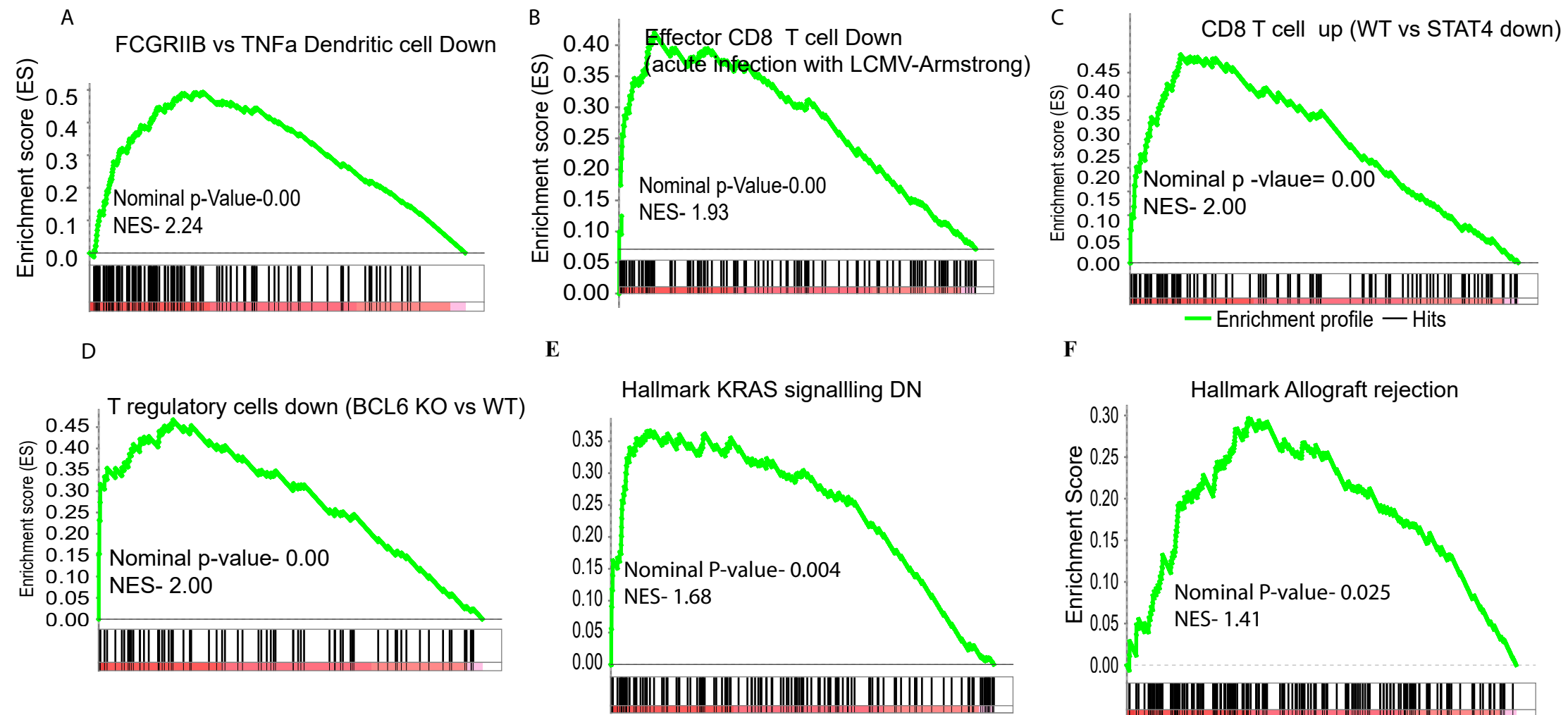
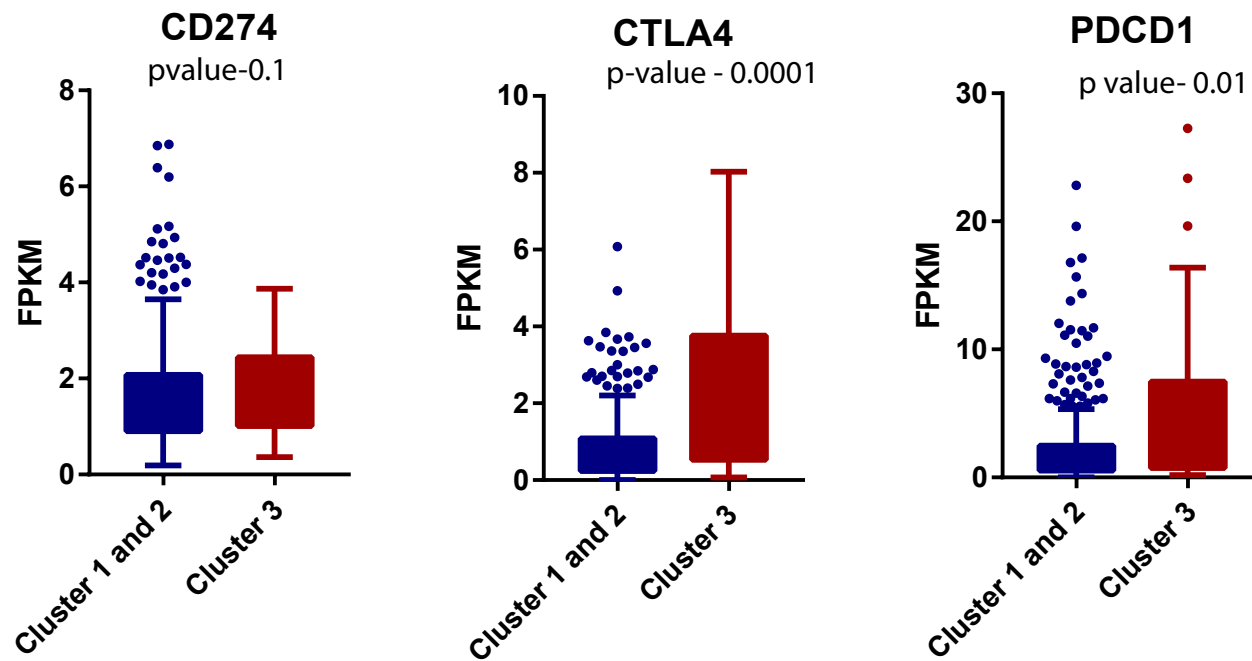


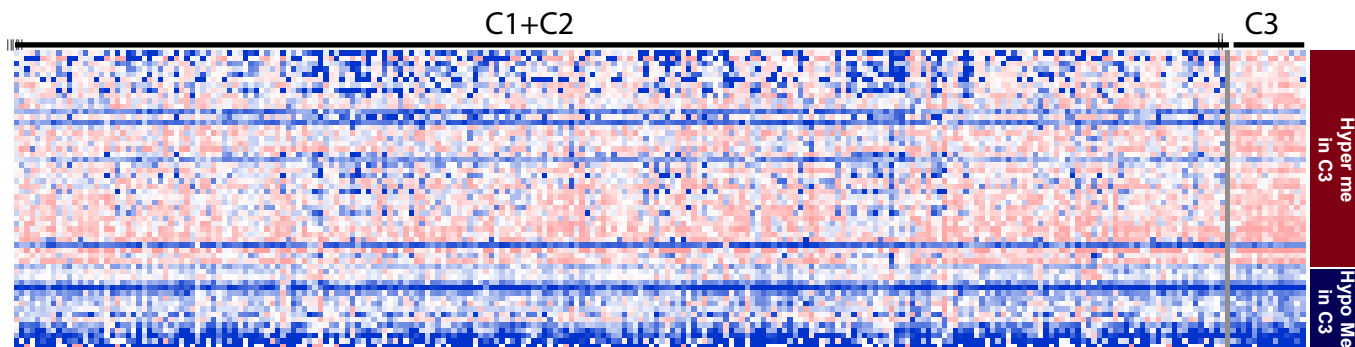
Supplementary Figure S1: A) Expression of KIRC associated genes in KIRC and Normal. B) Kaplan -Meier curve of three clusters C1, C2 and C3.



Supplementary Figure S2: GSEA analysis results showing enrichment of Mentioned gene sets



Supplementary Figure S3 :Expression level of CD274 (PDL1), CTLA4 and PDCD1 (PD1) genes in three immune cluster.



Supplementary Figure S4: Heatmap showing beta value of differentially methylated genes in C1+C2 and C3 clusters

Supplementary Table S1: Genes Differentially expressed in KIRC comared to Normal

gene_name	gene_type	Average Tumor	Average Normal	p value	Corrected P value	Fold change
CSG1L2	protein_coding	7.12	0	1E-06	0.00204897	1574.98
OSTM1-AS1	lincRNA	1.93	0	9E-42	1.8393E-38	508.99
RP11-73M14.1	lincRNA	0.12	0	1.4E-15	2.7728E-12	220.65
TBX5	protein_coding	0.22	0	8.3E-08	0.00016998	210.52
RP11-380J14.1	lincRNA	1.39	0	8.7E-22	1.7752E-18	200.92
RP11-211G23.2	lincRNA	3.8	0.02	1.9E-25	3.8884E-22	136.92
OR2A4	protein_coding	1.38	0.01	4.1E-23	8.4358E-20	134.02
MYEOV	protein_coding	7.19	0.05	9.3E-37	1.8914E-33	132.79
GOLGA6L2	protein_coding	0.11	0	4.9E-09	9.905E-06	129.09
BIRC7	protein_coding	8.78	0.06	1.5E-22	3.1082E-19	127.49
RP11-510C10.2	antisense	0.2	0	5.7E-10	1.1698E-06	106
RP11-510C10.3	antisense	0.1	0	2.2E-10	4.3942E-07	98.88
AC073115.6	lincRNA	2.37	0.02	4.8E-29	9.8057E-26	98.36
RP6-191P20.4	antisense	0.85	0	2.6E-62	5.342E-59	88.66
LPPR5	protein_coding	1.58	0.01	2.2E-48	4.388E-45	86.87
AC079466.1	lincRNA	6.4	0.07	1.6E-11	3.3055E-08	86.42
AP000439.3	lincRNA	11.38	0.14	3E-50	6.1772E-47	80.21
OR10Q1	protein_coding	0.1	0	1.4E-11	2.8058E-08	79.24
DOC2A	protein_coding	5.09	0.07	3.4E-52	7.0086E-49	72.43
CTC-472C24.1	lincRNA	0.14	0	1E-15	2.0309E-12	71.32
SLC6A3	protein_coding	40.87	0.57	3.8E-63	7.6567E-60	70.91
AC068858.1	lincRNA	0.32	0	2.7E-48	5.4825E-45	67.88
RP5-884M6.1	lincRNA	0.45	0	8.3E-15	1.7022E-11	65.91
OPN4	protein_coding	0.17	0	6.9E-08	0.00014132	64.45
TNFAIP6	protein_coding	34.55	0.55	2.2E-77	4.5309E-74	62.05
LHX8	protein_coding	0.18	0	8.7E-07	0.00176641	61.64
FABP7	protein_coding	83.22	1.37	1.1E-33	2.2383E-30	60.7
GUCA2B	protein_coding	3.3	0.05	1.1E-11	2.3368E-08	60.17
CA9	protein_coding	130.53	2.17	3E-139	5.213E-136	59.94
RP11-14C10.5	lincRNA	7.71	0.12	5.6E-58	1.1364E-54	59.9
C10orf99	protein_coding	19.78	0.33	4.1E-12	8.3026E-09	59.36
AC068492.1	lincRNA	0.16	0	3E-30	6.0925E-27	57.23
TEX15	protein_coding	0.58	0.01	2E-25	4.0815E-22	56.97
HSF4	protein_coding	18.95	0.33	4.2E-56	8.5954E-53	55.92
AC015977.6	antisense	0.83	0.01	2.6E-35	5.3797E-32	55.79
IL20RB-AS1	antisense	0.14	0	3.3E-12	6.6894E-09	54.21
RP11-513G11.2	lincRNA	1.23	0.02	1.6E-65	3.1884E-62	52.82
MCHR1	protein_coding	4.36	0.08	4.1E-24	8.37E-21	52.15
CCL18	protein_coding	11.69	0.23	4.7E-18	9.5982E-15	50.69
AC073115.7	lincRNA	1.9	0.03	1.1E-33	2.1548E-30	49.89
FABP6	protein_coding	19.04	0.39	2.2E-49	4.528E-46	48.61
RP11-414H23.3	lincRNA	0.22	0	1.1E-16	2.2042E-13	47.17
PTHLH	protein_coding	13.54	0.29	1.7E-26	3.3883E-23	45.99
NDUFA4L2	protein_coding	550.59	12.37	4E-119	9.049E-116	44.5
LINC00462	lincRNA	14.9	0.33	2.3E-57	4.7123E-54	44.46
SOX11	protein_coding	0.7	0.01	3.9E-25	7.8829E-22	43.96

RP11-123K3.9	antisense	0.39	0	1.7E-82	3.5418E-79	42.95
CHRNA1	protein_coding	0.41	0	7E-14	1.4187E-10	42.82
SCGB3A2	protein_coding	0.67	0.01	8.7E-30	1.7789E-26	42.36
CTC-327F10.5	antisense	1.83	0.04	7.3E-27	1.4897E-23	42.12
LUCAT1	lincRNA	1.18	0.02	1.5E-24	3.0034E-21	41.49
LINC00887	lincRNA	10.05	0.24	8.4E-98	1.7169E-94	40.87
RP11-115N4.1	lincRNA	4.47	0.11	5.6E-80	1.143E-76	40.42
RTP2	protein_coding	0.23	0	1.8E-27	3.6271E-24	40.1
FAM153C	protein_coding	1.07	0.02	1.5E-44	3.0908E-41	39.92
GACAT2	antisense	2.75	0.06	1.6E-07	0.00032073	39.92
MYH13	protein_coding	0.1	0	6.4E-09	1.308E-05	39.32
IBSP	protein_coding	0.8	0.02	4.6E-15	9.3659E-12	39.32
CTC-327F10.4	antisense	3.59	0.09	6.3E-33	1.2922E-29	38.92
RP11-1259L22.1	antisense	0.15	0	2.2E-07	0.00044421	38.61
RP11-27G22.1	lincRNA	0.1	0	8.7E-25	1.7732E-21	37.58
TMEM155	protein_coding	0.62	0.01	2.1E-52	4.2701E-49	36.97
GABRD	protein_coding	8.34	0.22	2E-89	4.103E-86	36.68
CYP2J2	protein_coding	50.63	1.38	2E-73	4.0141E-70	36.48
KISS1R	protein_coding	5.7	0.15	3.7E-48	7.5725E-45	36.47
RP11-547D24.1	antisense	0.56	0.01	6E-101	1.2563E-97	35.56
PNCK	protein_coding	23.8	0.67	1.8E-46	3.7598E-43	35.27
HTR6	protein_coding	1.02	0.02	5.5E-25	1.1169E-21	35.23
GRIK3	protein_coding	3.05	0.08	2.4E-83	4.8406E-80	35.13
AC114803.3	antisense	1.39	0.03	4.8E-53	9.6942E-50	35.11
RP11-529E15.1	lincRNA	3.48	0.1	1.3E-26	2.7099E-23	34.4
RP11-1151B14.2	lincRNA	0.11	0	9.4E-33	1.9122E-29	34.28
RP11-44K6.4	antisense	0.31	0	8.6E-26	1.7447E-22	34.26
EGFR-AS1	antisense	5.23	0.15	1.1E-25	2.1468E-22	33.9
RP11-19D2.2	lincRNA	0.16	0	1.6E-36	3.2945E-33	33.86
NPTX2	protein_coding	64.85	1.93	8.1E-35	1.6605E-31	33.56
APOC1	protein_coding	82.75	2.49	2.7E-40	5.4444E-37	33.21
RP11-167N4.2	antisense	0.58	0.01	1.3E-29	2.5927E-26	33.01
RP11-212I21.5	lincRNA	0.19	0	1.7E-36	3.5692E-33	32.85
LINC00460	lincRNA	0.95	0.02	3.6E-11	7.2489E-08	32.77
RP5-1120P11.3	lincRNA	0.34	0.01	2.2E-22	4.5141E-19	32.73
ELDR	lincRNA	0.12	0	6.2E-29	1.2745E-25	32.42
LINC01077	lincRNA	6.27	0.19	1.2E-35	2.3914E-32	32.17
RUFY4	protein_coding	0.26	0	2.9E-20	5.9869E-17	32.09
RP11-631F7.1	antisense	0.4	0.01	1.8E-11	3.6341E-08	31.89
CD5L	protein_coding	1.17	0.03	3.3E-16	6.6427E-13	31.71
SFTA1P	lincRNA	1.7	0.05	1.3E-64	2.6882E-61	31.43
CHIT1	protein_coding	2.32	0.07	1.9E-10	3.7879E-07	31.13
ANGPTL4	protein_coding	327.37	10.67	8E-126	1.665E-122	30.67
CDKN2A	protein_coding	1.81	0.05	7.9E-23	1.6084E-19	30.53
AICDA	protein_coding	0.34	0.01	1.4E-06	0.002814	30.3
RP11-1151B14.1	lincRNA	0.1	0	8.9E-09	1.8074E-05	30.23
C5orf46	protein_coding	13.44	0.44	3.5E-26	7.0937E-23	30.07
COL23A1	protein_coding	59.58	1.99	2E-106	3.713E-103	29.92
HTRA4	protein_coding	0.73	0.02	6.9E-44	1.4163E-40	29.32
HS3ST2	protein_coding	2.47	0.08	1.6E-22	3.3519E-19	29.07

RAB42	protein_coding	13.66	0.47	3.4E-51	6.8745E-48	29.05
RP11-212I21.2	lincRNA	0.58	0.02	5.2E-23	1.0524E-19	28.87
RP11-255G12.3	lincRNA	0.24	0	1.8E-58	3.668E-55	28.8
EGLN3-AS1	antisense	0.27	0	6E-30	1.2156E-26	28.59
ITGAD	protein_coding	0.56	0.01	5.4E-23	1.1046E-19	28.28
AP000797.4	lincRNA	0.24	0	2.4E-20	4.9761E-17	28.15
RP11-283G6.5	antisense	1.2	0.04	6.2E-48	1.2658E-44	28.1
RP1-90L14.1	lincRNA	0.11	0	2.5E-15	5.1211E-12	28.08
AC069363.1	antisense	0.24	0	2.4E-47	4.8667E-44	28.07
SCGN	protein_coding	29.77	1.08	3.7E-34	7.5268E-31	27.51
CTB-91J4.1	antisense	0.12	0	1.8E-37	3.7089E-34	26.66
DNAH11	protein_coding	2.69	0.1	2.6E-54	5.2858E-51	25.81
HILPDA	protein_coding	101.42	3.94	6E-110	1.276E-106	25.72
TERT	protein_coding	0.11	0	2.9E-07	0.00059488	25.57
ENPP3	protein_coding	76.58	2.99	3E-111	5.34E-108	25.53
PVT1	lincRNA	2.93	0.11	1E-126	2.358E-123	25.32
HLA-G	protein_coding	20.97	0.84	8.3E-37	1.6932E-33	24.93
RP11-554D15.1	lincRNA	0.22	0	2.9E-07	0.0005865	24.72
CXCL5	protein_coding	5.05	0.2	1.8E-10	3.6816E-07	24.71
RP4-764O22.1	lincRNA	4.59	0.18	2.5E-72	5.0414E-69	24.53
RP11-331K21.1	antisense	0.14	0	1.3E-06	0.00262227	24.51
DGCR5	antisense	9.31	0.38	2E-110	3.693E-107	24.36
RP11-309M7.1	lincRNA	0.54	0.02	1.7E-24	3.5439E-21	24.32
LGI4	protein_coding	20.96	0.87	9.2E-32	1.8777E-28	23.97
KCNK9	protein_coding	1.07	0.04	1.9E-46	3.9123E-43	23.81
C2-AS1	antisense	0.15	0	3.8E-31	7.723E-28	23.55
LYZL1	protein_coding	0.13	0	4.1E-07	0.00084277	23.22
LBP	protein_coding	27.56	1.18	5.2E-07	0.00107005	23.19
GAS6-AS1	antisense	1.88	0.08	5.6E-57	1.1341E-53	23.11
RP13-297E16.4	lincRNA	0.54	0.02	1.5E-46	3.0277E-43	23.1
RP11-15I20.1	antisense	0.15	0	1.3E-45	2.5604E-42	23.05
PMCH	protein_coding	0.21	0	4.9E-27	9.9234E-24	22.88
IFNG	protein_coding	0.74	0.03	3.3E-27	6.7461E-24	22.69
MIAT	lincRNA	0.65	0.02	5.1E-20	1.043E-16	22.65
LINC00158	lincRNA	0.16	0	4.1E-38	8.3132E-35	22.47
RP11-479J7.2	lincRNA	0.16	0	8.9E-24	1.8244E-20	22.38
RP11-184A2.2	antisense	0.17	0	4E-49	8.2048E-46	22.32
PLA2G4D	protein_coding	0.1	0	2.5E-15	5.0068E-12	22.25
RP11-496D24.2	lincRNA	0.16	0	1.3E-26	2.6118E-23	22.22
CTC-340I23.2	antisense	0.11	0	3.2E-21	6.4351E-18	22.01
IGFL2	protein_coding	0.18	0	2.9E-10	5.9288E-07	21.92
RP11-100G15.10	lincRNA	0.28	0.01	1.2E-18	2.5317E-15	21.89
CDKN2B-AS1	antisense	0.15	0	6.4E-60	1.3156E-56	21.86
RP11-395B7.2	antisense	0.1	0	1.8E-19	3.7247E-16	21.6
RP11-142A23.1	lincRNA	0.32	0.01	2.8E-50	5.6924E-47	21.21
RP11-184A2.3	antisense	0.13	0	1.1E-39	2.1579E-36	20.97
SIGLEC8	protein_coding	2.72	0.13	7.2E-59	1.4644E-55	20.88
FIBCD1	protein_coding	0.87	0.04	4.7E-16	9.5111E-13	20.83
NR2E1	protein_coding	0.69	0.03	1.1E-06	0.00231584	20.77
TMEM145	protein_coding	0.83	0.04	3.4E-08	6.8872E-05	20.68

LINC00160	lincRNA	0.22	0.01	3E-22	6.131E-19	20.67
RP11-10J5.1	lincRNA	0.27	0.01	1E-36	2.1201E-33	20.51
AC006262.4	lincRNA	0.18	0	3.4E-07	0.0006951	20.35
AP004372.1	antisense	0.55	0.02	8.5E-16	1.7318E-12	20.33
SDS	protein_coding	5.19	0.25	1.5E-17	2.9819E-14	20.15
RP11-91J3.3	lincRNA	0.16	0	8.2E-23	1.6774E-19	20.02
KCNN1	protein_coding	0.92	0.04	3.6E-36	7.3151E-33	20.02
RP11-264K23.1	lincRNA	0.3	0.01	1.9E-25	3.9716E-22	19.81
RP1-60O19.2	lincRNA	1.02	0.05	1.2E-36	2.5279E-33	19.7
CD70	protein_coding	34.92	1.77	2.9E-36	5.9609E-33	19.68
ALOX15B	protein_coding	1.45	0.07	2.6E-36	5.3398E-33	19.66
ADAMDEC1	protein_coding	2.57	0.13	6.2E-23	1.2564E-19	19.52
CDCA2	protein_coding	5.75	0.29	7.6E-78	1.5506E-74	19.46
KB-1043D8.8	lincRNA	0.1	0	1.3E-45	2.6303E-42	19.42
EGLN3	protein_coding	76.04	3.93	2E-161	3.404E-158	19.31
CTAGE9	protein_coding	0.35	0.01	4.3E-12	8.7949E-09	19.24
IGFBP1	protein_coding	19.74	1.03	5E-08	0.00010136	19.12
RP5-1172A22.1	lincRNA	1.1	0.05	7.9E-27	1.6073E-23	19.03
CXCL13	protein_coding	4.8	0.25	3.3E-21	6.7759E-18	18.99
CTD-2532K18.2	lincRNA	0.43	0.02	2.7E-07	0.00055588	18.94
MUC12	protein_coding	0.14	0	2.5E-27	5.1145E-24	18.86
CDHR1	protein_coding	3.8	0.2	1.9E-22	3.9712E-19	18.81
NXPH4	protein_coding	11.12	0.59	1.5E-49	3.0358E-46	18.69
AC019117.1	lincRNA	22.86	1.22	1.1E-37	2.1952E-34	18.65
IL21-AS1	antisense	0.1	0	2.4E-10	4.9218E-07	18.42
HIF1A-AS2	lincRNA	5.86	0.31	2.1E-64	4.2169E-61	18.36
LINC00299	lincRNA	0.15	0	2.8E-38	5.7105E-35	18.29
CFAP74	protein_coding	0.11	0	2E-65	4.0229E-62	18.13
AC008991.1	lincRNA	0.4	0.02	5.8E-07	0.00119214	18.11
GATM-AS1	antisense	0.67	0.03	7.7E-22	1.566E-18	17.7
AFAP1-AS1	antisense	0.38	0.02	1.3E-06	0.00268725	17.45
RP11-322D14.2	antisense	0.24	0.01	6.5E-19	1.3253E-15	17.31
TNFRSF9	protein_coding	1.47	0.08	6.1E-44	1.2544E-40	17.24
CDH4	protein_coding	4.15	0.24	5.8E-53	1.1872E-49	17.2
CTD-2616J11.3	antisense	0.23	0.01	1E-32	2.0816E-29	17.05
AHNAK2	protein_coding	7.3	0.42	3.7E-55	7.4735E-52	17.02
ADAM18	protein_coding	0.53	0.03	7.5E-15	1.5308E-11	16.76
CTD-2020K17.1	antisense	0.78	0.04	2.4E-40	4.882E-37	16.74
MMP9	protein_coding	12.76	0.76	2.1E-09	4.3209E-06	16.67
DGCR9	lincRNA	3.13	0.18	2E-103	4.694E-100	16.63
TREM2	protein_coding	22.73	1.37	1.4E-91	2.8743E-88	16.53
RP11-389O22.1	lincRNA	0.73	0.04	1.5E-73	3.1464E-70	16.53
AC011524.1	lincRNA	0.52	0.03	8.9E-09	1.8177E-05	16.52
SCG2	protein_coding	3.26	0.19	7.8E-12	1.583E-08	16.51
APOL5	protein_coding	0.16	0.01	2.2E-54	4.3899E-51	16.51
LINC00943	lincRNA	0.13	0	8.3E-43	1.685E-39	16.42
AC005264.2	antisense	0.22	0.01	5.4E-72	1.1078E-68	16.19
RP11-626H12.2	lincRNA	0.41	0.02	7.1E-08	0.00014423	15.99
STC2	protein_coding	22.69	1.42	7.6E-79	1.5515E-75	15.94
SPINK13	protein_coding	5.59	0.35	4.8E-19	9.8815E-16	15.93

RP11-326C3.2	antisense	12.95	0.81	1.2E-28	2.5315E-25	15.92
LINC00487	lincRNA	0.17	0.01	8.5E-73	1.7374E-69	15.9
CTC-806A22.1	lincRNA	0.18	0.01	1.7E-25	3.4034E-22	15.87
RP11-341G23.4	antisense	1.13	0.07	5.1E-24	1.0397E-20	15.82
TFR2	protein_coding	0.72	0.04	2.1E-08	4.247E-05	15.65
PRR33	protein_coding	0.61	0.03	1.4E-16	2.8756E-13	15.63
IFITM5	protein_coding	0.12	0	6.4E-13	1.296E-09	15.48
TTC24	protein_coding	0.16	0.01	8.2E-24	1.6797E-20	15.48
RP11-19E11.1	lincRNA	0.14	0	7.4E-13	1.5023E-09	15.42
RP4-564F22.6	lincRNA	0.53	0.03	3.4E-07	0.00068929	15.41
PGF	protein_coding	27.78	1.8	2.9E-33	5.8673E-30	15.38
ARX	protein_coding	0.39	0.02	4E-08	8.1603E-05	15.3
RP11-543D5.1	lincRNA	1.45	0.09	5.2E-75	1.0574E-71	15.21
AMZ1	protein_coding	0.35	0.02	3E-14	6.0305E-11	15.16
RP11-659P15.1	lincRNA	0.2	0.01	3.4E-65	6.8889E-62	15.05
RP11-674P19.2	lincRNA	0.12	0	1.5E-09	3.0011E-06	14.97
SPIC	protein_coding	0.16	0.01	2E-27	4.1428E-24	14.97
LINC00944	lincRNA	1.11	0.07	8.2E-73	1.681E-69	14.93
DLEU7-AS1	antisense	0.18	0.01	4.5E-20	9.1571E-17	14.92
GTSF1L	protein_coding	0.12	0	1.8E-19	3.6051E-16	14.91
IL20RB	protein_coding	9.92	0.66	2.3E-15	4.7562E-12	14.85
HES5	protein_coding	0.29	0.02	2.3E-39	4.7194E-36	14.78
LINC00881	lincRNA	0.19	0.01	3.2E-08	6.6268E-05	14.74
C19orf67	protein_coding	0.66	0.04	3.4E-26	6.9329E-23	14.7
VSIG1	protein_coding	0.99	0.06	1.9E-70	3.9642E-67	14.64
ARRDC5	protein_coding	0.34	0.02	5.7E-23	1.1651E-19	14.63
RP11-302F12.10	antisense	0.13	0	4.7E-10	9.5717E-07	14.62
SPAG4	protein_coding	20.96	1.43	7.3E-98	1.4867E-94	14.62
NNMT	protein_coding	242.29	16.68	9.4E-98	1.9079E-94	14.51
LINC01428	lincRNA	2.64	0.18	4.4E-73	8.8796E-70	14.49
RP11-661C8.2	lincRNA	0.31	0.02	3E-24	6.1901E-21	14.33
ITPKA	protein_coding	1.35	0.09	3.4E-10	6.9933E-07	14.3
CTD-2015G9.2	lincRNA	3.91	0.27	7E-105	1.41E-101	14.26
SCARB1	protein_coding	33.33	2.35	4.3E-79	8.746E-76	14.16
RP11-598F7.3	antisense	0.39	0.02	2.1E-47	4.3296E-44	14.14
INHBB	protein_coding	24.13	1.7	4.4E-83	8.9803E-80	14.14
RP11-496I9.1	antisense	2.87	0.2	2E-46	4.0277E-43	14.05
LINC00475	lincRNA	0.79	0.05	1.9E-26	3.9401E-23	14.03
RP11-557C18.4	lincRNA	0.49	0.03	3E-24	6.1015E-21	14.01
PSORS1C2	protein_coding	0.36	0.02	2.6E-54	5.2666E-51	14
GOLGA7B	protein_coding	0.76	0.05	6.8E-31	1.3952E-27	13.99
B4GALNT1	protein_coding	2.32	0.16	4.9E-08	9.9646E-05	13.92
AVPR1B	protein_coding	1.75	0.12	6.3E-59	1.295E-55	13.86
RP1-232P20.1	antisense	2.27	0.16	1E-105	2.27E-102	13.73
RP11-218E20.5	antisense	0.13	0.01	2.2E-46	4.3957E-43	13.68
OLIG2	protein_coding	0.33	0.02	1.4E-06	0.0027709	13.62
CTD-2023M8.1	lincRNA	0.82	0.06	1.2E-37	2.4017E-34	13.62
RP11-138I17.1	lincRNA	0.57	0.04	1.1E-07	0.0002201	13.58
DNAJB13	protein_coding	0.88	0.06	4.9E-44	9.9147E-41	13.56
WFDC10B	protein_coding	0.22	0.01	5.3E-12	1.0871E-08	13.53

