

Supplementary Table S7: Details of the differentially expressed genes (DEGs) in Immune-depleted (Subtype-A) tumors as compared to Immune-enriched (Subtype-B) tumors having expression difference of fold change (FC) cut-off $|\log_2(\text{FC})| \geq 1$ with False Discovery Rate (FDR) corrected $p < 0.05$, after multiple testing correction by Benjamini-Hochberg method

Gene name	Log2 (Fold Change)	p value	FDR corrected p [BH correction]	Regulation status
GCLC	1.522	0.000	0.005	upregulation
PRSS3	2.043	0.000	0.012	upregulation
GPRC5A	1.075	0.001	0.031	upregulation
ROS1	2.882	0.000	0.000	upregulation
ME1	1.216	0.003	0.048	upregulation
DHRS9	1.990	0.000	0.006	upregulation
BRINP1	1.667	0.002	0.038	upregulation
SULT2B1	1.188	0.000	0.016	upregulation
KRT31	2.298	0.001	0.019	upregulation
DHRS2	1.488	0.001	0.033	upregulation
C20orf24	1.371	0.000	0.000	upregulation
PTK6	1.044	0.000	0.014	upregulation
SLC1A6	2.893	0.000	0.009	upregulation
CNFN	2.556	0.000	0.000	upregulation
CYP2C18	1.715	0.003	0.048	upregulation
AC016292.3	1.169	0.003	0.047	upregulation
RBP1	1.175	0.001	0.027	upregulation
ARTN	1.190	0.001	0.026	upregulation
ELOVL4	1.501	0.000	0.009	upregulation
SLURP1	3.029	0.000	0.000	upregulation
KRT17	1.502	0.003	0.048	upregulation
KLK10	1.672	0.002	0.037	upregulation
KLK8	3.245	0.000	0.000	upregulation
GDF15	1.894	0.000	0.002	upregulation
CRB3	1.198	0.000	0.001	upregulation
TMEM160	1.299	0.000	0.001	upregulation
EPS8L1	1.183	0.001	0.020	upregulation
MATN3	1.469	0.002	0.039	upregulation
GSTM3	1.600	0.000	0.002	upregulation
EMP1	1.195	0.001	0.025	upregulation
SCEL	1.854	0.000	0.006	upregulation
IL36G	2.492	0.000	0.009	upregulation
IL36A	3.798	0.000	0.000	upregulation
IL36RN	2.650	0.000	0.002	upregulation
PAQR5	1.277	0.001	0.019	upregulation

RPL7P9	1.044	0.000	0.000	upregulation
RPL14P1	1.125	0.000	0.000	upregulation
SPINK7	2.033	0.001	0.024	upregulation
TENM2	2.351	0.000	0.006	upregulation
AKR1C2	3.384	0.000	0.000	upregulation
RAET1L	2.077	0.000	0.003	upregulation
AZGP1	2.108	0.003	0.046	upregulation
LCE3D	3.236	0.000	0.000	upregulation
SPRR3	2.010	0.001	0.019	upregulation
SPRR2D	1.909	0.002	0.036	upregulation
LIPH	1.335	0.002	0.041	upregulation
S100P	1.968	0.001	0.021	upregulation
SPINK1	1.712	0.003	0.048	upregulation
RAET1E	1.435	0.001	0.027	upregulation
PGAM2	1.642	0.001	0.032	upregulation
CTHRC1	1.082	0.002	0.044	upregulation
CDH16	2.978	0.000	0.000	upregulation
RRAD	1.663	0.000	0.016	upregulation
C15orf48	1.477	0.000	0.016	upregulation
B4GALNT2	2.841	0.000	0.007	upregulation
PSCA	2.247	0.000	0.000	upregulation
KLK5	3.359	0.000	0.000	upregulation
KRT1	1.607	0.003	0.049	upregulation
KLK7	3.006	0.000	0.000	upregulation
SPRR1B	1.970	0.000	0.016	upregulation
SPRR1A	2.342	0.000	0.007	upregulation
CRCT1	3.066	0.000	0.000	upregulation
FABP4	4.198	0.000	0.000	upregulation
KRT78	2.437	0.000	0.000	upregulation
KRT75	2.615	0.000	0.009	upregulation
RP11-443P15.2	2.261	0.000	0.004	upregulation
MUCL1	3.209	0.000	0.002	upregulation
AC007318.5	1.210	0.000	0.000	upregulation
RHOD	1.304	0.000	0.002	upregulation
TDRD12	3.858	0.000	0.000	upregulation
CNTNAP2	2.534	0.000	0.009	upregulation
CST6	1.735	0.001	0.026	upregulation
CCDC85B	1.036	0.000	0.017	upregulation
LINC00116	1.045	0.001	0.020	upregulation
B3GNT8	1.003	0.003	0.048	upregulation
TWF1P1	1.006	0.000	0.001	upregulation
RPS3AP5	1.524	0.000	0.000	upregulation
CTXN1	1.385	0.002	0.038	upregulation
EIF2S3L	1.112	0.000	0.013	upregulation
NQO1	1.436	0.001	0.022	upregulation
TRAPPC5	1.395	0.000	0.007	upregulation
HIST3H2A	1.176	0.000	0.002	upregulation

OTOP3	3.547	0.000	0.001	upregulation
SPNS2	1.568	0.000	0.001	upregulation
RPS7P1	2.813	0.000	0.000	upregulation
HIST2H2AA3	1.169	0.000	0.009	upregulation
HIST2H4A	1.256	0.000	0.000	upregulation
FAM132A	1.741	0.000	0.002	upregulation
CD24P4	1.119	0.000	0.007	upregulation
KPNA7	1.183	0.001	0.029	upregulation
LCE3E	2.088	0.001	0.019	upregulation
KRT10	2.408	0.000	0.000	upregulation
KLK12	2.605	0.000	0.003	upregulation
HPDL	1.188	0.001	0.019	upregulation
VSIG10L	1.287	0.000	0.013	upregulation
KRT17P2	1.792	0.000	0.006	upregulation
CHCHD2P9	1.183	0.002	0.035	upregulation
CCK	1.818	0.002	0.036	upregulation
FAM25A	2.876	0.000	0.004	upregulation
IGFL1	2.653	0.000	0.003	upregulation
KRTDAP	2.337	0.000	0.003	upregulation
IGFL3	3.826	0.000	0.000	upregulation
FZD9	1.379	0.000	0.014	upregulation
SBSN	2.070	0.002	0.035	upregulation
RNF222	1.806	0.000	0.014	upregulation
CLDN4	1.088	0.000	0.004	upregulation
S100A14	1.124	0.001	0.027	upregulation
AKR1C3	1.734	0.000	0.008	upregulation
EEF1A1P5	1.190	0.000	0.000	upregulation
SPRR2B	3.436	0.000	0.001	upregulation
C9orf169	1.731	0.001	0.020	upregulation
SERPIN2	2.478	0.000	0.001	upregulation
NMB	1.129	0.001	0.024	upregulation
PTMAP2	1.409	0.000	0.000	upregulation
BZW1P2	1.241	0.000	0.000	upregulation
HIST1H4L	1.033	0.000	0.000	upregulation
PPIAP2	1.322	0.000	0.000	upregulation
RNU5E-1	1.223	0.001	0.021	upregulation
RNU5A-1	1.265	0.000	0.013	upregulation
SNORA73B	1.096	0.000	0.001	upregulation
RNU5B-1	1.658	0.000	0.000	upregulation
SNORA71D	2.342	0.000	0.000	upregulation
SNORA38B	1.661	0.000	0.000	upregulation
RN7SKP44	1.247	0.000	0.001	upregulation
SNORA80	1.545	0.000	0.011	upregulation
RNU4-1	2.129	0.000	0.000	upregulation
SNORA38	2.683	0.000	0.000	upregulation
RN7SKP36	1.397	0.000	0.002	upregulation
RNU4-13P	2.236	0.000	0.000	upregulation

