

Sheet "mRNA g759-GFP ": RNA sequencing data analysis of differentially expressed mRNAs in HEK293 cells transfected with 759 sgRNA/SAM compared to GFP transfected control

Sheet "mRNA 620-GFP ": RNA sequencing data analysis of differentially expressed mRNAs in HEK293 cells transfected with 620 sgRNA/SAM compared to GFP transfected control

Sheet "Differentially expressed mRNAs ": Differentially expressed mRNAs in HEK293 cells transfected with 759 sgRNA/SAM and 620 sgRNA/SAM compared to control.

Sheet "GSEA downregulated genes ": Gene set expression analysis of significantly downregulated mRNAs in HEK293 cells transfected with 759 sgRNA/SAM and 620 sgRNA/SAM compared to control.

Gene		Transcripts per million (TPM)										
		Linear Fold Change	P Value	FDR	TestMean	TestStdDev	TestMin	TestMax	RefMean	RefStdDev	RefMin	RefMax
ENSG00000176371	ZSCAN2	-1.5	3.5E-08	4.4E-07	11.185	0.795	10.303	12.193	15.414	0.767	14.750	16.133
ENSG00000196812	ZSCAN16	-1.5	5.7E-06	4.1E-05	17.496	1.723	16.514	20.068	25.203	1.730	24.242	27.797
ENSG00000196605	ZNF846	-1.5	1.5E-05	9.5E-05	3.815	0.623	3.209	4.408	5.649	0.503	5.102	6.077
ENSG00000196152	ZNF79	-1.5	1.7E-06	1.4E-05	18.591	2.123	16.501	21.470	26.885	1.586	24.753	28.591
ENSG00000182903	ZNF721	-1.5	0.00087	0.00317	21.331	5.219	13.542	24.667	32.743	3.041	29.786	35.366
ENSG00000175105	ZNF654	-1.5	6.6E-06	4.7E-05	15.957	2.967	11.639	18.388	23.680	1.691	22.131	25.144
ENSG00000196357	ZNF565	-1.5	0.00018	0.00083	2.645	0.522	2.050	3.198	3.939	0.123	3.775	4.072
ENSG00000177599	ZNF491	-1.5	5.8E-05	0.00031	3.145	0.196	2.988	3.394	4.871	0.361	4.406	5.157
ENSG00000196263	ZNF471	-1.5	1.3E-05	8.7E-05	8.908	1.427	6.867	10.167	13.460	1.692	11.612	14.896
ENSG00000083817	ZNF416	-1.5	1.2E-06	1E-05	13.636	1.224	12.487	15.079	19.544	0.244	19.259	19.748
ENSG00000186496	ZNF396	-1.5	0.00036	0.00148	1.564	0.142	1.365	1.680	2.144	0.197	1.977	2.362
ENSG00000188994	ZNF292	-1.5	0.02339	0.04988	13.493	4.618	6.585	16.198	20.790	2.262	18.546	22.738
ENSG00000149050	ZNF214	-1.5	8.7E-06	6E-05	6.355	0.696	5.647	7.031	9.118	1.019	7.883	9.954
ENSG00000121417	ZNF211	-1.5	7.2E-09	1.1E-07	18.941	0.859	17.863	19.682	27.838	2.177	24.584	29.056
ENSG00000096654	ZNF184	-1.5	3.7E-07	3.6E-06	15.728	2.200	12.777	18.048	23.763	1.829	22.138	25.346
ENSG00000169946	ZFPM2	-1.5	3.9E-05	0.00022	2.320	0.339	2.044	2.786	3.409	0.213	3.230	3.717
ENSG00000205189	ZBTB10	-1.5	1.1E-05	7.3E-05	24.374	4.197	18.123	27.109	36.033	2.289	33.560	37.980
ENSG00000143816	WNT9A	-1.5	4.5E-05	0.00025	4.838	0.746	4.156	5.522	6.919	0.409	6.526	7.272
ENSG00000228775	WEE2-AS1	-1.5	0.03014	0.06125	0.468	0.134	0.304	0.605	0.738	0.154	0.551	0.865
