.55	0.00699
CH25H	-2.5	0.04435
TPH1	-2.47	0.01943
ANGPTL5	-2.35	0.03841
KRTAP6-3	-2.31	0.032
RXFP1	-2.27	0.01295
PLA2G2A	-2.24	0.0193
TPSAB1	-2.24	0.02073
CD36	-2.17	0.03966
PELI2	-2.08	0.00025
PHKG1	-2.06	0.01183
FRAT1	-1.97	0.00175
MCF2L2	-1.94	0.01208
FZD2	-1.93	0.02073
PACSIN3	-1.93	0.04354
TTC7A	-1.9	0.01633
C5ORF20	-1.89	0.00176
KRTAP20-3	-1.86	0.04794

PYHIN1	-1.83	0.00442
C17ORF100	-1.83	0.03391
ASS1	-1.8	1.00E-05
C5ORF41	-1.78	0.00076
HABP4	-1.71	0.04318
PEX3	-1.7	0.03518
CCNG2	-1.68	0.00246
METTL7A	-1.66	0.02329
ELA1	-1.63	0.02633
CYP1A1	-1.56	0.0215
BNIP3L	-1.55	5.00E-05
SLC7A5P1	-1.54	0.04676
IPMK	-1.51	0.00762
PINK1	-1.5	0.00437
DHRS9	1.54	0.00113
SUCNR1	1.54	0.00569
OKL38	1.55	5.00E-05
TGM5	1.55	0.00338
ENTPD7	1.56	0.00027
NCF2	1.56	0.00096
EFNB2	1.57	0.01518
IFT57	1.61	0.00044
CLPTM1	1.65	0.00176
FYB	1.66	0.00898
PHACTR3	1.69	5.00E-05
CCDC88B	1.69	0.00966
GPNMB	1.71	0.02019
C12ORF59	1.75	0.00341
DLST	1.8	0.00814
KLHDC7A	1.81	0.03864
HAVCR2	1.89	0.00049
PRTG	1.9	0.02883
GATS	1.91	0.00011
CART1	1.94	0.03926
ARHGAP26	1.95	0.0028
LPHN3	1.98	0.00266
TAAR9	1.98	0.04416
CCL3L3	2.09	9.00E-04
PDE6H	2.17	0.02153
MAFB	2.19	0.00471
S100A9	2.22	1.00E-05

B4GALNT1	2.22	0.0063
FOLR3	2.25	0.03247
OLR1	2.26	0.00671
CR1	2.26	0.02315
S100A8	2.29	0.00022
IL1B	2.33	0.0083
JUN	2.41	4.00E-05
VASH1	2.45	0.04523
FOXF1	2.48	0.03809
CCDC149	2.52	0.02172
PRR7	2.54	0.03877
EFCAB1	2.68	0.03924
MMP9	2.69	0.03697
IL18RAP	2.79	0.00653
CLEC5A	2.83	0
KCNA4	3.78	0.02193
SPP1	4.05	0
ERBB4	4.18	0.0389
NUDT17	4.33	0.04164
CCL2	4.94	0
CENTD1	5.33	0.01391
GPR39	5.5	0.02073
FLJ12684	5.75	0.02697

### Li

Gene	LogFC.GS87 - untreated	p.value.adj.GS87 - untreated
PRTN3	-6.12	0
ZFPM2	-5.69	0.00762
MIR425	-5.5	0.02167
GPM6B	-5.02	0.00055
SLC23A3	-5	0.00983
SNORA79	-4.92	0.04537
VAT1L	-4.9	0
FAM46C	-4.81	0
DDN	-4.74	0
GAL	-4.65	0
SPNS3	-4.63	1.00E-05
IRF8	-4.57	0
ACCN2	-4.57	0.00026
MPO	-4.38	0
C20ORF103	-4.35	0

TCEA3	-4.31	1.00E-05
CTSG	-4.29	0
CPA6	-4.29	0.04099
BCL11A	-4.24	0
AFF3	-4.14	3.00E-05
BZRAP1	-4.11	1.00E-05
NAT8L	-4.11	0.01806
FAM69B	-4.09	0
RNASE3	-4.05	0.0027
GPR85	-4.02	0.01673
DYSFIP1	-3.93	0
GARNL3	-3.9	0.01281
UPK2	-3.82	0.02753
KLK1	-3.78	0.02241
C10ORF10	-3.75	0.03697
ELANE	-3.72	0
CTXN1	-3.72	5.00E-05
EBF3	-3.69	0
REEP1	-3.69	0.02793
PRG2	-3.67	0
RGS16	-3.66	6.00E-05
SYNGR1	-3.63	0
C5ORF20	-3.62	0
ADAMTS3	-3.61	0.03369
HPDL	-3.55	0
DTNB	-3.55	0.04734
GRM8	-3.54	0.00732
PNMA6A	-3.45	0.00241
E2F5	-3.44	0
SERPINB10	-3.42	0
CD320	-3.42	1.00E-05
PRSSL1	-3.42	3.00E-04
GATM	-3.38	0
PODXL2	-3.38	1.00E-05
GPR124	-3.38	0.00071
SNHG3-RCC1	-3.38	0.01498
KRBA1	-3.35	0.00866
MYC	-3.3	0
ZDHHC8	-3.29	0
NFIA	-3.29	0.00042
MS4A3	-3.28	0

PDZD7	-3.28	0.01149
MATK	-3.26	0
THBS4	-3.19	0
GZMH	-3.19	0.04039
FLT3	-3.18	0
C3ORF54	-3.1	0
MLC1	-3.09	0
LPPR3	-3.09	0.00698
C1ORF188	-3.07	0
C5ORF13	-3.07	0
SLC39A14	-3.06	0
ALDH5A1	-3.05	0
DPY19L2	-3.03	0.04471
SOCS2	-3.01	0
GPR18	-3.01	1.00E-05
MS4A6A	-3	0
FAM131B	-2.98	0.00802
MAP6D1	-2.95	0
CHST4	-2.95	0.00531
SHISA2	-2.93	0
PRLR	-2.93	0.00047
KCNN2	-2.92	0
AZU1	-2.91	0
CD59	-2.91	0
DACH1	-2.91	0
KNG1	-2.9	0.00532
RPL36A	-2.89	0
SCGB1D2	-2.89	0.00107
PACSIN3	-2.88	0.002
CA8	-2.87	0
NTHL1	-2.87	0
FZD2	-2.86	0.00028
IMMP2L	-2.84	0
RPP40	-2.82	0
USP18	-2.81	0.01147
GCSH	-2.8	0
MMACHC	-2.79	1.00E-05
TET1	-2.79	0.00925
C1ORF186	-2.78	0
GCAT	-2.77	0
CCDC36	-2.76	0.02591