SNORA74A	2.570	0.000	0.000	upregulation
RNY1	1.592	0.000	0.000	upregulation
SNORA68	1.605	0.000	0.003	upregulation
SNORA71C	1.162	0.001	0.031	upregulation
RNU6-7	1.131	0.002	0.042	upregulation
RNY3P1	1.552	0.000	0.000	upregulation
SNORA23	1.845	0.000	0.000	upregulation
VTRNA1-2	1.388	0.003	0.048	upregulation
RNU4-2	2.365	0.000	0.000	upregulation
RAET1G	1.625	0.000	0.015	upregulation
PRR9	4.057	0.000	0.006	upregulation
SPRR2E	2.092	0.002	0.043	upregulation
HIST2H2AA4	1.080	0.000	0.013	upregulation
LIPK	1.858	0.001	0.029	upregulation
HNRNPCP2	1.158	0.000	0.000	upregulation
CDSN	1.790	0.001	0.017	upregulation
ZFP57	2.406	0.001	0.020	upregulation
IGFL2	2.308	0.000	0.004	upregulation
KRT40	2.105	0.003	0.048	upregulation
LGALS7	2.343	0.001	0.020	upregulation
RNU1-28P	4.350	0.000	0.000	upregulation
SNORA2A	1.003	0.000	0.016	upregulation
SNORA80B	1.759	0.000	0.001	upregulation
RNU6-42P	1.671	0.000	0.001	upregulation
RNU6-36P	1.507	0.000	0.000	upregulation
RNU6-4P	1.081	0.000	0.001	upregulation
RNU6-3P	1.059	0.000	0.002	upregulation
SNORA7B	1.382	0.000	0.001	upregulation
SNORA37	1.420	0.000	0.000	upregulation
SNORD116-16	1.509	0.002	0.036	upregulation
RNVU1-7	6.713	0.000	0.000	upregulation
RNU6-33P	1.198	0.000	0.003	upregulation
SNORD94	1.076	0.000	0.009	upregulation
MT-TI	1.217	0.002	0.036	upregulation
MT-TT	1.154	0.001	0.026	upregulation
RNU6ATAC2P	2.083	0.000	0.006	upregulation
IGKV6-21	1.983	0.001	0.029	upregulation
IGLV7-46	2.371	0.000	0.009	upregulation
IGLV7-43	1.739	0.001	0.020	upregulation
IGLV2-23	1.601	0.002	0.038	upregulation
IGLV2-8	1.524	0.001	0.028	upregulation
IGHV2-5	1.880	0.001	0.024	upregulation
SNORD17	1.906	0.000	0.000	upregulation
SNORA74B	1.853	0.000	0.000	upregulation
SNORA53	3.372	0.000	0.000	upregulation
SNORA12	1.103	0.000	0.000	upregulation
RPL15P3	1.866	0.000	0.000	upregulation

YWHAZP5	1.033	0.002	0.045	upregulation
HSPD1P1	1.023	0.000	0.002	upregulation
RPL18AP3	1.029	0.000	0.000	upregulation
RPLP0P6	1.401	0.000	0.000	upregulation
RP11-941H19.2	1.014	0.001	0.027	upregulation
RP11-829H16.2	1.258	0.000	0.001	upregulation
CLDN9	2.175	0.000	0.012	upregulation
RP11-7D5.2	1.028	0.001	0.030	upregulation
KRT16P1	2.019	0.000	0.017	upregulation
RPL15P20	1.151	0.001	0.026	upregulation
MRPL3P1	1.018	0.001	0.026	upregulation
RPTN	3.584	0.000	0.000	upregulation
RP11-490H24.5	1.094	0.001	0.022	upregulation
RP3-406P24.1	1.252	0.000	0.005	upregulation
RP3-375P9.2	1.081	0.001	0.032	upregulation
LYPLA1P3	1.263	0.000	0.000	upregulation
FTH1P8	1.007	0.000	0.005	upregulation
RP11-378G13.2	1.515	0.001	0.025	upregulation
RPL21P119	1.535	0.000	0.003	upregulation
RNU6ATAC	2.151	0.000	0.000	upregulation
AC079305.10	1.108	0.002	0.036	upregulation
RNU2-3P	2.653	0.000	0.000	upregulation
RNU2-36P	1.907	0.000	0.000	upregulation
RNU2-59P	2.275	0.000	0.000	upregulation
RNU2-26P	2.779	0.000	0.000	upregulation
RNU2-48P	1.464	0.000	0.000	upregulation
RNU2-70P	3.078	0.000	0.000	upregulation
RNU2-68P	1.374	0.000	0.003	upregulation
RNU2-61P	2.886	0.000	0.000	upregulation
RNU2-64P	2.753	0.000	0.000	upregulation
RNU2-6P	3.073	0.000	0.000	upregulation
RPS15AP5	1.015	0.001	0.018	upregulation
AC079354.6	1.420	0.001	0.030	upregulation
KRT8P45	1.077	0.002	0.039	upregulation
RP11-270C12.3	1.176	0.000	0.001	upregulation
TIMM8BP2	1.114	0.001	0.018	upregulation
SNORA71A	1.700	0.000	0.001	upregulation
UQCRFS1P1	1.438	0.000	0.000	upregulation
TPI1P1	1.453	0.000	0.000	upregulation
RPS7P10	1.070	0.000	0.001	upregulation
RPL7P22	1.245	0.000	0.012	upregulation
FTLP3	1.158	0.000	0.009	upregulation
RP11-350G8.3	1.065	0.001	0.017	upregulation
CTD-2328D6.1	4.658	0.000	0.000	upregulation
RP3-417G15.1	1.324	0.000	0.000	upregulation
LOC124685	1.091	0.001	0.027	upregulation
AC016734.2	1.034	0.000	0.012	upregulation

RP4-575N6.2	1.473	0.000	0.008	upregulation
RP11-298C3.2	1.259	0.000	0.000	upregulation
C1orf233	1.059	0.000	0.013	upregulation
RP11-249L21.4	1.047	0.000	0.011	upregulation
SNRPD2P1	1.594	0.000	0.003	upregulation
SPRR2C	2.538	0.001	0.030	upregulation
CALM2P2	1.013	0.000	0.000	upregulation
CTB-63M22.1	1.517	0.000	0.000	upregulation
RPS7P4	1.020	0.000	0.006	upregulation
NKX1-2	1.651	0.003	0.048	upregulation
AC118138.2	1.196	0.001	0.019	upregulation
HSPB1P2	1.240	0.002	0.034	upregulation
AC025627.9	2.147	0.000	0.001	upregulation
KRT17P3	1.571	0.001	0.021	upregulation
PPP1R2P3	1.620	0.000	0.000	upregulation
ANXA2P2	1.378	0.000	0.000	upregulation
RP11-255N24.4	1.141	0.000	0.002	upregulation
FTH1P7	1.102	0.000	0.006	upregulation
FTLP2	1.196	0.001	0.029	upregulation
RPS11P5	1.225	0.000	0.000	upregulation
AC000078.5	1.734	0.003	0.047	upregulation
EIF4HP1	1.211	0.000	0.000	upregulation
AC009302.2	2.399	0.000	0.000	upregulation
RPS15AP40	1.185	0.000	0.006	upregulation
RP11-288E14.2	1.710	0.000	0.000	upregulation
RP11-761N21.2	1.265	0.000	0.000	upregulation
H2BFS	1.063	0.000	0.009	upregulation
AL162151.3	1.014	0.000	0.008	upregulation
RPS3AP6	1.815	0.000	0.000	upregulation
LINC00338	1.348	0.000	0.000	upregulation
FABP5P7	2.098	0.000	0.007	upregulation
TECRP1	1.003	0.002	0.041	upregulation
RPL39P3	1.668	0.000	0.000	upregulation
SNORA71B	1.483	0.000	0.000	upregulation
RPS2P7	1.076	0.001	0.029	upregulation
NOL5BP	1.271	0.000	0.002	upregulation
FABP5P2	2.160	0.001	0.020	upregulation
HSPB1P1	1.279	0.000	0.015	upregulation
RPL13AP5	1.082	0.000	0.000	upregulation
RP11-365O16.1	1.324	0.000	0.007	upregulation
PTGES3P4	1.479	0.001	0.019	upregulation
RNF223	1.488	0.000	0.002	upregulation
RP11-603J24.7	1.280	0.000	0.000	upregulation
UNC5B-AS1	2.132	0.000	0.000	upregulation
RP11-459A10.1	1.029	0.002	0.037	upregulation
BANF1P3	1.245	0.000	0.010	upregulation
SNORD105B	1.509	0.000	0.013	upregulation