ENSG00000178201	VN1R1	-1.5	0.0021	0.00668	3.455	0.481	2.769	3.819	5.379	0.278	5.062	5.741
ENSG00000189136	UBE2Q2P1	-1.5	0.00088	0.00317	6.490	1.270	4.591	7.257	10.242	1.123	9.132	11.209
ENSG00000100271	TTLL1	-1.5	8.3E-05	0.00042	8.918	1.602	6.705	10.297	12.537	0.954	11.320	13.651
ENSG00000182463	TSHZ2	-1.5	1.7E-06	1.4E-05	2.626	0.300	2.248	2.983	3.906	0.106	3.783	3.995
ENSG00000155428	TRIM74	-1.5	0.01194	0.02844	1.588	0.227	1.369	1.834	2.546	0.368	2.060	2.955
ENSG00000071575	TRIB2	-1.5	2.6E-08	3.4E-07	13.874	1.231	12.885	15.546	19.685	0.563	18.968	20.134
ENSG00000230359	TPI1P2	-1.5	0.02483	0.05234	2.736	1.198	1.024	3.813	4.254	0.392	3.831	4.588
ENSG00000271092	TMEM56-RV	-1.5	0.02865	0.05878	1.275	0.384	0.729	1.621	1.987	0.379	1.560	2.483
ENSG00000228158	TLE1P1	-1.5	0.0004	0.00163	12.609	1.810	9.983	14.132	19.977	1.084	19.096	21.316
ENSG00000251022	THAP9-AS1	-1.5	2.8E-07	2.9E-06	31.932	4.772	25.047	36.036	49.855	5.136	44.441	54.244
ENSG00000229950	TFAP2A-AS1	-1.5	0.00348	0.01013	2.924	0.768	2.250	3.832	4.448	0.416	4.085	4.809
ENSG00000137203	TFAP2A	-1.5	1E-07	1.2E-06	4.385	0.324	4.027	4.754	6.438	0.121	6.306	6.540
ENSG00000168769	TET2	-1.5	4E-05	0.00023	6.466	1.209	4.659	7.211	9.900	0.996	8.944	10.759
ENSG00000218336	TENM3	-1.5	2.8E-09	4.8E-08	24.557	2.702	20.530	26.244	37.294	1.636	35.059	38.517
ENSG00000148737	TCF7L2	-1.5	4.1E-08	5.1E-07	10.552	0.880	9.789	11.638	16.150	0.713	15.727	17.210

ENSG00000196628	TCF4	-1.5	4.6E-07	4.5E-06	2.838	0.464	2.176	3.209	4.148	0.241	3.933	4.357
ENSG00000176896	TCEANC	-1.5	0.00027	0.00117	2.035	0.234	1.690	2.213	3.099	0.549	2.522	3.568
ENSG00000177565	TBL1XR1	-1.5	0.00018	0.00084	18.476	3.944	12.710	21.084	28.339	2.119	26.191	30.160
ENSG00000101463	SYNDIG1	-1.5	0.00018	0.00084	4.763	0.664	4.187	5.694	6.815	0.547	6.124	7.463
ENSG00000254995	STX16-NPEPI	-1.5	0.00396	0.01128	1.185	0.237	1.026	1.529	1.962	0.516	1.384	2.398
ENSG00000242866	STRC	-1.5	0.02798	0.05766	0.246	0.027	0.208	0.267	0.377	0.107	0.236	0.460
ENSG00000260589	STAM-AS1	-1.5	0.00323	0.00952	2.279	0.506	1.531	2.612	3.410	0.499	2.663	3.689
ENSG00000263465	SRSF8	-1.5	8.35E-12	2.70E-10	41.999	1.956	39.099	43.245	62.406	0.375	62.144	62.939
ENSG00000110693	SOX6	-1.5	7.6E-08	9E-07	2.729	0.415	2.177	3.114	4.199	0.210	3.910	4.355
ENSG00000145147	SLIT2	-1.5	3.2E-09	5.4E-08	87.065	8.358	76.351	95.869	127.111	3.702	123.806	130.316
ENSG00000134294	SLC38A2	-1.5	3.6E-05	0.00021	156.761	27.425	116.843	179.325	227.095	7.191	216.333	231.021
ENSG00000253598	SLC10A5	-1.5	0.03098	0.06265	0.798	0.168	0.619	1.002	1.270	0.352	0.752	1.491
ENSG00000116991	SIPA1L2	-1.5	6.91E-10	1.4E-08	13.432	1.026	11.959	14.253	19.985	1.038	18.959	20.879