TNFSF14	protein_coding	1.47	0.1	2.6E-30	5.3105E-27	13.52
RP11-417E7.1	lincRNA	0.8	0.05	8.7E-12	1.7751E-08	13.52
HAMP	protein_coding	0.53	0.03	3.3E-26	6.7844E-23	13.5
RP11-84D1.1	antisense	0.13	0	3.5E-45	7.0939E-42	13.49
SLC17A4	protein_coding	12.08	0.89	7.6E-61	1.5427E-57	13.46
TMEM74B	protein_coding	2.81	0.2	2.3E-76	4.7036E-73	13.42
DNAJC5B	protein_coding	0.5	0.03	2.6E-59	5.221E-56	13.39
RP11-181E10.3	lincRNA	0.43	0.03	3.8E-29	7.7759E-26	13.32
SEMA5B	protein_coding	26.61	1.99	9.7E-95	1.9742E-91	13.32
GRIA4	protein_coding	1.71	0.12	2.1E-36	4.3583E-33	13.3
TMEM91	protein_coding	14.81	1.11	5.8E-74	1.1742E-70	13.25
RP11-598F7.5	antisense	4.91	0.37	1E-102	2.728E-99	13.22
RP11-909N17.2	antisense	0.27	0.02	6.4E-10	1.2957E-06	13.12
CES4A	protein_coding	7.19	0.54	9.1E-41	1.8638E-37	13.12
RBM46	protein_coding	0.11	0	1.1E-32	2.2459E-29	13.1
RP11-70D24.4	lincRNA	0.26	0.02	5E-20	1.0113E-16	13.09
CTD-2252P21.1	antisense	0.11	0	1.7E-47	3.5139E-44	13.08
ANO4	protein_coding	1.95	0.14	8.5E-36	1.7359E-32	13.05
RP11-167B3.2	lincRNA	5.64	0.43	1.3E-22	2.641E-19	12.91
LINC01234	lincRNA	0.48	0.03	1.7E-11	3.3785E-08	12.88
RP11-145M4.2	lincRNA	0.36	0.02	5.9E-19	1.197E-15	12.85
AC004988.1	antisense	0.17	0.01	1.7E-17	3.4643E-14	12.82
TNIP3	protein_coding	0.41	0.03	1.3E-22	2.6729E-19	12.79
C1QL1	protein_coding	25.21	1.99	2.3E-24	4.7143E-21	12.66
CXCL9	protein_coding	31.53	2.5	1.2E-35	2.4462E-32	12.6
ESM1	protein_coding	99.38	7.88	3.9E-96	7.9643E-93	12.6
CD8A	protein_coding	10.81	0.85	6.4E-48	1.3117E-44	12.59
RP11-145M4.3	lincRNA	3.06	0.24	4.7E-20	9.6556E-17	12.54
RP11-343J3.2	antisense	0.47	0.03	5.6E-41	1.1407E-37	12.52
CP	protein_coding	64.12	5.12	1.5E-28	2.9971E-25	12.5
RP11-785G17.1	antisense	0.47	0.03	2.4E-36	4.9045E-33	12.41
RP5-921G16.2	lincRNA	0.3	0.02	8.4E-19	1.7132E-15	12.41
PLA2G7	protein_coding	4.56	0.36	4.8E-57	9.8377E-54	12.38
LGALS4	protein_coding	15.93	1.28	1.3E-11	2.5649E-08	12.37
RP11-554I8.2	lincRNA	1.94	0.15	2.1E-82	4.2399E-79	12.36
JAKMIP1	protein_coding	0.55	0.04	9.2E-56	1.8825E-52	12.35
CTD-2026K11.6	antisense	1.19	0.09	2E-60	4.1741E-57	12.27
ST8SIA4	protein_coding	8.04	0.66	3E-105	5.677E-102	12.17
RP11-64B16.4	antisense	1.55	0.12	6E-56	1.2331E-52	12.15
PRSS53	protein_coding	0.48	0.03	4.4E-54	8.8972E-51	12.09
GDF6	protein_coding	4.34	0.36	1.1E-59	2.2862E-56	12.07
RP11-50B3.2	lincRNA	0.12	0.01	2.1E-55	4.2571E-52	12.06
ATHL1	protein_coding	23.19	1.92	5E-37	1.0213E-33	12.02
CTC-241F20.4	lincRNA	0.11	0	3.1E-10	6.396E-07	11.98
IFI30	protein_coding	0.66	0.05	3.2E-47	6.4946E-44	11.98
SLC30A10	protein_coding	0.1	0	9.1E-08	0.00018586	11.93
COL5A3	protein_coding	6.08	0.51	1.4E-93	2.7654E-90	11.91
RP11-567G11.1	lincRNA	3.93	0.33	8.9E-50	1.8181E-46	11.89
LAG3	protein_coding	3.61	0.3	1.7E-33	3.4834E-30	11.87
LINC00906	lincRNA	0.11	0	1.4E-12	2.8643E-09	11.84

GBP5	protein_coding	4.55	0.38	2.9E-42	5.8637E-39	11.83
CTD-2171N6.1	lincRNA	0.46	0.03	2E-11	4.1422E-08	11.83
FATE1	protein_coding	1.84	0.15	1.3E-94	2.7335E-91	11.82
RP11-126O1.2	antisense	0.14	0.01	1.7E-07	0.00034319	11.82
VEGFA	protein_coding	118.93	10.07	1E-131	2.66E-128	11.8
EOMES	protein_coding	2.02	0.17	1.6E-48	3.3074E-45	11.77
KRT81	protein_coding	0.33	0.02	1.6E-07	0.00032418	11.76
CXCL11	protein_coding	4.88	0.41	1.5E-37	3.1206E-34	11.72
RP11-643C9.2	lincRNA	0.41	0.03	1.5E-44	3.0655E-41	11.72
STH	protein_coding	0.1	0	1.9E-15	3.8718E-12	11.71
ODF3B	protein_coding	11.26	0.96	4.1E-93	8.3721E-90	11.65
FASLG	protein_coding	1.55	0.13	6.2E-55	1.2665E-51	11.64
C6orf223	protein_coding	13.97	1.2	6.1E-63	1.2519E-59	11.63
BTBD16	protein_coding	1.48	0.12	2.6E-52	5.264E-49	11.59
RP11-551L14.4	antisense	0.25	0.02	4.2E-12	8.5693E-09	11.58
NGK7	protein_coding	32.73	2.83	2E-57	3.9915E-54	11.56
KLRK1	protein_coding	0.26	0.02	9E-41	1.8339E-37	11.56
RP11-1151B14.4	antisense	0.34	0.02	1.2E-51	2.5212E-48	11.52
CDH8	protein_coding	0.17	0.01	8.5E-57	1.7292E-53	11.51
ZP1	protein_coding	0.31	0.02	1.5E-11	3.1356E-08	11.5
KPNA7	protein_coding	0.1	0	1.4E-06	0.00284663	11.48
RP11-804N13.1	antisense	0.14	0.01	5.6E-17	1.1355E-13	11.45
AC067959.1	lincRNA	1.77	0.15	2.7E-33	5.4755E-30	11.44
LGALS12	protein_coding	2.28	0.19	1.1E-25	2.1587E-22	11.44
RP11-493L12.5	lincRNA	0.19	0.01	1.1E-15	2.3034E-12	11.36
TEX11	protein_coding	1.85	0.16	1.6E-33	3.2979E-30	11.34
RP11-348J24.2	lincRNA	0.31	0.02	1.6E-06	0.00331343	11.29
RFX8	protein_coding	0.63	0.05	2.4E-45	4.848E-42	11.28
RP11-291B21.2	lincRNA	0.63	0.05	1.3E-15	2.6584E-12	11.26
HAPLN1	protein_coding	2.67	0.23	4.3E-57	8.7377E-54	11.24
CXCL10	protein_coding	34.24	3.09	1.5E-44	3.0232E-41	11.06
CD8B	protein_coding	4.07	0.36	7.6E-46	1.5541E-42	11.01
RP3-522D1.1	lincRNA	0.25	0.02	6.1E-46	1.2427E-42	11.01
AC002331.1	lincRNA	0.28	0.02	8E-25	1.6301E-21	10.98
RP11-598F7.6	lincRNA	3.37	0.3	4E-92	8.112E-89	10.98
PLA2G2D	protein_coding	1.1	0.1	3.8E-11	7.7363E-08	10.97
SLITRK5	protein_coding	0.35	0.03	1.1E-29	2.2698E-26	10.96
POU5F1	protein_coding	11.53	1.05	4.9E-73	9.9643E-70	10.95
CXorf65	protein_coding	0.36	0.03	2E-34	4.1364E-31	10.94
MIR155HG	lincRNA	2.61	0.23	4.7E-46	9.6305E-43	10.94
NOL3	protein_coding	36.52	3.33	3E-150	7.067E-147	10.94
RP5-1171I10.5	antisense	0.92	0.08	2.4E-48	4.8573E-45	10.93
IGFBP3	protein_coding	534.15	48.9	1.7E-93	3.3664E-90	10.92
RP1-142L7.5	antisense	0.29	0.02	4.1E-13	8.3798E-10	10.92
RP11-344P13.4	lincRNA	0.1	0	4.4E-17	9.0699E-14	10.89
EPS8L3	protein_coding	1.41	0.13	9.4E-18	1.9271E-14	10.87
TNFSF9	protein_coding	5.74	0.52	4.9E-82	9.9598E-79	10.83
TMEM179	protein_coding	0.82	0.07	3E-17	6.2207E-14	10.82
RP11-489O18.1	lincRNA	0.68	0.06	5.3E-68	1.0726E-64	10.77
LOX	protein_coding	60.06	5.57	5.7E-26	1.1559E-22	10.76

AC068196.1	lincRNA	0.14	0.01	4.3E-33	8.7419E-30	10.72
HK2	protein_coding	16.37	1.52	1.1E-90	2.2527E-87	10.71
AC130469.2	antisense	0.52	0.04	3E-08	6.0425E-05	10.67
SIRPG	protein_coding	2.06	0.19	6.7E-52	1.3705E-48	10.65
GZMK	protein_coding	8.77	0.82	7.6E-44	1.5476E-40	10.64
KB-1460A1.1	lincRNA	0.7	0.06	3.7E-76	7.5997E-73	10.64
LRRC14B	protein_coding	0.76	0.07	8E-09	1.6361E-05	10.63
ATP8B3	protein_coding	1.64	0.15	2.3E-21	4.692E-18	10.62
PIK3R6	protein_coding	1.39	0.13	5.6E-28	1.1325E-24	10.61
LY6H	protein_coding	1.18	0.11	1.5E-19	2.9584E-16	10.61
ICOS	protein_coding	0.69	0.06	6E-57	1.2278E-53	10.6
STRA8	protein_coding	2.8	0.26	2.3E-59	4.7875E-56	10.6
LAT	protein_coding	0.2	0.01	2E-56	4.1602E-53	10.55
UNC5A	protein_coding	0.55	0.05	7.2E-23	1.4757E-19	10.55
RP5-1028K7.2	lincRNA	0.75	0.07	3E-50	6.1877E-47	10.54
DLX5	protein_coding	1.39	0.13	2.6E-78	5.2884E-75	10.54
INHBE	protein_coding	1.13	0.1	1.3E-12	2.5947E-09	10.53
RP11-314N14.1	lincRNA	0.2	0.01	1.4E-18	2.8215E-15	10.53
CTB-140J7.2	antisense	0.38	0.03	6.2E-30	1.2727E-26	10.51
RP4-539M6.22	lincRNA	0.2	0.01	1.2E-61	2.541E-58	10.5
PDCD1	protein_coding	2.51	0.23	6.4E-30	1.3005E-26	10.5
RP11-663P9.1	lincRNA	0.28	0.02	1E-48	2.0763E-45	10.46
CD27	protein_coding	5.93	0.56	5.6E-47	1.1514E-43	10.46
RP1-142L7.9	lincRNA	0.11	0.01	1.1E-21	2.1458E-18	10.46
ZNF683	protein_coding	1.14	0.11	2.9E-50	5.9878E-47	10.45
MTCP1	protein_coding	2.63	0.25	9E-84	1.8374E-80	10.44
WISP2	protein_coding	1.35	0.13	8.2E-10	1.6696E-06	10.41
ATP2B2	protein_coding	1.6	0.15	8.1E-53	1.6553E-49	10.4
NKAIN1	protein_coding	0.85	0.08	2.9E-20	5.8789E-17	10.38
KLRF2	protein_coding	0.1	0.01	6.1E-19	1.2409E-15	10.37
SLC17A2	protein_coding	1.77	0.17	1.4E-43	2.8137E-40	10.37
MYO3A	protein_coding	1.44	0.13	8E-114	1.591E-110	10.36
RP11-807H17.1	lincRNA	52.73	5.08	5.4E-91	1.1076E-87	10.36
RP5-916L7.2	lincRNA	0.1	0	6.5E-17	1.3268E-13	10.35
RP11-259N19.1	lincRNA	2.04	0.19	2E-110	3.816E-107	10.34
RP11-12M5.3	antisense	0.36	0.03	1.8E-64	3.6514E-61	10.34
ADAMTS14	protein_coding	0.64	0.06	2.2E-30	4.3942E-27	10.32
FCGR3A	protein_coding	42.11	4.08	2.2E-74	4.4329E-71	10.31
XXbac-BPG170G13.3	lincRNA	0.36	0.03	4.6E-27	9.4401E-24	10.27
RNASET2	protein_coding	29.19	2.84	2.3E-85	4.7003E-82	10.27
AC131056.3	antisense	0.23	0.02	1.5E-23	2.9916E-20	10.25
C3	protein_coding	228.81	22.36	2.8E-48	5.6264E-45	10.23
RP11-167B3.3	lincRNA	5.63	0.55	6.4E-31	1.3114E-27	10.22
RP3-393E18.2	lincRNA	0.34	0.03	5.1E-34	1.0342E-30	10.2
MUC3A	protein_coding	2.71	0.26	6.9E-42	1.4079E-38	10.2
CTD-2223O18.1	antisense	0.37	0.03	3.8E-41	7.8246E-38	10.11
FAM153A	protein_coding	0.56	0.05	1.3E-37	2.633E-34	10.1
SLC17A9	protein_coding	1.94	0.19	1.1E-28	2.2284E-25	10.1
HOXD13	protein_coding	0.24	0.02	1.7E-10	3.3988E-07	10.07
RP11-421P23.2	lincRNA	0.11	0.01	7.2E-14	1.476E-10	10.05

PRR7-AS1	antisense	0.35	0.03	2.1E-31	4.3024E-28	10.04
DTHD1	protein_coding	0.24	0.02	4.2E-43	8.5536E-40	10.03
DCLK3	protein_coding	0.19	0.01	3.5E-60	7.2133E-57	10.03
NKX2-3	protein_coding	0.12	0.01	3.5E-09	7.1393E-06	10.02
IDO1	protein_coding	11.76	1.17	1.3E-34	2.6949E-31	10.01
CGREF1	protein_coding	7.12	0.71	4.6E-89	9.3679E-86	10
AC073218.3	lincRNA	16.5	1.65	8.3E-31	1.6898E-27	9.97
CTD-2521M24.5	lincRNA	0.15	0.01	1.1E-35	2.3141E-32	9.97
RP11-344N10.2	antisense	0.15	0.01	4.8E-08	9.8422E-05	9.96
NETO2	protein_coding	9.77	0.98	3E-109	6.723E-106	9.94
TNFRSF4	protein_coding	5.23	0.52	4.1E-88	8.3383E-85	9.88
RP11-1018N14.5	lincRNA	0.16	0.01	3.8E-45	7.8171E-42	9.88
PKD2L1	protein_coding	0.33	0.03	4.3E-23	8.8262E-20	9.82
MT3	protein_coding	8.5	0.86	1.9E-20	3.9392E-17	9.82
DPP9-AS1	antisense	0.21	0.02	9.2E-57	1.879E-53	9.77
RP11-352G9.1	lincRNA	0.38	0.03	2E-41	4.1349E-38	9.77
RP11-861E21.1	lincRNA	0.51	0.05	8.5E-35	1.7349E-31	9.76
HIST1H2AI	protein_coding	1.03	0.1	3.1E-20	6.3847E-17	9.74
LINC01033	lincRNA	0.16	0.01	1.1E-29	2.2886E-26	9.73
ITGAX	protein_coding	4.9	0.5	2.2E-84	4.5035E-81	9.7
PPFIA4	protein_coding	3.37	0.34	1.5E-69	3.1016E-66	9.67
MS4A4E	protein_coding	0.73	0.07	1E-42	2.1281E-39	9.65
AC006227.1	lincRNA	2.18	0.22	8.2E-40	1.6756E-36	9.63
RP11-145A3.1	antisense	0.11	0.01	5.6E-21	1.1446E-17	9.61
MIR210HG	lincRNA	10.98	1.14	3E-116	5.556E-113	9.59
AP001257.1	lincRNA	0.16	0.01	2.7E-49	5.5071E-46	9.58
RP3-434P1.6	antisense	0.65	0.06	1.5E-41	3.0589E-38	9.57
UBD	protein_coding	5.12	0.53	1.5E-35	3.0972E-32	9.57
PRND	protein_coding	1.57	0.16	8.4E-16	1.7097E-12	9.55
RP11-556E13.1	antisense	0.27	0.02	6.4E-55	1.3124E-51	9.52
CCL5	protein_coding	45.59	4.79	7E-58	1.4179E-54	9.51
AC073257.2	lincRNA	1.14	0.12	1.6E-44	3.1779E-41	9.51
SORCS3	protein_coding	3.25	0.34	1.2E-28	2.5144E-25	9.48
SLC16A1-AS1	antisense	0.55	0.05	2.2E-79	4.4569E-76	9.46
AC000067.1	lincRNA	0.47	0.05	2.9E-68	5.8623E-65	9.46
RP11-474B16.1	antisense	2.49	0.26	9.3E-71	1.8932E-67	9.45
FAM163A	protein_coding	0.55	0.05	3.7E-73	7.5048E-70	9.45
AF064858.11	lincRNA	3.58	0.37	7.9E-11	1.6085E-07	9.45
TM4SF19	protein_coding	0.15	0.01	3.4E-08	7.0348E-05	9.45
CAPN12	protein_coding	4.55	0.48	7.5E-71	1.5335E-67	9.44
RP11-455F5.5	antisense	0.31	0.03	5.7E-44	1.1667E-40	9.43
RP11-404O13.1	lincRNA	0.29	0.03	7E-79	1.4361E-75	9.41
ELOVL2	protein_coding	1.33	0.14	9.1E-20	1.8548E-16	9.41
AC064834.3	lincRNA	0.14	0.01	2.1E-17	4.3421E-14	9.38
RP11-1399P15.1	antisense	1.52	0.16	7.2E-11	1.4778E-07	9.37
MS4A14	protein_coding	1.06	0.11	1.6E-68	3.1873E-65	9.36
ADCY8	protein_coding	0.96	0.1	7E-19	1.432E-15	9.35
RP11-336A10.5	lincRNA	0.73	0.07	7.2E-92	1.4775E-88	9.31
TRPA1	protein_coding	1.11	0.12	4.4E-33	9.0535E-30	9.28
DLX1	protein_coding	0.25	0.02	1.2E-43	2.4836E-40	9.23

DARS-AS1	antisense	0.96	0.1	7.3E-77	1.487E-73	9.23
RP11-121A14.2	antisense	1.82	0.19	4.1E-64	8.3941E-61	9.22
VSX1	protein_coding	0.13	0.01	7.8E-14	1.5969E-10	9.21
B4GALNT4	protein_coding	0.83	0.09	3.6E-16	7.2788E-13	9.17
RP11-196G11.2	lincRNA	1.39	0.15	4.6E-58	9.4261E-55	9.14
C1orf127	protein_coding	0.15	0.01	4.9E-62	9.9909E-59	9.13
CXCR3	protein_coding	3.21	0.35	1.3E-54	2.6355E-51	9.11
CTD-2571L23.8	lincRNA	0.35	0.03	7E-17	1.423E-13	9.11
AC133644.2	lincRNA	0.73	0.08	2.7E-80	5.4195E-77	9.1
RP11-284H18.1	antisense	14.81	1.62	5.3E-26	1.0742E-22	9.09
LINC01529	lincRNA	0.1	0.01	1.3E-17	2.5523E-14	9.08
EPO	protein_coding	8.44	0.92	1.8E-06	0.00367764	9.08
RP11-332J15.3	lincRNA	0.21	0.02	1.6E-54	3.2304E-51	9.06
RP11-38J22.3	antisense	0.62	0.06	1.1E-58	2.2625E-55	9.05
ENO2	protein_coding	45.94	5.08	9E-109	1.882E-105	9.04
RP11-332J15.4	lincRNA	0.1	0.01	7.7E-28	1.5766E-24	8.98
GAS2L3	protein_coding	6.25	0.69	3.5E-92	7.1621E-89	8.96
CTD-2287O16.4	lincRNA	0.11	0.01	2.8E-34	5.7338E-31	8.95
CST7	protein_coding	18.09	2.02	2E-55	4.1689E-52	8.93
GNLY	protein_coding	4.19	0.46	1.1E-64	2.2602E-61	8.93
HHLA2	protein_coding	19.06	2.13	5.9E-71	1.2009E-67	8.91
LILRB4	protein_coding	3.66	0.41	3.6E-73	7.3992E-70	8.89
GZMA	protein_coding	20.96	2.35	2.9E-65	5.9188E-62	8.89
PITX1	protein_coding	0.44	0.05	2.7E-09	5.432E-06	8.85
RP11-115D19.1	antisense	0.13	0.01	3.7E-07	0.00075032	8.85
RGS1	protein_coding	31.36	3.54	1.7E-76	3.4187E-73	8.84
LRRC71	protein_coding	0.18	0.02	2.7E-26	5.5355E-23	8.84
DCSTAMP	protein_coding	0.25	0.02	2.8E-16	5.8086E-13	8.8
RP11-181G12.4	lincRNA	0.66	0.07	2.1E-22	4.2108E-19	8.78
SAPCD1	protein_coding	0.54	0.06	1.4E-47	2.7756E-44	8.76
HSD17B3	protein_coding	0.71	0.08	3.5E-34	7.2227E-31	8.76
RP11-552M14.1	lincRNA	0.11	0.01	6.8E-08	0.00013954	8.75
AC007326.1	protein_coding	0.25	0.02	5.1E-16	1.0397E-12	8.75
RP11-340F14.6	lincRNA	0.46	0.05	4E-114	9.002E-111	8.69
RP11-247A12.7	lincRNA	0.29	0.03	1.4E-36	2.8396E-33	8.68
LINC01546	lincRNA	0.22	0.02	1.7E-25	3.5326E-22	8.66
PERM1	protein_coding	2.04	0.23	4.9E-29	9.9349E-26	8.63
XXbac-BPG299F13.1	lincRNA	0.8	0.09	1.4E-40	2.9561E-37	8.6
RP11-701H16.4	antisense	0.32	0.03	1.8E-53	3.6479E-50	8.58
RP11-264E20.2	lincRNA	0.12	0.01	4.6E-53	9.3939E-50	8.57
AC093642.6	lincRNA	0.1	0.01	8E-12	1.6265E-08	8.56
LINC00524	lincRNA	0.18	0.02	2.6E-08	5.3685E-05	8.56
EN1	protein_coding	0.17	0.01	2.7E-10	5.5963E-07	8.56
RP11-429J17.5	antisense	0.13	0.01	3.2E-32	6.566E-29	8.55
CRTAM	protein_coding	1.14	0.13	7.4E-56	1.5025E-52	8.54
CTD-3064M3.7	antisense	0.44	0.05	9.2E-39	1.8796E-35	8.54
FCGR1A	protein_coding	2.92	0.34	7.2E-72	1.4643E-68	8.49
RP11-145M4.1	lincRNA	0.17	0.02	1.3E-24	2.6514E-21	8.49
RP11-166B2.7	antisense	0.4	0.04	1E-16	2.1364E-13	8.48
ANGPT2	protein_coding	18.46	2.17	1.1E-89	2.3114E-86	8.48

TBX15	protein_coding	1.69	0.2	1.2E-23	2.5262E-20	8.47
TP73	protein_coding	0.22	0.02	3.6E-16	7.2614E-13	8.43
C1QL4	protein_coding	3.97	0.47	6.9E-21	1.4018E-17	8.42
RP13-714J12.1	lincRNA	1.68	0.2	8.3E-14	1.684E-10	8.42
RP11-75L1.1	lincRNA	0.1	0.01	1.8E-17	3.7373E-14	8.4
RP11-327F22.1	antisense	0.12	0.01	1.7E-39	3.5632E-36	8.4
TRIB3	protein_coding	17.26	2.05	1.4E-55	2.9316E-52	8.39
RP11-67C2.2	antisense	0.83	0.09	3.4E-39	6.8885E-36	8.39
CTD-2195B23.3	antisense	0.39	0.04	9.2E-34	1.8869E-30	8.38
MGARP	protein_coding	5.35	0.63	1.1E-19	2.3397E-16	8.38
AIM2	protein_coding	1.28	0.15	1.5E-28	3.0618E-25	8.37
CTSW	protein_coding	8.72	1.04	1.2E-63	2.3642E-60	8.37
AC124944.3	antisense	0.22	0.02	2.8E-45	5.6277E-42	8.35
VCAN-AS1	antisense	0.17	0.02	3.2E-10	6.512E-07	8.35
RP11-20J15.3	lincRNA	0.34	0.04	7.8E-29	1.5973E-25	8.31
RP11-42O4.2	antisense	0.18	0.02	6.9E-37	1.4066E-33	8.31
SIGLEC10	protein_coding	4.16	0.5	1.4E-50	2.9147E-47	8.31
CHRNA6	protein_coding	0.24	0.02	2.7E-21	5.5953E-18	8.29
MSC	protein_coding	18.38	2.22	5.2E-30	1.0698E-26	8.27
ARAP1-AS2	antisense	0.23	0.02	3.4E-11	6.9941E-08	8.26
MROH2A	protein_coding	0.43	0.05	1.2E-06	0.00244975	8.26
CD2	protein_coding	14.47	1.75	1.3E-66	2.7119E-63	8.26
CTHRC1	protein_coding	15.72	1.9	1.7E-18	3.3783E-15	8.24
DAND5	protein_coding	0.17	0.02	6.6E-07	0.0013374	8.24
RP11-881L2.1	antisense	0.2	0.02	2.4E-06	0.0048097	8.24
RP11-70D24.3	lincRNA	0.69	0.08	9.6E-50	1.9647E-46	8.22
IL2RB	protein_coding	6.02	0.73	8.8E-78	1.7966E-74	8.21
AC112715.2	lincRNA	0.13	0.01	8E-08	0.00016265	8.2
LINC01235	lincRNA	4.03	0.49	1.6E-26	3.1971E-23	8.2
AC079767.4	lincRNA	1.17	0.14	9.7E-29	1.9801E-25	8.19
TMEM45A	protein_coding	7.77	0.94	1.4E-30	2.9001E-27	8.18
PYHIN1	protein_coding	1.35	0.16	8.4E-65	1.7206E-61	8.18
CTD-2527I21.14	antisense	1	0.12	3E-63	6.0421E-60	8.17
SLC16A3	protein_coding	29.11	3.56	2E-108	4.814E-105	8.16
ATG9B	protein_coding	0.78	0.09	5.2E-18	1.053E-14	8.14
GZMH	protein_coding	7.1	0.87	2.4E-73	4.8164E-70	8.14
LAMA5-AS1	antisense	0.74	0.09	8.6E-42	1.7612E-38	8.14
DIRAS2	protein_coding	7.08	0.86	2E-87	4.1045E-84	8.14
IGF2BP3	protein_coding	0.31	0.03	1E-12	2.0482E-09	8.13
RP11-1151B14.3	lincRNA	0.12	0.01	2E-72	4.0684E-69	8.13
LINC00861	lincRNA	0.69	0.08	1.2E-58	2.5192E-55	8.12
BATF	protein_coding	3.71	0.45	1.8E-61	3.5993E-58	8.12
AL589743.1	protein_coding	0.12	0.01	6E-25	1.2312E-21	8.11
CD300LF	protein_coding	2.53	0.31	8.3E-93	1.702E-89	8.11
TUBA3D	protein_coding	8.09	0.99	1.9E-06	0.00389074	8.1
SCD	protein_coding	86.65	10.7	1E-73	2.0404E-70	8.09
TREML1	protein_coding	0.45	0.05	5.8E-75	1.1753E-71	8.06
LA16c-390H2.4	antisense	0.15	0.01	4.5E-45	9.2155E-42	8.06
SNHG12	antisense	4.44	0.55	2.7E-67	5.417E-64	8.06
PRIMA1	protein_coding	10.12	1.25	1.6E-30	3.2438E-27	8.06