SNORA47	1.247	0.002	0.044	upregulation
SCARNA10	1.726	0.000	0.000	upregulation
SNORD13	1.586	0.000	0.000	upregulation
RP11-464D20.2	1.266	0.002	0.045	upregulation
RN7SL752P	1.249	0.000	0.006	upregulation
AC079949.1	1.984	0.000	0.000	upregulation
RN7SL674P	1.539	0.000	0.000	upregulation
FABP5P11	2.103	0.001	0.029	upregulation
RN7SL587P	1.170	0.000	0.001	upregulation
IGKV1-8	1.919	0.001	0.029	upregulation
RP11-366M4.1	1.177	0.000	0.015	upregulation
RN7SL128P	1.273	0.000	0.000	upregulation
PDXP	1.390	0.000	0.002	upregulation
PSMC1P1	1.444	0.000	0.000	upregulation
RPS15AP24	1.708	0.000	0.001	upregulation
RN7SL767P	1.178	0.000	0.003	upregulation
SNHG3	1.210	0.000	0.001	upregulation
RP11-234A1.1	1.511	0.000	0.000	upregulation
AL592188.1	1.842	0.000	0.000	upregulation
C4orf48	1.722	0.000	0.001	upregulation
AL592188.2	2.193	0.000	0.014	upregulation
RN7SL151P	1.028	0.002	0.037	upregulation
RP11-425L10.1	1.450	0.000	0.000	upregulation
WNT5A-AS1	1.358	0.001	0.022	upregulation
ASPRV1	1.262	0.001	0.028	upregulation
RN7SL396P	1.245	0.000	0.001	upregulation
CEBPA	1.346	0.000	0.009	upregulation
CTC-338M12.2	1.388	0.000	0.005	upregulation
SERBP1P6	1.413	0.000	0.000	upregulation
RP11-298J20.4	1.011	0.002	0.037	upregulation
RP11-478C6.4	1.418	0.000	0.004	upregulation
KB-1639H6.4	2.090	0.000	0.011	upregulation
SCARNA6	1.542	0.000	0.000	upregulation
SCARNA23	1.074	0.001	0.018	upregulation
SCARNA5	1.470	0.000	0.000	upregulation
RNY5	1.441	0.002	0.035	upregulation
RNY4	1.577	0.000	0.003	upregulation
SCARNA3	1.165	0.000	0.002	upregulation
SCARNA1	1.791	0.000	0.000	upregulation
IGHV7-56	2.027	0.000	0.016	upregulation
CTA-392E5.1	2.482	0.002	0.037	upregulation
AC084082.3	2.264	0.000	0.000	upregulation
SEPT10P1	1.284	0.000	0.001	upregulation
CTB-79E8.3	1.792	0.000	0.000	upregulation
RP11-156K13.1	1.328	0.000	0.003	upregulation
CLDN23	1.296	0.000	0.001	upregulation
RP11-676M6.1	1.006	0.000	0.001	upregulation

RP11-494M8.4	1.614	0.003	0.049	upregulation
RP11-443N24.1	1.730	0.000	0.000	upregulation
RP11-841C19.3	1.358	0.000	0.001	upregulation
RP11-680H20.1	1.046	0.000	0.000	upregulation
HIGD1AP1	1.100	0.001	0.030	upregulation
RBM8B	1.136	0.000	0.002	upregulation
PDF	1.430	0.000	0.001	upregulation
SPESP1	2.696	0.000	0.001	upregulation
RN7SL1	1.237	0.000	0.000	upregulation
HSPE1P2	1.108	0.001	0.024	upregulation
RPPH1	2.203	0.000	0.000	upregulation
RP11-134E15.2	1.215	0.000	0.004	upregulation
RP6-65G23.3	1.101	0.001	0.019	upregulation
CTD-2651B20.6	1.690	0.000	0.001	upregulation
CTD-2022H16.3	1.405	0.001	0.030	upregulation
RP11-421N8.1	1.419	0.000	0.000	upregulation
CTD-2319I12.1	1.451	0.000	0.014	upregulation
CD24P2	1.850	0.000	0.003	upregulation
RP11-1223D19.1	1.687	0.000	0.000	upregulation
RN7SL4P	1.422	0.000	0.000	upregulation
SNORD3A	2.715	0.000	0.000	upregulation
MIR3687	3.330	0.000	0.000	upregulation
MIR3648	2.399	0.000	0.000	upregulation
MIR4449	1.259	0.000	0.014	upregulation
AL592188.4	2.289	0.000	0.000	upregulation
SNORD3C	3.002	0.000	0.000	upregulation
PGDP1	1.057	0.002	0.045	upregulation
AL592188.5	2.224	0.001	0.031	upregulation
RN7SL5P	1.961	0.000	0.000	upregulation
AL662890.3	2.141	0.002	0.039	upregulation
AL592188.6	3.023	0.000	0.000	upregulation
AL592188.7	4.398	0.000	0.000	upregulation
RN7SL3	1.358	0.000	0.008	upregulation
AL592188.8	1.250	0.002	0.035	upregulation
UBL5P2	1.176	0.001	0.017	upregulation
RNA28S5	1.147	0.000	0.009	upregulation
LOC440461	2.123	0.000	0.001	upregulation
AC079354.2	1.544	0.000	0.015	upregulation
AC022400.2	1.255	0.001	0.023	upregulation
CTD-2619J13.13	1.291	0.001	0.022	upregulation
AC006262.6	1.520	0.001	0.033	upregulation
AC006262.5	2.728	0.000	0.001	upregulation
AC006262.4	2.575	0.000	0.008	upregulation
AC012313.1	1.791	0.000	0.002	upregulation
IGHV3OR16-9	2.063	0.000	0.016	upregulation
RP11-736N17.9	2.158	0.000	0.003	upregulation
RP11-728B21.3	1.082	0.002	0.039	upregulation