ENSG00000112246	SIM1	-1.5	0.00037	0.00152	3.501	0.839	2.279	4.112	5.344	0.515	4.669	5.746
ENSG00000168779	SHOX2	-1.5	1.2E-06	1E-05	5.536	0.566	5.141	6.360	8.197	0.800	7.019	8.696
ENSG00000137872	SEMA6D	-1.5	0.0008	0.00292	1.015	0.262	0.780	1.326	1.582	0.192	1.336	1.734
ENSG00000151967	SCHIP1	-1.5	0.0011	0.00385	0.918	0.185	0.728	1.109	1.234	0.118	1.148	1.397
ENSG00000124813	RUNX2	-1.5	8.1E-05	0.00042	3.264	0.256	2.910	3.510	4.906	0.381	4.480	5.407
ENSG00000108309	RUNDC3A	-1.5	0.00448	0.01252	0.986	0.119	0.833	1.118	1.455	0.321	1.281	1.936
ENSG00000230364	RPL4P3	-1.5	0.02396	0.05086	2.604	1.113	1.859	4.252	3.564	0.125	3.385	3.651
ENSG00000185483	ROR1	-1.5	1.8E-08	2.5E-07	6.891	0.683	6.059	7.640	10.323	0.332	9.924	10.596
ENSG00000115841	RMDN2	-1.5	0.00288	0.00864	1.736	0.652	0.927	2.523	2.537	0.177	2.330	2.764
ENSG00000141314	RHBDL3	-1.5	1.6E-06	1.3E-05	5.561	0.662	4.823	6.409	7.916	0.552	7.209	8.355
ENSG00000232104	RFX3-AS1	-1.5	0.08125	0.13907	1.332	0.689	0.712	2.228	2.016	0.522	1.408	2.451
ENSG00000248643	RBM14-RBM	-1.5	0.00112	0.00392	2.338	0.183	2.097	2.541	3.679	0.375	3.170	3.962
ENSG00000122257	RBBP6	-1.5	5.5E-06	4E-05	27.596	4.936	20.314	31.225	40.743	1.511	39.434	42.051
ENSG00000123094	RASSF8	-1.5	0.00035	0.00144	20.491	4.300	14.371	24.134	29.179	2.275	26.617	31.095
ENSG00000171522	PTGER4	-1.5	2.5E-05	0.00015	2.736	0.402	2.384	3.248	4.141	0.272	3.779	4.350
ENSG00000111215	PRR4	-1.5	0.01962	0.04315	1.201	0.516	0.630	1.850	1.988	0.451	1.505	2.373
ENSG00000185532	PRKG1	-1.5	3.1E-07	3.2E-06	5.064	0.701	4.086	5.599	7.282	0.165	7.141	7.449
ENSG00000106536	POU6F2	-1.5	0.00019	0.00089	1.126	0.094	1.055	1.255	1.647	0.241	1.439	1.877
ENSG00000214783	POLR2J4	-1.5	0.0004	0.00164	1.192	0.207	0.988	1.421	1.759	0.070	1.702	1.846
ENSG00000240694	PNMA2	-1.5	1.1E-08	1.6E-07	9.830	0.865	8.844	10.796	14.470	0.666	14.050	15.465
ENSG00000136040	PLXNC1	-1.5	0.01552	0.03552	0.558	0.248	0.257	0.811	0.903	0.118	0.763	1.000
ENSG00000162407	PLPP3	-1.5	4.2E-07	4.1E-06	7.456	0.541	7.014	8.196	10.972	0.394	10.719	11.560
ENSG00000182621	PLCB1	-1.5	8.2E-05	0.00042	7.697	1.526	5.458	8.718	11.316	0.582	10.788	11.820
ENSG00000105499	PLA2G4C	-1.5	6.7E-05	0.00035	2.292	0.488	1.805	2.932	3.446	0.421	2.874	3.764
ENSG00000171033	PKIA	-1.5	1.9E-06	1.5E-05	6.491	0.938	5.202	7.441	10.010	0.373	9.507	10.293

ENSG00000145675	PIK3R1	-1.5	0.00026	0.00113	7.654	1.660	5.240	9.020	11.633	1.067	10.563	12.550
ENSG00000134853	PDGFRA	-1.5	0.00633	0.01672	0.972	0.135	0.845	1.090	1.491	0.256	1.130	1.672
ENSG00000145431	PDGFC	-1.5	1.3E-09	2.5E-08	15.361	1.332	13.639	16.890	23.141	0.615	22.218	23.451
ENSG00000168300	PCMTD1	-1.5	0.00044	0.00177	13.185	2.857	9.364	16.047	19.661	2.541	17.255	21.857