BEX2	-2.76	0.03645
ASS1	-2.74	0
PLD6	-2.74	0
FJX1	-2.72	3.00E-05
RXFP1	-2.72	0.00217
MYBBP1A	-2.71	1.00E-05
CFD	-2.68	0
ISOC2	-2.67	0
MACROD1	-2.67	1.00E-05
NPAS1	-2.66	0.03007
WT1	-2.65	0
LILRB4	-2.65	0.00206
IRAK1BP1	-2.63	6.00E-05
WWC1	-2.63	0.00021
NLRP2	-2.63	0.00506
FAM117B	-2.62	0
PM20D2	-2.61	0
SRM	-2.61	0
ADAM23	-2.61	0.01219
TUBA3E	-2.6	0.03415
SLC29A2	-2.59	0
HTR6	-2.59	0.01227
FEZ1	-2.58	0
NOP16	-2.57	0
FLJ39827	-2.56	0
GABRB2	-2.56	0.00197
PNMA3	-2.55	4.00E-05
DEPDC6	-2.54	0.00598
ABCB10	-2.53	0
BMP8B	-2.52	0
SIDT1	-2.52	0.00339
MAP4K1	-2.5	0.00033
ALDH1B1	-2.49	1.00E-05
PUS7	-2.48	0
SAMD13	-2.47	0.00145
CCND2	-2.46	0
ZDHHC11	-2.46	1.00E-05
PAR6G	-2.45	1.00E-04
C7ORF68	-2.44	0
SLC25A23	-2.43	0
SPNS2	-2.43	2.00E-05

C16ORF13	-2.42	0
PDIA5	-2.41	0
MRPL12	-2.41	4.00E-05
SLITRK5	-2.41	5.00E-05
BCL2	-2.39	0
C12ORF24	-2.39	0
PDCD2L	-2.39	0
TRAP1	-2.39	0
DNAJC12	-2.38	0
SLC25A15	-2.38	0.00055
ALDH18A1	-2.37	0
C21ORF56	-2.37	0.00415
ARHGAP5	-2.36	8.00E-05
GLB1L2	-2.36	0.02187
CYORF15A	-2.36	0.04001
C10ORF2	-2.35	0
WIT1	-2.34	0.00025
TMEM161A	-2.34	0.00082
C20ORF27	-2.33	0
WDR21A	-2.33	0.00015
KAT2A	-2.32	0
PFN2	-2.32	0.00045
ABCC4	-2.31	0
AK3L1	-2.29	0
SFXN2	-2.29	1.00E-05
ADA	-2.29	2.00E-05
AFMID	-2.29	5.00E-05
DLEU1	-2.27	0
CCDC86	-2.25	0
SLC27A5	-2.25	4.00E-05
LGR4	-2.24	1.00E-05
LASS1	-2.24	3.00E-05
POLR3G	-2.24	0.00097
C9ORF140	-2.23	0
NPM3	-2.23	0
SLC25A19	-2.23	0
RNF207	-2.23	9.00E-05
ALKBH2	-2.22	0
RPL29	-2.22	0
SDK2	-2.22	1.00E-05
ACY1	-2.22	2.00E-05



C18ORF22	-2.22	2.00E-05
SLC17A9	-2.22	8.00E-05
GAMT	-2.2	0
TYSND1	-2.2	0
C3ORF26	-2.19	0
CDK6	-2.19	0
DBP	-2.18	0.00014
MPP6	-2.17	0
NME1	-2.17	0
CDCA7	-2.16	0
WNT10B	-2.16	0.03838
MIF	-2.15	0
RPS7	-2.15	0
UNG	-2.15	0
CXORF21	-2.15	1.00E-05
HEATR1	-2.14	0
TFAP4	-2.14	0
NHEDC2	-2.14	2.00E-05
IL12A	-2.14	0.02436
GLCCI1	-2.13	2.00E-05
PIK3C2B	-2.13	0.02642
RAB40B	-2.12	1.00E-05
B3GNT6	-2.12	0.00037
IQUB	-2.12	0.01801
VIT	-2.11	0
WIT-1	-2.11	0.00102
FLJ46156	-2.11	0.02187
PRRG2	-2.11	0.03191
P2RY2	-2.1	0
RNF175	-2.1	0.00054
PLCH1	-2.1	0.01615
NOLC1	-2.09	0
LRRC34	-2.09	0.00124
PSMG4	-2.08	0
TGIF2	-2.08	0
EXOSC5	-2.08	1.00E-05
ID3	-2.08	0.00055
DZIP1	-2.08	0.03677
IL26	-2.08	0.03865
C7ORF41	-2.07	0
MCOLN2	-2.07	0

TSTA3	-2.07	1.00E-05
UBIAD1	-2.06	0
CHCHD6	-2.05	0
SLMO1	-2.05	0
KLHL23	-2.05	0.00308
KLF11	-2.04	0
PRMT1	-2.04	0
LDLRAD3	-2.04	1.00E-05
GIYD2	-2.04	0.02103
BOP1	-2.03	0
IFRD2	-2.03	0
MIPEP	-2.03	3.00E-05
GCDH	-2.02	0
TMOD1	-2.02	8.00E-05
PTPRCAP	-2.01	0
MSRB3	-2.01	0.00011
ZSCAN23	-2.01	0.00311
ZNF286A	-2.01	0.01342
VAPB	-2.01	0.04211
CBS	-2	0
HSPC111	-2	0
PCCB	-1.99	0
TNKS1BP1	-1.99	0.00016
GPT2	-1.98	0
WDR12	-1.98	0
WDR54	-1.98	0
TEAD4	-1.98	2.00E-05
CNKSR3	-1.98	0.00024
C1ORF93	-1.98	0.00096
KIAA0114	-1.97	0
POLD2	-1.97	0
SLC39A3	-1.97	0
MECR	-1.97	0.00023
CEP68	-1.97	0.01843
CENPM	-1.96	0
DTNA	-1.96	0
GEMIN5	-1.96	0
IFT57	-1.96	0
PEBP1	-1.96	0
ITM2A	-1.96	0.00013
PTCD2	-1.96	0.00027