RP11-108P20.2	lincRNA	0.11	0.01	1.5E-27	3.097E-24	8.06
FLJ35934	lincRNA	0.19	0.02	3.2E-44	6.5969E-41	8.04
PCSK6	protein_coding	7.47	0.92	9E-50	1.8341E-46	8.04
CTLA4	protein_coding	0.87	0.1	1.9E-45	3.9472E-42	8.02
PLIN2	protein_coding	203.76	25.38	3.2E-82	6.6148E-79	8.02
C16orf74	protein_coding	3.81	0.47	4.9E-31	1.0073E-27	8.01
CD300A	protein_coding	8.61	1.07	5E-87	1.0202E-83	8.01
CTC-459M5.1	antisense	0.31	0.03	1E-07	0.0002088	8
RP11-753H16.5	antisense	0.39	0.04	7.1E-18	1.4505E-14	8
C5orf58	protein_coding	0.18	0.02	4.7E-44	9.5105E-41	7.98
SMTNL1	protein_coding	0.39	0.04	1.8E-24	3.7671E-21	7.98
RP1-144F13.3	antisense	0.26	0.03	3.4E-17	6.9804E-14	7.94
ZAP70	protein_coding	1.81	0.22	1.1E-59	2.2874E-56	7.9
FAM26F	protein_coding	11.03	1.39	7.6E-62	1.56E-58	7.9
AC078883.3	antisense	1.22	0.15	5.2E-53	1.0573E-49	7.88
RP4-644L1.2	lincRNA	0.1	0.01	9E-30	1.8418E-26	7.87
FCRL3	protein_coding	0.55	0.07	2.1E-23	4.2922E-20	7.87
CARD17	protein_coding	0.17	0.02	2.5E-43	5.0617E-40	7.86
INHBA-AS1	antisense	0.23	0.02	1.2E-28	2.4873E-25	7.86
HIST1H2BL	protein_coding	0.32	0.04	4.9E-08	9.9801E-05	7.86
PTCRA	protein_coding	0.22	0.02	8.6E-60	1.7483E-56	7.85
HCG27	protein_coding	1.48	0.18	4.4E-66	9.0359E-63	7.83
PSORS1C1	protein_coding	1.09	0.14	5E-78	1.0151E-74	7.82
RP11-284F21.9	lincRNA	0.97	0.12	2.2E-56	4.5583E-53	7.81
ADORA3	protein_coding	3.72	0.47	2.6E-90	5.2545E-87	7.81
MSH4	protein_coding	0.15	0.02	1.7E-23	3.5068E-20	7.8
RP11-360I2.1	lincRNA	0.15	0.01	1.9E-11	3.8284E-08	7.8
GABRE	protein_coding	2.9	0.37	1.9E-49	3.8054E-46	7.79
CTD-2587H19.3	lincRNA	0.21	0.02	8.5E-19	1.7316E-15	7.78
RP11-45A17.4	antisense	0.42	0.05	5.9E-39	1.1996E-35	7.78
LILRB1	protein_coding	2.69	0.34	2E-108	4.935E-105	7.78
C1QB	protein_coding	171.31	22.03	5.6E-76	1.1349E-72	7.77
CASP5	protein_coding	0.28	0.03	9.9E-47	2.0122E-43	7.77
GRPEL2-AS1	antisense	0.44	0.05	2.1E-51	4.215E-48	7.76
QRFPR	protein_coding	6.59	0.84	1.1E-96	2.2432E-93	7.76
RP11-65J3.2	lincRNA	1.5	0.19	1.7E-23	3.4484E-20	7.76
TYMP	protein_coding	30.99	3.99	5E-100	9.7846E-97	7.76
RP11-452C13.1	antisense	0.3	0.03	2E-65	4.1332E-62	7.75
RP11-554D20.1	antisense	0.16	0.02	3.3E-08	6.7066E-05	7.75
HRH2	protein_coding	6.74	0.87	1.7E-26	3.399E-23	7.69
SLA2	protein_coding	2.02	0.26	3.2E-69	6.6286E-66	7.68
HIST1H2BF	protein_coding	0.63	0.08	7.4E-09	1.5171E-05	7.68
RP11-57A1.1	lincRNA	0.48	0.06	1.4E-30	2.7778E-27	7.67
GOLGA8A	protein_coding	2.65	0.34	1.1E-40	2.159E-37	7.66
CD68	protein_coding	0.54	0.07	1.5E-55	3.0487E-52	7.65
GAL3ST1	protein_coding	50.21	6.56	6.4E-94	1.3126E-90	7.65
RASD2	protein_coding	4.36	0.57	1.5E-53	3.1431E-50	7.64
RP11-388C12.5	lincRNA	0.29	0.03	1.8E-52	3.7456E-49	7.64
PATL2	protein_coding	0.69	0.09	1.9E-56	3.8596E-53	7.63
OTOA	protein_coding	0.1	0.01	7.6E-61	1.542E-57	7.63

RP11-145H9.3	lincRNA	0.21	0.02	5.7E-71	1.159E-67	7.62
RP11-1C1.4	lincRNA	2.96	0.38	4.6E-26	9.3462E-23	7.62
CCR5	protein_coding	5.72	0.75	2.7E-65	5.5577E-62	7.62
TMEM92-AS1	antisense	0.46	0.06	9.6E-22	1.9483E-18	7.61
TIGIT	protein_coding	1.18	0.15	1E-52	2.1316E-49	7.61
AF064858.8	lincRNA	1.59	0.2	2.3E-20	4.5945E-17	7.61
RP11-290F5.1	lincRNA	0.23	0.03	1.5E-15	3.0701E-12	7.57
HLA-DQB2	protein_coding	8.77	1.15	3.1E-67	6.2236E-64	7.57
RP11-798M19.6	antisense	3.56	0.47	6E-137	1.236E-133	7.56
RP11-1149M10.2	lincRNA	0.21	0.02	2E-33	4.1684E-30	7.56
APOBEC3H	protein_coding	1.55	0.2	5.5E-78	1.1127E-74	7.56
PARVG	protein_coding	2.38	0.31	1E-99	2.8689E-96	7.56
RP11-617B3.2	antisense	0.12	0.01	5.6E-13	1.1472E-09	7.55
ITGB2-AS1	antisense	1.57	0.2	3.9E-43	8.0342E-40	7.54
TNFRSF18	protein_coding	1.11	0.14	5.4E-54	1.1071E-50	7.54
GAL3ST4	protein_coding	5.13	0.68	2.1E-77	4.1832E-74	7.53
DNASE2B	protein_coding	0.27	0.03	2.4E-35	4.8119E-32	7.53
RP11-565A3.2	lincRNA	0.19	0.02	1.1E-16	2.2441E-13	7.53
CD3D	protein_coding	11.59	1.54	6.1E-59	1.2508E-55	7.51
PLXDC1	protein_coding	5.54	0.73	1.9E-94	3.8295E-91	7.5
RP1-140K8.5	lincRNA	0.32	0.04	3.4E-14	6.9356E-11	7.5
KREMEN2	protein_coding	0.15	0.02	1E-12	2.1157E-09	7.5
RP11-299G20.2	antisense	1.61	0.21	1.8E-54	3.701E-51	7.45
RP4-806M20.4	lincRNA	0.11	0.01	3.7E-16	7.6006E-13	7.45
ZBP1	protein_coding	0.49	0.06	8.2E-35	1.6724E-31	7.45
NMU	protein_coding	0.96	0.12	1E-11	2.1115E-08	7.45
AC116614.1	antisense	1.24	0.16	1.3E-07	0.00026591	7.44
TRIM9	protein_coding	1.93	0.26	2.3E-81	4.5997E-78	7.39
FCGR1B	protein_coding	0.49	0.06	4.9E-83	1.0046E-79	7.38
AC109826.1	lincRNA	0.62	0.08	3.6E-77	7.3259E-74	7.36
RP3-395M20.3	antisense	0.12	0.01	4.6E-19	9.3409E-16	7.36
RP1-288H2.2	lincRNA	8.88	1.2	3.4E-65	6.9416E-62	7.35
LINC01265	lincRNA	0.23	0.03	9.4E-20	1.9213E-16	7.34
MMP16	protein_coding	0.53	0.07	3.8E-21	7.7021E-18	7.34
UTS2	protein_coding	0.2	0.02	7E-15	1.4261E-11	7.33
UBE2C	protein_coding	5.81	0.79	7.7E-18	1.5626E-14	7.33
AC104820.2	lincRNA	0.19	0.02	1.3E-20	2.6707E-17	7.31
CLEC12A	protein_coding	1.38	0.19	1.3E-60	2.7532E-57	7.28
RP5-1112D6.4	antisense	10.41	1.43	1.4E-47	2.937E-44	7.27
GNRH1	protein_coding	1.22	0.16	1.1E-72	2.2381E-69	7.26
SLC26A10	protein_coding	0.13	0.01	1.4E-40	2.759E-37	7.26
TMPRSS9	protein_coding	0.14	0.02	7.3E-20	1.4848E-16	7.26
RP1-167A14.2	antisense	0.81	0.11	4.3E-58	8.7713E-55	7.25
RP11-58A18.1	lincRNA	0.31	0.04	8.8E-14	1.7969E-10	7.25
KIAA0319	protein_coding	0.35	0.04	5.9E-35	1.1979E-31	7.24
RP5-1031D4.2	lincRNA	0.14	0.02	2.1E-26	4.3138E-23	7.24
RP11-102G14.1	antisense	0.36	0.05	2.1E-46	4.3341E-43	7.23
RP11-283G6.4	antisense	6.1	0.84	2.1E-41	4.2407E-38	7.23
L3MBTL4-AS1	lincRNA	0.39	0.05	6.5E-64	1.3257E-60	7.22
RP11-321P16.1	lincRNA	0.61	0.08	8.8E-24	1.7948E-20	7.21

UBASH3A	protein_coding	1.06	0.14	5.9E-63	1.1972E-59	7.21
RP11-81H14.1	lincRNA	0.87	0.12	4.5E-47	9.1029E-44	7.2
HMHB1	protein_coding	0.18	0.02	4.2E-14	8.5282E-11	7.19
SLAMF7	protein_coding	4.46	0.62	1.4E-46	2.8201E-43	7.18
PIK3R5	protein_coding	2.48	0.34	1.7E-88	3.4529E-85	7.18
CCR8	protein_coding	0.24	0.03	6.3E-40	1.2782E-36	7.18
CD84	protein_coding	3.65	0.5	5.1E-67	1.0497E-63	7.18
AP002954.4	antisense	0.73	0.1	9.9E-47	2.0154E-43	7.17
NME8	protein_coding	0.28	0.03	4.8E-73	9.8522E-70	7.17
AC006272.2	lincRNA	0.24	0.03	3.4E-52	6.8846E-49	7.15
RP5-1120P11.1	antisense	4.19	0.58	3E-108	5.448E-105	7.15
RP3-455J7.4	antisense	0.14	0.02	2.1E-15	4.247E-12	7.11
FOXC2-AS1	antisense	0.67	0.09	7.5E-11	1.5324E-07	7.11
RP11-61I13.3	antisense	0.63	0.08	4.5E-23	9.1197E-20	7.11
KRBA1	protein_coding	12.28	1.72	2E-122	3.275E-119	7.11
COX4I2	protein_coding	18.44	2.59	2E-30	4.0796E-27	7.09
MYO1A	protein_coding	0.13	0.01	3.5E-16	7.2293E-13	7.09
LINC01094	lincRNA	1.91	0.26	3.5E-73	7.1891E-70	7.08
LINC01152	lincRNA	0.51	0.07	1E-48	2.0328E-45	7.08
PSTPIP1	protein_coding	1.81	0.25	1.4E-66	2.8147E-63	7.05
CTA-228A9.3	lincRNA	1.24	0.17	7.8E-60	1.5927E-56	7.05
PLA2G5	protein_coding	0.33	0.04	8.5E-32	1.7246E-28	7.04
TROAP	protein_coding	0.81	0.11	6.3E-25	1.2919E-21	7.04
PARP15	protein_coding	0.62	0.08	4.4E-28	8.9322E-25	7.04
PRAME	protein_coding	3.88	0.55	3.9E-17	8.0106E-14	7.03
PHKA2-AS1	antisense	1.16	0.16	1.9E-48	3.8832E-45	7.02
CD1A	protein_coding	0.26	0.03	1.4E-06	0.00289895	7.02
CCDC78	protein_coding	0.5	0.07	1.1E-17	2.2412E-14	7.01
RP11-20I20.4	antisense	4.6	0.65	3.1E-34	6.3266E-31	7
FFAR4	protein_coding	0.45	0.06	4.1E-61	8.4529E-58	6.99
RP5-1096D14.3	antisense	0.11	0.01	2.4E-26	4.8676E-23	6.99
LINC01480	lincRNA	0.68	0.09	1.2E-27	2.507E-24	6.97
RP11-302L19.3	lincRNA	0.99	0.14	4E-48	8.231E-45	6.97
AC093850.2	lincRNA	0.71	0.1	2E-28	4.1248E-25	6.97
CXCR4	protein_coding	91.4	13.13	1E-114	2.072E-111	6.96
CSF3R	protein_coding	2.38	0.34	1.4E-53	2.7924E-50	6.95
TGFB1	protein_coding	214.2	30.82	1E-11	2.1272E-08	6.95
RP11-284F21.7	antisense	3.09	0.44	6.7E-94	1.361E-90	6.94
RP11-763F8.1	antisense	0.68	0.09	5.6E-37	1.1388E-33	6.94
AC069499.1	protein_coding	0.28	0.04	6.3E-12	1.2933E-08	6.93
HPCA	protein_coding	0.79	0.11	2.4E-67	4.9872E-64	6.92
C1QC	protein_coding	168.41	24.34	1.8E-77	3.731E-74	6.91
RP11-264E20.1	lincRNA	0.11	0.01	5.1E-54	1.0432E-50	6.91
RP11-1C1.6	lincRNA	4.66	0.67	2.7E-21	5.4534E-18	6.9
MNX1-AS2	antisense	0.1	0.01	1.1E-15	2.2722E-12	6.9
PRTN3	protein_coding	0.24	0.03	3.5E-10	7.1812E-07	6.9
AC010287.1	protein_coding	0.1	0.01	2E-06	0.00416994	6.89
RP11-472N13.2	lincRNA	0.27	0.03	7.6E-60	1.5539E-56	6.89
CST1	protein_coding	0.18	0.02	1.1E-07	0.00022324	6.89
COL1A1	protein_coding	111.11	16.13	1.2E-14	2.4513E-11	6.88

TRPM2	protein_coding	2.3	0.33	8.4E-87	1.7197E-83	6.88
CSPG4	protein_coding	18.51	2.69	2E-103	4.518E-100	6.87
RP11-10A14.3	antisense	0.42	0.06	2.9E-23	5.9165E-20	6.87
	38047 protein_coding	0.34	0.05	6.1E-40	1.2433E-36	6.87
CD72	protein_coding	2.35	0.34	9.7E-53	1.9702E-49	6.87
RP11-809N8.4	antisense	0.22	0.03	4.1E-15	8.2837E-12	6.86
P4HA3	protein_coding	2	0.29	1.4E-22	2.7759E-19	6.85
SLC1A3	protein_coding	3.81	0.55	7E-71	1.4188E-67	6.85
RP5-858L17.1	antisense	1.98	0.28	4E-72	8.1183E-69	6.85
SLFN12L	protein_coding	0.53	0.07	3.4E-40	6.9201E-37	6.85
RP5-1077H22.1	lincRNA	0.12	0.01	9.2E-15	1.8728E-11	6.85
GJC1	protein_coding	4.53	0.66	1E-106	1.976E-103	6.84
RP11-837J7.4	antisense	0.44	0.06	1.6E-46	3.3612E-43	6.84
RP11-861E21.2	antisense	0.1	0.01	1E-37	2.0736E-34	6.84
ASMTL-AS1	antisense	2.84	0.41	9.7E-39	1.9794E-35	6.84
CFLAR-AS1	antisense	0.52	0.07	8E-08	0.0001632	6.83
RP11-552D4.1	lincRNA	0.4	0.05	7.1E-29	1.4578E-25	6.82
REG1A	protein_coding	36.03	5.27	5.3E-11	1.0898E-07	6.82
AC011899.9	antisense	0.59	0.08	7.9E-77	1.6042E-73	6.82
LINC00707	lincRNA	1.05	0.15	7E-36	1.4379E-32	6.82
MAFA-AS1	antisense	0.26	0.03	2E-07	0.00039931	6.82
RP11-318A15.8	antisense	0.3	0.04	3.6E-15	7.3615E-12	6.82
AC091177.1	antisense	0.22	0.03	5.7E-58	1.1546E-54	6.81
CTD-2201E18.5	lincRNA	0.29	0.04	1.2E-38	2.4905E-35	6.81
FKBP10	protein_coding	49.24	7.23	3.1E-70	6.3379E-67	6.8
VWCE	protein_coding	3	0.44	1.9E-31	3.8383E-28	6.8
C20orf197	lincRNA	0.2	0.03	3.2E-50	6.5614E-47	6.79
RP11-867G23.1	antisense	0.4	0.05	8.7E-37	1.7746E-33	6.78
SLC37A2	protein_coding	3.1	0.45	1.7E-79	3.472E-76	6.77
RP11-678G15.2	antisense	0.47	0.06	2.1E-22	4.28E-19	6.76
CTA-384D8.34	lincRNA	0.13	0.02	4.1E-19	8.2775E-16	6.76
RP11-395B7.4	antisense	1.3	0.19	1.3E-33	2.7331E-30	6.74
BHLHE41	protein_coding	36.48	5.4	3.6E-89	7.4413E-86	6.74
ALPI	protein_coding	4.7	0.69	6.3E-10	1.2868E-06	6.74
SIT1	protein_coding	3.42	0.5	5.3E-54	1.0894E-50	6.73
AMH	protein_coding	0.36	0.05	8.7E-14	1.765E-10	6.72
RP11-16E12.2	lincRNA	0.39	0.05	4.5E-10	9.2662E-07	6.72
RP5-940J5.3	antisense	1.06	0.15	1.7E-79	3.4216E-76	6.71
RP11-932O9.10	lincRNA	0.17	0.02	2.3E-26	4.7317E-23	6.71
ADM	protein_coding	76.89	11.45	6E-100	1.1993E-96	6.71
EMR1	protein_coding	1.07	0.16	1.1E-39	2.3413E-36	6.7
RP11-63G10.2	lincRNA	0.1	0.01	1.3E-06	0.00265945	6.7
KIF18B	protein_coding	0.65	0.09	7E-21	1.4339E-17	6.69
AC015933.2	antisense	0.24	0.03	1.9E-24	3.7999E-21	6.68
OLFML2A	protein_coding	24.05	3.59	6E-103	1.153E-99	6.68
LRRTM4	protein_coding	0.15	0.02	5.9E-07	0.00121194	6.67
AC107218.3	antisense	0.31	0.04	2.5E-37	5.1672E-34	6.65
CXCR6	protein_coding	1.97	0.29	4.1E-67	8.4538E-64	6.65
EBF2	protein_coding	2.04	0.3	1.6E-51	3.199E-48	6.64
PPEF1	protein_coding	0.27	0.04	7.6E-15	1.5465E-11	6.63

NEIL3	protein_coding	0.39	0.06	2.8E-22	5.7545E-19	6.63
SH2D2A	protein_coding	2.48	0.37	8.8E-56	1.8051E-52	6.62
ADD2	protein_coding	0.33	0.05	4.2E-22	8.5136E-19	6.62
RP11-903H12.3	antisense	0.13	0.02	1.2E-47	2.3819E-44	6.62
GM140	lincRNA	0.1	0.01	4.8E-20	9.8738E-17	6.61
RUNX3	protein_coding	5.64	0.85	1.1E-62	2.1541E-59	6.61
SLC10A6	protein_coding	0.87	0.13	2.5E-70	5.0465E-67	6.61
C11orf21	protein_coding	0.58	0.08	6.3E-64	1.2763E-60	6.61
RASAL3	protein_coding	3.87	0.58	5E-100	9.9148E-97	6.61
GS1-174L6.4	antisense	0.1	0.01	2E-21	4.1262E-18	6.6
AC005387.2	antisense	0.46	0.07	3E-64	6.1943E-61	6.6
AGAP2	protein_coding	1.04	0.15	8E-110	1.592E-106	6.6
P2RX7	protein_coding	3.54	0.53	1E-118	2.53E-115	6.59
ARHGAP22	protein_coding	1.18	0.17	1.2E-55	2.3468E-52	6.59
NOG	protein_coding	1.41	0.21	3.6E-09	7.3351E-06	6.57
RP11-229P13.19	lincRNA	0.13	0.02	8.9E-29	1.8118E-25	6.55
ETV7	protein_coding	4.09	0.62	2.5E-96	5.1923E-93	6.55
MYBL2	protein_coding	2.51	0.38	3.6E-17	7.2924E-14	6.54
TRG-AS1	antisense	0.68	0.1	1.1E-82	2.1784E-79	6.54
RP1-278C19.8	antisense	0.27	0.04	9.7E-29	1.9785E-25	6.53
TMEM92	protein_coding	2.71	0.41	4.9E-27	9.8988E-24	6.52
SLAMF8	protein_coding	6.58	1	8.6E-57	1.7576E-53	6.52
NCR1	protein_coding	0.29	0.04	8.4E-22	1.706E-18	6.52
AC092657.2	lincRNA	1.65	0.25	7.4E-10	1.5172E-06	6.51
RP11-247A12.1	antisense	0.19	0.03	2.5E-41	5.1078E-38	6.49
CTD-2576D5.4	antisense	0.13	0.02	1.2E-21	2.4893E-18	6.48
PRF1	protein_coding	10.27	1.58	5.5E-64	1.1304E-60	6.46
PCAT29	lincRNA	0.21	0.03	5.4E-40	1.1015E-36	6.46
KLHL6	protein_coding	1.32	0.2	2.4E-81	4.8741E-78	6.44
CCL4	protein_coding	6.63	1.02	4.6E-65	9.469E-62	6.44
BARX2	protein_coding	13.05	2.02	3E-123	6.641E-120	6.43
AANAT	protein_coding	0.16	0.02	1.1E-52	2.2037E-49	6.43
RETN	protein_coding	0.49	0.07	3.7E-19	7.556E-16	6.43
IGSF6	protein_coding	5.58	0.87	1.7E-91	3.4769E-88	6.42
PLAC8L1	protein_coding	0.52	0.08	4.6E-65	9.4824E-62	6.41
OLFML2B	protein_coding	19.87	3.09	4.9E-72	1.0049E-68	6.41
MYO1G	protein_coding	2.1	0.32	6.6E-60	1.354E-56	6.41
CDC25C	protein_coding	0.43	0.06	2.3E-31	4.7788E-28	6.41
CTD-2265M8.2	antisense	0.11	0.01	9.8E-47	1.9973E-43	6.41
ZNF395	protein_coding	58.27	9.09	1E-133	2.593E-130	6.41
CD3E	protein_coding	10.76	1.68	7.7E-58	1.5683E-54	6.4
RP11-497H17.1	lincRNA	0.63	0.09	1.7E-40	3.4403E-37	6.4
AC027601.1	antisense	0.19	0.03	4.6E-57	9.3813E-54	6.39
CREB3L3	protein_coding	7.02	1.09	1.5E-26	3.1342E-23	6.39
IL12RB2	protein_coding	1.02	0.15	1.6E-12	3.2923E-09	6.39
RP11-572O17.1	lincRNA	0.64	0.1	2.9E-50	5.9049E-47	6.37
IL21R	protein_coding	1.04	0.16	1.1E-50	2.1785E-47	6.37
LINC00664	lincRNA	0.12	0.02	8.3E-18	1.6883E-14	6.36
LAMA4	protein_coding	15.68	2.46	1.4E-76	2.8093E-73	6.35
YPEL4	protein_coding	0.57	0.09	6.7E-57	1.3692E-53	6.35

AC017060.1	lincRNA	0.89	0.14	3.8E-33	7.7715E-30	6.35
LTA	protein_coding	0.55	0.08	5.2E-55	1.0506E-51	6.34
RP11-434E6.4	lincRNA	3.81	0.6	3.9E-49	7.8623E-46	6.34
CCER2	protein_coding	0.43	0.06	5.2E-37	1.0633E-33	6.33
TYROBP	protein_coding	93.64	14.77	2.9E-89	5.9E-86	6.33
LAIR1	protein_coding	5.31	0.83	4.4E-83	9.0439E-80	6.33
RP11-642C5.1	lincRNA	0.35	0.05	3.6E-35	7.3575E-32	6.32
VWF	protein_coding	112.97	17.86	4E-32	8.1189E-29	6.32
RP3-337O18.9	antisense	0.13	0.02	1.8E-07	0.00036007	6.32
ASPHD1	protein_coding	5.39	0.85	1.1E-66	2.1529E-63	6.31
BEST4	protein_coding	1.28	0.2	6E-17	1.2249E-13	6.31
RP11-91K9.1	lincRNA	2.14	0.33	1.2E-36	2.5004E-33	6.3
DLX4	protein_coding	0.28	0.04	6.5E-36	1.3207E-32	6.3
MXD3	protein_coding	0.91	0.14	1.5E-69	2.9798E-66	6.3
DOK3	protein_coding	2.99	0.47	4E-108	7.962E-105	6.29
IL12RB1	protein_coding	1.64	0.26	1.2E-79	2.4077E-76	6.28
AURKB	protein_coding	1.44	0.22	6E-21	1.2225E-17	6.28
CTA-384D8.35	lincRNA	0.83	0.13	1.6E-32	3.3349E-29	6.28
ADCY2	protein_coding	0.33	0.05	7.6E-23	1.5449E-19	6.28
RP1-224A6.9	lincRNA	0.25	0.04	6.7E-15	1.3683E-11	6.27
RP1-69D17.3	antisense	0.15	0.02	1.2E-17	2.5051E-14	6.25
CTD-2373N4.5	antisense	0.1	0.01	5E-14	1.0157E-10	6.24
RP11-488C13.6	antisense	0.45	0.07	2.4E-53	4.913E-50	6.23
RP11-696F12.1	lincRNA	0.27	0.04	9E-12	1.8353E-08	6.23
LOXL2	protein_coding	21.85	3.51	1.5E-28	2.9831E-25	6.22
RP11-455F5.6	antisense	0.32	0.05	2.6E-50	5.2883E-47	6.22
SIGLEC12	protein_coding	0.38	0.06	1E-15	2.0921E-12	6.22
PAQR6	protein_coding	1.4	0.22	8.3E-55	1.685E-51	6.21
RP11-112L6.3	lincRNA	0.33	0.05	2.1E-46	4.233E-43	6.2
CELF2-AS1	antisense	0.15	0.02	1.1E-11	2.3266E-08	6.2
C1QA	protein_coding	180.75	29.16	7.3E-72	1.4927E-68	6.19
LINC00426	lincRNA	0.38	0.06	3.1E-52	6.2558E-49	6.19
PKMYT1	protein_coding	0.47	0.07	2.8E-31	5.7526E-28	6.18
RP11-864I4.3	antisense	0.48	0.07	3.8E-15	7.8305E-12	6.18
CLEC2D	protein_coding	2.37	0.38	1.4E-49	2.9534E-46	6.18
CD247	protein_coding	2.95	0.47	7.7E-73	1.5799E-69	6.18
FCHO1	protein_coding	1.08	0.17	6.1E-67	1.2377E-63	6.17
RGS5	protein_coding	345.74	55.99	3.5E-83	7.0855E-80	6.17
DLX6	protein_coding	0.14	0.02	2.5E-32	5.0876E-29	6.17
AP003774.1	antisense	0.29	0.04	7.4E-27	1.5172E-23	6.17
IKZF3	protein_coding	1.87	0.3	2E-48	4.0514E-45	6.16
RP11-357N13.1	antisense	0.41	0.06	1.3E-06	0.00269877	6.16
ACAN	protein_coding	4.24	0.69	4.1E-38	8.3097E-35	6.15
RP1-90G24.11	lincRNA	0.27	0.04	5.1E-17	1.0451E-13	6.15
HK3	protein_coding	1.76	0.28	1.8E-68	3.6883E-65	6.15
RP11-831H9.3	antisense	0.45	0.07	4.4E-30	8.8924E-27	6.15
BGLAP	protein_coding	0.48	0.07	4.1E-56	8.2763E-53	6.14
ARHGAP9	protein_coding	2.89	0.47	8.5E-72	1.7305E-68	6.14
RP11-365O16.6	antisense	0.28	0.04	2.7E-66	5.5194E-63	6.13
RP11-367G18.1	lincRNA	0.25	0.04	8.6E-24	1.7533E-20	6.12