ENSG00000240764	PCDHGC5	-1.5	0.06583	0.11692	0.261	0.071	0.182	0.350	0.456	0.099	0.315	0.548
ENSG00000253731	PCDHGA6	-1.5	0.00022	0.00098	1.502	0.288	1.276	1.881	2.352	0.291	2.089	2.604
ENSG00000113212	PCDHB7	-1.5	0.00023	0.00102	2.730	0.466	2.116	3.247	3.973	0.168	3.748	4.156
ENSG00000113205	PCDHB3	-1.5	0.00223	0.00704	1.520	0.189	1.344	1.788	2.525	0.611	1.915	3.051
ENSG00000187372	PCDHB13	-1.5	1.8E-06	1.5E-05	6.522	0.663	5.627	7.095	9.596	0.117	9.439	9.684
ENSG00000120324	PCDHB10	-1.5	8.1E-06	5.7E-05	5.429	0.412	4.947	5.954	7.907	0.593	7.070	8.469
ENSG00000204962	PCDHA8	-1.5	0.00357	0.01034	0.981	0.165	0.754	1.144	1.396	0.261	1.059	1.603
ENSG00000223891	OSER1-AS1	-1.5	0.00051	0.002	5.548	0.642	4.708	6.252	7.830	0.650	7.298	8.623
ENSG00000180530	NRIP1	-1.5	4.8E-05	0.00026	9.083	1.844	6.340	10.306	13.684	1.290	12.408	14.795
ENSG00000153234	NR4A2	-1.5	0.0022	0.00696	1.594	0.312	1.300	2.022	2.207	0.203	1.907	2.333
ENSG00000185551	NR2F2	-1.5	5.2E-09	8.3E-08	18.481	1.577	16.552	19.846	26.438	1.071	25.793	28.041
ENSG00000174738	NR1D2	-1.5	4.7E-07	4.5E-06	31.949	5.435	24.193	36.293	48.209	2.575	45.026	50.302
ENSG00000168743	NPNT	-1.5	3.1E-07	3.1E-06	17.742	2.570	14.419	20.386	26.715	2.578	24.051	28.924
ENSG00000255524	NPIP8	-1.5	0.02907	0.05954	0.949	0.135	0.864	1.150	1.341	0.130	1.269	1.535
ENSG00000173614	NMNAT1	-1.5	2.9E-06	2.2E-05	6.105	0.690	5.253	6.895	8.838	0.592	8.340	9.507
ENSG00000177453	NIM1K	-1.5	0.04421	0.08421	0.683	0.186	0.571	0.962	0.924	0.110	0.838	1.067
ENSG00000140396	NCOA2	-1.5	0.00039	0.00159	17.087	3.629	11.666	19.306	24.369	0.507	23.616	24.723
ENSG00000186310	NAP1L3	-1.5	1.5E-05	9.6E-05	4.968	0.498	4.276	5.417	7.486	0.729	6.667	8.101
ENSG00000188613	NANOS1	-1.5	1.6E-07	1.8E-06	6.633	0.219	6.442	6.884	9.617	0.394	9.111	9.929
ENSG00000281026	N4BP2L2-IT2	-1.5	0.00229	0.00719	1.132	0.334	0.780	1.547	1.702	0.259	1.448	1.925
ENSG00000166866	MYO1A	-1.5	0.00832	0.02107	0.591	0.106	0.466	0.721	0.978	0.162	0.798	1.114
ENSG00000059728	MXD1	-1.5	2E-08	2.7E-07	7.012	0.771	5.880	7.611	10.383	0.195	10.190	10.551
ENSG00000262902	MTCO1P40	-1.5	0.00094	0.00335	9.640	0.839	8.920	10.807	14.479	1.919	12.838	17.255
ENSG00000262454	MIR193BHG	-1.5	0.02879	0.05903	1.701	0.652	0.766	2.283	2.547	0.194	2.257	2.660
ENSG00000221184	MIR1254-1	-1.5	0.0536	0.09862	23.572	10.497	7.850	29.490	39.060	8.819	25.910	44.804
ENSG00000233325	MIPEPP3	-1.5	0.05737	0.10433	2.788	0.868	1.962	3.864	4.004	0.642	3.620	4.957
ENSG00000203740	METTL11B	-1.5	0.01551	0.03552	2.342	0.062	2.263	2.403	3.208	0.499	2.783	3.743
ENSG00000134138	MEIS2	-1.5	4E-08	5E-07	4.388	0.480	3.738	4.831	6.368	0.072	6.309	6.455