RP11-96C23.12	2.582	0.002	0.035	upregulation
RNU6-6P	1.057	0.000	0.002	upregulation
RNA18S5	2.065	0.000	0.000	upregulation
GS1-393G12.14	1.506	0.000	0.009	upregulation
RP1-40E16.12	1.095	0.002	0.037	upregulation
RP11-820I16.4	1.063	0.002	0.041	upregulation
MTMR7	-2.147	0.000	0.001	downregulation
SLC7A2	-2.265	0.000	0.004	downregulation
CACNA1G	-1.462	0.001	0.024	downregulation
DNAH9	-2.697	0.000	0.000	downregulation
TKTL1	-1.681	0.001	0.031	downregulation
BAIAP3	-1.218	0.001	0.017	downregulation
FMO3	-2.438	0.000	0.011	downregulation
PGLYRP1	-2.017	0.001	0.033	downregulation
MLXIPL	-2.546	0.000	0.003	downregulation
HHATL	-1.904	0.001	0.031	downregulation
NPC1L1	-1.553	0.002	0.038	downregulation
ATP1A2	-1.805	0.001	0.029	downregulation
CYP24A1	-1.798	0.001	0.032	downregulation
NRXN3	-2.328	0.000	0.001	downregulation
NR2E3	-2.603	0.000	0.004	downregulation
CYP46A1	-1.238	0.002	0.043	downregulation
ZBPB	-2.164	0.003	0.049	downregulation
LMO3	-2.456	0.000	0.006	downregulation
CCDC85A	-1.388	0.001	0.032	downregulation
PHF21B	-2.322	0.000	0.011	downregulation
RIMBP2	-2.251	0.000	0.003	downregulation
ACSM2B	-3.199	0.000	0.001	downregulation
ACSL4	-1.027	0.001	0.027	downregulation
PYGM	-1.205	0.000	0.009	downregulation
TRPM5	-1.847	0.001	0.032	downregulation
GSDMB	-1.021	0.000	0.008	downregulation
RGS11	-1.668	0.000	0.011	downregulation
CTTNBP2	-1.320	0.002	0.041	downregulation
PAK3	-1.633	0.001	0.025	downregulation
SPAG6	-2.573	0.000	0.004	downregulation
ADCY2	-2.182	0.000	0.006	downregulation
RBFOX1	-1.824	0.000	0.005	downregulation
ADCYAP1R1	-1.600	0.002	0.042	downregulation
MYH7B	-1.025	0.000	0.008	downregulation
BPIFB2	-5.537	0.000	0.000	downregulation
GNAO1	-1.026	0.002	0.046	downregulation
C20orf26	-1.618	0.000	0.008	downregulation
RPH3A	-1.895	0.000	0.006	downregulation
CHGB	-1.915	0.002	0.037	downregulation
THPO	-1.484	0.001	0.032	downregulation
FCGBP	-1.428	0.002	0.044	downregulation

SLC26A4	-2.263	0.000	0.013	downregulation
SLC5A4	-1.040	0.002	0.042	downregulation
CHGA	-6.257	0.000	0.000	downregulation
EPPIN	-2.855	0.000	0.010	downregulation
NOL4	-1.995	0.001	0.030	downregulation
CACNA1F	-1.532	0.000	0.001	downregulation
FGF14	-4.644	0.000	0.000	downregulation
IRG1	-2.016	0.001	0.022	downregulation
NECAB2	-1.351	0.000	0.016	downregulation
CRISPLD2	-1.208	0.001	0.024	downregulation
FOXF1	-1.327	0.000	0.012	downregulation
GOLGA8UP	-1.179	0.001	0.030	downregulation
TULP2	-1.290	0.002	0.041	downregulation
TLE6	-1.210	0.001	0.032	downregulation
MAG	-1.940	0.002	0.041	downregulation
RUNDC3B	-1.227	0.000	0.015	downregulation
EVX1	-2.167	0.001	0.020	downregulation
FSCN3	-1.547	0.000	0.000	downregulation
POU6F2	-2.166	0.000	0.003	downregulation
SLC1A1	-1.447	0.000	0.014	downregulation
PRUNE2	-1.745	0.000	0.009	downregulation
EBF3	-1.304	0.002	0.042	downregulation
CCL2	-1.319	0.001	0.026	downregulation
HSD17B1P1	-1.008	0.000	0.009	downregulation
HLF	-1.209	0.003	0.048	downregulation
B3GAT1	-1.827	0.000	0.001	downregulation
SCGB2A2	-3.183	0.001	0.024	downregulation
SLC6A12	-1.330	0.001	0.021	downregulation
CUX2	-3.200	0.000	0.000	downregulation
GPR133	-1.748	0.001	0.020	downregulation
RFX4	-2.386	0.000	0.014	downregulation
RSPH4A	-1.499	0.000	0.002	downregulation
LRRC31	-3.739	0.000	0.000	downregulation
GNAT1	-1.606	0.001	0.019	downregulation
CCL20	-2.288	0.000	0.011	downregulation
TNNI3K	-1.557	0.003	0.048	downregulation
NR5A2	-1.066	0.000	0.014	downregulation
KIF17	-1.007	0.000	0.015	downregulation
MROH9	-2.692	0.000	0.000	downregulation
MUC5B	-2.475	0.003	0.047	downregulation
TREH	-1.800	0.001	0.023	downregulation
ADGB	-3.409	0.000	0.000	downregulation
ABCG2	-1.371	0.001	0.031	downregulation
TRPM6	-1.120	0.000	0.013	downregulation
ESRRB	-1.570	0.001	0.023	downregulation
TNFSF18	-1.404	0.002	0.036	downregulation
SEC16B	-1.107	0.000	0.016	downregulation

ABCC11	-1.069	0.001	0.019	downregulation
PLG	-3.599	0.000	0.000	downregulation
IL13RA2	-1.644	0.000	0.016	downregulation
C4BPA	-2.476	0.000	0.010	downregulation
DAW1	-2.599	0.000	0.000	downregulation
C20orf85	-5.721	0.000	0.000	downregulation
NRN1	-1.484	0.000	0.009	downregulation
CXCL6	-1.871	0.001	0.019	downregulation
SCGB1D2	-4.613	0.000	0.000	downregulation
TEKT3	-1.702	0.000	0.009	downregulation
IL1B	-1.489	0.002	0.041	downregulation
FOXA2	-3.480	0.000	0.001	downregulation
KIRREL2	-2.418	0.000	0.001	downregulation
PZP	-2.117	0.000	0.000	downregulation
OMG	-2.136	0.001	0.020	downregulation
LIF	-1.657	0.000	0.005	downregulation
ATP1B2	-1.391	0.003	0.046	downregulation
CDH15	-1.634	0.000	0.012	downregulation
UNC13A	-1.063	0.000	0.004	downregulation
HRC	-1.661	0.000	0.004	downregulation
SAG	-2.585	0.000	0.002	downregulation
GATA5	-3.397	0.000	0.002	downregulation
GFAP	-2.337	0.000	0.001	downregulation
CNGA4	-1.641	0.003	0.047	downregulation
ATP1A4	-1.484	0.000	0.003	downregulation
KL	-1.295	0.001	0.020	downregulation
CRB1	-1.558	0.000	0.002	downregulation
EDNRB	-1.592	0.000	0.009	downregulation
IL6	-2.121	0.000	0.002	downregulation
SCN2A	-1.842	0.002	0.038	downregulation
KIF12	-2.804	0.000	0.001	downregulation
WDR38	-1.741	0.003	0.047	downregulation
BMPR1B	-2.095	0.000	0.010	downregulation
PIK3C2G	-2.491	0.000	0.011	downregulation
TPH2	-2.021	0.001	0.033	downregulation
CCDC65	-1.464	0.002	0.040	downregulation
WDR93	-1.571	0.000	0.008	downregulation
MYLK3	-1.487	0.001	0.021	downregulation
SLC14A1	-1.648	0.000	0.002	downregulation
KLK3	-2.925	0.000	0.007	downregulation
C1orf222	-2.554	0.000	0.000	downregulation
GPA33	-1.374	0.002	0.040	downregulation
RXRG	-2.347	0.000	0.003	downregulation
RGS16	-1.124	0.000	0.007	downregulation
LHX9	-1.482	0.002	0.039	downregulation
UNC80	-2.624	0.000	0.000	downregulation
CPO	-1.671	0.000	0.009	downregulation