RSPO4	protein_coding	0.32	0.05	7.5E-07	0.00153575	6.11
E2F8	protein_coding	0.51	0.08	3.5E-30	7.184E-27	6.11
AC092667.2	antisense	0.21	0.03	5.3E-65	1.0743E-61	6.11
RP5-940J5.8	antisense	0.2	0.03	5.8E-44	1.1836E-40	6.11
ARHGEF39	protein_coding	0.79	0.13	7E-115	1.449E-111	6.1
RNASE10	protein_coding	0.13	0.02	3.9E-53	8.0301E-50	6.1
HIST1H3H	protein_coding	2.66	0.43	2.7E-33	5.4735E-30	6.09
RP4-535B20.4	lincRNA	0.23	0.03	1.5E-09	3.1211E-06	6.09
RP11-495K9.5	lincRNA	0.2	0.03	1.7E-06	0.00354009	6.09
LINGO3	protein_coding	0.19	0.03	4.8E-43	9.8235E-40	6.09
AC018685.1	lincRNA	0.13	0.02	1.5E-10	3.102E-07	6.09
UCN	protein_coding	1.27	0.2	6.6E-63	1.3379E-59	6.08
FGD2	protein_coding	1.54	0.25	2.5E-65	5.0121E-62	6.08
CD3G	protein_coding	2	0.32	3.3E-56	6.7037E-53	6.07
SLC6A1-AS1	antisense	0.36	0.06	3.7E-27	7.4735E-24	6.07
CCDC88B	protein_coding	2.18	0.36	2.8E-73	5.6482E-70	6.07
SIGLEC1	protein_coding	3.18	0.52	4.4E-63	9.02E-60	6.07
VIM	protein_coding	517.95	85.46	6E-106	1.231E-102	6.06
OR52N4	protein_coding	0.4	0.06	4E-49	8.1316E-46	6.05
RP11-486M23.1	lincRNA	0.17	0.02	1.7E-06	0.00342286	6.04
AC015849.2	antisense	0.12	0.02	4.6E-16	9.4555E-13	6.04
NETO1	protein_coding	0.13	0.02	7E-29	1.4342E-25	6.03
GZMB	protein_coding	4.09	0.67	8.3E-52	1.6976E-48	6.03
AC019117.2	lincRNA	0.75	0.12	3.4E-21	7.0205E-18	6.03
TBC1D10C	protein_coding	2.29	0.37	1.1E-68	2.1522E-65	6.02
HJURP	protein_coding	1	0.16	5.4E-23	1.0933E-19	6.02
RP11-480A16.1	lincRNA	0.99	0.16	2.8E-48	5.6806E-45	6.02
CARD14	protein_coding	0.39	0.06	8.4E-26	1.7086E-22	6.02
CCL4L1	protein_coding	4.86	0.8	5E-40	1.0285E-36	6.01
VNN3	protein_coding	0.1	0.01	3.4E-13	7.0116E-10	6.01
RP1-16A9.1	antisense	0.1	0.01	2.2E-29	4.4913E-26	6.01
TMC8	protein_coding	3.67	0.61	3.4E-72	6.9041E-69	6
CTC-453G23.5	antisense	0.1	0.01	3.9E-40	8.0228E-37	5.99
OSCAR	protein_coding	2.4	0.4	2E-84	4.1166E-81	5.99
RLTPR	protein_coding	0.5	0.08	4.2E-29	8.5897E-26	5.98
RP11-54A4.2	antisense	0.68	0.11	3.5E-40	7.0526E-37	5.98
RP11-799B12.2	antisense	0.11	0.01	1.2E-23	2.4678E-20	5.98
LILRA4	protein_coding	0.61	0.1	2.5E-27	5.1969E-24	5.98
CADM3	protein_coding	3.67	0.61	3.1E-10	6.2259E-07	5.98
AC008746.12	lincRNA	1.24	0.2	6.4E-48	1.305E-44	5.97
XXbac-BPG248L24.1	lincRNA	0.18	0.03	9.4E-16	1.9143E-12	5.97
LILRA6	protein_coding	0.47	0.07	3E-70	6.06E-67	5.97
SLAMF6	protein_coding	3.56	0.59	1.3E-54	2.6856E-51	5.96
NMB	protein_coding	25.78	4.32	2.1E-26	4.3814E-23	5.95
RAD54L	protein_coding	0.92	0.15	1E-32	2.0611E-29	5.95
RP11-6O2.4	antisense	0.13	0.02	1.4E-08	2.9174E-05	5.95
LINC01272	lincRNA	1.45	0.24	1.3E-47	2.6324E-44	5.95
LTB4R	protein_coding	2.89	0.48	2.9E-94	5.9568E-91	5.95
ITGAL	protein_coding	6.72	1.12	1.1E-72	2.2186E-69	5.95
ARL6IP4	protein_coding	0.37	0.06	1.8E-49	3.6575E-46	5.93

RP11-290F5.2	lincRNA	0.16	0.02	1E-19	2.0682E-16	5.93
RP11-258F1.1	antisense	0.12	0.02	6E-20	1.2192E-16	5.93
FCRL6	protein_coding	1.09	0.18	5.5E-64	1.1194E-60	5.92
HLX	protein_coding	4.08	0.68	6.3E-85	1.294E-81	5.92
OR51E1	protein_coding	2.38	0.4	2.9E-63	5.9869E-60	5.91
RP3-477O4.14	antisense	0.33	0.05	3.9E-65	7.9768E-62	5.91
RP11-118M9.3	antisense	0.22	0.03	4.9E-39	1.0055E-35	5.91
RTEL1-TNFRSF6B	protein_coding	0.31	0.05	3.3E-64	6.6747E-61	5.91
HLA-F	protein_coding	33	5.59	1E-112	2.61E-109	5.9
AC006369.2	antisense	0.38	0.06	1.8E-59	3.7361E-56	5.88
XCL2	protein_coding	1.88	0.31	1.3E-54	2.6574E-51	5.88
YEATS2-AS1	antisense	0.37	0.06	8.9E-68	1.818E-64	5.88
RP11-1334A24.6	antisense	1.21	0.2	6.3E-89	1.2878E-85	5.87
RP11-426C22.4	lincRNA	0.13	0.02	5.7E-33	1.1589E-29	5.87
GPR174	protein_coding	1.31	0.22	1.6E-37	3.3268E-34	5.87
RP11-227G15.8	lincRNA	0.16	0.02	1.7E-06	0.00347781	5.86
TRBV11-2	lincRNA	0.7	0.12	7.1E-12	1.44E-08	5.86
RP11-284F21.10	antisense	2.5	0.42	3.9E-67	7.9558E-64	5.85
RP11-2L8.1	lincRNA	2.38	0.4	4.3E-23	8.7598E-20	5.85
PODNL1	protein_coding	0.72	0.12	2.8E-15	5.7219E-12	5.85
ADSSL1	protein_coding	13.58	2.31	1.5E-66	3.0084E-63	5.85
TENM1	protein_coding	2	0.34	7.2E-63	1.4624E-59	5.84
CTSE	protein_coding	1.51	0.25	7.2E-08	0.00014724	5.84
LAPTM5	protein_coding	97.34	16.66	7.3E-81	1.49E-77	5.84
MYO1F	protein_coding	4.47	0.76	1.4E-87	2.7849E-84	5.83
CTD-3195I5.3	antisense	1.16	0.19	1.1E-50	2.2816E-47	5.83
C14orf180	protein_coding	0.91	0.15	1.4E-11	2.8801E-08	5.82
SULT4A1	protein_coding	0.29	0.05	2.1E-13	4.3359E-10	5.82
RP1-244F24.1	antisense	0.38	0.06	1E-36	2.0556E-33	5.82
CIB4	protein_coding	1.16	0.2	1.7E-24	3.4693E-21	5.82
GFI1	protein_coding	0.91	0.15	2.1E-56	4.2677E-53	5.8
JSRP1	protein_coding	0.63	0.1	7.2E-09	1.4779E-05	5.8
AC023669.1	lincRNA	1.65	0.28	1.2E-09	2.4167E-06	5.79
AF011889.2	lincRNA	0.48	0.08	1.3E-33	2.7532E-30	5.79
SLCO1C1	protein_coding	0.39	0.06	3.5E-93	7.1872E-90	5.79
LINC01559	lincRNA	2.16	0.37	4E-07	0.00082587	5.79
TPRG1	protein_coding	0.35	0.06	5.5E-11	1.1164E-07	5.79
LPCAT1	protein_coding	40.45	6.98	9E-113	1.917E-109	5.79
FCER1G	protein_coding	51.35	8.86	1.1E-87	2.2197E-84	5.79
RP13-516M14.10	antisense	2.04	0.35	5.8E-39	1.1894E-35	5.78
CTD-2035E11.5	lincRNA	0.92	0.15	1.2E-47	2.4143E-44	5.78
NRIR	antisense	0.3	0.05	1.7E-43	3.4014E-40	5.77
RP11-438D8.2	antisense	0.34	0.05	3.4E-21	6.9231E-18	5.76
LINC00862	lincRNA	0.15	0.02	6E-13	1.219E-09	5.76
RP11-298O21.2	lincRNA	0.23	0.04	9.5E-42	1.9377E-38	5.76
PTPRH	protein_coding	0.75	0.13	1.4E-08	2.8339E-05	5.75
RP11-103C16.2	antisense	0.12	0.02	4.6E-07	0.00094838	5.75
RP3-413H6.2	lincRNA	0.17	0.03	5.9E-17	1.2058E-13	5.75
DCST1	protein_coding	0.1	0.01	4.3E-14	8.7546E-11	5.75
RP11-476D10.1	lincRNA	0.34	0.06	2.1E-43	4.1827E-40	5.75

TBX21	protein_coding	0.98	0.17	1.9E-62	3.8693E-59	5.75
RNU12	lincRNA	0.24	0.04	7.9E-11	1.619E-07	5.74
LINC01330	lincRNA	0.13	0.02	2.6E-41	5.2415E-38	5.73
RP11-124N19.3	lincRNA	8.96	1.56	3.6E-17	7.3917E-14	5.73
C4orf47	protein_coding	5.07	0.88	8E-116	1.59E-112	5.73
FGF12-AS2	antisense	0.13	0.02	1.2E-15	2.3537E-12	5.73
BCL2A1	protein_coding	3.94	0.68	1.3E-40	2.6988E-37	5.73
FAM13A-AS1	antisense	1.1	0.19	3.4E-65	6.8474E-62	5.73
RP11-493P1.2	antisense	0.13	0.02	1.3E-21	2.7485E-18	5.73
RP11-81H14.2	lincRNA	4.69	0.81	7.3E-26	1.4791E-22	5.73
PNMA2	protein_coding	14.32	2.49	2.1E-28	4.3644E-25	5.72
RP11-513G11.4	lincRNA	0.45	0.08	5.4E-37	1.0919E-33	5.72
KIAA1875	protein_coding	0.18	0.03	6.7E-50	1.3616E-46	5.72
UHRF1	protein_coding	1.08	0.18	1.3E-27	2.7145E-24	5.72
STAMBPL1	protein_coding	2.5	0.43	2E-130	3.322E-127	5.72
RP5-968J1.1	lincRNA	0.37	0.06	2.4E-47	4.9511E-44	5.72
CTC-523E23.5	lincRNA	0.18	0.03	5.5E-80	1.1286E-76	5.7
SH2D1A	protein_coding	2.07	0.36	2.6E-51	5.2951E-48	5.7
EIF4A1	protein_coding	1.35	0.23	1.9E-58	3.9375E-55	5.7
CD96	protein_coding	2.13	0.37	1.1E-62	2.2122E-59	5.69
SASH3	protein_coding	9.22	1.62	6.9E-78	1.4078E-74	5.69
RP11-148K1.12	antisense	0.58	0.1	6.1E-55	1.2357E-51	5.69
TIFAB	protein_coding	0.13	0.02	5.1E-37	1.0382E-33	5.68
RP11-45M22.5	lincRNA	0.1	0.01	7.8E-09	1.5923E-05	5.68
CPA6	protein_coding	0.43	0.07	4.1E-29	8.452E-26	5.67
APLN	protein_coding	32.5	5.73	2.7E-79	5.5281E-76	5.66
CTC-542B22.2	lincRNA	0.94	0.16	2.5E-61	5.0548E-58	5.66
SAP30	protein_coding	14.37	2.53	2E-142	4.767E-139	5.66
AC114812.8	antisense	0.14	0.02	5.4E-08	0.00010939	5.65
ADAMTS7	protein_coding	1.8	0.31	6E-85	1.2333E-81	5.65
IQGAP3	protein_coding	1.4	0.24	4.3E-40	8.7127E-37	5.65
RP11-356J5.12	lincRNA	2.34	0.41	8.4E-70	1.7086E-66	5.65
RP11-439C15.4	lincRNA	2.23	0.39	1.9E-33	3.9341E-30	5.65
RP11-44N11.2	lincRNA	1.62	0.28	7.2E-32	1.4669E-28	5.64
PCGEM1	lincRNA	0.38	0.06	1.8E-07	0.00037548	5.64
NOD2	protein_coding	0.89	0.15	1.9E-64	3.7941E-61	5.64
RP11-60A8.1	lincRNA	1.87	0.33	1.5E-14	3.0642E-11	5.63
LINC01260	antisense	0.19	0.03	6.6E-34	1.3556E-30	5.63
RP11-525K10.3	antisense	0.17	0.03	2.1E-60	4.3381E-57	5.63
RP11-222K16.2	lincRNA	0.79	0.14	8.9E-42	1.815E-38	5.63
TESPA1	protein_coding	1.05	0.18	1.1E-46	2.28E-43	5.62
TNFSF13B	protein_coding	5.42	0.96	1.5E-54	3.1032E-51	5.62
Z69666.2	antisense	0.16	0.02	1.7E-09	3.4577E-06	5.62
P2RY1	protein_coding	2.35	0.41	5.7E-65	1.164E-61	5.62
PRAM1	protein_coding	1.21	0.21	1.1E-76	2.241E-73	5.61
CYP21A2	protein_coding	0.33	0.05	5.8E-34	1.1932E-30	5.61
CD80	protein_coding	0.32	0.05	1.1E-49	2.3284E-46	5.61
LY86	protein_coding	10.31	1.83	4.1E-70	8.3737E-67	5.6
RP11-848P1.3	lincRNA	4.32	0.77	1E-107	2.551E-104	5.6
RP5-837J1.4	lincRNA	0.12	0.02	6.4E-08	0.00013009	5.6

CCL20	protein_coding	17.14	3.05	1.4E-12	2.8295E-09	5.6
PILRB	protein_coding	1.38	0.24	1.6E-20	3.169E-17	5.6
LINC01522	lincRNA	0.29	0.05	5.7E-11	1.1634E-07	5.58
BHLHA15	protein_coding	1.13	0.2	2.8E-51	5.6384E-48	5.58
PRRT2	protein_coding	1.01	0.18	5.6E-52	1.139E-48	5.58
LINC01146	lincRNA	0.2	0.03	2.2E-30	4.5606E-27	5.58
C19orf33	protein_coding	16.06	2.87	1.4E-21	2.8703E-18	5.58
RP11-638I2.9	antisense	0.5	0.09	3.9E-25	7.8914E-22	5.57
ITIH4	protein_coding	0.13	0.02	6.1E-18	1.2354E-14	5.57
SNX20	protein_coding	1.8	0.32	4E-63	8.2531E-60	5.57
CTB-113P19.1	antisense	0.11	0.02	1.3E-12	2.6657E-09	5.57
HLA-DQA2	protein_coding	21.23	3.81	1.3E-40	2.6619E-37	5.56
AC107081.5	antisense	0.23	0.04	3.9E-34	7.914E-31	5.55
MS4A7	protein_coding	14.87	2.67	2.1E-74	4.2974E-71	5.55
SCNN1D	protein_coding	1.06	0.19	1E-54	2.135E-51	5.55
CTC-479C5.10	lincRNA	0.25	0.04	2.4E-67	4.8312E-64	5.55
CERS3-AS1	antisense	0.24	0.04	2.8E-41	5.6164E-38	5.54
RP13-39P12.3	antisense	0.15	0.02	1.1E-28	2.3156E-25	5.54
LINC01426	antisense	3.99	0.72	1.7E-29	3.5527E-26	5.53
CTB-35F21.1	lincRNA	0.24	0.04	5.3E-16	1.0755E-12	5.52
CTC-251D13.1	antisense	0.15	0.02	1.3E-54	2.6965E-51	5.52
CORO1A	protein_coding	13.95	2.53	2.8E-74	5.6337E-71	5.51
RNASE3	protein_coding	0.16	0.03	2.7E-17	5.4821E-14	5.51
RP11-147L13.2	antisense	0.26	0.04	7.1E-10	1.4546E-06	5.51
PSD2	protein_coding	0.27	0.04	1.2E-27	2.3808E-24	5.5
DLL4	protein_coding	19.91	3.61	4.5E-90	9.2047E-87	5.5
CTD-2263F21.1	antisense	0.43	0.07	5.1E-14	1.0506E-10	5.5
AC007461.2	lincRNA	0.11	0.02	5.4E-29	1.1083E-25	5.49
GPR35	protein_coding	1.47	0.26	2E-33	3.9923E-30	5.49
AC009495.3	lincRNA	0.42	0.07	2.7E-32	5.5941E-29	5.48
ABCA12	protein_coding	0.94	0.17	2.3E-24	4.7396E-21	5.48
CTB-174D11.2	antisense	0.26	0.04	5.9E-11	1.195E-07	5.48
IL27	protein_coding	0.15	0.02	1E-51	2.0391E-48	5.48
PLEKHN1	protein_coding	1.11	0.2	1.5E-65	3.033E-62	5.47
TSHR	protein_coding	0.23	0.04	5.8E-43	1.1816E-39	5.47
LYZ	protein_coding	92.64	16.92	1.6E-45	3.3474E-42	5.47
LILRB3	protein_coding	0.73	0.13	2E-78	4.0938E-75	5.47
LY6G5B	protein_coding	0.85	0.15	2.5E-65	5.0707E-62	5.46
FOXM1	protein_coding	2.17	0.39	1.4E-17	2.8043E-14	5.46
AP001055.6	lincRNA	0.2	0.03	2.8E-38	5.7112E-35	5.45
AC009501.4	antisense	0.51	0.09	3.9E-35	7.9707E-32	5.45
RP11-56B16.5	antisense	0.11	0.02	4.2E-07	0.00086284	5.44
RP11-426A6.5	antisense	0.21	0.04	1.1E-54	2.2795E-51	5.44
RP13-1016M1.2	lincRNA	1.19	0.21	2.8E-36	5.771E-33	5.44
CDK3	protein_coding	0.27	0.05	9.4E-64	1.9264E-60	5.44
AC092580.4	lincRNA	2.33	0.42	1.6E-53	3.3011E-50	5.44
MAP4K1	protein_coding	2.58	0.47	1.3E-60	2.6542E-57	5.44
MBOAT4	protein_coding	0.29	0.05	3.9E-88	7.9285E-85	5.44
APBB1IP	protein_coding	14.67	2.69	3.3E-72	6.6314E-69	5.43
RP11-244M2.1	lincRNA	0.2	0.03	3.7E-45	7.5202E-42	5.43

CTB-31O20.8	antisense	0.12	0.02	7.1E-23	1.4532E-19	5.43
RP11-6L6.2	lincRNA	0.59	0.1	5.2E-38	1.0617E-34	5.43
BIRC5	protein_coding	2.05	0.37	4.5E-25	9.1998E-22	5.43
SH2D5	protein_coding	0.51	0.09	6E-62	1.2203E-58	5.42
CTD-2540F13.2	antisense	4.86	0.89	2E-77	4.0324E-74	5.42
RP11-575A19.2	antisense	0.43	0.07	1.7E-08	3.4684E-05	5.42
CDH23	protein_coding	0.54	0.1	7.1E-21	1.458E-17	5.42
RP11-327F22.2	antisense	0.29	0.05	2.6E-52	5.3875E-49	5.42
RP11-472G21.2	lincRNA	0.1	0.01	4.8E-35	9.8553E-32	5.41
CTD-2537I9.12	antisense	3.52	0.65	8.3E-54	1.683E-50	5.41
S1PR5	protein_coding	1.53	0.28	7.3E-74	1.4931E-70	5.41
ATP2A1	protein_coding	0.41	0.07	8.5E-51	1.7366E-47	5.4
JAK3	protein_coding	4.71	0.87	1.9E-76	3.8352E-73	5.4
HIST1H2AM	protein_coding	0.14	0.02	4.1E-12	8.4115E-09	5.39
RP11-133F8.2	lincRNA	5.67	1.05	7.7E-34	1.5799E-30	5.39
MMP25-AS1	antisense	1.27	0.23	1.5E-80	3.0364E-77	5.39
RP11-165M1.3	antisense	0.15	0.02	6.1E-07	0.00123978	5.39
F2RL3	protein_coding	9.44	1.75	1.7E-44	3.4227E-41	5.38
APOC2	protein_coding	0.15	0.02	4.7E-09	9.5376E-06	5.38
LINC01268	lincRNA	2.15	0.39	2.2E-80	4.5812E-77	5.38
CENPA	protein_coding	0.67	0.12	6.8E-20	1.3898E-16	5.38
MYH15	protein_coding	0.18	0.03	2.1E-52	4.2443E-49	5.38
RP11-42A4.1	lincRNA	0.19	0.03	4.5E-16	9.0836E-13	5.37
HOXA13	protein_coding	0.37	0.06	1.1E-08	2.2252E-05	5.37
MXN1	protein_coding	0.13	0.02	2.2E-18	4.4479E-15	5.37
AC005387.3	antisense	0.45	0.08	3.5E-49	7.1978E-46	5.37
LZTS1	protein_coding	7.98	1.48	9.4E-98	1.9254E-94	5.37
LINC00342	lincRNA	3.02	0.56	3.3E-73	6.8306E-70	5.37
RP11-178L8.9	antisense	0.22	0.04	1E-31	2.0605E-28	5.36
CDK18	protein_coding	46.78	8.74	2E-137	3.989E-134	5.34
TPSG1	protein_coding	2.8	0.52	3.7E-09	7.568E-06	5.34
ABHD11-AS1	antisense	3.02	0.56	1.1E-43	2.2154E-40	5.34
RP11-54O7.17	lincRNA	1.55	0.29	4E-44	8.1256E-41	5.33
RNASE2	protein_coding	1.58	0.29	1.2E-30	2.3604E-27	5.33
ITGB2	protein_coding	23.28	4.36	9.3E-71	1.8935E-67	5.33
RP5-902P8.10	lincRNA	0.95	0.17	7.2E-45	1.4635E-41	5.33
RP11-356I2.4	antisense	0.66	0.12	9.7E-93	1.9715E-89	5.33
RP11-143J12.3	antisense	0.76	0.14	9.8E-44	1.9986E-40	5.33
RP11-274H2.2	antisense	1.15	0.21	6.5E-34	1.3195E-30	5.32
TNK2-AS1	antisense	0.1	0.01	2.2E-44	4.5681E-41	5.32
SLC11A1	protein_coding	1.53	0.28	5.5E-55	1.1235E-51	5.32
AC096669.3	lincRNA	1.55	0.29	4.3E-41	8.8534E-38	5.32
SIX1	protein_coding	0.42	0.08	1.4E-21	2.8158E-18	5.31
HAPLN3	protein_coding	3.04	0.57	1.2E-60	2.4902E-57	5.31
CTC-529L17.2	lincRNA	0.31	0.05	2.6E-17	5.3721E-14	5.31
RP11-536K7.3	antisense	0.78	0.14	2.9E-91	5.9454E-88	5.3
FAM78A	protein_coding	2.88	0.54	2.2E-94	4.4119E-91	5.3
SLC12A5	protein_coding	0.13	0.02	2.5E-37	5.1234E-34	5.29
TRAT1	protein_coding	1.09	0.2	1.2E-42	2.5398E-39	5.29
SAMD3	protein_coding	0.39	0.07	1.1E-68	2.1533E-65	5.29

RP11-793H13.10	protein_coding	0.55	0.1	1E-66	2.1379E-63	5.29
TNNI2	protein_coding	0.66	0.12	5.6E-32	1.1343E-28	5.29
CTD-2036P10.6	antisense	0.41	0.07	9.2E-52	1.8775E-48	5.29
CLEC7A	protein_coding	3.72	0.7	9.7E-63	1.9688E-59	5.29
RP5-1107A17.3	antisense	0.19	0.03	7.9E-07	0.00161672	5.29
RP5-902P8.12	lincRNA	0.18	0.03	3E-26	6.093E-23	5.29
PFKFB4	protein_coding	4.87	0.92	7E-82	1.4268E-78	5.28
ATG16L2	protein_coding	3.32	0.62	1.1E-80	2.2805E-77	5.28
RP11-442J21.2	lincRNA	0.1	0.02	5.6E-09	1.1507E-05	5.28
MAP7D2	protein_coding	8.25	1.56	6.1E-20	1.2463E-16	5.28
RNF175	protein_coding	0.42	0.08	3.8E-43	7.7201E-40	5.28
E2F2	protein_coding	0.39	0.07	4.7E-31	9.5599E-28	5.28
LINC00593	lincRNA	0.14	0.02	2.1E-22	4.2738E-19	5.27
RP11-239L20.6	lincRNA	0.18	0.03	1.4E-12	2.8764E-09	5.26
AC147651.4	antisense	2.78	0.53	4.1E-67	8.3313E-64	5.25
RP11-616M22.1	antisense	0.33	0.06	1.1E-12	2.28E-09	5.25
KLRD1	protein_coding	0.41	0.07	5.3E-63	1.0738E-59	5.25
RP11-91P24.6	antisense	0.28	0.05	8.8E-19	1.8004E-15	5.25
CD6	protein_coding	1.9	0.36	8.5E-65	1.728E-61	5.23
HMOX1	protein_coding	123.94	23.66	2.2E-74	4.5744E-71	5.23
KIR2DL4	protein_coding	0.32	0.06	6.5E-44	1.3341E-40	5.23
GPR141	protein_coding	0.62	0.12	1.2E-46	2.5492E-43	5.22
RP4-710M16.2	lincRNA	0.22	0.04	1.1E-14	2.2186E-11	5.21
AC087501.1	antisense	0.14	0.02	1.2E-06	0.00245647	5.21
DLK2	protein_coding	0.95	0.18	6.4E-42	1.2957E-38	5.2
SLC2A14	protein_coding	0.1	0.02	4.9E-13	1.0029E-09	5.19
CRYGS	protein_coding	1.47	0.28	3.4E-07	0.00070077	5.19
APOBEC3G	protein_coding	5.11	0.98	4.8E-93	9.8325E-90	5.19
PRR7	protein_coding	1.63	0.31	1.7E-49	3.3794E-46	5.18
SPRY4-IT1	lincRNA	0.64	0.12	2.4E-17	4.8733E-14	5.18
AC017002.1	lincRNA	0.32	0.06	2.7E-50	5.4919E-47	5.18
RIMKLA	protein_coding	3.62	0.7	4.6E-95	9.3957E-92	5.18
SPI1	protein_coding	16	3.09	9.4E-86	1.9254E-82	5.17
EFNA3	protein_coding	2.34	0.45	2.6E-71	5.2363E-68	5.17
KLRC4	protein_coding	0.12	0.02	1.5E-24	2.9654E-21	5.17
RP5-899E9.1	lincRNA	0.67	0.13	2.5E-77	5.0386E-74	5.17
RP11-295I5.4	antisense	0.13	0.02	7.2E-17	1.4586E-13	5.16
A3GALT2	protein_coding	0.1	0.01	3.3E-30	6.7551E-27	5.16
RP11-809C18.3	antisense	0.46	0.09	3.4E-12	6.9569E-09	5.15
AC137932.6	antisense	0.35	0.06	2.1E-45	4.3716E-42	5.15
RP11-578F21.6	lincRNA	0.1	0.01	7.1E-23	1.4495E-19	5.15
RP11-359E10.1	lincRNA	1.34	0.26	3.8E-26	7.8039E-23	5.15
RGS20	protein_coding	0.24	0.04	7.3E-12	1.4833E-08	5.14
RP11-274H2.3	antisense	1.35	0.26	1.6E-34	3.1782E-31	5.14
CLECL1	protein_coding	0.58	0.11	3.8E-43	7.7341E-40	5.13
AF127936.5	lincRNA	0.58	0.11	9.8E-48	1.9903E-44	5.13
AC009133.17	antisense	0.11	0.02	1.1E-36	2.2097E-33	5.13
CCDC154	protein_coding	0.34	0.06	5.1E-36	1.0458E-32	5.13
ISG20	protein_coding	2.05	0.4	3.8E-70	7.7205E-67	5.13
AC135178.7	antisense	0.24	0.04	1.5E-37	2.9873E-34	5.13