DHODH	-1.96	0.00095
DAD1L	-1.96	0.0066
ANKLE1	-1.95	0
DPH2	-1.95	0
TFB2M	-1.95	0
MDN1	-1.95	1.00E-05
KILLIN	-1.95	0.01489
GPD1L	-1.94	0
PSAT1	-1.94	0
SIGMAR1	-1.94	0
C18ORF45	-1.94	0.00087
FAM189B	-1.93	0
SMYD2	-1.93	0
BEND3	-1.93	0.00012
C10ORF79	-1.93	0.0047
CRYZ	-1.92	0
NARS2	-1.92	0
RRP1	-1.92	0
MEST	-1.92	0.03045
EBNA1BP2	-1.91	0
IPO4	-1.91	0
P2RY8	-1.91	1.00E-05
ICOSLG	-1.91	5.00E-05
MCM3APAS	-1.91	0.00196
OXCT2	-1.9	0
PPAT	-1.9	0
SCARB1	-1.9	0
SUPV3L1	-1.9	0
NMNAT3	-1.9	0.00913
KHDRBS3	-1.9	0.00968
TMEM231	-1.89	1.00E-05
TTC26	-1.89	1.00E-05
SNORA71A	-1.89	0.03383
TMEM97	-1.88	0
CAD	-1.88	1.00E-05
LZTFL1	-1.88	2.00E-05
REEP6	-1.88	0.02536
CLYBL	-1.87	0
MTHFD1L	-1.87	0
NHP2	-1.87	0
PPAN-P2RY11	-1.87	3.00E-05

GAR1	-1.86	0
HSPB1	-1.86	0
KBTBD6	-1.86	0
MBLAC2	-1.86	0
NDUFAF2	-1.86	0
UTP20	-1.86	0.00093
GSDM1	-1.86	0.00144
CABC1	-1.85	0
CENPV	-1.85	0
LRRC20	-1.85	0
LYAR	-1.85	0
NR2F2	-1.85	0
URB2	-1.85	0
HSH2D	-1.85	1.00E-05
ZNF354C	-1.85	0.02723
IQCK	-1.84	3.00E-05
MRT04	-1.84	4.00E-05
FBL	-1.83	0
GINS2	-1.83	0
ST6GAL1	-1.83	0
FLJ13305	-1.83	1.00E-05
DJ222E13.2	-1.83	5.00E-05
TTC7A	-1.83	0.00295
SNORA23	-1.83	0.03754
IMP4	-1.82	0
TOP1MT	-1.82	0
FAHD2B	-1.82	1.00E-05
RUVBL1	-1.82	2.00E-05
FAM86C	-1.82	0.0071
CAMKV	-1.82	0.0425
ABHD14B	-1.82	0.04369
ERI3	-1.81	0
FKBP4	-1.81	0
NOP56	-1.81	0
OAF	-1.81	0
SLC25A4	-1.81	0
TTC27	-1.8	0
SLC39A10	-1.8	1.00E-05
NME4	-1.79	0
PDF	-1.79	0.00011
ZNF185	-1.79	0.01349

CIRH1A	-1.78	0
MARS2	-1.78	0
LRFN4	-1.78	1.00E-05
CXORF15	-1.78	2.00E-05
DTD1	-1.77	0
ELOVL6	-1.77	0
LY6E	-1.77	0
PFAS	-1.77	0
WDR18	-1.77	0
PRICKLE1	-1.77	1.00E-05
CHST12	-1.77	3.00E-05
NUBP2	-1.77	0.00015
MRM1	-1.77	0.00224
SLC38A5	-1.76	0.00207
TOMM20L	-1.76	0.00995
ASNS	-1.75	0
MYB	-1.75	0
FAM162A	-1.75	1.00E-05
HAGHL	-1.75	2.00E-05
FASN	-1.74	0
KIAA1804	-1.74	0
MTHFD1	-1.74	0
NUCB2	-1.74	0
NUDT7	-1.74	0
REXO4	-1.74	0
PHOSPHO2	-1.74	4.00E-05
NUFIP1	-1.74	9.00E-05
MAGEC2	-1.74	0.00051
FAM86A	-1.73	0
LIN28B	-1.73	0
MRPS26	-1.73	0
SLC16A10	-1.73	0
SLC5A6	-1.73	0
CDCA7L	-1.73	3.00E-05
SOHLH2	-1.73	5.00E-04
ANKRD41	-1.72	0
CCDC34	-1.72	0
CLEC11A	-1.72	0
NUP88	-1.72	0
TDRD7	-1.72	0
UAP1	-1.72	1.00E-05

CDR2L	-1.72	2.00E-05
BZW2	-1.71	0
METTLL1	-1.71	0
WDR4	-1.71	0
RCC1	-1.71	3.00E-05
ADAM6	-1.71	0.00165
BCAT1	-1.7	0
ENDOG	-1.7	0
PAFAH1B3	-1.7	0
RPL6	-1.7	0
SLC22A4	-1.7	0
SACS	-1.7	1.00E-05
TBC1D4	-1.7	1.00E-05
RET	-1.7	2.00E-05
STUB1	-1.7	0.00097
C12ORF66	-1.7	0.00154
C22ORF9	-1.69	0
NFE2L3	-1.69	0
IMPDH2	-1.69	1.00E-05
DEAF1	-1.69	6.00E-05
CCDC85B	-1.69	0.00035
BEND6	-1.69	0.00045
COQ3	-1.68	0
MEF2D	-1.68	0
SPATA13	-1.68	0.00501
CSDA	-1.67	0
IRX3	-1.67	0
RUVBL2	-1.67	0
SETMAR	-1.67	0
TSPAN32	-1.67	0
TTLL12	-1.67	0
PYCRL	-1.67	0.00019
TBL3	-1.67	0.00137
TMEM45A	-1.67	0.02074
CA2	-1.66	0
LSM7	-1.66	0
NUDT16L1	-1.66	0
C7ORF40	-1.66	1.00E-05
MRPS2	-1.66	4.00E-05
C9ORF41	-1.66	0.00011
SEMA3A	-1.66	0.00708