VWA5B2	-2.813	0.000	0.000	downregulation
ANK2	-1.658	0.001	0.019	downregulation
ROPN1L	-1.433	0.001	0.033	downregulation
LRRTM2	-1.236	0.002	0.038	downregulation
DCDC2	-1.801	0.000	0.010	downregulation
HMGCLL1	-2.657	0.000	0.007	downregulation
TCTE1	-1.720	0.000	0.003	downregulation
NXF3	-1.923	0.000	0.009	downregulation
DPYS	-1.365	0.001	0.019	downregulation
HABP2	-1.817	0.003	0.048	downregulation
PAMR1	-1.572	0.003	0.047	downregulation
CCDC81	-1.278	0.000	0.001	downregulation
GRIK4	-1.730	0.000	0.004	downregulation
FAM57B	-1.388	0.001	0.023	downregulation
GPR158	-2.445	0.001	0.020	downregulation
SLC16A12	-1.746	0.000	0.017	downregulation
IFLTD1	-2.275	0.003	0.049	downregulation
STK32B	-1.176	0.002	0.036	downregulation
C16orf89	-4.274	0.000	0.000	downregulation
ANKFN1	-2.303	0.000	0.004	downregulation
DNAAF1	-3.482	0.000	0.000	downregulation
JPH3	-2.012	0.000	0.011	downregulation
ENPP3	-2.539	0.000	0.001	downregulation
GBP5	-2.356	0.000	0.000	downregulation
CA10	-4.099	0.000	0.000	downregulation
GRIA1	-1.828	0.000	0.013	downregulation
FMN2	-2.749	0.000	0.002	downregulation
KIF5A	-1.058	0.002	0.042	downregulation
GNA14	-1.590	0.000	0.003	downregulation
CLDN8	-2.563	0.000	0.008	downregulation
RP11-66N24.4	-1.003	0.000	0.006	downregulation
TMED6	-1.720	0.000	0.006	downregulation
C1orf158	-3.011	0.000	0.002	downregulation
HYDIN	-1.733	0.000	0.011	downregulation
CABP1	-1.383	0.000	0.001	downregulation
DRC1	-1.593	0.002	0.043	downregulation
NRG2	-1.388	0.002	0.042	downregulation
VWA5B1	-1.767	0.002	0.045	downregulation
ADAMTS4	-1.865	0.000	0.010	downregulation
APOA2	-2.687	0.000	0.014	downregulation
TNNI1	-1.732	0.003	0.046	downregulation
PADI4	-1.408	0.000	0.014	downregulation
CCDC17	-1.145	0.000	0.002	downregulation
LRRC36	-1.695	0.000	0.001	downregulation
TFF3	-4.004	0.000	0.000	downregulation
TMPRSS3	-2.106	0.000	0.003	downregulation
ADAMTS13	-1.108	0.001	0.027	downregulation

SPTBN4	-1.211	0.002	0.041	downregulation
LRRC71	-2.132	0.001	0.033	downregulation
CELF5	-2.968	0.000	0.000	downregulation
ASGR2	-1.196	0.000	0.011	downregulation
CCDC78	-1.589	0.000	0.008	downregulation
C1orf87	-5.219	0.000	0.000	downregulation
NTNG1	-2.213	0.000	0.006	downregulation
FAM71A	-2.150	0.000	0.001	downregulation
AXDND1	-1.136	0.002	0.040	downregulation
PKDCC	-2.194	0.000	0.003	downregulation
ALMS1P	-1.049	0.001	0.020	downregulation
NPPC	-2.313	0.001	0.020	downregulation
ALPPL2	-3.912	0.000	0.000	downregulation
SPTA1	-1.528	0.001	0.020	downregulation
EFHB	-1.418	0.000	0.011	downregulation
CCDC37	-2.175	0.002	0.037	downregulation
HTR4	-1.911	0.000	0.001	downregulation
CMYA5	-1.004	0.002	0.046	downregulation
KLKB1	-1.425	0.001	0.030	downregulation
IQUB	-1.064	0.002	0.041	downregulation
SBSPON	-2.529	0.000	0.005	downregulation
DIRAS2	-2.154	0.002	0.045	downregulation
ZMAT4	-1.780	0.002	0.039	downregulation
AK8	-1.331	0.001	0.019	downregulation
RET	-1.376	0.002	0.041	downregulation
LIPC	-1.276	0.001	0.030	downregulation
SVOP	-2.193	0.003	0.048	downregulation
C2	-1.105	0.001	0.017	downregulation
PKD1L2	-1.950	0.000	0.003	downregulation
ACSM1	-1.089	0.002	0.041	downregulation
MYO1A	-1.127	0.001	0.019	downregulation
EPB42	-1.262	0.000	0.007	downregulation
MS4A8	-5.663	0.000	0.000	downregulation
NKX3-1	-1.317	0.001	0.027	downregulation
TTC16	-1.040	0.000	0.011	downregulation
LPO	-1.878	0.001	0.025	downregulation
CA4	-2.564	0.000	0.000	downregulation
KLK2	-1.948	0.001	0.019	downregulation
TMEM88	-1.269	0.000	0.012	downregulation
SCARA5	-2.440	0.000	0.002	downregulation
FAM107A	-1.774	0.000	0.002	downregulation
MOBP	-1.871	0.002	0.044	downregulation
C8orf46	-1.354	0.001	0.032	downregulation
IL1RAPL1	-3.420	0.000	0.000	downregulation
C22orf15	-2.452	0.000	0.002	downregulation
MYRIP	-1.855	0.000	0.012	downregulation
FOXD4	-1.488	0.000	0.000	downregulation

HSD17B13	-1.664	0.001	0.019	downregulation
DLGAP1	-1.263	0.001	0.032	downregulation
MAP6	-1.294	0.003	0.049	downregulation
FGA	-2.650	0.002	0.039	downregulation
DNAI2	-2.542	0.000	0.000	downregulation
PAH	-2.339	0.002	0.036	downregulation
EFCAB12	-1.713	0.000	0.002	downregulation
ARPP21	-2.387	0.000	0.011	downregulation
GSTA3	-3.432	0.000	0.006	downregulation
GOLGA6L2	-3.042	0.000	0.000	downregulation
KLK15	-3.027	0.000	0.000	downregulation
DNAH12	-2.720	0.000	0.000	downregulation
CATSPERD	-1.807	0.000	0.003	downregulation
ZNF683	-1.407	0.000	0.006	downregulation
MAMDC4	-1.020	0.000	0.005	downregulation
HTR1F	-1.436	0.001	0.019	downregulation
GPC5	-1.364	0.001	0.032	downregulation
FAM216B	-5.198	0.000	0.000	downregulation
CCDC129	-2.310	0.001	0.017	downregulation
SERTM1	-4.266	0.000	0.004	downregulation
RP11-290F5.2	-1.021	0.001	0.020	downregulation
CCDC108	-3.607	0.000	0.000	downregulation
AATK	-1.154	0.000	0.015	downregulation
TNFSF15	-1.181	0.000	0.013	downregulation
KCNB2	-2.441	0.001	0.026	downregulation
RGS6	-1.580	0.002	0.039	downregulation
RP11-49C9.2	-1.072	0.002	0.044	downregulation
C11orf88	-2.466	0.001	0.032	downregulation
ACSM2A	-3.155	0.000	0.001	downregulation
EMILIN3	-1.769	0.002	0.034	downregulation
C1orf64	-4.031	0.000	0.000	downregulation
NCMAP	-2.102	0.000	0.005	downregulation
SOCS3	-1.116	0.001	0.029	downregulation
SLC2A3P2	-1.165	0.002	0.039	downregulation
ANKS1B	-1.559	0.002	0.043	downregulation
EFCAB10	-2.343	0.000	0.002	downregulation
LINC00158	-1.346	0.001	0.020	downregulation
PTCH1	-1.247	0.001	0.032	downregulation
PLK5	-2.259	0.000	0.010	downregulation
AGBL4	-2.130	0.002	0.041	downregulation
TMEM212	-3.261	0.000	0.007	downregulation
CD300E	-1.427	0.003	0.046	downregulation
AKAP14	-3.682	0.000	0.000	downregulation
RGS7BP	-1.963	0.002	0.036	downregulation
MYT1L	-2.685	0.000	0.001	downregulation
CLCNKA	-1.885	0.000	0.001	downregulation
ZNF732	-1.702	0.001	0.020	downregulation