ADAM20P1	lincRNA	0.13	0.02	2.9E-32	5.9093E-29	5.12
MELK	protein_coding	1.28	0.25	1.5E-19	3.0609E-16	5.12
NCKAP1L	protein_coding	5.14	1	1E-62	2.0833E-59	5.12
GP9	protein_coding	0.14	0.02	5E-24	1.0124E-20	5.11
C1orf162	protein_coding	11.56	2.26	3.7E-73	7.5324E-70	5.11
LINC00528	lincRNA	0.37	0.07	3.2E-85	6.5469E-82	5.1
DPEP3	protein_coding	0.1	0.01	3.8E-24	7.76E-21	5.1
LINC01150	lincRNA	1.11	0.21	5.3E-64	1.0849E-60	5.1
U52111.14	antisense	0.16	0.03	1.6E-31	3.2324E-28	5.1
MDS2	protein_coding	0.14	0.02	1.7E-23	3.5037E-20	5.1
DPEP2	protein_coding	1.67	0.32	5.7E-81	1.1602E-77	5.1
XCL1	protein_coding	0.95	0.18	9.9E-48	2.0201E-44	5.1
CTD-2116N20.1	lincRNA	0.19	0.03	3E-12	6.1648E-09	5.09
CD244	protein_coding	1.03	0.2	8.3E-62	1.684E-58	5.09
SEMA6A-AS1	antisense	0.71	0.13	2.4E-28	4.8067E-25	5.09
VAV1	protein_coding	3.47	0.68	3.6E-73	7.3182E-70	5.08
USP30-AS1	antisense	1.9	0.37	2.7E-63	5.4593E-60	5.08
NCF1	protein_coding	1.24	0.24	3.1E-68	6.2483E-65	5.08
ATP1A3	protein_coding	0.5	0.09	7.2E-08	0.00014691	5.08
RP11-527F13.1	lincRNA	0.27	0.05	1.3E-06	0.00259821	5.08
RP3-460G2.2	lincRNA	0.64	0.12	3.5E-23	7.0445E-20	5.07
GTSE1	protein_coding	0.85	0.16	2.7E-28	5.4243E-25	5.07
AC093642.3	lincRNA	0.28	0.05	5.6E-35	1.1375E-31	5.07
RP11-855A2.3	antisense	0.13	0.02	2.4E-15	4.8326E-12	5.06
ABCC3	protein_coding	20.03	3.95	9.4E-48	1.9225E-44	5.06
FBXO39	protein_coding	0.13	0.02	7.9E-38	1.6217E-34	5.05
KIF20A	protein_coding	1.89	0.37	6.8E-25	1.3921E-21	5.05
SIGLEC9	protein_coding	2.06	0.4	1E-76	2.0298E-73	5.05
RP11-227G15.9	lincRNA	0.18	0.03	6.7E-23	1.375E-19	5.05
AC003984.1	lincRNA	1.14	0.22	4.6E-54	9.4457E-51	5.04
RP11-1105G2.4	antisense	0.15	0.03	9.6E-26	1.9562E-22	5.04
CD200R1	protein_coding	1.08	0.21	4.5E-43	9.1671E-40	5.03
TPBGL	protein_coding	0.55	0.11	2.7E-12	5.5123E-09	5.03
MARCO	protein_coding	2.49	0.49	4.9E-13	9.9449E-10	5.03
S100Z	protein_coding	0.18	0.03	6.2E-40	1.2646E-36	5.02
PIF1	protein_coding	0.31	0.06	8.6E-27	1.7644E-23	5.02
BIRC3	protein_coding	24.75	4.92	2.1E-64	4.3267E-61	5.02
LTB4R2	protein_coding	0.62	0.12	7.6E-81	1.5417E-77	5.01
CCND1	protein_coding	163.75	32.65	5E-103	9.263E-100	5.01
HES4	protein_coding	8.49	1.69	2.9E-66	5.9365E-63	5.01
RP11-584P21.2	lincRNA	0.1	0.02	1.3E-12	2.6579E-09	5
EBI3	protein_coding	4.62	0.92	1.8E-51	3.6482E-48	5
RP11-91P24.5	antisense	0.16	0.03	1.8E-13	3.5975E-10	5
ZNF831	protein_coding	0.34	0.06	1.1E-49	2.2825E-46	5
CEP55	protein_coding	1.69	0.33	4E-22	8.1073E-19	5
RP11-476H24.1	antisense	0	1.27	0.00025	0.51568454	0
AQP2	protein_coding	1.4	726.57	1.9E-17	3.906E-14	0
RP11-850F7.7	lincRNA	0	2.48	2.5E-09	5.0926E-06	0
UMOD	protein_coding	6.44	2684.43	6.4E-16	1.2967E-12	0
SLC12A1	protein_coding	0.8	247.96	8.4E-18	1.7232E-14	0

CTD-2247C11.5	lincRNA	0.03	9.31	1.2E-11	2.3614E-08	0
TMEM207	protein_coding	0.03	9.84	7.6E-14	1.5506E-10	0
RP11-386B13.4	lincRNA	0.02	7.68	4.6E-17	9.3958E-14	0
ELF5	protein_coding	0.04	11.26	3.8E-07	0.00077273	0
RP11-390N6.1	antisense	0	2.04	9.5E-13	1.9398E-09	0
SEMG2	protein_coding	0	0.87	2.9E-06	0.00589859	0
UNCX	protein_coding	0	0.69	7.3E-11	1.4814E-07	0
CALB1	protein_coding	0.3	51.34	9.5E-13	1.929E-09	0
MUC15	protein_coding	0.17	26.44	1.5E-16	2.9977E-13	0
RP11-3G21.1	antisense	0	0.38	5.4E-06	0.01107228	0
ATP12A	protein_coding	0.02	4.15	2.2E-15	4.5705E-12	0
PRR35	protein_coding	0.03	5.42	6E-22	1.2198E-18	0
LINC00675	lincRNA	0.04	6.19	1.1E-08	2.1659E-05	0
LINC01378	lincRNA	0	0.23	2.9E-07	0.00059496	0
RP11-531H8.2	lincRNA	0.03	4.85	4.4E-12	9.0656E-09	0
LINC01571	lincRNA	0.02	3.11	3.2E-13	6.4336E-10	0
GP2	protein_coding	0.02	2.85	1.2E-13	2.4065E-10	0
RP11-516J2.1	lincRNA	0.01	1.86	7.7E-21	1.5711E-17	0
NPHS2	protein_coding	0.48	60.39	3.7E-13	7.487E-10	0
DUSP9	protein_coding	0.35	43.32	9.4E-20	1.912E-16	0
RP11-766F14.2	protein_coding	0	0.95	1.5E-13	3.1094E-10	0
RP11-195B3.1	lincRNA	0.08	9.48	1.2E-10	2.4981E-07	0
RP11-208K4.1	lincRNA	0.02	2.39	5.2E-15	1.054E-11	0
RP11-142A12.1	lincRNA	0	0.72	2.2E-12	4.5548E-09	0
RP11-575B7.3	lincRNA	0	0.5	0.00823	16.7845954	0
RP5-1100I6.1	lincRNA	0	0.3	0.00039	0.80105226	0
RP11-586L23.1	lincRNA	0	0.22	1.9E-07	0.0003889	0
LINC01543	lincRNA	0.05	6.27	3.9E-11	7.9074E-08	0
SOST	protein_coding	0.07	7.85	2.7E-12	5.5413E-09	0
FXRD4	protein_coding	2.68	276.7	1E-12	2.088E-09	0
KNG1	protein_coding	2.51	249.84	2.7E-23	5.5282E-20	0.01
AC068138.1	lincRNA	0	0.56	7.2E-10	1.4614E-06	0.01
RP11-61L19.2	lincRNA	0.13	13.16	6.6E-10	1.3366E-06	0.01
SLC14A2	protein_coding	0.12	11.6	1.5E-05	0.02991457	0.01
CPNE6	protein_coding	0.02	1.78	0.00026	0.53904721	0.01
LINC01055	lincRNA	0.1	8.97	1.1E-11	2.3378E-08	0.01
KCNJ1	protein_coding	1.21	99.28	4E-27	8.1232E-24	0.01
SLC9A4	protein_coding	0.15	12.26	1.5E-20	2.9608E-17	0.01
VGLL1	protein_coding	0.06	5.63	7.1E-07	0.00145197	0.01
LINC01020	lincRNA	0.02	2.17	1.6E-11	3.2165E-08	0.01
CTD-2007H18.1	lincRNA	0.01	0.95	6.6E-13	1.338E-09	0.01
RP13-259N13.2	lincRNA	0	0.43	3.3E-05	0.06811778	0.01
DDN	protein_coding	0.1	7.9	8.6E-13	1.7478E-09	0.01
AC107057.1	lincRNA	0.05	4.48	8.6E-12	1.7572E-08	0.01
HS6ST2	protein_coding	0.13	10.17	4.3E-23	8.7691E-20	0.01
KCNJ10	protein_coding	0.35	24.93	1.8E-26	3.6215E-23	0.01
ESRRB	protein_coding	0.17	11.44	1.2E-15	2.4609E-12	0.01
SLC22A8	protein_coding	0.54	34.53	2E-10	4.1216E-07	0.01
AC124944.5	lincRNA	0.03	2.09	8.8E-16	1.7892E-12	0.01
AC005616.2	lincRNA	0.01	1.21	2E-06	0.00413077	0.01

RP11-527L4.6	lincRNA	0.04	2.44	1.2E-16	2.5317E-13	0.01
NPHS1	protein_coding	0.22	13.17	2.1E-12	4.3788E-09	0.01
CLDN16	protein_coding	0.49	28.32	1.9E-19	3.8365E-16	0.01
NELL1	protein_coding	0.14	8.58	1.3E-18	2.6939E-15	0.01
AP000696.2	lincRNA	0.05	3.06	6E-14	1.218E-10	0.01
GPC5	protein_coding	0.07	4.07	1.8E-15	3.6938E-12	0.01
GADL1	protein_coding	0	0.45	2.3E-10	4.7907E-07	0.01
TFAP2B	protein_coding	0.11	6.2	6.6E-27	1.3365E-23	0.01
KLK7	protein_coding	0.07	3.8	2.4E-13	4.9636E-10	0.01
CLDN19	protein_coding	0.57	30.31	3.8E-17	7.6891E-14	0.01
SH3GL3	protein_coding	0.03	1.97	0.00054	1.10224152	0.01
HELT	protein_coding	0	0.43	6.3E-14	1.2946E-10	0.01
C2orf71	protein_coding	0	0.21	7.4E-14	1.5148E-10	0.01
RALYL	protein_coding	0.07	3.51	1.8E-23	3.5909E-20	0.01
HCRTR2	protein_coding	0	0.28	3.2E-10	6.5681E-07	0.02
RP1-137K24.1	lincRNA	0	0.42	1.6E-22	3.2005E-19	0.02
EGF	protein_coding	1.5	72.05	1E-16	2.1233E-13	0.02
ACPP	protein_coding	0.26	12.2	5.4E-22	1.1029E-18	0.02
CASR	protein_coding	0.5	23.66	8.4E-24	1.7127E-20	0.02
RP5-1018K9.1	antisense	0.06	3.05	7.3E-21	1.496E-17	0.02
LINC00864	lincRNA	0.06	2.89	6.3E-31	1.2922E-27	0.02
CALML3	protein_coding	0.05	2.64	2.2E-08	4.4506E-05	0.02
TYRP1	protein_coding	0.11	5.06	1.1E-14	2.2315E-11	0.02
CLCNKA	protein_coding	1.36	59.41	1.2E-12	2.4487E-09	0.02
CTA-392C11.1	lincRNA	0.04	1.85	4.1E-11	8.3596E-08	0.02
LINC00982	antisense	0.29	12.52	8.8E-16	1.7884E-12	0.02
IL36B	protein_coding	0.01	0.52	0.32974	672.659425	0.02
SEMG1	protein_coding	0	0.11	1.6E-05	0.0318488	0.02
OLFM3	protein_coding	0	0.23	3.4E-11	6.9143E-08	0.02
RANBP3L	protein_coding	0.46	18.92	9.2E-13	1.8788E-09	0.02
RP11-120I21.2	lincRNA	0.01	0.56	5.3E-07	0.00108581	0.02
KLK6	protein_coding	0.14	5.93	1.8E-13	3.7386E-10	0.02
EHF	protein_coding	0.47	19.14	5.8E-14	1.1908E-10	0.02
RP11-752D24.2	antisense	0.03	1.37	6.6E-14	1.3391E-10	0.02
MFSD4	protein_coding	1.89	76.06	2.1E-14	4.195E-11	0.02
XPNPEP2	protein_coding	1.41	56.24	2E-10	4.0827E-07	0.02
HMX2	protein_coding	0.01	0.65	2.4E-10	4.8149E-07	0.02
CHP2	protein_coding	0.02	0.87	3E-08	6.1755E-05	0.02
LINC00371	lincRNA	0	0.17	1.3E-07	0.00025546	0.02
RP13-30A9.2	antisense	0	0.16	6.7E-06	0.0137586	0.02
CH507-396I9.6	protein_coding	0	0.29	1.2E-13	2.4531E-10	0.02
SFRP1	protein_coding	2.58	94.86	2.7E-33	5.5321E-30	0.02
CTD-2008P7.9	lincRNA	0.09	3.27	6.3E-19	1.2753E-15	0.02
KLRG2	protein_coding	0.15	5.54	7.9E-09	1.6173E-05	0.02
TMEM52B	protein_coding	1.77	61	1.6E-15	3.3368E-12	0.02
SIAH3	protein_coding	0.03	1.18	1.8E-07	0.00037363	0.02
PTGER1	protein_coding	0.24	8.46	8.3E-10	1.6927E-06	0.02
RP11-310P5.2	antisense	0.08	2.73	2.9E-12	5.9589E-09	0.02
TRPV5	protein_coding	0.03	1.11	6.2E-06	0.01267445	0.02
RP11-550H2.2	lincRNA	0.1	3.57	4.5E-11	9.2582E-08	0.02

RP11-527L4.2	lincRNA	0.05	1.82	1.3E-11	2.7336E-08	0.03
AP000697.6	antisense	0.02	0.75	3.9E-10	7.8725E-07	0.03
ASB15	protein_coding	0.04	1.41	5.4E-10	1.0986E-06	0.03
IRX2	protein_coding	0.24	8.07	3E-22	6.2019E-19	0.03
RP11-132E11.2	lincRNA	0.02	0.8	3.5E-08	7.1021E-05	0.03
CA10	protein_coding	0.11	3.53	1.2E-26	2.4382E-23	0.03
SERPINA5	protein_coding	2.76	87.84	1.4E-29	2.766E-26	0.03
TRPV6	protein_coding	0.03	1.24	4.5E-20	9.1701E-17	0.03
TCF24	protein_coding	0.01	0.44	2.1E-11	4.2299E-08	0.03
GGT6	protein_coding	0.86	27.17	2.6E-33	5.3093E-30	0.03
CST9	protein_coding	0	0.19	1.7E-09	3.5298E-06	0.03
CYP4F2	protein_coding	0.38	11.86	6.3E-09	1.284E-05	0.03
RP13-30A9.1	antisense	0	0.15	1E-05	0.02124946	0.03
GABRA2	protein_coding	0.07	2.21	3.5E-17	7.1216E-14	0.03
RP11-714L20.1	lincRNA	0.01	0.42	3.2E-06	0.00659185	0.03
RP11-55L3.1	lincRNA	0.01	0.31	1.4E-07	0.00028399	0.03
ENPP6	protein_coding	0.21	6.31	3.1E-10	6.3155E-07	0.03
BMPR1B-AS1	lincRNA	0.04	1.4	1.9E-19	3.9574E-16	0.03
LINC01555	lincRNA	0	0.18	9.5E-07	0.0019281	0.03
NAT8L	protein_coding	0.36	10.44	2.2E-16	4.4219E-13	0.03
NRK	protein_coding	0.18	5.25	1.1E-26	2.1727E-23	0.03
SCNN1G	protein_coding	2.13	61.06	1.5E-20	3.0536E-17	0.03
HPD	protein_coding	3.67	104.51	1.2E-10	2.3619E-07	0.03
RP11-14K3.7	lincRNA	0.05	1.56	7.1E-06	0.01449545	0.03
EDDM3A	protein_coding	0.02	0.69	5.5E-07	0.00112214	0.03
CNTD2	protein_coding	0.12	3.6	6.9E-06	0.01398023	0.03
SLC7A13	protein_coding	0.26	7.35	3.9E-07	0.00078707	0.03
ABCA4	protein_coding	0.2	5.52	7E-07	0.00142547	0.03
KB-1562D12.1	antisense	0.02	0.74	2.9E-09	5.9293E-06	0.03
RP11-63A11.1	antisense	0.04	1.18	5.1E-24	1.0479E-20	0.03
COL26A1	protein_coding	0.14	3.98	1E-09	2.1048E-06	0.03
TNNT2	protein_coding	0.08	2.16	6E-13	1.2253E-09	0.03
SLC12A3	protein_coding	2.6	69.25	9.9E-12	2.0263E-08	0.03
DIO1	protein_coding	0.96	25.37	1.4E-08	2.8879E-05	0.03
ERVMER34-1	protein_coding	0.16	4.34	5.3E-18	1.0884E-14	0.03
ALDOB	protein_coding	60.79	1563.39	5E-11	1.0259E-07	0.03
RP11-536G4.1	lincRNA	0.02	0.56	1E-15	2.1314E-12	0.03
SLC13A3	protein_coding	2.66	68.46	9.6E-10	1.9507E-06	0.03
RP4-655J12.4	lincRNA	0.15	3.84	6.5E-22	1.3309E-18	0.03
RP11-16D22.2	lincRNA	0.07	1.88	2.1E-20	4.3769E-17	0.04
GATA3-AS1	lincRNA	0.06	1.57	9.8E-18	2.0051E-14	0.04
RP11-132N15.3	lincRNA	0	0.12	0.00075	1.52932907	0.04
ADAMTS19-AS1	antisense	0	0.11	2E-10	4.1102E-07	0.04
CYP2B6	protein_coding	0.16	3.91	3.2E-09	6.4737E-06	0.04
SLC5A2	protein_coding	0.27	6.58	1.3E-10	2.5902E-07	0.04
AFM	protein_coding	0.54	12.92	8.8E-09	1.7932E-05	0.04
SLC36A2	protein_coding	0.66	15.78	3E-10	6.1834E-07	0.04
SLC4A11	protein_coding	0.54	12.83	6.7E-07	0.0013666	0.04
SLC13A2	protein_coding	0.73	17.33	6.3E-11	1.2793E-07	0.04
IRX1	protein_coding	0.36	8.66	1.3E-17	2.5746E-14	0.04

AC068535.3	lincRNA	0.01	0.26	7.9E-08	0.00016048	0.04
FABP1	protein_coding	1.07	25.04	1.8E-09	3.7053E-06	0.04
AC006960.7	antisense	0.04	0.94	2.4E-08	4.8375E-05	0.04
SPTBN2	protein_coding	1.36	31.24	7.6E-18	1.5423E-14	0.04
SIM2	protein_coding	0.22	5.19	2.8E-16	5.6343E-13	0.04
UGT2A1	protein_coding	0.06	1.46	1E-06	0.00205534	0.04
MT1G	protein_coding	23.68	526.19	4.4E-10	8.9915E-07	0.04
MCCD1	protein_coding	0.92	20.3	1.1E-17	2.1952E-14	0.04
MT1H	protein_coding	4.44	97.4	1.2E-08	2.4565E-05	0.04
NTNG1	protein_coding	0.08	1.85	7.4E-13	1.507E-09	0.04
AC099552.3	lincRNA	0.04	0.9	4.1E-06	0.00832355	0.04
CTD-2131118.1	lincRNA	0	0.2	4.6E-15	9.4648E-12	0.04
OVCH2	protein_coding	0.17	3.82	4E-31	8.0885E-28	0.04
PROX1	protein_coding	0.3	6.38	2.1E-11	4.3499E-08	0.04
LINC00379	lincRNA	0.33	7.07	5.6E-15	1.1324E-11	0.04
FAM19A4	protein_coding	0	0.17	0.00238	4.84660753	0.04
FRG2B	protein_coding	0	0.19	2.5E-07	0.00050869	0.04
PSKH2	protein_coding	0	0.16	3.2E-16	6.5676E-13	0.04
RP11-573D15.8	antisense	0.01	0.4	8.9E-16	1.8172E-12	0.04
GAL3ST3	protein_coding	0.14	3.05	1.2E-14	2.3706E-11	0.04
RP3-429O6.1	lincRNA	0	0.12	1.9E-07	0.00038949	0.04
RP1-56K13.5	lincRNA	0.08	1.66	3.2E-09	6.4586E-06	0.04
RP11-35N6.1	protein_coding	0.38	7.8	4.6E-29	9.3478E-26	0.04
FRG2C	protein_coding	0.08	1.73	1.7E-07	0.0003527	0.04
RP11-22C11.2	antisense	0.05	1.12	2.4E-15	4.9676E-12	0.04
F11	protein_coding	0.42	8.54	4E-21	8.0793E-18	0.04
RP1-38C16.2	lincRNA	0.02	0.41	4.9E-11	9.925E-08	0.04
ACOT12	protein_coding	0.04	0.96	1.8E-26	3.665E-23	0.04
HNF4A-AS1	antisense	0.13	2.76	1.4E-10	2.9359E-07	0.04
COL4A6	protein_coding	0.12	2.45	2.6E-23	5.3108E-20	0.04
RP11-5P4.3	lincRNA	0.04	0.86	3E-05	0.06026357	0.05
RASL11B	protein_coding	0.78	15.52	4.2E-15	8.4835E-12	0.05
NOS1	protein_coding	0.07	1.46	2.1E-15	4.2679E-12	0.05
ADAMTS19	protein_coding	0.01	0.26	5E-12	1.022E-08	0.05
SLC34A1	protein_coding	1.86	36.51	1.7E-09	3.4683E-06	0.05
BRINP3	protein_coding	0.04	0.94	1.4E-19	2.9441E-16	0.05
GPR110	protein_coding	0.53	10.49	1.3E-18	2.7182E-15	0.05
RP11-379F12.4	lincRNA	0	0.13	1.1E-11	2.3099E-08	0.05
DPEP1	protein_coding	4.09	79.38	4.2E-10	8.4696E-07	0.05
MOGAT2	protein_coding	0.02	0.53	1.6E-09	3.1776E-06	0.05
RP11-18H21.3	lincRNA	0.02	0.56	8.9E-10	1.8217E-06	0.05
LINC00645	lincRNA	0.38	7.41	3.2E-25	6.4822E-22	0.05
AC099552.4	lincRNA	0	0.17	0.00068	1.38836135	0.05
F11-AS1	antisense	0.09	1.77	5E-21	1.0261E-17	0.05
UPP2	protein_coding	0.46	8.84	1E-09	2.0497E-06	0.05
RP11-469H8.6	antisense	0.05	1.13	2.2E-18	4.4328E-15	0.05
WNT9B	protein_coding	0.15	2.9	1.5E-08	2.9887E-05	0.05
TPPP2	protein_coding	0.02	0.46	2.1E-16	4.34E-13	0.05
IYD	protein_coding	0.22	4.17	2.8E-11	5.7483E-08	0.05
SLC5A7	protein_coding	0.01	0.2	3.3E-13	6.7364E-10	0.05

FLRT1	protein_coding	0.11	2.05	5.7E-14	1.1672E-10	0.05
RP11-445F12.1	antisense	0.31	5.65	2.8E-34	5.6411E-31	0.05
CTB-79E8.2	antisense	0.04	0.8	5.9E-06	0.01207894	0.05
UTS2R	protein_coding	0.02	0.51	0.0002	0.40394173	0.05
RP11-359N11.1	lincRNA	0.16	2.89	6.1E-09	1.2346E-05	0.05
KCTD8	protein_coding	0.02	0.49	6.2E-25	1.2576E-21	0.05
PROZ	protein_coding	0.22	3.98	1.8E-08	3.6672E-05	0.05
FGF1	protein_coding	1.43	25.14	9.7E-14	1.9699E-10	0.05
CTD-2626G11.2	lincRNA	0.02	0.38	7.3E-23	1.4986E-19	0.05
NT5C1A	protein_coding	0.02	0.48	2.5E-12	5.0141E-09	0.05
AL161668.5	lincRNA	0.09	1.69	1.5E-12	3.1513E-09	0.05
DEFB132	protein_coding	0.01	0.2	0.03281	66.9322567	0.05
SCNN1B	protein_coding	1.61	27.41	2.5E-21	5.0506E-18	0.05
AC003090.1	lincRNA	0.04	0.72	0.0141	28.7565644	0.05
RP11-190A12.7	protein_coding	0.02	0.35	8.2E-12	1.6817E-08	0.05
RNF212B	protein_coding	0.12	2.08	8.7E-09	1.7839E-05	0.05
WNK4	protein_coding	1.06	17.89	3.4E-22	6.9915E-19	0.05
RP11-816J8.1	lincRNA	0	0.15	5.2E-14	1.0629E-10	0.05
FAM3B	protein_coding	0.39	6.66	3.3E-26	6.7295E-23	0.05
PRR15	protein_coding	0.82	13.75	1.3E-15	2.6683E-12	0.06
RP11-379F12.3	lincRNA	0.01	0.32	2E-17	4.0677E-14	0.06
PIK3C2G	protein_coding	0.18	3.08	5E-35	1.0278E-31	0.06
LMX1B	protein_coding	0.1	1.64	3.4E-12	6.9911E-09	0.06
MAPK4	protein_coding	0.15	2.52	2.9E-22	5.8575E-19	0.06
RP11-295M3.4	lincRNA	1.48	24.17	4.4E-13	8.8753E-10	0.06
EPN3	protein_coding	0.29	4.78	3.1E-20	6.4141E-17	0.06
WNT7B	protein_coding	0.23	3.73	1.6E-08	3.2929E-05	0.06
HSPA2	protein_coding	3.16	49.86	5.3E-13	1.0882E-09	0.06
ANKRD34B	protein_coding	0.02	0.45	3.8E-12	7.7955E-09	0.06
TNNI1	protein_coding	0.11	1.76	1.4E-20	2.8951E-17	0.06
ALDH3B2	protein_coding	0.04	0.74	3.3E-09	6.7901E-06	0.06
SCN7A	protein_coding	0.03	0.61	1.4E-14	2.7948E-11	0.06
TMEM45B	protein_coding	1.13	17.71	9.3E-21	1.9036E-17	0.06
STRA6	protein_coding	0.14	2.25	2.5E-10	4.9981E-07	0.06
CRHBP	protein_coding	0.84	13.14	4.2E-13	8.6199E-10	0.06
HPCAL4	protein_coding	0.17	2.63	5.9E-09	1.2035E-05	0.06
TSPAN8	protein_coding	1.59	24.44	1.3E-14	2.5556E-11	0.06
ERBB4	protein_coding	0.31	4.81	1.5E-25	3.1615E-22	0.06
MYLK3	protein_coding	0.05	0.85	1.1E-11	2.193E-08	0.06
SSTR5	protein_coding	0.1	1.52	3E-09	6.0303E-06	0.06
RP11-53B5.1	lincRNA	0	0.13	0.00639	13.0337031	0.06
CRYAA	protein_coding	0.02	0.3	5E-08	0.00010282	0.06
SGCZ	protein_coding	0.01	0.21	2.1E-06	0.00422586	0.06
RBP2	protein_coding	0.13	1.98	9.3E-08	0.00018977	0.06
TMPRSS4	protein_coding	0.2	3.06	1.6E-13	3.3091E-10	0.06
GRHL2	protein_coding	0.29	4.41	4.6E-22	9.4027E-19	0.06
PCDH15	protein_coding	0	0.1	9.8E-09	2.0094E-05	0.06
PPP1R1B	protein_coding	0.1	1.51	4.1E-09	8.3557E-06	0.06
TUBAL3	protein_coding	0.15	2.24	5.3E-11	1.0893E-07	0.06
RAG2	protein_coding	0	0.11	6.4E-07	0.00129865	0.06

SLC47A2	protein_coding	0.51	7.49	8.9E-11	1.8172E-07	0.06
MYO3B	protein_coding	0.33	4.84	1.2E-22	2.3883E-19	0.06
AC012123.1	antisense	0.03	0.53	1.2E-13	2.5393E-10	0.06
FAM151A	protein_coding	3.56	51.11	2E-09	4.0951E-06	0.06
KLHL14	protein_coding	0.34	4.88	3.1E-16	6.2672E-13	0.07
TACR3	protein_coding	0.01	0.15	5.4E-13	1.1001E-09	0.07
LINC01351	lincRNA	0	0.1	1.4E-15	2.9264E-12	0.07
GPC3	protein_coding	3.34	46.84	1.1E-22	2.2964E-19	0.07
RP11-1030E3.1	lincRNA	0	0.12	4.8E-09	9.7806E-06	0.07
RP11-470M17.2	lincRNA	0.02	0.28	3.2E-06	0.00654957	0.07
TMPRSS2	protein_coding	1.47	20.29	7.1E-27	1.4561E-23	0.07
RP11-128L5.1	lincRNA	0.01	0.24	3.7E-09	7.5904E-06	0.07
WNT8B	protein_coding	0.04	0.61	5.6E-12	1.1439E-08	0.07
OLFM4	protein_coding	0.52	7.24	0.01569	32.0013104	0.07
B4GALNT2	protein_coding	0.42	5.8	9.7E-10	1.9736E-06	0.07
C2orf54	protein_coding	0.36	5.03	3.1E-10	6.2494E-07	0.07
PRDM16	protein_coding	0.32	4.43	2.8E-19	5.7499E-16	0.07
NXPB2	protein_coding	0.18	2.55	3.4E-11	6.8618E-08	0.07
LIPH	protein_coding	0.69	9.44	3.1E-15	6.4045E-12	0.07
LINC00871	lincRNA	0.04	0.6	2E-10	4.0666E-07	0.07
CR2	protein_coding	0.17	2.39	4.1E-07	0.0008338	0.07
CHGB	protein_coding	0.53	7.15	4.8E-13	9.7692E-10	0.07
FMN2	protein_coding	0.04	0.6	1.8E-12	3.6084E-09	0.07
FRMD7	protein_coding	0.1	1.33	1.7E-17	3.4446E-14	0.07
FOXCUT	lincRNA	0.21	2.86	3.6E-19	7.3374E-16	0.07
RP11-339D23.1	lincRNA	0.01	0.19	5.1E-08	0.00010458	0.07
RAB25	protein_coding	1.8	23.57	1.6E-23	3.2516E-20	0.07
SUSD4	protein_coding	0.75	9.84	4.1E-19	8.3783E-16	0.07
PWRN3	lincRNA	0.01	0.24	5E-10	1.0205E-06	0.07
RP11-95P13.2	lincRNA	0.09	1.24	3.1E-07	0.00064014	0.07
CLDN8	protein_coding	5.24	67.92	2E-17	4.1365E-14	0.07
CLIC5	protein_coding	1.67	21.61	7.1E-13	1.4405E-09	0.07
RP11-476M19.2	lincRNA	0.11	1.52	5.1E-10	1.031E-06	0.07
RP5-1024C24.1	antisense	0.07	0.89	4.6E-22	9.4106E-19	0.07
RP11-61O1.1	lincRNA	0.02	0.28	7.2E-16	1.4657E-12	0.07
HS3ST6	protein_coding	0.03	0.39	1.7E-06	0.00339337	0.07
BSND	protein_coding	1.14	14.6	9.4E-23	1.9175E-19	0.07
S100A2	protein_coding	3.46	43.94	4.5E-10	9.1458E-07	0.07
RP11-21A7A.2	antisense	0.01	0.17	3.5E-13	7.1218E-10	0.07
ITLN1	protein_coding	0.17	2.23	1.2E-11	2.434E-08	0.07
RP1-163G9.2	antisense	0	0.1	2.5E-06	0.00500468	0.08
CNTN1	protein_coding	0.4	5.07	8.2E-28	1.679E-24	0.08
RP11-90P13.1	lincRNA	0.15	1.92	4.1E-06	0.00837949	0.08
RP11-131N11.4	lincRNA	0.07	0.93	2.6E-12	5.2456E-09	0.08
EPB41L4B	protein_coding	0.29	3.58	7.3E-28	1.4871E-24	0.08
PROM2	protein_coding	2.25	27.51	6.6E-30	1.3398E-26	0.08
FAM83B	protein_coding	0.24	2.94	2.2E-21	4.5077E-18	0.08
RP11-128P17.4	lincRNA	0	0.11	2.5E-07	0.00050379	0.08
SPTSSB	protein_coding	0.06	0.81	0.00987	20.131516	0.08
HECW1	protein_coding	0.11	1.41	7.1E-11	1.4475E-07	0.08