ENSG00000102316	MAGED2	-1.5	5.34E-10	1.1E-08	275.826	12.229	267.236	293.947	387.932	7.261	379.853	397.511
ENSG00000188993	LRRRC66	-1.5	0.00196	0.00632	1.561	0.248	1.196	1.739	2.456	0.356	1.936	2.685
ENSG00000185158	LRRRC37B	-1.5	2E-07	2.1E-06	6.182	0.636	5.440	6.839	9.276	0.783	8.536	9.953
ENSG00000230069	LRRRC37A15P	-1.5	0.0215	0.0465	2.337	0.452	1.675	2.698	3.288	0.471	2.613	3.710
ENSG00000163431	LMOD1	-1.5	6E-05	0.00032	2.963	0.354	2.646	3.468	4.412	0.371	4.098	4.824
ENSG00000239335	LLPH-AS1	-1.5	0.01358	0.03177	5.738	1.441	3.708	6.860	8.993	0.789	7.955	9.876

ENSG00000246876	LINC02466	-1.5	0.01213	0.0288	1.579	0.259	1.240	1.860	2.356	0.633	1.535	3.080
ENSG00000267767	LINC01801	-1.5	0.00124	0.00425	3.081	0.657	2.621	4.032	4.531	0.417	3.907	4.783
ENSG00000179935	LINC00652	-1.5	0.00011	0.00055	2.365	0.254	2.059	2.644	3.343	0.035	3.295	3.379
ENSG00000245526	LINC00461	-1.5	0.01418	0.03296	0.978	0.450	0.592	1.623	1.470	0.240	1.121	1.628
ENSG00000203441	LINC00449	-1.5	0.01191	0.02839	3.406	0.526	3.098	4.191	4.656	0.322	4.391	5.044
ENSG00000224843	LINC00240	-1.5	0.03001	0.06108	0.514	0.159	0.392	0.747	0.734	0.094	0.668	0.867
ENSG00000111052	LIN7A	-1.5	1.2E-05	7.8E-05	2.813	0.408	2.222	3.096	4.158	0.585	3.316	4.555
ENSG00000172086	KRCC1	-1.5	1.1E-08	1.6E-07	34.697	3.683	29.282	37.530	51.110	2.044	49.194	52.876
ENSG00000227268	KLLN	-1.5	1.7E-05	0.00011	4.258	0.413	3.641	4.494	6.316	0.950	5.142	7.087
ENSG00000109787	KLF3	-1.5	7.2E-09	1.1E-07	29.365	2.636	25.994	31.805	43.112	1.790	40.567	44.363
ENSG00000250305	KIAA1456	-1.5	0.00038	0.00155	0.976	0.194	0.715	1.184	1.499	0.058	1.414	1.534
ENSG00000115548	KDM3A	-1.5	9.8E-09	1.5E-07	16.347	1.858	13.769	18.062	23.071	1.030	22.094	23.961
ENSG00000120696	KBTBD7	-1.5	2.1E-08	2.8E-07	16.788	1.696	14.519	18.542	23.759	1.324	22.563	24.905
ENSG00000177606	JUN	-1.5	9.29E-10	1.8E-08	98.631	6.059	91.710	106.485	141.456	1.989	138.844	143.685
ENSG00000008083	JARID2	-1.5	2.28E-10	5.1E-09	28.882	1.611	26.685	30.552	43.356	1.796	41.091	44.798
ENSG00000176049	JAKMIP2	-1.5	2.3E-07	2.4E-06	5.308	0.777	4.215	5.993	7.678	0.244	7.341	7.926
ENSG00000077684	JADE1	-1.5	2.4E-09	4.3E-08	15.465	1.492	13.291	16.669	22.190	1.291	20.850	23.296
ENSG00000105855	ITGB8	-1.5	0.00013	0.00064	3.134	0.708	2.097	3.598	4.674	0.378	4.301	5.000
ENSG00000105655	ISYNA1	-1.5	1.3E-09	2.4E-08	109.259	4.606	102.670	112.996	154.203	1.426	152.288	155.742
ENSG00000185950	IRS2	-1.5	1.5E-09	2.8E-08	13.044	1.005	12.014	13.929	19.365	0.293	19.114	19.669
ENSG00000168264	IRF2BP2	-1.5	4.22E-11	1.1E-09	49.182	3.191	46.295	52.379	74.730	0.148	74.517	74.860
ENSG00000250492	INTS6P1	-1.5	0.00128	0.00438	1.644	0.171	1.427	1.836	2.504	0.405	2.018	2.838