TMEM232	-1.174	0.001	0.024	downregulation
LILRA5	-1.143	0.002	0.036	downregulation
BAGE2	-1.037	0.002	0.038	downregulation
CIDEA	-2.582	0.000	0.011	downregulation
AGMO	-1.990	0.002	0.034	downregulation
THSD4	-1.698	0.000	0.014	downregulation
DNAH17	-2.250	0.000	0.004	downregulation
C1orf168	-3.081	0.000	0.004	downregulation
LCN10	-1.978	0.000	0.003	downregulation
LDLRAD2	-1.339	0.001	0.019	downregulation
CPSF4L	-1.088	0.003	0.050	downregulation
FAM166A	-2.016	0.000	0.001	downregulation
RUFY4	-1.541	0.000	0.006	downregulation
SERPINA5	-1.928	0.000	0.014	downregulation
GOLGA8M	-1.128	0.002	0.045	downregulation
SNTN	-4.274	0.000	0.000	downregulation
APOD	-1.899	0.000	0.016	downregulation
MYBPC1	-4.800	0.000	0.000	downregulation
MYT1	-2.212	0.000	0.013	downregulation
KIF19	-1.264	0.000	0.016	downregulation
NLGN3	-1.275	0.000	0.006	downregulation
ZNF418	-1.106	0.003	0.049	downregulation
RP11-573D15.8	-1.821	0.000	0.013	downregulation
SSPO	-1.446	0.000	0.012	downregulation
DNAH10	-1.994	0.000	0.004	downregulation
WDR96	-1.861	0.000	0.016	downregulation
CCDC180	-1.182	0.002	0.039	downregulation
DLGAP2	-1.769	0.000	0.008	downregulation
SULT1C4	-1.653	0.001	0.021	downregulation
BPIFA1	-2.850	0.001	0.032	downregulation
NTRK1	-1.017	0.003	0.046	downregulation
ZNF536	-2.821	0.000	0.001	downregulation
MT-ND6	-1.708	0.000	0.002	downregulation
PNMA5	-3.359	0.000	0.003	downregulation
TGM2	-1.267	0.001	0.031	downregulation
RORB	-1.803	0.002	0.036	downregulation
RNA5SP151	-2.604	0.000	0.017	downregulation
ECT2L	-1.357	0.003	0.048	downregulation
SMIM9	-1.862	0.003	0.046	downregulation
C1orf185	-2.209	0.003	0.048	downregulation
CASP12	-1.902	0.000	0.011	downregulation
C9orf135	-3.682	0.000	0.005	downregulation
TTC25	-1.404	0.003	0.047	downregulation
FAM221B	-2.064	0.000	0.001	downregulation
PCDHGA1	-1.221	0.000	0.012	downregulation
PKHD1L1	-2.101	0.000	0.000	downregulation
C2orf91	-2.269	0.001	0.018	downregulation

KLRC3	-1.486	0.002	0.044	downregulation
LINC00487	-1.293	0.002	0.039	downregulation
CLEC6A	-1.065	0.001	0.025	downregulation
HLA-H	-1.216	0.001	0.027	downregulation
RNU6-171P	-1.093	0.003	0.047	downregulation
SNORD116-29	-1.611	0.001	0.026	downregulation
MIR455	-1.561	0.003	0.048	downregulation
MIRLET7F2	-2.141	0.000	0.002	downregulation
MT-TF	-1.916	0.000	0.004	downregulation
MT-TQ	-3.692	0.000	0.000	downregulation
MT-TA	-1.309	0.002	0.037	downregulation
MT-TY	-1.198	0.002	0.036	downregulation
MT-TS1	-2.274	0.000	0.000	downregulation
MT-TE	-3.271	0.000	0.000	downregulation
MT-TP	-2.010	0.000	0.000	downregulation
TRDV1	-1.451	0.001	0.032	downregulation
SYT3	-1.756	0.000	0.002	downregulation
LINGO4	-1.477	0.001	0.025	downregulation
GBP7	-1.818	0.000	0.010	downregulation
AC017028.1	-1.370	0.000	0.006	downregulation
AC079776.2	-3.001	0.000	0.007	downregulation
TMEM213	-2.533	0.003	0.050	downregulation
LCNL1	-1.394	0.002	0.045	downregulation
DCDC2C	-2.227	0.000	0.003	downregulation
FAM166B	-1.526	0.000	0.009	downregulation
ZNF663P	-2.360	0.001	0.019	downregulation
MGC10955	-1.881	0.000	0.016	downregulation
HNRNPA3P12	-1.614	0.001	0.024	downregulation
RNU6ATAC18P	-1.126	0.002	0.036	downregulation
Z97351.1	-1.004	0.002	0.045	downregulation
PLXNA4	-2.404	0.000	0.000	downregulation
RNU4-78P	-1.224	0.000	0.009	downregulation
MEG9	-1.903	0.001	0.020	downregulation
LINC00473	-3.850	0.000	0.000	downregulation
MTND6P21	-2.729	0.000	0.005	downregulation
RABGAP1L-IT1	-1.035	0.003	0.047	downregulation
AC008277.1	-2.548	0.000	0.008	downregulation
AC026188.1	-2.175	0.000	0.001	downregulation
MIR503HG	-1.349	0.001	0.032	downregulation
RP11-439L8.4	-2.039	0.000	0.016	downregulation
AC007319.1	-1.883	0.002	0.037	downregulation
AC096559.1	-1.764	0.000	0.014	downregulation
AC087380.14	-1.039	0.001	0.025	downregulation
C17orf72	-1.729	0.000	0.015	downregulation
RP11-48F14.1	-3.404	0.000	0.006	downregulation
MKRN5P	-1.662	0.000	0.000	downregulation
TEX26-AS1	-2.733	0.000	0.000	downregulation

RP5-1142A6.2	-1.069	0.002	0.034	downregulation
AC005534.8	-1.212	0.000	0.010	downregulation
RP11-403H13.1	-1.235	0.000	0.010	downregulation
LINC00092	-1.862	0.003	0.047	downregulation
RP3-508I15.14	-1.040	0.000	0.006	downregulation
AGBL4-IT1	-3.423	0.000	0.001	downregulation
RP3-395M20.7	-1.048	0.002	0.037	downregulation
AC017076.5	-1.606	0.000	0.004	downregulation
RP11-10J5.1	-1.633	0.000	0.014	downregulation
LINC00869	-1.254	0.000	0.000	downregulation
AC104809.3	-2.932	0.000	0.001	downregulation
RP11-182I10.3	-1.074	0.001	0.031	downregulation
CERS6-AS1	-1.777	0.000	0.010	downregulation
RP11-73O6.3	-1.589	0.001	0.021	downregulation
HNRNPA3P2	-1.639	0.002	0.041	downregulation
MTND6P5	-1.290	0.001	0.025	downregulation
RP3-323P13.2	-1.861	0.002	0.040	downregulation
RP11-361M4.1	-2.991	0.000	0.001	downregulation
RP11-15B24.5	-1.960	0.000	0.009	downregulation
RP11-439L8.3	-2.413	0.000	0.016	downregulation
SRGAP3-AS2	-4.703	0.000	0.000	downregulation
MIR4500HG	-2.582	0.000	0.008	downregulation
HYI-AS1	-1.100	0.000	0.013	downregulation
RP11-342D14.1	-2.433	0.002	0.040	downregulation
AC018692.2	-3.527	0.000	0.001	downregulation
MIR194-2	-1.458	0.001	0.024	downregulation
ANKRD66	-3.571	0.000	0.001	downregulation
XXYLT1-AS2	-1.413	0.002	0.039	downregulation
RP11-334J6.6	-1.354	0.000	0.005	downregulation
CTC-228N24.1	-1.445	0.002	0.043	downregulation
CEACAM22P	-1.511	0.001	0.033	downregulation
ARHGAP26-IT1	-1.588	0.000	0.000	downregulation
AF015720.3	-3.126	0.000	0.011	downregulation
AC011747.6	-1.768	0.001	0.028	downregulation
AP000688.8	-2.086	0.000	0.007	downregulation
RP11-10J18.3	-1.746	0.001	0.020	downregulation
AC017006.3	-1.995	0.001	0.032	downregulation
CTA-246H3.11	-1.094	0.001	0.024	downregulation
RP11-134P9.3	-1.269	0.000	0.014	downregulation
TSPAN19	-2.689	0.000	0.005	downregulation
RP11-12D24.6	-1.583	0.000	0.007	downregulation
RP5-1109J22.1	-1.071	0.001	0.027	downregulation
GS1-115G20.2	-1.068	0.002	0.035	downregulation
DPYD-IT1	-1.079	0.003	0.048	downregulation
AC010967.1	-2.894	0.000	0.004	downregulation
RP11-403I13.5	-2.046	0.000	0.001	downregulation
RP1-85F18.6	-2.820	0.000	0.005	downregulation