INSRR	protein_coding	0.08	0.97	2.3E-12	4.6952E-09	0.08
RP4-568C11.4	lincRNA	2.33	28.41	4.6E-19	9.2957E-16	0.08
CLCNKB	protein_coding	7.16	86.54	1.1E-23	2.2734E-20	0.08
RBBP8NL	protein_coding	0.03	0.46	6E-17	1.2226E-13	0.08
RP1-80N2.2	lincRNA	0.86	10.43	3.4E-15	6.8821E-12	0.08
ABCA13	protein_coding	0.01	0.22	2.7E-10	5.5401E-07	0.08
MFSD6L	protein_coding	0.2	2.44	1.7E-21	3.4486E-18	0.08
CTD-2008P7.8	lincRNA	0.01	0.12	6.7E-08	0.00013684	0.08
SYT7	protein_coding	0.53	6.44	1.9E-14	3.8447E-11	0.08
GPR113	protein_coding	0.12	1.44	6.5E-17	1.322E-13	0.08
PTCSC3	lincRNA	0.34	4.03	1.5E-22	3.0902E-19	0.08
TACSTD2	protein_coding	14.33	169.84	1.1E-10	2.1552E-07	0.08
P2RX2	protein_coding	0.01	0.14	2.7E-05	0.05568089	0.08
SLC4A1	protein_coding	3.91	46.16	8.8E-20	1.8049E-16	0.08
C14orf37	protein_coding	0.6	7.02	3.9E-22	7.9864E-19	0.08
CYP27B1	protein_coding	0.46	5.44	1.2E-07	0.00024149	0.08
RP3-380B4.1	lincRNA	0.04	0.5	6.2E-11	1.2683E-07	0.08
FAM167A	protein_coding	0.58	6.69	5.4E-27	1.0922E-23	0.08
VTCN1	protein_coding	1.44	16.64	5.2E-16	1.0551E-12	0.08
RP11-622A1.2	lincRNA	0.09	1.05	3E-07	0.00060983	0.08
LINC00473	lincRNA	0.21	2.5	8.9E-12	1.8224E-08	0.08
RP4-735C1.4	antisense	0.04	0.48	5E-15	1.0158E-11	0.08
RP11-128P17.1	lincRNA	0.05	0.63	1.9E-05	0.03956417	0.08
MAL	protein_coding	27.71	315.6	3.1E-22	6.4188E-19	0.08
OVOL2	protein_coding	0.1	1.19	6E-29	1.2305E-25	0.08
LINC00551	lincRNA	0.12	1.39	7.1E-17	1.4408E-13	0.08
FGF10	protein_coding	0.02	0.32	6.4E-11	1.297E-07	0.08
SLC7A8	protein_coding	4.64	52.72	1.2E-12	2.3506E-09	0.08
ERICH4	protein_coding	0.43	4.95	1.4E-11	2.8786E-08	0.08
RP11-662M24.2	lincRNA	0.01	0.21	5.2E-12	1.0575E-08	0.08
EYA4	protein_coding	0.23	2.68	2.8E-10	5.6829E-07	0.08
ADH1C	protein_coding	1.24	14.01	2.4E-09	4.9056E-06	0.08
CLUL1	protein_coding	0.16	1.81	4.9E-22	9.9783E-19	0.08
RP11-545A16.1	antisense	0.01	0.16	2.1E-06	0.00427617	0.08
TCF21	protein_coding	0.81	9.06	7E-23	1.4204E-19	0.08
LHX1	protein_coding	0.24	2.77	3.4E-25	6.8613E-22	0.09
KLK5	protein_coding	0.04	0.52	2E-09	4.0079E-06	0.09
GMNC	protein_coding	0.12	1.42	2E-06	0.00405233	0.09
RP1-81D8.3	lincRNA	0.02	0.3	0.0001	0.20740438	0.09
C9orf135	protein_coding	0.08	0.97	8.8E-13	1.7919E-09	0.09
GRM1	protein_coding	0.08	0.97	4.5E-14	9.1379E-11	0.09
LRRC2	protein_coding	0.3	3.35	3.3E-33	6.821E-30	0.09
AC019181.2	antisense	0.63	6.96	6.8E-26	1.3877E-22	0.09
PAPPA2	protein_coding	0.62	6.8	2.4E-10	4.8466E-07	0.09
FAM215A	protein_coding	0.04	0.48	1E-09	2.082E-06	0.09
AVPR2	protein_coding	0.68	7.47	6E-12	1.2231E-08	0.09
CSF3	protein_coding	0.09	0.98	0.33092	675.072933	0.09
SLC2A12	protein_coding	0.3	3.31	1.7E-27	3.4003E-24	0.09
IL11	protein_coding	0.12	1.37	0.01967	40.1362931	0.09
RP11-128P17.2	lincRNA	0.01	0.19	7.9E-09	1.6135E-05	0.09

RP11-433J22.3	lincRNA	0.12	1.32	1.1E-13	2.2355E-10	0.09
SMIM5	protein_coding	0.68	7.37	1.3E-22	2.6298E-19	0.09
RP11-478J18.2	antisense	0.01	0.12	1.3E-09	2.67E-06	0.09
RP11-108E14.1	lincRNA	0.14	1.51	6.2E-08	0.00012641	0.09
TTPA	protein_coding	0.05	0.54	5.8E-13	1.1842E-09	0.09
ZNF488	protein_coding	0.07	0.77	1.8E-14	3.7521E-11	0.09
LINC00380	lincRNA	0.04	0.43	5.7E-13	1.1659E-09	0.09
MRAP2	protein_coding	0.26	2.81	1.5E-14	3.1612E-11	0.09
CTD-2130F23.2	lincRNA	0.01	0.11	4.8E-06	0.00982865	0.09
FREM1	protein_coding	0.44	4.62	1E-29	2.1116E-26	0.09
G6PC	protein_coding	2.69	28.23	1.1E-07	0.00022722	0.09
LMO3	protein_coding	0.13	1.43	7.4E-12	1.513E-08	0.09
CHL1	protein_coding	0.57	6.03	6.8E-30	1.3959E-26	0.09
CA8	protein_coding	0.46	4.89	5.2E-07	0.00106811	0.09
SLC28A2	protein_coding	0.06	0.69	1.3E-06	0.00262975	0.09
HOXB9	protein_coding	2.21	23.12	4E-19	8.1089E-16	0.09
HSPB7	protein_coding	1.34	13.95	1.8E-09	3.5994E-06	0.09
TNNC1	protein_coding	0.51	5.32	2.1E-25	4.2158E-22	0.09
SLC30A2	protein_coding	0.76	7.86	3E-12	6.048E-09	0.09
PRSS22	protein_coding	0.22	2.35	9.6E-12	1.9663E-08	0.09
RP11-528A4.2	lincRNA	0.22	2.28	4.6E-20	9.4566E-17	0.09
RP5-881L22.6	antisense	0.01	0.18	6.6E-08	0.00013523	0.09
RP11-74M11.2	lincRNA	0.04	0.46	8.8E-07	0.00178561	0.09
RP11-451B8.1	lincRNA	0.09	1.01	1.8E-08	3.5939E-05	0.09
PAK6	protein_coding	0.01	0.12	1.8E-34	3.6952E-31	0.09
GSTM3	protein_coding	5.47	55.25	1.6E-18	3.3238E-15	0.09
CRISP2	protein_coding	0.04	0.41	1.7E-12	3.4343E-09	0.09
PTPRQ	protein_coding	0.01	0.17	3.2E-09	6.4896E-06	0.09
NHLRC4	protein_coding	0.6	6.01	3.5E-21	7.1357E-18	0.09
SLC4A9	protein_coding	0.49	4.96	2.3E-17	4.6051E-14	0.09
NIPAL1	protein_coding	0.45	4.6	6.3E-12	1.2773E-08	0.09
ANKRD2	protein_coding	1.02	10.23	5E-12	1.0114E-08	0.1
AC005301.8	lincRNA	0.01	0.14	1E-08	2.0866E-05	0.1
LGI2	protein_coding	0.63	6.3	1.5E-09	3.0768E-06	0.1
RPRM	protein_coding	0.13	1.34	4.2E-11	8.6574E-08	0.1
LINC00461	lincRNA	0.02	0.2	1.8E-10	3.6789E-07	0.1
FOLR3	protein_coding	0.29	2.88	1.1E-20	2.1715E-17	0.1
SLC9A3	protein_coding	5	49.61	3.2E-14	6.4696E-11	0.1
TMEM8C	protein_coding	0.04	0.45	5.9E-06	0.0120708	0.1
SLC26A4	protein_coding	0.29	2.89	6.1E-09	1.2543E-05	0.1
TBL1Y	protein_coding	0.07	0.7	3.1E-12	6.3218E-09	0.1
DPP6	protein_coding	0.12	1.23	2.7E-14	5.5557E-11	0.1
RP11-21A7A.4	antisense	0.03	0.34	5.9E-12	1.2123E-08	0.1
TDGF1	protein_coding	0.48	4.75	5.6E-10	1.1355E-06	0.1
KRT40	protein_coding	0.01	0.14	4.2E-06	0.00846824	0.1
RP11-366L20.2	antisense	0.03	0.3	6.1E-16	1.2545E-12	0.1
SULT2B1	protein_coding	0.3	2.99	1.4E-06	0.00291441	0.1
TFCP2L1	protein_coding	3.76	36.61	2.9E-42	5.8761E-39	0.1
RP11-536C5.2	antisense	0.02	0.19	1.8E-15	3.6531E-12	0.1
LINC00443	lincRNA	0.02	0.25	1E-18	2.0862E-15	0.1

RP11-734K21.5	lincRNA	0.04	0.38	1.7E-18	3.4086E-15	0.1
RP11-513O17.2	lincRNA	0.2	1.95	1E-23	2.1171E-20	0.1
RP11-789C1.1	lincRNA	0.3	2.93	1.8E-22	3.7262E-19	0.1
ESRP1	protein_coding	0.76	7.36	1.9E-25	3.8628E-22	0.1
SRGAP3-AS4	lincRNA	0.03	0.33	6.3E-13	1.2774E-09	0.1
TMEM178A	protein_coding	1.07	10.36	5.4E-23	1.092E-19	0.1
C15orf56	antisense	0.08	0.84	1E-15	2.1192E-12	0.1
RP11-168L22.2	lincRNA	0.01	0.12	1.2E-05	0.02448488	0.1
FLJ22763	lincRNA	0.16	1.61	1.3E-08	2.7001E-05	0.1
SLC34A3	protein_coding	0.73	6.99	1.7E-08	3.4333E-05	0.1
RP11-321G12.1	lincRNA	0.16	1.61	9.4E-12	1.9143E-08	0.1
MYBPH	protein_coding	0.07	0.7	2.4E-13	4.9853E-10	0.1
SCHLAP1	lincRNA	0.01	0.15	3.2E-15	6.5693E-12	0.1
C7	protein_coding	19.88	189.01	2.1E-15	4.3364E-12	0.1
C1orf64	protein_coding	0.04	0.41	3.6E-17	7.4158E-14	0.1
HS3ST5	protein_coding	0.02	0.21	0.03666	74.7762153	0.1
AIF1L	protein_coding	23.9	225.76	1.4E-22	2.8214E-19	0.1
RP11-360O19.4	antisense	0.01	0.12	3.4E-11	7.0227E-08	0.1
L1CAM	protein_coding	2.2	20.67	3E-17	6.103E-14	0.1
SLC9A2	protein_coding	0.42	4.01	8E-27	1.6249E-23	0.1
APELA	protein_coding	0.07	0.72	7E-13	1.4251E-09	0.1
ENTPD3	protein_coding	0.1	0.98	6.3E-15	1.2943E-11	0.1
CTXN3	protein_coding	1.24	11.62	9.4E-10	1.9093E-06	0.1
KCNK10	protein_coding	0.07	0.65	3.5E-10	7.0493E-07	0.1
RP11-266E6.3	lincRNA	0.03	0.34	4.6E-10	9.4145E-07	0.1
ACSF2	protein_coding	2.63	24.56	1.2E-10	2.5392E-07	0.1
FAM169A	protein_coding	0.26	2.46	8.7E-13	1.7677E-09	0.1
RP11-113O24.3	lincRNA	0.07	0.72	1.7E-08	3.5066E-05	0.1
TCEAL6	protein_coding	0.02	0.2	1E-07	0.00020758	0.1
RP11-536I6.2	lincRNA	0.34	3.17	1.1E-07	0.00022957	0.1
RP4-655J12.5	lincRNA	0.01	0.14	1.7E-12	3.4156E-09	0.1
TMEM213	protein_coding	6.97	63.79	1.9E-31	3.873E-28	0.1
CTC-340D7.1	lincRNA	0.01	0.14	1.5E-14	3.0996E-11	0.1
AC004901.1	lincRNA	0.05	0.54	2.2E-17	4.4106E-14	0.11
PCAT14	lincRNA	0.01	0.11	9.2E-06	0.01882985	0.11
SLC30A8	protein_coding	0.07	0.68	2.5E-08	5.1017E-05	0.11
PCDH9	protein_coding	0.08	0.81	1.2E-26	2.3825E-23	0.11
PTH1R	protein_coding	7.75	70.04	3.2E-14	6.5905E-11	0.11
KSR2	protein_coding	0.09	0.85	4.5E-20	9.1501E-17	0.11
AMPH	protein_coding	0.19	1.71	6.1E-12	1.254E-08	0.11
GATA3	protein_coding	2.68	24.18	7.3E-25	1.4834E-21	0.11
CTD-2004A9.1	lincRNA	0.66	5.99	1.5E-08	3.107E-05	0.11
DAO	protein_coding	1.33	12.01	7.5E-10	1.5334E-06	0.11
SCN2A	protein_coding	0.1	0.95	5.6E-26	1.1325E-22	0.11
FOXJ1	protein_coding	0.27	2.44	1.1E-14	2.3268E-11	0.11
FGF9	protein_coding	0.97	8.68	1.1E-20	2.3215E-17	0.11
DACH2	protein_coding	0.02	0.23	6.9E-17	1.4099E-13	0.11
TMEM61	protein_coding	0.77	6.88	2.8E-18	5.6592E-15	0.11
TAGLN3	protein_coding	0.25	2.25	8.4E-19	1.7203E-15	0.11
NR0B2	protein_coding	1.37	12.11	3.2E-11	6.4351E-08	0.11

AC103563.8	antisense	0.56	4.95	7.8E-16	1.5861E-12	0.11
EPGN	protein_coding	0.04	0.37	0.02741	55.9235953	0.11
SOWAHA	protein_coding	0.58	5.13	1.1E-30	2.3163E-27	0.11
PAPPA	protein_coding	0.49	4.34	1E-23	2.0672E-20	0.11
ODAM	protein_coding	0.1	0.94	6.5E-12	1.3358E-08	0.11
ALX1	protein_coding	0.18	1.62	1E-05	0.02077338	0.11
RNF150	protein_coding	0.94	8.22	1.1E-23	2.3164E-20	0.11
GUCA1C	protein_coding	0.04	0.38	1.2E-14	2.3632E-11	0.11
BMP7	protein_coding	0.35	3.12	1.8E-22	3.5733E-19	0.11
SLC16A5	protein_coding	2.41	21.05	5.5E-12	1.1192E-08	0.11
AC105398.3	antisense	0.04	0.38	3.4E-08	6.9389E-05	0.11
AC016735.2	lincRNA	0.03	0.34	2.3E-06	0.00474094	0.11
ESRRG	protein_coding	1.09	9.52	1E-32	2.1236E-29	0.11
SLC22A7	protein_coding	1.21	10.45	6.8E-09	1.3892E-05	0.11
CYP1A1	protein_coding	0.1	0.9	0.00042	0.85144814	0.11
GRIK5	protein_coding	0.44	3.79	7.6E-30	1.5486E-26	0.11
CBLN2	protein_coding	0.06	0.54	1.5E-06	0.00299717	0.11
PTPRO	protein_coding	1.32	11.31	8.9E-12	1.8232E-08	0.11
PLG	protein_coding	3.19	27.33	5.3E-08	0.00010737	0.11
SLC52A3	protein_coding	0.87	7.49	1.2E-23	2.5198E-20	0.11
CHRNA4	protein_coding	0.03	0.32	3.4E-09	6.8944E-06	0.11
AC005082.12	lincRNA	0.73	6.22	1.8E-15	3.7415E-12	0.11
SIM1	protein_coding	1.14	9.75	7.5E-17	1.5343E-13	0.11
RASSF10	protein_coding	0.39	3.33	3.8E-24	7.7886E-21	0.11
DEGS2	protein_coding	0.75	6.37	7.1E-10	1.4533E-06	0.11
RP11-117L5.4	lincRNA	0.01	0.13	1.9E-13	3.9294E-10	0.11
RP11-51G5.1	lincRNA	0.02	0.18	0.00505	10.3106297	0.11
RP13-650J16.1	antisense	0.07	0.6	5.2E-15	1.0534E-11	0.11
GJA8	protein_coding	0.02	0.19	7.2E-11	1.4638E-07	0.11
TCEAL2	protein_coding	0.76	6.42	1.1E-20	2.1953E-17	0.11
SCNN1A	protein_coding	7.92	66.1	2.6E-29	5.324E-26	0.11
RP11-794G24.1	lincRNA	0.01	0.13	3.6E-14	7.3557E-11	0.12
MTURN	protein_coding	5	41.56	1.2E-23	2.4785E-20	0.12
SLC15A2	protein_coding	0.7	5.88	1.7E-32	3.4151E-29	0.12
RP3-368B9.2	lincRNA	0.06	0.51	3.3E-09	6.7125E-06	0.12
CTD-2231H16.1	lincRNA	0.11	0.95	3.6E-07	0.00073202	0.12
MYOZ2	protein_coding	0.04	0.41	1.4E-16	2.9186E-13	0.12
LINC00845	lincRNA	0.06	0.54	8.7E-10	1.7705E-06	0.12
NMUR2	protein_coding	0.03	0.29	4.4E-06	0.00888044	0.12
C16orf89	protein_coding	1.89	15.6	1.2E-14	2.4593E-11	0.12
DLK1	protein_coding	0.03	0.26	0.0023	4.68744089	0.12
TMEM30B	protein_coding	1.96	16.07	1E-23	2.1262E-20	0.12
RP11-354P11.2	antisense	0.44	3.64	1E-28	2.0558E-25	0.12
TMEM72	protein_coding	7.29	59.51	2.5E-22	5.0211E-19	0.12
AP000345.1	lincRNA	0.04	0.33	3.6E-07	0.00073541	0.12
NDST3	protein_coding	0.03	0.27	8.5E-20	1.7255E-16	0.12
CCDC181	protein_coding	0.25	2.02	5.1E-38	1.047E-34	0.12
LINC01561	lincRNA	0.04	0.33	5.1E-21	1.0448E-17	0.12
ATP6V1B1	protein_coding	6.41	51.75	4.6E-20	9.4193E-17	0.12
AC124861.1	lincRNA	0.03	0.26	8.7E-08	0.00017709	0.12

PLA2R1	protein_coding	1.26	10.19	6.3E-12	1.2874E-08	0.12
LINC00864	lincRNA	0.31	2.52	5.8E-20	1.1747E-16	0.12
RPS6KA6	protein_coding	0.6	4.8	1.7E-28	3.4082E-25	0.12
AE000662.93	lincRNA	0.06	0.53	8.8E-17	1.802E-13	0.12
WNT7A	protein_coding	0.04	0.39	1.4E-12	2.8411E-09	0.12
TAC1	protein_coding	0.1	0.85	0.0002	0.41258838	0.12
REEP6	protein_coding	1.09	8.74	1.3E-13	2.557E-10	0.12
SLC14A1	protein_coding	1.57	12.47	2.9E-09	5.975E-06	0.12
FOXA3	protein_coding	0.2	1.64	3E-13	6.0612E-10	0.12
RP11-834C11.5	lincRNA	0.06	0.51	2.1E-17	4.2834E-14	0.12
USP44	protein_coding	0.08	0.66	1.3E-18	2.6282E-15	0.12
RP11-44F14.2	lincRNA	0.16	1.26	1.4E-17	2.9274E-14	0.12
RNF223	protein_coding	0.04	0.35	9.7E-08	0.00019876	0.12
CLDN14	protein_coding	0.42	3.29	1.1E-08	2.282E-05	0.12
SLC5A11	protein_coding	0.18	1.47	7.5E-09	1.5247E-05	0.12
ABAT	protein_coding	2.42	18.92	1.6E-11	3.2303E-08	0.12
RSPO1	protein_coding	0.02	0.21	9.3E-08	0.00018951	0.12
RP13-895J2.6	lincRNA	0.66	5.18	8.6E-20	1.7646E-16	0.12
RP11-415C15.1	lincRNA	0.02	0.17	3.1E-08	6.2525E-05	0.12
PRRG2	protein_coding	0.89	6.95	1.2E-36	2.4747E-33	0.12
NCCRP1	protein_coding	0.2	1.6	1.1E-10	2.3121E-07	0.12
HSD11B2	protein_coding	25.24	195.38	1.5E-30	3.0858E-27	0.12
TTC36	protein_coding	0.36	2.79	4.3E-12	8.8405E-09	0.12
KIAA2022	protein_coding	0.1	0.79	1.2E-29	2.5231E-26	0.12
RP11-77I22.2	lincRNA	0.01	0.14	5.5E-11	1.1184E-07	0.13
OXGR1	protein_coding	0.34	2.63	4.4E-17	8.9732E-14	0.13
VWA2	protein_coding	0.14	1.08	2.3E-13	4.6762E-10	0.13
RP11-728F11.4	antisense	1	7.71	2.3E-30	4.7258E-27	0.13
C1orf116	protein_coding	0.81	6.23	5.9E-26	1.2109E-22	0.13
ALDH6A1	protein_coding	8.59	65.78	2.6E-13	5.3704E-10	0.13
CCNI2	protein_coding	0.18	1.42	1.1E-11	2.1438E-08	0.13
RP11-524H19.2	antisense	0.07	0.55	9.7E-16	1.9737E-12	0.13
EPCAM	protein_coding	18.89	143.21	1.7E-27	3.5389E-24	0.13
RP11-5P4.1	lincRNA	0.02	0.18	3.6E-12	7.3831E-09	0.13
LYPD6B	protein_coding	0.45	3.4	8.5E-14	1.735E-10	0.13
MPP7	protein_coding	1.3	9.88	3.7E-22	7.617E-19	0.13
GJA3	protein_coding	0.08	0.63	1.7E-10	3.3744E-07	0.13
RP11-879F14.1	lincRNA	0.04	0.34	4.9E-08	0.00010056	0.13
RP11-94C24.13	lincRNA	0.06	0.45	9.1E-10	1.8573E-06	0.13
RP11-457K10.1	lincRNA	0.05	0.42	2.6E-09	5.3402E-06	0.13
AC123023.1	lincRNA	0.01	0.1	6E-10	1.2189E-06	0.13
RP11-563M4.1	lincRNA	0.05	0.38	1.1E-20	2.3199E-17	0.13
SEMA3B-AS1	antisense	0.77	5.82	3.5E-18	7.0854E-15	0.13
CEL	protein_coding	0.49	3.74	6.4E-13	1.3142E-09	0.13
TJP3	protein_coding	0.6	4.55	1.2E-23	2.4141E-20	0.13
RP11-754N21.1	lincRNA	0.04	0.33	1.4E-09	2.9172E-06	0.13
SEMA6D	protein_coding	1.21	9.07	1.2E-17	2.3746E-14	0.13
TRPM6	protein_coding	0.14	1.05	7.8E-09	1.5813E-05	0.13
MAP3K15	protein_coding	0.18	1.38	2E-27	4.1003E-24	0.13
MTNR1A	protein_coding	0.08	0.62	1.7E-12	3.4235E-09	0.13

HTR3B	protein_coding	0.02	0.17	2.3E-11	4.6168E-08	0.13
RIMBP2	protein_coding	0.09	0.7	4.4E-15	9.0201E-12	0.13
AC011516.2	lincRNA	0.04	0.31	0.01849	37.7197813	0.13
PIPOX	protein_coding	3.41	25.39	4E-10	8.1652E-07	0.13
CAPSL	protein_coding	0.07	0.58	2.4E-16	4.7996E-13	0.13
LINC00051	antisense	0.01	0.11	2.8E-07	0.00056821	0.13
RP11-167N24.6	lincRNA	0.01	0.1	3.6E-06	0.00729672	0.13
RDH8	protein_coding	0.1	0.76	0.00016	0.32636088	0.13
PDE1A	protein_coding	3.36	24.79	1E-20	2.0769E-17	0.13
RP11-211N11.5	antisense	0.11	0.83	1.5E-11	3.056E-08	0.13
CALCA	protein_coding	1.13	8.31	2.5E-05	0.05198926	0.13
RP4-763G1.2	lincRNA	0.32	2.37	1.6E-10	3.2448E-07	0.13
NKD1	protein_coding	0.12	0.89	1.3E-17	2.6858E-14	0.13
MRO	protein_coding	0.87	6.34	7.1E-09	1.445E-05	0.13
RP1-154K9.2	lincRNA	0.06	0.5	1E-13	2.0609E-10	0.13
RP11-362F19.1	lincRNA	0.17	1.25	1.2E-16	2.4761E-13	0.13
FAM222A	protein_coding	0.7	5.1	5.4E-21	1.106E-17	0.13
C10orf82	protein_coding	0.07	0.53	1.3E-18	2.6096E-15	0.13
GCGR	protein_coding	0.71	5.11	8.4E-21	1.7059E-17	0.13
CTD-2315E11.1	lincRNA	0.17	1.27	4.9E-18	1.0029E-14	0.13
CPAMD8	protein_coding	0.81	5.82	5E-13	1.0136E-09	0.14
CTD-2227I18.1	lincRNA	0.02	0.18	1.5E-11	3.1509E-08	0.14
RP11-78C3.1	lincRNA	0.05	0.36	2.2E-12	4.4334E-09	0.14
TDRD5	protein_coding	0.09	0.65	4.7E-21	9.5582E-18	0.14
SOSTDC1	protein_coding	2.12	15.13	4.2E-19	8.5114E-16	0.14
ARL4D	protein_coding	4.46	31.62	1.9E-15	3.8273E-12	0.14
C1orf226	protein_coding	0.74	5.28	1.8E-32	3.6202E-29	0.14
FER1L6	protein_coding	0.15	1.07	3.1E-13	6.4132E-10	0.14
MAL2	protein_coding	12.58	88.45	6.2E-16	1.2639E-12	0.14
CRYAA	protein_coding	0.02	0.16	0.00064	1.302074	0.14
RIPPLY1	protein_coding	0.19	1.33	3.4E-14	6.8457E-11	0.14
PPP1R1A	protein_coding	6.88	48.28	4.3E-12	8.859E-09	0.14
CCDC185	protein_coding	0.01	0.1	8.2E-11	1.6742E-07	0.14
SH3GL2	protein_coding	0.94	6.61	2.5E-28	5.0295E-25	0.14
RP11-66B24.5	lincRNA	0.24	1.68	5.7E-13	1.1704E-09	0.14
CKM	protein_coding	0.12	0.86	4E-05	0.08243253	0.14
PGM5-AS1	lincRNA	0.03	0.27	4.7E-11	9.5605E-08	0.14
ATP1A1	protein_coding	89.95	625.51	2.2E-26	4.5501E-23	0.14
DNMT3L	protein_coding	0.02	0.15	6.8E-08	0.00013934	0.14
PCDHB1	protein_coding	0.03	0.22	1E-20	2.1192E-17	0.14
AC005281.2	antisense	0.21	1.49	6.6E-17	1.3559E-13	0.14
IGSF11	protein_coding	0.21	1.45	2.5E-12	5.1459E-09	0.14
SLC22A6	protein_coding	12.29	84.94	2.5E-08	5.1589E-05	0.14
NOS1AP	protein_coding	0.1	0.71	1.2E-30	2.5417E-27	0.14
CRB2	protein_coding	0.46	3.19	6.1E-11	1.2517E-07	0.14
RP5-1065P14.2	lincRNA	0.02	0.17	6.8E-09	1.3815E-05	0.14
RP11-445F12.2	antisense	0.03	0.2	1.2E-14	2.5356E-11	0.14
CTA-398F10.2	lincRNA	0.03	0.24	1.5E-06	0.00303879	0.14
SLC6A17	protein_coding	0.17	1.2	2.8E-19	5.7571E-16	0.14
CHST6	protein_coding	0.04	0.33	2.8E-06	0.00565138	0.14