ARL2	-1.65	0
CTNNAL1	-1.65	0
NOLA1	-1.65	0
SFXN4	-1.65	0
FARS2	-1.65	1.00E-05
CD300LG	-1.65	0.01057
ISG20L1	-1.64	0
PPAN	-1.64	0
SCAMP1	-1.64	0
TNFSF13B	-1.64	0
SLC1A3	-1.64	2.00E-05
HOMER1	-1.64	0.00075
GPATCH4	-1.63	0
RUNDC3B	-1.63	2.00E-05
KIAA0133	-1.63	0.00164
AHCY	-1.62	0
GART	-1.62	0
PDCD5	-1.62	0
PHGDH	-1.62	0
RRS1	-1.62	0
TXNIP	-1.62	0
ZNF586	-1.62	0
FAM102B	-1.62	1.00E-05
SLC27A2	-1.62	1.00E-05
BEX1	-1.62	1.00E-04
HOTAIR	-1.62	0.03415
C7ORF65	-1.62	0.03965
CCRN4L	-1.61	1.00E-05
BLMH	-1.61	2.00E-05
QTRT1	-1.61	2.00E-04
ATAD3A	-1.6	0
ELP2	-1.6	0
FTSJ1	-1.6	0
RFTN1	-1.6	0
SORD	-1.6	0
GATA2	-1.6	1.00E-05
JUP	-1.6	1.00E-05
WDR27	-1.6	3.00E-05
TNS3	-1.6	4.00E-05
CGI-96	-1.6	1.00E-04
HIST2H2AC	-1.6	0.00029

ACOT7	-1.59	0
ATXN10	-1.59	0
MRPL54	-1.59	0
AARSD1	-1.59	1.00E-05
RDH13	-1.59	1.00E-05
AAMP	-1.59	0.00075
HRSP12	-1.58	0
MRPL36	-1.58	0
REXO2	-1.58	0
POLR3D	-1.58	1.00E-05
ZNF92	-1.58	0.03565
SCO2	-1.57	0
KCTD15	-1.57	1.00E-05
COMTD1	-1.57	5.00E-05
BCL2L11	-1.57	0.00015
CARM1	-1.56	0
CCRK	-1.56	0
FYN	-1.56	0
SNORD96A	-1.56	0.00022
IMPACT	-1.56	0.00064
PDGFD	-1.56	0.00327
SNORD96B	-1.56	0.00416
POP1	-1.55	0
BYSL	-1.55	1.00E-05
C1QBP	-1.55	2.00E-05
B4GALT2	-1.55	0.00022
LPHN2	-1.55	0.00061
C10ORF125	-1.55	0.00211
MRPL4	-1.54	0
PEMT	-1.54	0
QDPR	-1.54	0
IPO13	-1.54	1.00E-05
POLR2I	-1.54	1.00E-05
SLC25A10	-1.54	1.00E-05
ABHD14A	-1.54	3.00E-05
POMT2	-1.54	3.00E-05
POLR1B	-1.54	5.00E-05
ASMTL	-1.54	4.00E-04
FARSB	-1.54	0.00056
DLX1	-1.53	0
KATNB1	-1.53	0



TARBP1	-1.53	0
TCFL5	-1.53	0
DKFZP686O24166	-1.53	1.00E-05
UHRF1	-1.53	1.00E-05
MINA	-1.53	2.00E-05
C8ORF38	-1.53	3.00E-05
SNORA84	-1.53	0.00013
KLHL35	-1.53	0.00068
KIAA0368	-1.53	0.00094
UGT2B11	-1.53	0.00211
DEFB122	-1.53	0.01389
BCAR4	-1.53	0.01448
MT1G	-1.52	0
NAT14	-1.52	0
AKR7A3	-1.52	1.00E-05
EIF3CL	-1.52	2.00E-05
ORM2	-1.52	2.00E-05
ZBTB44	-1.52	2.00E-05
C12ORF45	-1.52	3.00E-05
ZNF74	-1.52	5.00E-05
PATZ1	-1.52	0.00031
FERMT1	-1.52	0.00409
CYP27B1	-1.52	0.00647
PDXP	-1.51	1.00E-05
PFKM	-1.51	1.00E-05
NLN	-1.51	0.00011
ACN9	-1.5	0
BCKDHB	-1.5	0
GNL3	-1.5	0
IRX5	-1.5	0
LRP3	-1.5	0
MFSD3	-1.5	0
MTP18	-1.5	1.00E-05
ORM1	-1.5	1.00E-05
XRCC6BP1	-1.5	1.00E-05
CCDC58	-1.5	2.00E-05
PRSS12	-1.5	4.00E-05
RPS21	-1.5	7.00E-05
EIF4EBP1	-1.5	8.00E-05
MGC35361	-1.5	0.00013
FSTL3	-1.5	0.00893

IGF2R	1.5	0
RCSD1	1.5	1.00E-05
TMEM175	1.5	1.00E-05
HNMT	1.5	2.00E-05
MTHFS	1.5	2.00E-05
SFXN5	1.5	2.00E-05
KIAA1598	1.5	5.00E-05
LPHN3	1.5	0.00122
CYTIP	1.5	0.00249
ZFAND3	1.5	0.02012
ZNF485	1.5	0.02642
GRINA	1.51	0
KCTD12	1.51	0
ITGAV	1.51	1.00E-05
KLF4	1.51	1.00E-05
RNF149	1.51	1.00E-05
PELI1	1.51	1.00E-04
B3GNT8	1.52	2.00E-05
MTHFR	1.52	0.00025
KIAA1271	1.52	0.01134
SDPR	1.52	0.0258
OR51D1	1.52	0.03413
NPL	1.53	0
TANK	1.53	0
ENG	1.53	1.00E-05
PSCD1	1.53	1.00E-05
ALPK1	1.53	2.00E-05
IRF1	1.53	3.00E-05
SAMD9L	1.53	8.00E-05
CASP7	1.53	0.00027
MAP7	1.53	0.00952
KRTAP10-1	1.53	0.04142
IFNGR2	1.54	0
ACOT11	1.54	1.00E-05
ZC3H12A	1.54	2.00E-04
FSTL5	1.54	0.0025
KCNAB1	1.54	0.02587
ATP6V1D	1.55	0
MTMR3	1.55	0
PFKFB4	1.55	0
IL18BP	1.55	0.00015