RP11-47I22.3	-1.138	0.002	0.043	downregulation
AC004112.5	-2.450	0.003	0.047	downregulation
MAPRE1P3	-2.819	0.003	0.049	downregulation
MROH3P	-1.305	0.002	0.036	downregulation
RP11-216N14.9	-2.053	0.002	0.043	downregulation
AC104809.4	-2.302	0.000	0.008	downregulation
RP5-1087E8.3	-2.269	0.002	0.039	downregulation
RP11-399H11.2	-3.692	0.000	0.000	downregulation
AC116366.6	-1.532	0.000	0.002	downregulation
AC104654.2	-2.437	0.000	0.001	downregulation
RNF219-AS1	-3.012	0.000	0.000	downregulation
AC007278.3	-1.582	0.000	0.003	downregulation
RP4-784A16.1	-2.471	0.000	0.009	downregulation
HMGA1P4	-1.070	0.001	0.023	downregulation
RP11-526A4.1	-2.377	0.000	0.009	downregulation
RP11-575L7.8	-1.932	0.002	0.044	downregulation
RP11-231K24.2	-2.318	0.001	0.029	downregulation
AC090952.5	-1.145	0.001	0.030	downregulation
LINC00484	-1.963	0.000	0.001	downregulation
ZNRF3-IT1	-1.081	0.001	0.032	downregulation
RP1-60N8.1	-1.303	0.001	0.025	downregulation
RP11-423O2.2	-1.481	0.002	0.040	downregulation
HMG2P28	-1.035	0.002	0.037	downregulation
RP11-320G24.1	-1.379	0.000	0.008	downregulation
RP11-162J8.3	-1.622	0.000	0.005	downregulation
SMAD9-AS1	-2.391	0.000	0.001	downregulation
SPA17P1	-1.427	0.002	0.042	downregulation
RP11-956J14.1	-3.133	0.000	0.001	downregulation
SULT1C2P1	-2.651	0.002	0.035	downregulation
RPS3AP39	-2.770	0.000	0.006	downregulation
LINC01071	-3.076	0.000	0.003	downregulation
RP11-305L7.3	-1.351	0.000	0.004	downregulation
RP11-76N22.2	-1.116	0.003	0.048	downregulation
LINC00211	-1.739	0.001	0.019	downregulation
RP4-739H11.3	-1.270	0.002	0.045	downregulation
AF011889.2	-1.009	0.001	0.020	downregulation
AC009133.14	-1.064	0.000	0.006	downregulation
ZEB2-AS1	-1.307	0.001	0.018	downregulation
RP3-395M20.8	-1.103	0.001	0.020	downregulation
AL592183.5	-1.249	0.002	0.040	downregulation
RP11-492E3.51	-1.537	0.001	0.024	downregulation
RP11-446H18.5	-1.272	0.001	0.024	downregulation
RP11-353N4.2	-1.317	0.000	0.005	downregulation
MTND6P6	-2.183	0.002	0.041	downregulation
RP11-430C7.5	-1.938	0.000	0.002	downregulation
RP11-430C7.4	-1.669	0.000	0.006	downregulation
PCDHGC5	-1.503	0.000	0.013	downregulation

TDGF1	-1.567	0.002	0.046	downregulation
CT64	-2.504	0.001	0.033	downregulation
RPL7P19	-1.338	0.001	0.019	downregulation
CTC-340A15.2	-2.225	0.002	0.041	downregulation
RP11-268G12.3	-2.789	0.001	0.026	downregulation
RP11-538P18.2	-2.402	0.000	0.005	downregulation
FGF14-IT1	-1.781	0.000	0.015	downregulation
WDR65	-1.307	0.001	0.028	downregulation
RN7SL398P	-1.033	0.001	0.028	downregulation
AC108676.1	-2.453	0.001	0.021	downregulation
RP11-15B17.1	-1.192	0.001	0.023	downregulation
LINC00461	-1.379	0.001	0.020	downregulation
RP11-461O7.1	-2.509	0.000	0.000	downregulation
RP11-446J8.1	-2.556	0.002	0.036	downregulation
STX18-IT1	-1.383	0.000	0.014	downregulation
RP11-125O18.1	-1.714	0.001	0.031	downregulation
AC006427.2	-1.866	0.003	0.048	downregulation
PCDHA11	-1.888	0.000	0.006	downregulation
LINC01093	-1.851	0.001	0.023	downregulation
CTC-506B8.1	-1.757	0.001	0.030	downregulation
CASC16	-2.830	0.000	0.007	downregulation
RP11-665G4.1	-1.282	0.001	0.029	downregulation
RP11-26J3.1	-1.355	0.002	0.034	downregulation
LINC01016	-2.529	0.000	0.003	downregulation
IL20RB-AS1	-2.451	0.001	0.019	downregulation
RP11-503N18.3	-3.160	0.002	0.040	downregulation
HMGNI1P16	-3.259	0.001	0.022	downregulation
RP11-438N16.1	-2.431	0.000	0.006	downregulation
CTD-2143L24.1	-1.871	0.002	0.043	downregulation
MTND6P16	-3.007	0.000	0.016	downregulation
LINC01021	-2.418	0.000	0.000	downregulation
RP11-8L2.1	-2.838	0.000	0.012	downregulation
RP11-47I22.2	-1.012	0.003	0.047	downregulation
RP11-215P8.4	-3.501	0.000	0.011	downregulation
RP11-597D13.8	-2.753	0.000	0.009	downregulation
CTD-2533K21.4	-3.083	0.000	0.004	downregulation
RP11-81H3.2	-3.693	0.000	0.001	downregulation
RP11-701P16.5	-1.380	0.001	0.030	downregulation
CTD-2207L17.2	-2.052	0.002	0.035	downregulation
RNU7-124P	-1.080	0.001	0.021	downregulation
AL035106.1	-1.247	0.002	0.041	downregulation
RN7SKP11	-1.981	0.002	0.043	downregulation
RN7SKP35	-1.477	0.001	0.024	downregulation
AC078852.2	-1.368	0.000	0.001	downregulation
PCDHGA5	-1.319	0.001	0.021	downregulation
RP11-25P11.2	-2.578	0.001	0.033	downregulation
PCDHGA8	-1.353	0.000	0.017	downregulation