CTSV	protein_coding	0.35	2.42	4.5E-10	9.2269E-07	0.14
AQP5	protein_coding	0.15	1.08	0.00211	4.29453025	0.14
RP11-354K4.2	lincRNA	0.02	0.17	5.1E-10	1.037E-06	0.14
RP11-675F6.3	lincRNA	0.17	1.19	2.9E-10	5.9592E-07	0.14
AC010884.1	antisense	0.09	0.63	1.9E-26	3.9619E-23	0.14
ATP4B	protein_coding	0.06	0.45	1.1E-13	2.1498E-10	0.14
AC096574.5	lincRNA	0.06	0.45	1.6E-12	3.1999E-09	0.14
PAH	protein_coding	5.27	35.73	4.3E-09	8.8317E-06	0.14
TUBB2B	protein_coding	0.67	4.53	8.5E-20	1.7247E-16	0.14
RP11-567M16.2	lincRNA	0.03	0.26	6.4E-10	1.2969E-06	0.14
PDILT	protein_coding	0.02	0.14	2E-10	4.026E-07	0.14
CPA1	protein_coding	0.02	0.19	1.5E-05	0.02964413	0.14
SLC22A13	protein_coding	0.6	4.05	7.6E-09	1.5485E-05	0.14
LYPD6	protein_coding	0.16	1.11	7.5E-24	1.5401E-20	0.14
GRIK2	protein_coding	0.05	0.33	2.4E-20	4.8339E-17	0.14
IGSF10	protein_coding	0.04	0.32	1.2E-11	2.4354E-08	0.14
RP11-689K5.3	lincRNA	0.07	0.51	1.2E-12	2.4502E-09	0.14
AC013463.2	antisense	0.29	2	1E-27	2.0918E-24	0.14
PM20D1	protein_coding	0.28	1.9	1.2E-06	0.00242668	0.15
PLEKHD1	protein_coding	0.06	0.45	1.8E-16	3.6397E-13	0.15
AC099684.1	antisense	0.03	0.23	3.6E-08	7.2572E-05	0.15
FGFBP1	protein_coding	0.11	0.77	2.5E-05	0.05191228	0.15
RP1-78O14.1	lincRNA	0.26	1.73	5.9E-10	1.2066E-06	0.15
AC026167.1	lincRNA	0.03	0.23	2.4E-11	4.9885E-08	0.15
FP325317.1	protein_coding	0.02	0.17	1.8E-08	3.6366E-05	0.15
RP11-475O23.2	antisense	0.16	1.06	1.4E-08	2.8858E-05	0.15
ADH1B	protein_coding	2.81	18.63	9.5E-12	1.9467E-08	0.15
PCK1	protein_coding	21.35	140.64	7.6E-09	1.5482E-05	0.15
RP11-180C16.1	antisense	0.06	0.42	1.2E-10	2.5456E-07	0.15
RRS1-AS1	lincRNA	0.02	0.17	4.2E-19	8.5839E-16	0.15
LINC01544	lincRNA	0.02	0.16	3.2E-06	0.00647879	0.15
AC022431.2	protein_coding	0.29	1.91	1.8E-10	3.6677E-07	0.15
GPR98	protein_coding	0.11	0.78	9.1E-17	1.859E-13	0.15
ASPDH	protein_coding	1.77	11.61	3.8E-10	7.8536E-07	0.15
MAGEE2	protein_coding	0.02	0.15	4.2E-20	8.5616E-17	0.15
SLC4A8	protein_coding	0.12	0.78	1.4E-12	2.8797E-09	0.15
PLS3-AS1	antisense	0.1	0.67	4.6E-20	9.3335E-17	0.15
FBXO2	protein_coding	1.87	12.06	1.4E-12	2.7785E-09	0.15
RP11-404P21.3	antisense	0.36	2.33	5.3E-16	1.0746E-12	0.15
RAP1GAP	protein_coding	8.18	52.45	3.7E-14	7.4682E-11	0.15
LRRC52	protein_coding	0.08	0.54	1.1E-05	0.02225446	0.15
LAD1	protein_coding	3.7	23.6	3.1E-36	6.2755E-33	0.15
DUSP26	protein_coding	0.21	1.39	1.9E-18	3.9233E-15	0.15
NYAP1	protein_coding	0.08	0.55	4E-08	8.1769E-05	0.15
LINC00284	lincRNA	0.28	1.83	1.9E-07	0.00038301	0.15
ZNF804B	protein_coding	0.04	0.3	1.2E-08	2.4506E-05	0.15
AC011239.1	antisense	0.03	0.19	4.2E-07	0.00086279	0.15
SPRR1A	protein_coding	0.08	0.52	0.20097	409.970208	0.15
CTA-941F9.9	antisense	0.18	1.15	1.4E-07	0.00029009	0.15
FAM81A	protein_coding	0.55	3.51	1.6E-20	3.2771E-17	0.15

ANGPTL1	protein_coding	1.13	7.12	8.8E-24	1.787E-20	0.15
ASS1	protein_coding	45.23	283.56	3.6E-10	7.2778E-07	0.15
RP11-370F5.4	lincRNA	0.06	0.43	1.6E-10	3.1952E-07	0.15
KCNK13	protein_coding	0.78	4.91	2.1E-17	4.338E-14	0.15
EFHD1	protein_coding	14.85	92.68	1.7E-35	3.5255E-32	0.16
CNKSR1	protein_coding	0.43	2.7	2.6E-22	5.3261E-19	0.16
LGR5	protein_coding	0.11	0.7	4.7E-06	0.00955289	0.16
DNER	protein_coding	1.48	9.23	2.7E-26	5.4085E-23	0.16
RP11-392O17.1	lincRNA	0.07	0.48	2.6E-07	0.00053039	0.16
ITGB6	protein_coding	3.61	22.45	2.9E-06	0.00589636	0.16
CTB-1I21.1	lincRNA	0.02	0.17	4.7E-05	0.09526625	0.16
NUDT10	protein_coding	0.24	1.51	8.7E-16	1.7691E-12	0.16
LA16c-329F2.1	antisense	1.57	9.78	3.1E-20	6.382E-17	0.16
PLCL1	protein_coding	2.48	15.41	3.5E-29	7.2081E-26	0.16
UPK1A	protein_coding	0.15	0.92	0.13793	281.369148	0.16
MFI2	protein_coding	1.1	6.8	1.7E-06	0.00345053	0.16
PPAPDC1A	protein_coding	0.6	3.7	1.5E-29	3.1134E-26	0.16
HMGCS2	protein_coding	17.08	104.86	5.4E-05	0.11006833	0.16
VSIG8	protein_coding	0.14	0.89	2E-10	4.0966E-07	0.16
RP4-737E23.2	lincRNA	0.06	0.37	1.5E-15	2.9698E-12	0.16
VAT1L	protein_coding	1.02	6.21	5.4E-08	0.00010969	0.16
EMX1	protein_coding	2.13	12.98	2.4E-26	4.9102E-23	0.16
AP1M2	protein_coding	5.81	35.29	2.4E-32	4.884E-29	0.16
PNMT	protein_coding	0.1	0.66	1E-08	2.1067E-05	0.16
ADAMTS16	protein_coding	0.52	3.19	1.5E-16	3.0798E-13	0.16
AC027119.1	lincRNA	0.03	0.22	2.2E-09	4.4478E-06	0.16
FAM46B	protein_coding	0.93	5.63	1.4E-06	0.00292035	0.16
MUC6	protein_coding	0.09	0.57	2.8E-06	0.00572526	0.16
AC144831.3	lincRNA	0.69	4.23	4.5E-18	9.2265E-15	0.16
PCP4	protein_coding	2.86	17.32	4.9E-11	9.9904E-08	0.16
RP11-44F14.8	lincRNA	0.14	0.85	1.2E-23	2.524E-20	0.16
PLA2G4F	protein_coding	0.96	5.79	2.5E-30	5.1038E-27	0.16
RBM11	protein_coding	0.16	0.99	5.3E-21	1.0841E-17	0.16
RP11-363J20.1	lincRNA	0.03	0.22	4.7E-12	9.6536E-09	0.16
C5orf38	protein_coding	0.48	2.89	4.6E-15	9.3696E-12	0.16
CAMK2A	protein_coding	0.05	0.35	2.1E-10	4.2185E-07	0.16
MECOM	protein_coding	4.18	25.01	2.1E-28	4.2506E-25	0.16
GALNT3	protein_coding	1.35	8.11	2.1E-17	4.3154E-14	0.16
AC144831.1	lincRNA	0.52	3.1	3.8E-16	7.8429E-13	0.16
GPR123	protein_coding	0.01	0.1	5.9E-10	1.1994E-06	0.16
MMP3	protein_coding	0.13	0.77	0.31114	634.718656	0.16
HOXB-AS3	antisense	0.92	5.48	1.5E-25	2.9879E-22	0.16
RP11-671P2.1	antisense	0.04	0.27	5.4E-11	1.0948E-07	0.16
RASD1	protein_coding	19.89	117.34	7.3E-14	1.4921E-10	0.16
AC103563.9	antisense	0.27	1.6	3E-10	6.0182E-07	0.16
U47924.27	lincRNA	0.45	2.67	4.7E-14	9.6142E-11	0.16
AGTR2	protein_coding	0.02	0.15	3.2E-05	0.06591362	0.16
SFTA2	protein_coding	0.47	2.78	5.9E-08	0.00012035	0.17
PPP1R36	protein_coding	0.24	1.41	1E-11	2.0561E-08	0.17
DNASE1	protein_coding	1.09	6.4	1.7E-14	3.5642E-11	0.17

RP11-401P9.4	lincRNA	0.17	1.02	1.4E-11	2.8344E-08	0.17
MPPED2	protein_coding	0.55	3.22	3.1E-21	6.403E-18	0.17
AC093326.1	lincRNA	1	5.85	1.5E-07	0.0003088	0.17
CPNE4	protein_coding	0.04	0.28	2E-10	4.1138E-07	0.17
CNGA1	protein_coding	0.52	3.05	1.4E-08	2.8375E-05	0.17
DCN	protein_coding	6.3	36.66	8.6E-18	1.754E-14	0.17
ROS1	protein_coding	0.07	0.42	2.7E-05	0.05547294	0.17
RNF43	protein_coding	0.59	3.47	2.7E-21	5.5519E-18	0.17
DLGAP2	protein_coding	0.03	0.19	6.1E-11	1.2541E-07	0.17
ETNPPL	protein_coding	0.2	1.19	1.8E-06	0.0036211	0.17
RP11-480I12.7	lincRNA	0.09	0.54	1.4E-09	2.816E-06	0.17
NUPR1L	protein_coding	1.23	7.14	2.2E-19	4.5875E-16	0.17
RP1-206D15.6	lincRNA	0.3	1.76	1.4E-21	2.9482E-18	0.17
RP1-168L15.5	antisense	0.07	0.42	6.9E-13	1.409E-09	0.17
ADH6	protein_coding	1.57	9.06	7.8E-10	1.5825E-06	0.17
SPTB	protein_coding	0.14	0.84	5.6E-20	1.1325E-16	0.17
LSAMP	protein_coding	0.2	1.2	4.3E-11	8.7672E-08	0.17
AGPAT9	protein_coding	5.31	30.52	2.5E-19	5.1212E-16	0.17
RP11-475O23.3	antisense	0.13	0.77	1.9E-12	3.9769E-09	0.17
RP5-881L22.5	antisense	0.05	0.28	1.4E-06	0.00281272	0.17
RP11-659E9.2	antisense	0.01	0.1	5.6E-09	1.1339E-05	0.17
CNTN5	protein_coding	0.03	0.18	2.9E-15	5.9868E-12	0.17
PWRN1	lincRNA	0.04	0.23	1.4E-10	2.9243E-07	0.17
ERMP1	protein_coding	7.71	44.08	1.3E-14	2.7457E-11	0.17
FSTL4	protein_coding	0.18	1.05	2.5E-18	5.0349E-15	0.17
AC213203.1	protein_coding	0.18	1.02	2.1E-09	4.2505E-06	0.17
NAV2-AS3	antisense	0.07	0.42	2.8E-09	5.6406E-06	0.17
LRP1B	protein_coding	0.03	0.21	8.4E-22	1.7083E-18	0.17
GREM1	protein_coding	0.34	1.95	0.01131	23.0773808	0.17
PADI2	protein_coding	2.39	13.51	6.5E-11	1.3248E-07	0.17
POU3F4	protein_coding	0.13	0.78	9.1E-07	0.00186477	0.17
CCL11	protein_coding	0.39	2.23	3.2E-10	6.5371E-07	0.17
PLXNA4	protein_coding	0.17	0.98	1.3E-06	0.00255195	0.17
CTD-2377O17.1	antisense	0.15	0.88	2E-15	4.0133E-12	0.17
RP11-463J17.2	lincRNA	0.06	0.34	3.7E-06	0.00746608	0.17
CLDN11	protein_coding	0.37	2.09	7.6E-11	1.5523E-07	0.17
WT1-AS	antisense	0.06	0.34	3.3E-12	6.79E-09	0.17
LMO7-AS1	antisense	0.64	3.59	1.7E-13	3.4093E-10	0.17
PSAT1	protein_coding	7.67	42.83	8.4E-10	1.7152E-06	0.17
ZNF728	protein_coding	0.08	0.46	7.6E-15	1.5533E-11	0.17
WT1	protein_coding	0.96	5.36	4.1E-11	8.4598E-08	0.17
CTC-498J12.1	lincRNA	0.15	0.85	1.4E-11	2.9387E-08	0.17
LINC01497	lincRNA	0.03	0.16	0.19477	397.332917	0.18
RP11-881M11.1	antisense	0.02	0.16	2E-07	0.00039868	0.18
RP11-552E20.1	lincRNA	0.13	0.75	1.3E-13	2.7473E-10	0.18
SRGAP3	protein_coding	0.27	1.54	2.5E-16	5.091E-13	0.18
RP11-536G4.2	antisense	0.03	0.18	1.1E-05	0.02279918	0.18
DTX1	protein_coding	1.01	5.57	4.2E-14	8.5631E-11	0.18
RP11-120K24.3	lincRNA	0.15	0.85	1.3E-22	2.5956E-19	0.18
RP11-480D4.2	lincRNA	0.1	0.59	2.8E-18	5.6561E-15	0.18

LRRN2	protein_coding	1.12	6.19	4.8E-19	9.8472E-16	0.18
DOK7	protein_coding	0.21	1.19	6.4E-12	1.315E-08	0.18
CLDN10-AS1	antisense	0.25	1.41	9.1E-14	1.8664E-10	0.18
RP11-384F7.2	lincRNA	0.03	0.17	9.6E-12	1.9591E-08	0.18
RP11-554A11.9	antisense	0.63	3.49	7.1E-05	0.14462592	0.18
SHISA2	protein_coding	0.7	3.82	1.5E-12	2.9964E-09	0.18
CGN	protein_coding	2.4	13.05	1.5E-30	3.0763E-27	0.18
NR1I3	protein_coding	0.19	1.08	2.7E-10	5.5681E-07	0.18
RP11-26E5.1	lincRNA	0.03	0.16	3.9E-06	0.00785472	0.18
LINC01224	lincRNA	0.05	0.31	8.7E-07	0.00176798	0.18
CTC-273B12.10	lincRNA	0.07	0.41	4.7E-12	9.6325E-09	0.18
CCSER1	protein_coding	0.2	1.12	1.4E-32	2.7816E-29	0.18
RXFP4	protein_coding	0.03	0.19	1.2E-09	2.4741E-06	0.18
FAM83E	protein_coding	0.09	0.5	0.00065	1.31667432	0.18
CDH16	protein_coding	62.59	336.01	1.4E-26	2.8197E-23	0.18
MUC13	protein_coding	1.28	6.88	0.00148	3.0269637	0.18
HPSE2	protein_coding	0.16	0.87	6.9E-06	0.01401686	0.18
RP3-466P17.1	lincRNA	0.1	0.55	8.5E-15	1.7362E-11	0.18
FOXN1	protein_coding	0.02	0.15	2.4E-08	4.9894E-05	0.18
COBLL1	protein_coding	3.9	20.85	5E-23	1.0132E-19	0.18
DIRAS1	protein_coding	0.47	2.54	1.5E-23	3.0305E-20	0.18
PP7080	antisense	7.36	39.25	2E-14	4.1796E-11	0.18
PMP2	protein_coding	0.02	0.13	0.0019	3.88454599	0.18
GMPR	protein_coding	3.43	18.32	5E-17	1.022E-13	0.18
PKHD1L1	protein_coding	0.02	0.13	1.5E-07	0.00030052	0.18
C10orf55	protein_coding	0.14	0.75	1.5E-10	3.0976E-07	0.18
RP11-396O20.1	lincRNA	1.33	7.09	4.9E-07	0.00099075	0.18
DDX25	protein_coding	0.05	0.29	3.4E-26	6.9133E-23	0.18
PLEKHB1	protein_coding	1.21	6.45	6.8E-20	1.3956E-16	0.18
TNS4	protein_coding	0.18	0.99	7.6E-15	1.5489E-11	0.18
LINGO2	protein_coding	0.05	0.3	2.1E-19	4.3482E-16	0.18
MESTIT1	antisense	0.02	0.14	5.8E-16	1.1869E-12	0.18
AGBL4	protein_coding	0.08	0.46	1.3E-31	2.7146E-28	0.18
MARVELD2	protein_coding	2.08	11.03	9.7E-24	1.9843E-20	0.18
TTC29	protein_coding	0.02	0.11	2.3E-07	0.00046554	0.18
NPY5R	protein_coding	0.27	1.42	1.8E-22	3.7053E-19	0.18
FMO5	protein_coding	1.31	6.9	1.9E-17	3.9059E-14	0.18
PNPLA1	protein_coding	0.3	1.62	1.6E-08	3.1731E-05	0.18
GLOD5	protein_coding	0.59	3.12	6.1E-19	1.254E-15	0.19
UMODL1	protein_coding	0.02	0.11	1.3E-12	2.6541E-09	0.19
NDNF	protein_coding	4.22	22.13	2.2E-11	4.5895E-08	0.19
SERPINA4	protein_coding	0.65	3.43	1.5E-11	2.9698E-08	0.19
CWH43	protein_coding	1.01	5.3	7.3E-28	1.4918E-24	0.19
AC093627.11	lincRNA	0.02	0.13	0.00093	1.89747321	0.19
RP11-482D24.3	antisense	0.04	0.22	7.3E-17	1.4809E-13	0.19
RP11-297L17.2	lincRNA	0.4	2.12	2.8E-19	5.618E-16	0.19
AC007255.8	antisense	0.11	0.59	6.6E-21	1.3377E-17	0.19
SYNE4	protein_coding	0.45	2.34	4.7E-33	9.6037E-30	0.19
PDGFRA	protein_coding	1.37	7.12	1.3E-13	2.657E-10	0.19
CCDC160	protein_coding	0.9	4.68	9.9E-23	2.0177E-19	0.19

LYPLAL1-AS1	antisense	0.22	1.14	4E-17	8.1274E-14	0.19
GPR182	protein_coding	0.14	0.76	1.2E-22	2.3501E-19	0.19
KIRREL2	protein_coding	0.06	0.35	9.3E-11	1.8905E-07	0.19
BPI	protein_coding	0.08	0.41	5.7E-07	0.00115578	0.19
B4GALNT3	protein_coding	0.98	5.03	1.4E-25	2.799E-22	0.19
RP4-541C22.5	antisense	0.35	1.79	2.1E-15	4.2197E-12	0.19
MAP6	protein_coding	0.61	3.13	1.9E-31	3.939E-28	0.19
RP11-10L7.1	lincRNA	0.05	0.25	0.00031	0.62936369	0.19
ATP6V0A4	protein_coding	10.14	51.78	3.2E-26	6.4935E-23	0.19
KCNJ13	protein_coding	0.54	2.8	1.2E-11	2.444E-08	0.19
HAO2	protein_coding	12.14	61.89	4.7E-09	9.657E-06	0.19
CXCL17	protein_coding	0.06	0.33	0.11011	224.617416	0.19
OVOL1	protein_coding	0.6	3.05	5.8E-12	1.1876E-08	0.19
SLC25A47	protein_coding	0.05	0.27	1.5E-10	3.0601E-07	0.19
PEG3	protein_coding	0.54	2.74	1E-20	2.0923E-17	0.19
AC002401.1	antisense	0.65	3.29	7.5E-08	0.00015364	0.19
RP11-89K21.1	lincRNA	0.04	0.21	3.6E-08	7.3377E-05	0.19
RP11-849I19.1	lincRNA	0.24	1.22	5.3E-10	1.0802E-06	0.19
LINC01018	lincRNA	0.24	1.22	2E-12	4.0166E-09	0.19
CTB-49A3.4	antisense	0.13	0.68	7.9E-07	0.00161254	0.19
MOXD1	protein_coding	2.72	13.67	1.6E-09	3.2177E-06	0.19
SVOPL	protein_coding	0.1	0.52	1.3E-15	2.6199E-12	0.2
GLDC	protein_coding	3.37	16.84	3.4E-20	6.8531E-17	0.2
SALL3	protein_coding	0.12	0.61	6.6E-09	1.343E-05	0.2
OTOGL	protein_coding	0.24	1.2	0.00213	4.33709276	0.2
AFP	protein_coding	0.14	0.7	0.02371	48.3635873	0.2
SIX4	protein_coding	0.17	0.86	9.8E-25	1.9913E-21	0.2
VWA8-AS1	antisense	0.02	0.12	4.4E-14	8.9529E-11	0.2
CDH3	protein_coding	0.82	4.09	2.6E-18	5.268E-15	0.2
TPTEP1	lincRNA	0.36	1.81	2.8E-24	5.6117E-21	0.2
MCF2L-AS1	antisense	0.46	2.28	1.9E-34	3.8205E-31	0.2
LZTS3	protein_coding	2.8	13.89	1.5E-27	3.1353E-24	0.2
CLSTN2	protein_coding	0.86	4.27	4E-14	8.1274E-11	0.2
XAGE2B	protein_coding	0.04	0.22	2.7E-05	0.05532123	0.2
DACH1	protein_coding	1.25	6.19	9.9E-21	2.02E-17	0.2
RP4-555D20.4	lincRNA	0.06	0.34	3.7E-17	7.617E-14	0.2
COL4A5	protein_coding	1.21	6	1.7E-33	3.4442E-30	0.2
AKAP3	protein_coding	0.3	1.5	3.9E-24	7.9161E-21	0.2
KCNJ12	protein_coding	0.34	1.68	6E-16	1.2215E-12	0.2
AGMAT	protein_coding	12.05	59.33	1.2E-08	2.417E-05	0.2
SSC4D	protein_coding	0.58	2.9	9.1E-20	1.8596E-16	0.2
WSCD2	protein_coding	0.15	0.74	7.3E-20	1.4875E-16	0.2
LINC00885	lincRNA	0.14	0.7	2.4E-24	4.7984E-21	0.2

Supplementary Table S2: List of LncRNA correlating with immune genes

R Value	P Value	Immune gene name	LncRNA
0.9075609	0	IRF9	AC018766.6
0.895906325	0	IRF9	RP11-420A6.2
0.895319991	1.8728E-191	IRF9	PTOV1-AS2
0.894299997	2.2127E-190	IRF9	CTD-2537I9.18
0.89205818	4.6113E-188	IRF9	CTD-2527I21.7
0.891657667	0	IRF9	FGD5-AS1
0.891130573	0	IRF9	RP11-263K19.6
0.887681991	0	KDR	AC006126.3
0.8803026	0	IRF9	AC008268.1
0.87829987	0	IRF9	RP1-184J9.2
0.874434539	0	IRF9	RP11-521B24.3
0.874388234	0	IRF9	RP11-334C17.6
0.874381995	2.1074E-171	IRF9	RP13-516M14.2
0.866345494	1.2104E-164	IRF9	AC005237.4
0.863180505	4.2185E-162	IRF9	RP11-235E17.6
0.858353685	2.4094E-158	IRF9	CTB-39G8.2
0.857757695	6.8565E-158	IRF9	RP5-1142A6.10
0.856600725	0	IRF9	AC007036.6
0.856328652	0	IRF9	RP11-56D16.8
0.8555936	0	IRF9	RP3-508I15.14
0.855388144	0	IRF9	AC008746.12
0.853308794	0	IRF9	LINC00106
0.853190112	0	IRF9	RP5-1074L1.1
0.849832171	0	IRF9	RP11-518L10.5
0.84715243	3.8711E-150	IRF9	LINC01089
0.847077035	0	IRF9	RP5-1039K5.13
0.844382543	3.2783E-148	IRF9	RP13-49I15.6
0.844150523	4.736E-148	IRF9	CTD-2309O5.3
0.84338677	0	IRF9	MMP25-AS1
0.841544025	0	IRF9	RP4-734G22.3
0.841442687	3.3184E-146	IRF9	RP3-402G11.27
0.840544328	0	MSR1	RP11-625I7.1
0.840190716	2.3041E-145	IRF9	TP73-AS1
0.840038366	2.9135E-145	IRF9	RP11-307B6.3
0.839019798	1.3901E-144	IRF9	RP13-46H24.1
0.838981689	0	IRF9	RP11-10L7.1
0.838678847	0	IRF9	RP11-409I10.2
0.838278938	4.3022E-144	MASP2	RP11-110I1.12
0.836715753	0	IRF9	RP5-1132H15.1
0.836644893	0	IRF9	RP13-941N14.1
0.835732729	0	TNFRSF10A	RP11-875O11.3
0.835373577	0	TEK	AC006126.3
0.830905366	0	IRF9	RP11-1055B8.10

0.830007683	8.8768E-139	IRF9	RP11-309M23.1
0.829907519	1.0253E-138	LTB4R2	RP5-1142A6.10
0.829580523	1.6402E-138	IRF9	RP11-1072A3.4
0.829095816	0	IRF9	RP11-159D12.11
0.827970161	0	IRF9	IDH1-AS1
0.825993047	0	IRF9	RP11-473M20.5
0.824895585	0	IRF9	CTC-529I10.1
0.823853125	5.2454E-135	LTB4R2	AC005237.4
0.822262616	0	IRF9	CTC-215O4.4
0.822121199	0	ZAP70	LINC01424
0.821751491	9.4215E-134	LTB4R2	CTD-2537I9.18
0.821730066	0	IRF9	RP11-239E10.3
0.819771368	0	IRF9	CTD-2587H19.3
0.819315968	0	IRF9	CYP51A1-AS1
0.816657943	8.8462E-131	IRF9	AP006621.5
0.815434949	0	IRF9	RP11-403P17.4
0.815331198	0	IRF9	RP5-1182A14.5
0.814282396	2.0028E-129	IRF9	RP11-471B22.3
0.813691424	4.3218E-129	LTB4R2	AC008746.12
0.813474418	5.7283E-129	IRF9	OGFR-AS1
0.811348095	0	IRF9	CTD-3074O7.2
0.809348435	1.1335E-126	LTB4R2	LINC01089
0.806763605	2.915E-125	IRF9	RP11-631N16.2
0.806669653	0	HLA-F	HLA-DQB1-AS1
0.806088728	6.7505E-125	LTB4R2	RP11-263K19.6
0.805181854	2.0756E-124	IL1R2	AC092570.2
0.804201519	0	IRF9	SLC39A12-AS1
0.802884088	3.4807E-123	MASP2	AC015849.12
0.800644563	0	IRF9	GS1-124K5.4
0.800637515	0	IRF9	RP11-867O8.5
0.798118453	0	IRF9	RP11-325F22.2
0.79648897	0	CYBB	RP11-17G12.3
0.795416897	0	IRF9	CTD-2349P21.5
0.795247742	0	IRF9	RP11-420K8.1
0.795146301	3.5404E-119	CDH5	RP11-421L21.3
0.79345782	2.5152E-118	LTB4R2	CTD-2527I21.7
0.793455243	0	IRF9	CTB-131K11.1
0.793303443	0	CLEC7A	RP11-17G12.3
0.789805021	1.6436E-116	LTB4R2	PTOV1-AS2
0.789776953	0	C3AR1	RP11-625I7.1
0.789748154	0	IRF9	RP11-380O24.1
0.78909474	3.6692E-116	LTB4R2	AC018766.6
0.78879552	0	IRF9	KANTR
0.788458576	7.5128E-116	IRF9	RP11-227G15.2
0.788440461	0	IRF9	RP11-1070N10.3
0.787972935	0	IRF9	RP11-379C10.4