TIRAP	1.55	0.00337
FURIN	1.55	0.0048
RGS2	1.56	0
CORO1B	1.56	3.00E-05
PRDM1	1.56	0.00036
PITPNA	1.56	0.01239
GBGT1	1.57	0
INPP1	1.57	0
CTSH	1.57	1.00E-05
GDI1	1.57	2.00E-05
MAP1LC3B	1.57	4.00E-05
ZCCHC24	1.57	8.00E-05
MOBK2C	1.57	0.00016
SLC48A1	1.58	0
DOK3	1.58	0.00069
SMPD1	1.58	0.00135
FER1L3	1.58	0.00335
RGS14	1.58	0.02448
LPP	1.59	0
SH3BP1	1.59	0
DMXL2	1.59	1.00E-05
CXCL6	1.59	5.00E-05
PLSCR1	1.59	0.00296
TMEM187	1.59	0.00325
EIF2C4	1.59	0.00592
PLEKHF1	1.59	0.01424
FAM151B	1.59	0.01537
NOL3	1.59	0.03688
GEM	1.59	0.04669
HPCAL1	1.6	0
EHD1	1.6	1.00E-05
ELL2	1.6	2.00E-05
CLOCK	1.6	7.00E-05
SH3RF1	1.6	0.00011
HRH1	1.6	0.00105
SLCO2B1	1.6	0.00621
RHOH	1.6	0.02049
PAX8	1.6	0.03484
CFLAR	1.61	0
CTSA	1.61	1.00E-05
TPK1	1.61	1.00E-05

RNF19B	1.61	4.00E-05
PPP2R2C	1.61	0.0147
ESRRB	1.61	0.03035
LPIN2	1.62	0
DCUN1D3	1.62	2.00E-05
DENND4B	1.62	2.00E-05
CNTNAP4	1.62	3.00E-05
GPR162	1.62	4.00E-05
C10ORF118	1.62	0.00118
FAM134B	1.63	0
IL10RB	1.63	0
SQRDL	1.63	2.00E-05
TMTC1	1.63	7.00E-05
C9ORF72	1.63	0.00084
C9ORF103	1.63	0.02452
RNU1G2	1.64	0
RABGAP1	1.64	0.00021
CSGALNACT2	1.64	0.00023
TTY1	1.64	0.00949
FUCA1	1.65	0
TMEM144	1.65	2.00E-05
DNHL1	1.65	0.02201
ANKRD22	1.66	0
HIF1A	1.66	0
ENC1	1.66	3.00E-05
SRA1	1.66	3.00E-05
B3GNT5	1.66	0.00012
MITF	1.66	0.0018
PHC2	1.66	0.00383
NOTCH1	1.67	0
WDR26	1.67	1.00E-05
C11ORF75	1.67	2.00E-05
EEPD1	1.67	4.00E-05
NPHP3	1.67	2.00E-04
PCAF	1.67	0.03175
GRN	1.68	0
LACTB	1.68	0
RNU1-3	1.68	0
CCDC126	1.68	1.00E-05
IRF9	1.68	2.00E-05
ZNF514	1.68	0.00013

HSD17B13	1.68	0.00032
PLXDC2	1.68	0.0127
OSGIN2	1.69	0
GALNT12	1.69	0.00466
SLC38A6	1.7	0
CHD2	1.7	3.00E-05
DNAH1	1.7	0.00024
CD55	1.7	0.00027
CALHM2	1.7	0.00039
MX2	1.7	0.01214
ARHGAP24	1.7	0.01219
EVPL	1.7	0.04962
IFNGR1	1.71	0
SRXN1	1.71	0
IQCG	1.71	0.00041
TNFAIP8L3	1.71	0.00349
C12ORF35	1.72	0
CLIP1	1.72	0
KLF2	1.72	1.00E-05
FMO5	1.72	0.00021
SLC6A12	1.72	0.02221
BMP2K	1.73	0
FCRLB	1.73	0
MTF1	1.73	0
RAX2	1.73	0.02518
MGC3771	1.73	0.04565
RN7SK	1.74	0
RNU1-5	1.74	1.00E-05
ACP2	1.74	0.00017
NOTCH2	1.74	0.00061
C19ORF66	1.74	0.00086
HTR7	1.74	0.00719
PCTK1	1.74	0.02616
CLIC2	1.74	0.03905
KCTD7	1.74	0.04794
POR	1.75	0
DYNLT3	1.75	1.00E-05
RHBDD2	1.75	1.00E-05
SLC5A3	1.75	0.00578
KLHDC7A	1.75	0.00924
KRT37	1.75	0.01132

PMAIP1	1.76	0
CCL23	1.76	1.00E-05
TMEM87B	1.76	0.00112
ROBO2	1.76	0.00643
C5	1.76	0.02642
OR3A1	1.76	0.03979
TTYH3	1.77	0
LGALS12	1.77	0.00026
ZFP36L1	1.78	2.00E-05
MAPK13	1.78	0.00093
SPTA1	1.78	0.02425
PRR7	1.78	0.04034
HIST1H2BK	1.79	0
NPC1	1.79	0
TGFBR2	1.79	0
CYTH1	1.79	1.00E-05
F11R	1.79	1.00E-05
NQO2	1.79	3.00E-05
FLJ10996	1.79	0.00324
GOLGA9P	1.79	0.04175
CCND3	1.8	0
KRCC1	1.8	0
GK	1.8	1.00E-05
TAAR9	1.8	0.0146
BHLHB2	1.81	0
CCDC92	1.81	0.00136
GARNL4	1.81	0.00185
TMEM91	1.81	0.00645
SDS	1.81	0.02633
PTPRG	1.81	0.0423
PLD3	1.82	0
FOS	1.82	1.00E-05
OSBPL11	1.82	2.00E-05
YPEL5	1.82	2.00E-05
ANTXR2	1.83	0
SLC36A1	1.83	0
FLJ20489	1.83	6.00E-05
NTSR1	1.83	0.00012
ANK2	1.83	0.03369
TECPR1	1.84	0
CD1D	1.84	2.00E-05