RP11-431D12.1	-2.623	0.001	0.020	downregulation
PCDHGA11	-1.095	0.001	0.029	downregulation
MTND6P3	-2.596	0.000	0.003	downregulation
RP4-798P15.3	-1.334	0.000	0.004	downregulation
RP11-115J16.1	-2.896	0.000	0.006	downregulation
MTND6P19	-3.163	0.000	0.009	downregulation
RP11-732A19.8	-1.126	0.000	0.014	downregulation
CYCSP28	-1.896	0.000	0.016	downregulation
RP11-532E4.2	-3.493	0.000	0.004	downregulation
RP11-430H10.2	-2.159	0.002	0.042	downregulation
RP11-1134I14.8	-2.117	0.000	0.013	downregulation
RP11-445F12.1	-2.524	0.001	0.023	downregulation
RP11-711K1.7	-3.016	0.000	0.001	downregulation
RMST	-2.730	0.000	0.004	downregulation
CYP2A6	-2.753	0.000	0.003	downregulation
Z95704.5	-1.531	0.001	0.019	downregulation
ZNF486	-1.220	0.002	0.037	downregulation
SLC5A8	-3.798	0.000	0.011	downregulation
RP11-1143G9.4	-2.969	0.000	0.000	downregulation
RP11-1143G9.2	-1.168	0.002	0.036	downregulation
RP11-981P6.1	-1.263	0.001	0.032	downregulation
RP11-603J24.5	-1.292	0.001	0.020	downregulation
RP11-486O13.2	-2.269	0.002	0.037	downregulation
RP11-471B22.2	-2.147	0.001	0.025	downregulation
DIO3OS	-1.847	0.000	0.016	downregulation
LINC00930	-2.485	0.000	0.003	downregulation
RP11-509A17.3	-2.551	0.002	0.039	downregulation
RP11-356K23.1	-4.310	0.001	0.024	downregulation
RP11-841O20.2	-1.900	0.000	0.009	downregulation
RP11-293M10.2	-1.566	0.000	0.005	downregulation
RP11-247L20.3	-1.390	0.001	0.017	downregulation
CTD-2547L24.3	-1.168	0.000	0.000	downregulation
LINC00639	-1.084	0.001	0.033	downregulation
RP11-840I19.3	-2.167	0.001	0.020	downregulation
RP11-187O7.3	-1.494	0.001	0.030	downregulation
RP11-69H14.6	-2.166	0.001	0.031	downregulation
RP11-424I19.2	-1.529	0.000	0.016	downregulation
RP11-313P18.1	-1.967	0.001	0.017	downregulation
RP11-736N17.4	-1.169	0.002	0.041	downregulation
RP11-158M2.3	-1.067	0.001	0.028	downregulation
RP11-566K19.5	-2.203	0.000	0.005	downregulation
RP11-158M2.2	-1.729	0.001	0.020	downregulation
RP11-115K3.1	-3.110	0.001	0.021	downregulation
RP11-182J1.14	-3.004	0.000	0.003	downregulation
CTD-2540M10.1	-2.557	0.003	0.046	downregulation
CTD-2012K14.3	-1.382	0.001	0.026	downregulation
LINC00261	-3.239	0.003	0.046	downregulation

RP13-20L14.1	-1.445	0.002	0.036	downregulation
RP11-18F14.4	-1.160	0.003	0.048	downregulation
RP11-229P13.25	-1.013	0.000	0.002	downregulation
FRRS1L	-2.031	0.002	0.044	downregulation
RP11-386M24.6	-2.159	0.002	0.042	downregulation
CTD-2542L18.1	-1.277	0.000	0.010	downregulation
RP11-556H2.3	-1.074	0.002	0.039	downregulation
LA16c-385E7.1	-1.637	0.000	0.008	downregulation
RP11-345M22.1	-1.301	0.000	0.011	downregulation
RP11-314O13.1	-1.603	0.000	0.006	downregulation
RP11-459F6.3	-1.413	0.001	0.028	downregulation
RP11-215E13.1	-2.491	0.001	0.019	downregulation
RP11-160C18.2	-1.883	0.000	0.016	downregulation
RP11-244O19.1	-1.065	0.002	0.040	downregulation
RP11-665J16.1	-2.106	0.000	0.008	downregulation
RP11-580I1.2	-3.651	0.000	0.001	downregulation
RP11-304L19.11	-1.231	0.001	0.024	downregulation
RP11-462G12.2	-1.651	0.001	0.027	downregulation
RP11-149I9.2	-2.406	0.003	0.048	downregulation
RP11-192H23.5	-1.565	0.002	0.046	downregulation
RP11-57J16.1	-2.877	0.001	0.031	downregulation
RN7SL758P	-2.620	0.001	0.017	downregulation
MIR4713	-1.934	0.001	0.033	downregulation
MIR3945	-2.137	0.001	0.022	downregulation
RP11-131K5.1	-1.597	0.001	0.027	downregulation
CTB-171A8.1	-1.189	0.000	0.015	downregulation
RP11-92C4.3	-2.425	0.000	0.002	downregulation
CTD-2659N19.9	-1.000	0.003	0.046	downregulation
CTC-232P5.3	-2.713	0.000	0.007	downregulation
AC002398.12	-1.061	0.000	0.016	downregulation
CTC-260E6.6	-2.632	0.000	0.000	downregulation
RP11-861E21.3	-1.668	0.003	0.048	downregulation
RP11-108P20.4	-1.949	0.001	0.031	downregulation
RP11-456O19.4	-1.677	0.002	0.041	downregulation
CTD-2534I21.9	-3.484	0.000	0.000	downregulation
CTD-3193O13.11	-3.068	0.000	0.002	downregulation
CTD-2337J16.1	-1.255	0.002	0.044	downregulation
RP11-420K14.1	-2.007	0.003	0.046	downregulation
CTD-2626G11.2	-3.195	0.000	0.000	downregulation
BAGE5	-2.502	0.000	0.014	downregulation
CTB-50E14.4	-1.612	0.003	0.048	downregulation
AC114494.1	-2.325	0.000	0.014	downregulation
AC138517.1	-2.560	0.000	0.013	downregulation
CTD-2126E3.3	-2.416	0.000	0.007	downregulation
AC006272.1	-1.215	0.002	0.039	downregulation
AL109659.1	-2.965	0.000	0.011	downregulation
CTD-2521M24.5	-1.312	0.000	0.016	downregulation

RP4-740C4.6	-1.076	0.001	0.019	downregulation
RP11-324I22.3	-1.095	0.002	0.036	downregulation
RP11-475J5.11	-2.308	0.002	0.045	downregulation
RP11-381K20.5	-1.244	0.000	0.004	downregulation
CTB-95D12.1	-2.794	0.000	0.000	downregulation
RP11-355F16.1	-1.576	0.001	0.026	downregulation
RP4-802A10.1	-1.067	0.001	0.029	downregulation
NAMA	-2.111	0.000	0.001	downregulation
RP11-274B21.9	-1.299	0.000	0.007	downregulation
RP11-701H24.7	-1.270	0.002	0.037	downregulation
RP5-1182A14.5	-2.657	0.000	0.014	downregulation
CTC-332L22.1	-1.237	0.001	0.022	downregulation
MIR98	-1.186	0.000	0.000	downregulation
RP11-503P10.1	-1.085	0.000	0.016	downregulation
RP11-360I2.1	-1.133	0.001	0.024	downregulation
RP11-140I16.3	-1.192	0.001	0.023	downregulation
XXbac-BPG252P9.9	-1.034	0.003	0.048	downregulation
RP11-255P5.2	-1.550	0.002	0.043	downregulation
RP11-324L17.1	-1.662	0.002	0.036	downregulation
RP11-344P13.6	-1.909	0.000	0.012	downregulation
RP11-53B2.6	-1.094	0.001	0.029	downregulation
RP11-326G21.1	-1.081	0.000	0.004	downregulation
RP11-66B24.7	-1.415	0.002	0.037	downregulation
RP11-12D24.10	-2.074	0.000	0.011	downregulation
RP11-302L19.3	-1.325	0.002	0.037	downregulation
RP11-114O18.1	-1.345	0.003	0.048	downregulation