0.787297997	2.7595E-115	LTB4R2	RP11-518L10.5
0.787264135	2.866E-115	LTB4R2	RP13-49I15.6
			XX-
0.787262741	0	IRF9	C00717C00720L.1
0.786714101	5.2939E-115	LTB4R2	AC008268.1
0.78659764	0	DOCK2	RP11-17G12.3
0.786491919	0	HLA-DOB	RP11-689B22.2
0.784855797	4.1528E-114	MASP2	RP11-471B22.3
0.784693963	0	PSTPIP1	LINC01424
0.784624669	5.3577E-114	LTB4R2	RP13-516M14.2
0.784352024	7.233E-114	LTB4R2	CTB-39G8.2
0.784121315	9.321E-114	MASP2	RP5-1142A6.10
0.783782102	0	LTB4R	AC018766.6
0.783612641	1.6287E-113	LTB4R	RP13-516M14.2
0.783563155	0	IL11RA	RP11-56D16.8
0.78347206	0	IRF9	CTB-31O20.8
0.783269559	0	LTB4R	AC008268.1
0.783080245	0	CD3D	RP11-689B22.2
0.781257432	0	CSF1R	RP11-17G12.3
0.780798015	0	IL11RA	RP11-409I10.2
0.780666223	0	IRF9	RP11-429E11.2
0.780437954	0	CD27	RP11-689B22.2
0.780044031	7.8321E-112	LTB4R2	RP1-184J9.2
0.779422621	1.526E-111	LTB4R2	RP11-473M20.5
0.77931859	0	PDCD1	RP11-689B22.2
0.779139269	2.0669E-111	TAL1	LINC00176
0.778623233	3.5876E-111	IRF9	RP3-402G11.26
0.77850319	4.0778E-111	LTB4R	PTOV1-AS2
0.777882363	0	PSMB10	RP11-689B22.2
0.777172927	0	CYBB	RP11-625I7.1
0.776434069	3.6611E-110	IRF9	AC144568.2
0.776361786	0	CD84	RP11-17G12.3
0.776332682	4.0743E-110	LTB4R2	RP11-307B6.3
0.77625471	4.4234E-110	MASP2	AC092839.4
0.77571116	0	CD86	RP11-625I7.1
0.775460751	1.0197E-109	LTB4R	CTD-2537I9.18
0.774729267	2.1943E-109	MASP2	RP11-894P9.2
0.774536903	2.683E-109	LTB4R2	RP11-521B24.3
0.774132699	4.091E-109	LTB4R	CTD-2527I21.7
0.773936396	0	TYK2	AC018766.6
0.773852666	5.4768E-109	LTB4R	CTD-2309O5.3
0.773217335	0	IRF9	AC015849.12
0.773128286	0	LTB4R	AC008746.12
0.772874909	1.5118E-108	LTB4R2	RP11-420A6.2
0.772464136	2.3125E-108	LTB4R2	RP11-843P14.2
0.772270233	0	CD34	AC006126.3

0.771595094	5.6669E-108	LTB4R2	RP11-471B22.3
0.771203403	8.4768E-108	LTB4R	RP11-1072A3.4
0.770059754	2.7344E-107	LTB4R2	AP006621.5
0.769976483	0	IL11RA	FGD5-AS1
0.769477582	0	IL11RA	RP11-1055B8.10
0.76945424	0	PIK3CG	RP11-17G12.3
0.76940128	5.3502E-107	LTB4R2	CYP51A1-AS1
0.769082085	7.4017E-107	FYN	RP11-421L21.3
0.769053383	7.6207E-107	LTB4R2	AC015849.12
0.769021197	0	IL12RB1	RP11-689B22.2
0.768996415	0	LTB4R	RP11-473M20.5
0.768961477	0	CD2	RP11-689B22.2
0.768923053	0	IRF9	RP11-894P9.2
0.768166847	1.8718E-106	LTB4R2	RP11-309M23.1
0.768144434	1.9147E-106	CSF1R	AC068580.7
0.766620642	8.8869E-106	TYK2	PTOV1-AS2
0.765924643	0	LTB4R	RP1-184J9.2
0.765567916	0	LILRA1	RP11-17G12.3
0.765185726	0	IL11RA	AC018766.6
0.764876366	0	LAG3	RP11-689B22.2
0.764863406	0	IRF9	RP11-166O4.6
0.764624983	0	IL11RA	RP11-1070N10.3
0.764622058	6.5379E-105	IRF9	AC015922.6
0.76428998	9.0909E-105	IRF9	RP11-669E14.4
0.764120071	1.0759E-104	LTB4R2	RP5-1074L1.1
0.762894705	0	FCGR3A	RP11-625I7.1
0.762585572	0	BTK	RP11-17G12.3
0.762541086	0	TLR1	RP11-17G12.3
0.762422404	0	LTB4R	RP5-1132H15.1
0.762386231	5.9543E-104	LTB4R2	FGD5-AS1
0.762305996	0	CDH5	CTC-435M10.6
0.762148068	7.5232E-104	LTB4R2	CTD-2309O5.3
0.762138536	7.594E-104	IFNG	RP11-689B22.2
0.761773901	0	IRF9	RP11-452L6.8
0.761627709	0	IL11RA	RP11-420A6.2
0.760784283	0	PDGFB	AC006126.3
0.76077596	2.8791E-103	TYK2	RP13-49I15.6
0.760685298	3.1451E-103	MASP2	LINC00671
0.760406957	4.1242E-103	LTB4R2	RP5-1039K5.13
0.760082856	5.6518E-103	PDGFRB	RP11-672A2.5
0.760034301	0	IL3RA	CTC-435M10.6
0.75991418	0	LTB4R	RP11-334C17.6
0.759898037	0	LTB4R	RP11-263K19.6
0.759703167	8.1703E-103	LTB4R2	RP11-10L7.1
0.759678533	8.3678E-103	IL11RA	PTOV1-AS2
0.758218763	0	CD34	CTC-435M10.6

0.757992723	4.2614E-102	CD34	RP11-421L21.3
0.757606614	6.1751E-102	LTB4R2	RP5-1132H15.1
0.75719057	0	TRAF6	RP11-451B8.1
0.757038535	1.0644E-101	CD4	AC068580.7
0.756844605	0	IRF9	RP11-991C1.2
0.756536088	1.7208E-101	KLRK1	LINC01424
0.755754086	3.6257E-101	KLRK1	RP5-1074L1.1
0.755527969	0	C3AR1	RP11-17G12.3
0.755498792	0	IRF9	RP11-394O4.6
0.755253774	0	IL11RA	CTB-31O20.8
0.755111803	6.6728E-101	LTB4R2	RP11-159D12.11
0.755104703	0	IRF9	CNTN4-AS1
0.754951008	0	FASLG	RP11-689B22.2
0.754306218	0	IRF9	RP11-284H18.1
0.754292273	0	LTB4R	RP11-420A6.2
0.753982989	0	IL11RA	RP11-284H18.1
0.75387128	0	LTB4R	RP5-1074L1.1
0.753629522	0	IL11RA	RP11-263K19.6
0.753483956	3.1051E-100	LTB4R2	RP11-235E17.6
0.753031795	0	IRF9	RP4-665N4.8
0.752914984	5.2996E-100	LTB4R2	RP11-56D16.8
0.752852333	0	IRF9	CTD-2647E9.3
0.752800874	0	FCGR2A	RP11-625I7.1
0.752617395	0	TNFRSF9	RP11-689B22.2
0.752417925	0	C7	CTD-2536I1.3
0.752412451	8.4875E-100	LTA	RP11-689B22.2
0.752409286	0	CXCR3	RP11-689B22.2
0.752366391	0	LTB4R	RP3-508I15.14
0.752092358	1.145E-99	MASP2	AC009120.11
0.752036114	0	IL11RA	MMP25-AS1
0.751968512	0	IKBKB	RP5-1182A14.5
0.75158473	0	IL11RA	RP13-941N14.1
0.751446888	2.0912E-99	LTB4R2	RP11-669E14.4
0.751349338	0	CDH5	AC006126.3
0.750818394	3.7525E-99	LTB4R2	RP11-110I1.12
0.750695074	0	PLXNC1	RP11-625I7.1
0.750321751	0	IL11RA	RP4-734G22.3
0.749998915	8.022E-99	CD93	RP11-672A2.5
0.749689011	0	TNFRSF14	RP3-395M20.12
0.749298408	0	IRF9	RP11-792A8.4
0.749291284	0	IL2RG	RP11-689B22.2
0.748255664	0	CD33	RP11-17G12.3
0.74819458	0	CD84	RP11-625I7.1
0.747771086	0	TYK2	RP11-334C17.6
0.747543045	0	TYK2	RP11-473M20.5
0.747533334	7.75061E-98	MASP2	RP4-734G22.3

0.747269459	9.86464E-98	KLRK1	AP000221.1
0.746996867	1.26517E-97	LTB4R2	CTC-215O4.4
0.746896265	1.38675E-97	LTB4R	RP11-307B6.3
0.74688484	0	CD8B	RP11-689B22.2
0.746631818	1.76464E-97	INSR	RP11-421L21.3
0.746400338	0	LCK	RP11-689B22.2
0.745991409	3.15911E-97	ZEB1	RP11-672A2.5
0.745908909	3.40479E-97	MASP2	RP11-843P14.2
0.745903483	0	IL11RA	CTC-215O4.4
0.745135161	0	LTB4R	AC007036.6
0.744592531	0	LILRB4	RP11-625I7.1
0.744591622	0	BATF	RP11-689B22.2
0.744455055	0	LTB4R	CTD-2587H19.3
0.744336146	0	PSMB9	RP11-689B22.2
0.744080225	1.77757E-96	C1QC	AC068580.7
0.743697352	2.50798E-96	LAIR1	AC068580.7
0.743465209	0	ICAM2	CTC-435M10.6
0.743404088	3.26326E-96	KLRK1	RP1-184J9.2
0.743249673	0	PAFAH1B1	RP11-451B8.1
0.743050734	0	PAFAH1B1	RP5-906A24.2
0.743024133	0	CD3E	RP11-689B22.2
0.742749513	5.86508E-96	LTB4R2	AC009120.11
0.742725989	0	CCR1	RP11-625I7.1
0.742175666	9.79166E-96	CTLA4	AP000221.1
0.742142259	1.00878E-95	IRF9	CTD-2026K11.1
0.742038432	1.10662E-95	LTB4R2	RP11-334C17.6
0.742028224	0	IL11RA	RP11-380O24.1
0.741726803	1.46066E-95	IRF9	LINC01126
0.740895649	3.05644E-95	LTB4R2	LINC00106
0.740687085	3.67697E-95	TEK	RP11-672A2.5
0.739895699	7.40251E-95	MASP2	FGD5-AS1
0.739644152	9.24146E-95	LTB4R2	RP11-894P9.2
0.739516645	1.03405E-94	LTB4R	RP13-46H24.1
0.739426555	0	PSTPIP1	AP000221.1
0.739304463	0	IKKBK	MMP25-AS1
0.739244592	0	TNFSF8	RP11-17G12.3
0.738940741	1.71635E-94	LTB4R2	GS1-124K5.4
0.738798589	0	IRF9	ZNF205-AS1
0.738721666	0	LTB4R	RP13-941N14.1
0.738721471	2.08085E-94	LTB4R2	RP3-402G11.27
0.738514542	0	CD96	RP11-689B22.2
0.738305978	0	IRF9	CMB9-22P13.2
0.738191567	3.31138E-94	MASP2	RP5-1039K5.13
0.738189705	3.31679E-94	LTB4R2	TP73-AS1
0.738032768	0	IRF9	AC005932.1
0.738028146	0	IL11RA	RP11-521B24.3

0.737467201	6.23778E-94	MASP2	CYP51A1-AS1
0.737438831	0	ENG	AC006126.3
0.737005688	9.32777E-94	A2M	RP11-672A2.5
0.736777822	0	TYK2	RP5-1182A14.5
0.736569031	0	LAIR1	RP11-625I7.1
0.736537274	1.40204E-93	CDH5	LINC00176
0.736490744	0	LTB4R	RP11-452L6.8
0.736196617	0	LTB4R	IDH1-AS1
0.736137863	1.98324E-93	IL11RA	RP3-402G11.27
0.735663081	0	IRF9	RP4-697K14.15
0.735447469	0	LTB4R	RP4-665N4.8
0.735357359	0	ITGAM	RP11-17G12.3
0.73487695	0	CD8A	RP11-689B22.2
0.734848757	0	IRF9	LINC01424
0.734702186	0	IRF9	AC004837.5
0.734659247	7.12136E-93	LTB4R2	AC144568.2
0.734495517	0	LY86	RP11-625I7.1
0.734441014	8.59388E-93	MASP2	CTC-499J9.1
0.734033902	0	IL11RA	RP13-516M14.4
0.733969629	1.28892E-92	LTB4R2	RP13-46H24.1
0.732915094	3.18184E-92	MASP2	RP11-518L10.5
0.73272924	0	LTB4R	CTC-215O4.4
0.732714514	3.77671E-92	ICOS	RP11-689B22.2
0.732561753	0	IRF9	RP13-516M14.4
0.732506732	0	TYK2	AC008746.12
0.732490286	0	TNFSF13B	RP11-625I7.1
0.732439675	4.77526E-92	IRF9	AC092839.4
0.732423623	4.8411E-92	CD33	AC068580.7
0.732396917	0	CCR5	RP11-689B22.2
0.732003056	0	LTB4R	LINC00106
0.731523101	0	ZAP70	AP000221.1
0.731393885	0	IL11RA	RP5-1039K5.13
0.731311078	1.24752E-91	IRF9	RP11-110I1.12
0.73127705	1.28408E-91	FCGR3A	AC068580.7
0.731066818	1.53473E-91	LTB4R	RP11-235E17.6
0.730828595	0	LTB4R	RP11-792A8.4
0.73066438	2.15809E-91	LTB4R2	CTC-529I10.1
0.730450951	0	GZMA	RP11-689B22.2
0.730395907	2.7082E-91	TYK2	CTD-2309O5.3
0.730366829	0	LTB4R	RP11-159D12.11
0.730346973	0	LTB4R	RP11-10L7.1
0.730201842	0	IRF9	RP11-546M21.6
0.730008712	3.75567E-91	TYK2	CTB-39G8.2
0.729898797	4.12055E-91	C3AR1	AC068580.7
0.729637688	0	PDGFRA	CTD-2536I1.3
0.729411025	6.21457E-91	LTB4R	RP11-631N16.2

0.729315899	0	IL11RA	RP5-1182A14.5
0.729256001	7.08022E-91	IRF9	AC009120.11
0.729041657	8.47791E-91	KLRK1	RP11-518L10.5
0.729035717	0	IRF9	RP11-290D2.6
0.728938483	0	IL11RA	RP3-508I15.14
0.728930829	0	IL11RA	AC008268.1
0.728742121	0	IL11RA	RP11-991C1.2
0.728629601	1.1981E-90	CD34	LINC00176
0.728609268	0	IRF9	SNHG8
0.728494072	0	TLR1	RP11-625I7.1
0.727946934	2.12193E-90	MASP2	AC005237.4
0.727721052	0	ENG	CTC-435M10.6
0.727661559	0	LTB4R	RP11-239E10.3
0.72757918	0	GZMK	RP11-689B22.2
0.727468973	3.16287E-90	MASP2	RP11-409I10.2
0.726939695	0	IRF9	CTD-3252C9.2
0.726917338	0	IRF9	LINC01164
0.726528629	6.91926E-90	KLRK1	CTB-39G8.2
0.726407447	0	PSTPIP1	RP11-689B22.2
0.726274035	8.54797E-90	IRF9	RP11-843P14.2
0.726214719	8.97917E-90	IL11RA	RP11-227G15.2
0.72615614	0	LTB4R	FGD5-AS1
0.726154073	9.44243E-90	TYK2	RP13-46H24.1
0.726034881	0	PLXNC1	RP11-17G12.3
0.725899658	1.16592E-89	LTB4R	OGFR-AS1
0.725197746	0	IL11RA	RP11-379C10.4
0.725016919	0	PTPRC	RP11-17G12.3
0.724757278	2.99669E-89	MASP2	RP3-402G11.26
0.724609506	3.38471E-89	LTB4R2	CTD-3074O7.2
0.724372787	4.11301E-89	LTB4R2	RP13-941N14.1
0.724347318	4.20011E-89	IKBKB	CTB-39G8.2
0.72424208	0	TYK2	AC005932.1
0.724232379	0	NOD2	RP11-689B22.2
0.724212609	4.69225E-89	TYK2	CTD-2537I9.18
0.724016843	0	ITGAM	RP11-625I7.1
0.723719154	0	CXCR6	RP11-689B22.2
0.723117183	0	IKBKB	RP11-56D16.8
0.722816614	0	FYN	CTC-435M10.6
0.722773264	1.5267E-88	MASP2	CTD-3222D19.10
0.722772279	0	IKBKB	RP11-409I10.2
0.722281701	2.28032E-88	KLRK1	CYP51A1-AS1
0.722234479	2.36981E-88	TYK2	RP3-402G11.27
0.722190847	0	IRF9	C1orf229
0.722172433	2.49273E-88	MASP2	LINC01089
0.722026025	2.8085E-88	MASP2	RP11-669E14.4
0.721935843	3.02249E-88	KLRK1	RP11-235E17.6

0.72183186	3.28941E-88	LTB4R2	IDH1-AS1
0.721774704	0	TLR2	RP11-625I7.1
0.721661692	3.77773E-88	ICAM2	RP11-421L21.3
0.721568058	4.0765E-88	KLRK1	AC007036.6
0.720417522	0	BTK	RP11-625I7.1
0.720282168	0	LTB4R	RP11-521B24.3
0.720014992	1.43423E-87	BTK	AC068580.7
0.719952747	1.50813E-87	KLRK1	RP11-473M20.5
0.719863227	1.62109E-87	LTB4R	AC005237.4
0.719744918	0	CD74	RP11-689B22.2
0.719614793	0	IL11RA	LINC00106
0.719238059	0	NFATC4	RP11-394O4.6
0.719093292	3.01371E-87	MASP2	RP11-521B24.3
0.718962451	3.34792E-87	KLRK1	AC005237.4
0.71878109	3.87294E-87	MASP2	RP11-236L14.2
0.718588235	4.52128E-87	NFATC3	CTD-2287O16.5
0.718536354	0	ADAM17	RP5-906A24.2
0.718309601	0	IRF9	AC069513.4
0.71816472	6.34865E-87	IL11RA	TP73-AS1
0.717905129	0	CIITA	RP11-17G12.3
0.717763106	0	TYK2	AC008268.1
0.717490485	1.08846E-86	KLRK1	IDH1-AS1
0.717367273	0	SLAMF7	RP11-689B22.2
0.717127334	0	LTB4R	KANTR
0.717076238	1.51469E-86	IL11RA	RP13-516M14.2
0.716687711	2.06391E-86	LTB4R	RP5-1142A6.10
0.716482544	0	TYK2	RP11-239E10.3
0.71633855	0	TNFSF8	RP11-625I7.1
0.716268372	0	IL11RA	RP11-334C17.6
0.715915381	3.81171E-86	MASP2	RP11-263K19.6
0.715835913	4.05959E-86	IL11RA	LINC01089
0.715774472	0	SH2D1A	RP11-689B22.2
0.715651092	0	IRF9	LINC01355
0.715522082	5.20538E-86	IL11RA	RP13-46H24.1
0.715337501	6.02403E-86	CSF1R	RP11-903H12.3
0.715282532	6.29171E-86	LTB4R2	RP11-1072A3.4
0.715145445	0	C1QTNF7	CTD-2536I1.3
0.714749096	9.58885E-86	LTB4R2	RP11-409I10.2
0.714677365	1.01471E-85	IKBKB	RP5-1142A6.10
0.714669621	1.02093E-85	PDGFB	LINC00176
0.714387636	1.27505E-85	LTB4R	LINC01126
0.714133124	1.55796E-85	IL11RA	CTD-2527I21.7
0.714005619	0	TYK2	RP5-1132H15.1
0.713828452	1.97975E-85	TEK	RP11-421L21.3
0.713551355	0	RAC2	RP11-689B22.2
0.713231172	3.16376E-85	TNFSF8	RP11-903H12.3

0.713142161	3.39234E-85	CD34	RP11-672A2.5
0.713010014	0	TYK2	RP11-263K19.6
0.712976971	0	LTB4R	RP11-56D16.8
0.712946429	0	MSR1	RP11-17G12.3
0.712931954	0	CTSS	RP11-625I7.1
0.712803084	4.42388E-85	FCGR2C	CTB-39G8.2
0.712801753	0	IL11RA	RP11-290D2.6
0.712792157	4.46187E-85	CD300LF	AC007879.6
0.712763729	4.56221E-85	LILRB1	PRR7-AS1
0.712164487	7.28626E-85	MASP2	RP11-159D12.11
0.712058741	7.91282E-85	IL11RA	CTD-2537I9.18
0.711978513	8.42368E-85	LTB4R2	AC092839.4
0.711324463	1.40171E-84	LTB4R2	AC007036.6
0.711299246	1.42946E-84	CD86	AC068580.7
0.711280093	1.4509E-84	LTB4R	RP3-402G11.27
0.711141501	0	FCGR1A	RP11-625I7.1
0.711128239	0	IRF9	RP11-843B15.2
0.710966056	0	TYK2	ABC12- 49244600F4.4
0.710926592	1.90936E-84	CD93	RP11-421L21.3
0.710845025	0	TYK2	MMP25-AS1
0.710590232	0	LTB4R	RP5-1039K5.13
0.71054201	2.57287E-84	CD6	AC092580.3
0.710073079	3.69889E-84	CDH5	RP11-672A2.5
0.709720129	0	CD53	RP11-625I7.1
0.709153702	0	LTB4R	RP11-518L10.5
0.70909452	7.8713E-84	LTB4R2	CTD-2026K11.1
0.708873368	0	CD248	RP11-598F7.4
0.70885912	0	CSF2RA	RP11-17G12.3
0.708694488	1.07085E-83	TYK2	RP11-1072A3.4
0.708535828	1.20973E-83	LTB4R	AP006621.5
0.708522856	0	LTB4R	XX- C00717C00720L.1
0.708478536	1.26416E-83	KLRK1	AC008268.1
0.708450988	1.29119E-83	KLRK1	RP11-263K19.6
0.708329677	0	TYK2	XX- C00717C00720L.1
0.708111791	0	IL11RA	CTB-131K11.1
0.707797216	2.13184E-83	KLRK1	RP11-334C17.6
0.707493319	2.69013E-83	MASP2	CTD-2647E9.3
0.707457276	2.76533E-83	LTB4R2	MMP25-AS1
0.707361754	2.97487E-83	TAL1	RP11-421L21.3
0.707357389	2.98481E-83	LTB4R2	RP3-508I15.14
0.707147726	3.50345E-83	LTB4R2	RP11-1055B8.10
0.706611247	5.27534E-83	LILRB4	AC068580.7
0.706515579	0	CLEC4A	RP11-17G12.3
0.706501086	5.73722E-83	A2M	RP11-421L21.3

0.706395382	0	TYK2	RP3-508I15.14
0.70624146	0	IKBKB	RP11-894P9.2
0.70618318	0	IL10RA	RP11-17G12.3
0.706146112	7.51694E-83	IL11RA	AC005237.4
0.706142925	7.53519E-83	FYN	LINC00176
0.706132682	7.59411E-83	KDR	RP11-672A2.5
0.706065408	0	CDH5	LINC00950
0.705996331	8.42364E-83	LTB4R	CTB-39G8.2
0.705934753	0	IKBKB	RP11-521B24.3
0.705615237	0	CD180	RP11-625I7.1
0.705565107	1.16874E-82	IL11RA	CTB-39G8.2
0.705546477	1.18538E-82	LTB4R	LINC01089
0.705539299	0	TAP2	HLA-DQB1-AS1
0.705252651	1.48117E-82	KLRK1	RP11-10L7.1
0.705155796	1.59394E-82	LTB4R2	CTD-2587H19.3
0.704767823	2.13789E-82	SLAMF1	AC092580.3
0.704656692	0	IL11RA	CTD-3074O7.2
0.704542609	2.5346E-82	LTB4R2	CTC-281F24.1
0.704419672	2.78121E-82	MASP2	TP73-AS1
0.704267012	3.12088E-82	PDGFB	RP11-672A2.5
0.704241686	0	CD4	RP11-17G12.3
0.7040961	0	LTB4R	RP4-734G22.3
0.704066013	0	SLAMF6	RP11-689B22.2
0.703795202	4.45388E-82	IRF9	AC006042.7
0.703747028	0	IRF9	CTC-281F24.1
0.703665533	4.91062E-82	LTB4R	RP13-49I15.6
0.703564813	5.29728E-82	IRF9	LINC00605
0.703539753	0	LTB4R	MMP25-AS1
0.703457159	5.74407E-82	ZEB1	RP11-672A2.4
0.703430285	5.86133E-82	KLRK1	RP5-1142A6.10
0.703275505	6.58452E-82	IL11RA	RP11-309M23.1
0.70308945	7.57214E-82	C1QB	AC068580.7
0.703075713	0	TRAF1	AP000221.1
0.703008111	0	TYK2	RP13-941N14.1
0.702849036	0	IRF9	RP1-30M3.5
			ABC12-
0.702818342	0	IRF9	49244600F4.4
0.702766505	0	IKBKB	FGD5-AS1
0.702749694	9.77082E-82	LTB4R2	RP1-102E24.10
0.702605762	0	IL11RA	SLC39A12-AS1
0.702483594	0	PDGFB	CTC-435M10.6
0.702432363	0	TYK2	CTB-131K11.1
0.702384769	0	ITGAL	RP11-689B22.2
0.702326727	1.34134E-81	KLRK1	FGD5-AS1
			ABC12-
0.702075233	1.61899E-81	LTB4R2	49244600F4.4

0.702036909	0	TYK2	RP11-546M21.6
0.701894659	0	TYK2	LINC00106
0.701768175	2.0365E-81	PLA2G7	AC007879.6
0.701753444	2.05902E-81	ICOS	AP000221.1
0.701595186	2.31719E-81	TRAF6	CTD-2287O16.5
0.701545511	0	LTB4R	RP11-1055B8.10
0.701218279	3.06906E-81	LTB4R2	RP5-1182A14.5
0.700878604	3.95211E-81	ITGA1	RP11-672A2.5
0.700532096	0	IRF9	RP11-468E2.5
0.700493971	5.26017E-81	KLRK1	CTD-2537I9.18

Supplementary Table S3: Comparison of clinical and common mutations in immune LncRNA clusters

Supplementary Table S3: Comparison of clinical and common mutations in immune LncRNA clusters							
		Cluster 1 (N=235)		Cluster 2 (N=147)		Cluster 3 (N=34)	
		Number	Percent	Number	Percent	Number	Percent
Stage	1	119	50.63	71	48.29	7	20.58
	2	21	8.93	18	12.24	2	5.88
	3	56	23.82	41	27.89	14	41.17
	4	39	16.59	17	11.56	11	32.35
Grade	1	2	0.85	5	3.40	0	0
	2	104	44.25	60	40.81	10	29.41
	3	87	37.02	66	44.89	15	44.11
	4	41	17.44	16	10.88	9	26.47
Metastasis	M0	198	84.25	128	87.07	23	67.64
	M1	37	15.74	19	12.92	11	32.35
Avg. Mutation		90	--	86	--	71	--
Mutation	Unaltered	66	28.08	35	23.80	6	17.64
	VHL	123	52.34	79	53.74	21	61.76
	PBRM1	94	40	54	36.73	14	41.17
	SETD2	39	16.59	22	14.96	6	17.64
	BAP1	28	11.91	20	13.60	7	20.58

Supplementary Table S4: GSEA analysis results of cluster C3 vs cluster C1+C2

Supplementary Table S4: GSEA analysis results of cluster C3 vs cluster C1+C2					
h.all.v6 gene set (Hallmark)					
NAME	SIZE	ES	NES	FDR q-val	
Hallmark Kras Signaling Dn	141	0.36	1.68	0.22	
Hallmark Allograft Rejection	192	0.29	1.418	0.72	
C7 Immunogenic signature					
Fcgriib Vs Tnfa Il1B Il6 Pge Stim Dc Dn	120	0.49	2.24	0	
Day3 Vs Day7 Tiv Flu Vaccine Pbmcc 2008 Dn	152	0.46	2.16	0	
Unstim Vs Tnfa Il1B Il6 Pge Stim Dc Dn	69	0.49	2.12	0.01	
Healthy Vs E Coli Inf Pbmcc Up	160	0.43	2.02	0.02	
Bcl6 Ko Vs Wt Treg Dn	69	0.46	1.99	0.02	
Wt Vs Stat4 Ko Cd8 Tcell Up	112	0.43	1.99	0.02	
Unstim Vs Newcatsle Virus Dc 2H Dn	124	0.43	1.98	0.02	
Untreated Vs Galectin1 Treated Dc Dn	157	0.41	1.93	0.04	
Day8 Vs Day15 Lcmv Armstrong Effector Cd8 Tcell Dn	114	0.41	1.93	0.03	
Ly6C Pos Vs Neg Naive Cd4 Tcell Dn	109	0.41	1.92	0.04	

Supplementary Table S5: Comparison of gene mutation in immune LncRNA clusters

Supplementary Table S5: Comparison of gene mutation in immune LncRNA clusters				
	Cluster 1+2 (N = 312)		Cluster 3 (N = 27)	
Gene	Number	Percent	Number	Percent
VHL	205	65.7	22	81.48
PBRM1	129	41.34	12	44.44
SETD2	50	16.02	4	14.81
BAP1	37	11.85	4	14.81
MTOR	28	8.97	1	3.7
PTEN	16	5.12	1	3.7
MLL3	15	4.8	0	0
ARID1A	12	3.84	0	0
STAG2	7	2.24	0	0
NF2	4	1.28	0	0

Supplementary Table S6: Fitness of Cox proportional hazard assumptions

Co-variate	rho	Chi-sq	p
LIPS	0.0198	0.0192	0.89
Age	0.0716	0.3459	0.556
Distant metastasis	-0.1979	2.4617	0.117
Stage II	-0.0165	0.0166	0.898
Stage III	-0.058	0.2111	0.646
Stage IV	0.0282	0.0442	0.834
GLOBAL	NA	6.8446	0.335

Supplementary Table S7: Comparison of clinical and common mutations in high vs low risk patient

Supplementary Table S7: Comparison of clinical and common mutations in high vs low risk patient					
		LR	Percent	HR	Percent
Stage	1	138	55.2	57	34.96
	2	23	9.2	18	11.04
	3	58	23.2	53	32.51
	4	31	12.4	35	21.47
Grade	1	5	2	2	1.22
	2	128	51.2	44	26.99
	3	92	36.8	76	46.62
Metastasis	4	24	9.6	41	25.15
	M0	220	88	127	77.91
	M1	30	12	36	22.08
	Unaltered	65	26	42	25.76
Mutation	VHL	133	53.2	88	53.98
	PBRM1	105	42	55	33.74
	SETD2	41	16.4	26	15.95
	BAP1	20	8	34	20.85