AMELY	1.84	0.01581
CCDC147	1.85	0
HEXB	1.85	0
TNF	1.85	0
BST1	1.85	1.00E-05
LMO3	1.85	0.01799
CTSB	1.86	0
DOCK10	1.86	0
S100A6	1.86	0
ADAM17	1.86	1.00E-05
PTAFR	1.86	0.00041
ACOX2	1.86	0.00097
C2CD2L	1.86	0.00159
CIDECP	1.86	0.00674
CAPN10	1.86	0.01312
ARHGAP27	1.87	0
FGD3	1.87	0
CDA	1.87	8.00E-04
PCDHGA3	1.87	0.03503
CD300LF	1.88	0
DDIT3	1.88	0
ANXA1	1.88	3.00E-05
PML	1.88	0.04573
C1ORF162	1.89	0
LRP10	1.89	0
LTB4R	1.89	0
NFKBIL1	1.89	0.04289
FERMT3	1.9	0
TOM1	1.9	0
MXD1	1.9	2.00E-05
TRIM38	1.9	5.00E-05
CTSK	1.9	0.00058
CART1	1.9	0.01511
TBC1D2	1.9	0.01581
NAGK	1.91	0
SAT1	1.91	0
C9ORF164	1.91	0.00106
LYG1	1.91	0.03484
PSAP	1.92	0
MMP25	1.92	1.00E-05
SLC44A2	1.92	1.00E-05

PAX3	1.92	0.00651
TFF2	1.92	0.0306
CPD	1.93	0
DNAJB2	1.93	0
DPYD	1.93	0
NINJ2	1.93	0
SYTL3	1.93	2.00E-05
NFKB2	1.93	0.00013
YPEL3	1.93	0.00224
AMICA1	1.93	0.00884
FBXL14	1.93	0.04565
HILS1	1.93	0.04567
KIAA0913	1.94	0
PTPRE	1.94	0
TNFRSF10D	1.94	0.00263
DOPEY1	1.94	0.01114
PIR	1.95	0
SYNJ1	1.95	0
RHOBTB3	1.95	2.00E-05
SERTAD1	1.96	0
SIGLEC7	1.96	0.00012
CRYL1	1.96	0.00016
DYSF	1.96	0.02585
ASTL	1.96	0.02589
ADORA3	1.97	0
NID2	1.97	0.03568
STK40	1.98	0
BLVRB	1.98	1.00E-05
PDGFRL	1.98	7.00E-05
LGALS3	1.98	0.00057
EGF	1.98	0.01757
ASB2	1.98	0.0189
SNORA28	1.98	0.02917
DENND4C	2	0
KLF6	2	0
NRCAM	2	0.041
TPP1	2.01	0
HIP1	2.01	1.00E-05
NMT2	2.01	6.00E-05
COL9A2	2.01	0.0026
STX11	2.02	0



ACPP	2.02	1.00E-04
VSIG1	2.02	0.03971
APLP2	2.03	0
PHCA	2.03	0
PDLIM5	2.03	3.00E-04
PTPRC	2.04	0
PBX3	2.04	1.00E-05
MR1	2.05	0
POLD4	2.05	0.01755
FAM171B	2.05	0.03943
TMC6	2.06	0
TMEM127	2.06	1.00E-05
MYO5C	2.06	0.00336
RHOB	2.06	0.01693
IGSF6	2.06	0.04401
KIAA1370	2.07	0
S100A4	2.07	0
PECR	2.07	2.00E-05
KLF10	2.07	3.00E-05
ZNF433	2.07	0.04046
ADAM9	2.08	0
EMR4P	2.08	0.00012
CYTH4	2.08	5.00E-04
BAG3	2.09	0
NAMPT	2.09	0
SPPL2A	2.09	0
STXBP5	2.09	0
FAM104B	2.09	0.00058
FAM151A	2.09	0.00478
IFI6	2.1	0
NEU1	2.1	0
PTPN22	2.1	0
RN5S9	2.1	0
HS1BP3	2.1	0.00036
ATP7A	2.1	0.00198
LITAF	2.11	0
LRG1	2.11	0
PANX2	2.11	0
ICAM3	2.12	0
TNFSF9	2.12	2.00E-05
SIGLEC9	2.12	0.04201

ARHGAP12	2.13	0
OSTM1	2.13	0
PNPLA1	2.13	2.00E-05
SIGLEC14	2.13	0.01167
GPR137B	2.14	3.00E-05
CLCF1	2.14	4.00E-05
AXUD1	2.15	0
RELB	2.15	0
EVI2A	2.15	1.00E-05
ECM1	2.15	4.00E-05
MVP	2.15	0.00015
PDE6H	2.16	0.00353
NPR2	2.16	0.00576
ATP6V0A1	2.17	0
HSF4	2.17	0.01433
CYP17A1	2.17	0.01603
RAB31	2.18	0
SDCBP	2.18	0
TGFBR1	2.18	0.02593
RHBDL2	2.18	0.03799
ACSL1	2.19	0
CCPG1	2.19	0
BATF	2.19	7.00E-05
CTSO	2.2	0.00524
AADACL1	2.21	0
SNORD3C	2.21	0.00016
GUCA1B	2.21	0.00041
RHBDF1	2.21	0.00238
ANXA5	2.22	0
SECISBP2L	2.22	0
SMOX	2.22	0
MAPRE3	2.22	0.01795
IL6ST	2.22	0.04625
FYB	2.23	0.00016
TIMP2	2.23	0.00023
SDSL	2.23	0.00041
HPD	2.23	0.00104
GIMAP4	2.23	0.02319
TRIB2	2.24	0
MYO5A	2.25	0
PRKCB	2.26	0

GPR82	2.26	0.01355
ADCY4	2.26	0.04285
SERPINB1	2.27	0
PKD2L1	2.27	0.01221
GAS7	2.28	0
NOD2	2.28	0.00327
ABTB1	2.28	0.00781
SLC38A3	2.28	0.03778
PECAM1	2.29	0
PRKCB1	2.29	0
PSCD4	2.29	0
APOB48R	2.29	2.00E-05
ZNF397	2.29	0.01327
FTHL2	2.29	0.03467
CD53	2.3	0
NCF1B	2.3	0.00064
SRC	2.3	0.04489
ARHGAP9	2.31	0
MCOLN1	2.31	1.00E-05
CDS1	2.31	0.00878
CPEB4	2.33	7.00E-05
RAB7B	2.33	1.00E-04
PH-4	2.33	0.0146
ZMYND11	2.33	0.02593
ORAI3	2.33	0.0368
GBP2	2.34	0
KAT2B	2.34	0
NLRP12	2.34	1.00E-05
RAB20	2.34	1.00E-05
ICAM1	2.34	6.00E-04
MSC	2.34	0.0139
GLRX	2.35	0
PDLIM7	2.35	2.00E-05
C2ORF58	2.35	0.00011
ARRDC3	2.35	0.00247
G6PD	2.36	0
BEST1	2.36	0.00035
LSP1	2.37	0
MGAM	2.37	0.00044
PLEKHG2	2.37	0.01506
KIAA0247	2.38	0

IRS1	2.38	0.03997
C3AR1	2.39	0
IL4R	2.39	0
ASRGL1	2.39	1.00E-05
ANKDD1A	2.39	2.00E-05
FRMD7	2.39	0.00674
TLR6	2.4	0.00084
C1ORF183	2.4	0.02246
LAPTM5	2.41	0
TNFAIP6	2.41	0
TPCN1	2.41	0.00217
CAMSAP1L1	2.41	0.00632
C12ORF59	2.43	3.00E-05
SRGAP1	2.43	0.00082
WDR31	2.43	0.02351
RIT1	2.44	0
DEFB115	2.44	0.04626
RSPH3	2.45	2.00E-05
TMEM169	2.45	0.03114
AIM2	2.46	1.00E-05
PLXNC1	2.46	0.00556
GABARAPL1	2.47	0
ID2	2.47	0
TMOD2	2.47	0.00758
FLRT2	2.47	0.02116
KCNB2	2.47	0.02433
P2RY13	2.48	0.02707
OSCAR	2.49	0
PGD	2.49	0
SH3BGRL3	2.49	0
SLC15A3	2.49	0
PTGS1	2.49	1.00E-05
DENND2D	2.49	0.02099
LAT	2.5	0
OXGR1	2.51	0.02769
CMTM1	2.52	0
LGALS1	2.52	0
SERPINB2	2.52	0
ADAM8	2.52	8.00E-05
RGPD1	2.52	0.00048
COL15A1	2.52	0.01375

CA10	2.52	0.02538
DNASE2	2.53	0.00017
MAFF	2.54	0
PSTPIP1	2.54	1.00E-04
ENPP2	2.54	0.00028
BRI3	2.55	0
HK1	2.55	0
NINJ1	2.55	0
CTNNA1	2.55	6.00E-05
SIGLECP3	2.55	0.00039
TRAF3IP3	2.56	1.00E-05
EID3	2.56	0.00077
GBP3	2.56	0.00154
GRPR	2.56	0.00261
LILRB2	2.56	0.00324
IGSF2	2.56	0.01395
SLC2A5	2.57	0
APOBEC3B	2.57	0.01404
CD37	2.57	0.01615
PPP1R15A	2.59	0
SDC4	2.59	0.01392
MIR23B	2.59	0.03907
CYP1B1	2.6	0
GLIPR2	2.6	0
HBEGF	2.6	0
DUSP18	2.6	0.00143
HCK	2.61	0
PLEKHO2	2.61	0
NPB	2.61	0.02953
RASGRP1	2.62	0.02082
SLC25A24	2.63	0
TFE3	2.63	1.00E-05
ITPKA	2.64	0
MFSD6	2.64	0
DDX60L	2.65	0
IL10RA	2.66	0
VWA5A	2.66	2.00E-05
IQSEC1	2.66	0.00551
NPVF	2.66	0.01457
DOK2	2.67	0
GLIPR1	2.68	0

CUEDC1	2.68	1.00E-05
MIR1275	2.7	0.00119
GPR84	2.71	0
MAP3K8	2.71	1.00E-05
ARX	2.71	0.01151
AP1S2	2.72	0
SASH3	2.72	1.00E-05
PDE1B	2.72	0.00067
EFCAB1	2.72	0.00724
TLR1	2.73	1.00E-05
CD300C	2.74	0
HIPK2	2.74	0
RGS1	2.74	0
SLC31A2	2.74	0
SLC6A6	2.74	0
ARAP3	2.75	0
MIR302C	2.75	0
PPARG	2.75	0
CDKN2B	2.75	1.00E-05
PLP2	2.75	1.00E-05
SLC12A6	2.75	0.00016
CLDN7	2.75	0.01495
ARHGAP18	2.76	0
CD58	2.76	0
PLUNC	2.76	0.03677
CTSL1	2.77	0
IFI16	2.77	0
ABHD4	2.78	0.00201
F5	2.78	0.0236
SLC11A1	2.78	0.02764
SP140	2.81	2.00E-05
C10ORF53	2.81	0.00976
CD68	2.83	0
SULF2	2.83	8.00E-05
CD163	2.84	0.00072
DUSP5	2.85	0
IFIT2	2.85	0.00105
FILIP1L	2.87	0
CSF1R	2.88	0
EMR2	2.89	0
ALOX5AP	2.9	0

ADORA2A	2.91	0
NPC2	2.91	0
ARHGAP26	2.92	2.00E-05
CXCL2	2.92	0.00253
SLC7A7	2.93	0
TLR8	2.93	0.00467
PRKACA	2.94	0.00728
CEBPB	2.95	0
CYBB	2.96	0
SH3BP2	2.96	0.00022
LPAR1	2.96	0.00093
SNX12	2.96	0.02612
BCL3	2.97	0
CFP	2.97	0.00309
C9ORF89	3	0
NQO1	3.01	0
VCY	3.01	0.02364
CACNA2D4	3.02	0
KYNU	3.02	0
CLEC4A	3.02	8.00E-05
CCR1	3.03	0
TNFRSF14	3.04	0
YAP1	3.04	0.00327
BOK	3.05	0
DUSP6	3.05	0
FTHL12	3.05	0
PILRA	3.06	0
SNORD3D	3.06	0
CLCNKA	3.06	0.01402
SLC2A6	3.09	1.00E-05
DSE	3.11	3.00E-05
SEMA6B	3.11	4.00E-05
CD36	3.12	0.00086
SPDYE1	3.13	0.04757
ACER3	3.14	1.00E-05
DISP1	3.14	0.00295
NCRNA00085	3.14	0.00457
SERPINA1	3.15	0.00014
HPSE	3.16	0.00052
FTHL7	3.17	0
HSPA1L	3.18	0.0126

ERMN	3.18	0.03503
FPR2	3.19	0.01822
STX1A	3.2	1.00E-05
CCDC88B	3.2	2.00E-05
ZNF697	3.2	0.00021
MEGF9	3.22	0
ARHGEF3	3.23	0.02449
SNORD113-4	3.24	0.01682
CCDC149	3.25	0.00076
PKIB	3.25	0.01548
OR8H1	3.26	0.02554
SLC9A9	3.26	0.04558
IL8	3.27	0
COL7A1	3.27	0.0114
F3	3.29	0
SYDE1	3.29	0.00452
FTHL11	3.3	0
C16ORF7	3.3	0.00639
FLJ21687	3.3	0.02735
WIP1	3.31	0.00212
CD86	3.32	0
SIRPB1	3.33	7.00E-05
CHI3L1	3.34	0
PNOC	3.34	0.00164
FOXF1	3.34	0.002
TMEM140	3.35	0.02768
DHRS3	3.36	0.00664
ACVR1	3.38	0
WSB2	3.39	1.00E-05
DOCK5	3.39	2.00E-04
ITGB5	3.39	0.01984
B4GALNT1	3.4	7.00E-05
SLC16A6	3.4	0.00037
KITLG	3.4	4.00E-04
METTL8	3.4	0.0178
CTSD	3.41	0
SQSTM1	3.41	0
FTHL3	3.42	0
RBM47	3.43	0
CCDC129	3.43	0.01269
SUCNR1	3.45	0



FTH1	3.46	0
TYROBP	3.46	0
LILRA5	3.46	0.00046
PLIN2	3.49	0
FMO4	3.49	0.00093
ABHD8	3.5	0
GPNMB	3.5	3.00E-05
PTGS2	3.51	1.00E-05
TMEM151A	3.51	0.01074
MIR943	3.51	0.02934
KIAA1618	3.54	2.00E-05
NLRC4	3.54	6.00E-05
FCHO2	3.54	0.03137
ADM	3.55	0
TNFAIP2	3.56	0
KRT80	3.56	0.00015
SPCS2	3.56	0.04688
IRAK2	3.57	1.00E-05
C19ORF59	3.58	0
RGL1	3.58	0
GALR3	3.58	0.00311
EFNB2	3.6	1.00E-05
CYP4B1	3.65	0
GATS	3.65	0
C15ORF52	3.67	1.00E-05
NFKBIZ	3.67	1.00E-05
IDUA	3.67	0.00145
FCGRT	3.69	0
LY96	3.7	0
TIMP1	3.71	0
ALOX5	3.72	0
CAPG	3.72	0
CD300A	3.72	3.00E-05
LFNG	3.74	0
CCL4L1	3.75	2.00E-05
MIR548L	3.75	0.04803
CR1	3.79	2.00E-04
DHRS9	3.8	0
SIPA1L2	3.8	0
MTMR7	3.8	0.00103
UPB1	3.81	0.00023

C1RL	3.84	0.00084
FLJ42986	3.85	0
KCNA4	3.87	0.00309
SLA	3.89	0
TMEM71	3.89	4.00E-05
C17ORF91	3.89	0.00292
ZDHHC1	3.89	0.03325
ANKRD33	3.9	0
HIST1H2BD	3.91	0.0221
IER5L	3.92	2.00E-05
UPP1	3.92	0.00047
OSM	3.93	3.00E-05
GPR34	3.94	3.00E-05
FCER1G	3.99	0
SIGLEC16	4.01	0.00429
PTPRO	4.02	0
TNFRSF12A	4.02	0.00016
ADAP2	4.03	0
TM4SF19	4.03	0.00228
S100A12	4.04	0.00266
BTG2	4.07	0
SLC43A2	4.07	7.00E-05
CD38	4.07	0.00088
SLC22A18	4.08	0.00714
A4GALT	4.08	0.01583
SLC16A14	4.09	0.0016
PDGFA	4.11	0.03756
FLJ20273	4.12	0
HK3	4.12	0.006
TBXAS1	4.13	0
JUN	4.16	0
NRP1	4.17	0
ZNF467	4.19	0.00261
CLEC5A	4.21	0
OSGIN1	4.22	8.00E-05
FAM129B	4.25	0
SGK1	4.25	0
HP	4.27	0
MMP9	4.29	0.00068
HMOX1	4.34	0
IL18R1	4.38	7.00E-05

C10ORF54	4.41	0
FAM20C	4.47	0.00266
TNNI2	4.48	0.00381
SLC47A2	4.48	0.00839
LAMB3	4.48	0.02805
CCRL2	4.5	0.00268
C13ORF31	4.52	0
SLC2A3	4.52	0
TTY16	4.52	0.00191
EGR1	4.53	0
SPOCD1	4.53	0.01307
ITGAX	4.55	0.01101
SCN2A	4.59	0.01655
OKL38	4.61	0
FPR1	4.61	0.00599
FLOT1	4.62	0
CXCL16	4.62	9.00E-05
CAMK2D	4.62	0.00858
SGK	4.63	0
KIAA1539	4.64	0.00019
BCL6	4.65	0
KIAA0513	4.67	8.00E-05
EGR2	4.68	1.00E-05
PLCB2	4.69	0
ERBB4	4.71	0.00604
CCL20	4.73	0
SLC2A14	4.74	0.04561
TBC1D9	4.75	0.02584
CENTD1	4.8	0.00229
SLC26A11	4.89	0.00028
CCL3	4.95	1.00E-05
AGPAT9	4.97	0
CDKN1A	4.97	0
BBS12	5	0.03233
OLR1	5.03	1.00E-05
GPR39	5.11	0.00346
HOM-TES-103	5.15	0.01045
LRRC25	5.19	0.00136
FLJ12684	5.26	0.00326
GNG2	5.27	0.00308
S100A8	5.34	0

S100A9	5.37	0
SLC22A18AS	5.41	5.00E-05
C5AR1	5.41	8.00E-05
AKR1C3	5.41	1.00E-04
NNMT	5.54	0.03655
TMEM158	5.58	0
GDF15	5.59	0.00088
NCF1C	5.6	0
NCF2	5.63	0
HAVCR2	5.69	0
EMP1	5.7	0
SPP1	5.71	0
IFI30	5.71	3.00E-05
RASGRP3	5.72	5.00E-05
NCF1	5.75	1.00E-05
PDX1	5.79	0.02134
ABCC3	5.88	0.02084
FOLR3	5.91	2.00E-05
MERTK	5.99	0
ITGAM	6	0
IER3	6.01	0
IL18RAP	6.01	1.00E-05
PHLDA1	6.02	0
CTSZ	6.08	0.00944
CCL3L3	6.24	0
FGR	6.28	0
CD14	6.31	0
THBS1	6.78	0.00074
TM6SF1	6.82	0.00031
RENBP	6.88	0.00941
CCL3L1	6.96	0.00028
PADI4	7	1.00E-05
IL1B	7.73	0
MAFB	7.91	0
AQP9	7.91	7.00E-05
CCL2	9.9	0