ENSG00000168918	INPP5D	-1.5	8.91E-10	1.7E-08	9.968	0.331	9.491	10.254	15.237	0.198	15.001	15.401
ENSG00000099377	HSD3B7	-1.5	0.00031	0.00132	2.991	0.245	2.669	3.190	4.499	0.149	4.412	4.722
ENSG00000125430	HS3ST3B1	-1.5	1.2E-06	1.1E-05	6.125	0.545	5.448	6.753	8.777	0.147	8.695	8.997
ENSG00000135547	HEY2	-1.5	0.00018	0.00082	5.231	0.920	4.583	6.552	7.118	0.440	6.752	7.634
ENSG00000253203	GUSBP3	-1.5	0.00072	0.00268	3.718	0.488	3.212	4.381	5.607	0.451	5.017	5.959
ENSG00000123201	GUCY1B2	-1.5	0.01501	0.03453	1.186	0.299	0.744	1.388	1.696	0.378	1.189	1.984
ENSG00000196275	GTF2IRD2	-1.5	0.00139	0.0047	0.748	0.127	0.634	0.926	1.030	0.132	0.956	1.228
ENSG00000046653	GPM6B	-1.5	2E-05	0.00012	2.870	0.438	2.268	3.220	4.210	0.237	3.971	4.414
ENSG00000278175	GLIDR	-1.5	7E-06	5E-05	3.361	0.295	3.109	3.676	5.006	0.486	4.390	5.396
ENSG00000106571	GLI3	-1.5	1.7E-08	2.3E-07	11.589	0.562	10.879	12.253	17.970	0.810	16.900	18.598
ENSG00000164949	GEM	-1.5	1.5E-06	1.3E-05	9.583	1.226	8.682	11.373	13.755	0.525	13.130	14.415
ENSG00000164404	GDF9	-1.5	0.02164	0.04672	0.934	0.302	0.533	1.258	1.444	0.342	0.982	1.703
ENSG00000174804	FZD4	-1.5	2.9E-07	3E-06	13.816	1.646	11.602	15.529	19.403	1.016	18.757	20.893
ENSG00000106701	FSD1L	-1.5	0.00082	0.00301	5.177	1.034	3.636	5.804	8.002	1.773	6.111	9.514
ENSG00000053254	FOXN3	-1.5	4.30E-10	9E-09	15.517	1.344	13.864	17.098	22.293	0.435	21.648	22.555
ENSG00000118407	FILIP1	-1.5	6.5E-05	0.00034	1.493	0.247	1.178	1.761	2.052	0.043	2.024	2.115

ENSG00000176971	FIBIN	-1.5	0.00016	0.00077	5.240	0.980	4.182	6.169	7.189	0.889	6.421	8.024
ENSG00000168143	FAM83B	-1.5	1.9E-05	0.00012	7.530	1.264	5.771	8.704	10.776	0.476	10.428	11.436
ENSG00000145945	FAM50B	-1.5	5.7E-05	0.00031	6.232	0.442	5.640	6.581	9.116	0.936	7.724	9.748
ENSG00000112773	FAM46A	-1.5	6.1E-06	4.4E-05	5.097	0.724	4.227	5.736	7.215	0.260	6.834	7.380
ENSG00000235618	FAM21EP	-1.5	0.00662	0.01738	1.108	0.150	0.975	1.325	1.651	0.303	1.491	2.105
ENSG00000186973	FAM183A	-1.5	0.00768	0.0197	4.259	0.983	3.071	5.467	6.568	1.165	5.404	7.570
ENSG00000248019	FAM13A-AS1	-1.5	0.00677	0.01772	0.715	0.159	0.493	0.844	1.122	0.174	0.871	1.238
ENSG00000145242	EPHA5	-1.5	1.6E-05	0.0001	2.034	0.329	1.552	2.293	2.847	0.106	2.732	2.937
ENSG00000224032	EPB41L4A-A'	-1.5	5.7E-09	9E-08	18.339	0.418	17.852	18.872	25.747	0.633	24.849	26.192
ENSG00000184349	EFNA5	-1.5	2E-08	2.7E-07	9.975	0.742	9.307	10.907	14.421	0.455	13.744	14.733
ENSG00000186976	EFCAB6	-1.5	9.2E-05	0.00046	1.418	0.197	1.207	1.680	2.071	0.060	1.983	2.107
ENSG00000245205	EEF1A1P4	-1.5	0.00105	0.00368	5.663	0.951	4.386	6.673	7.892	0.723	6.811	8.330
ENSG00000179532	DNHD1	-1.5	4.9E-06	3.7E-05	1.495	0.174	1.279	1.681	2.378	0.363	2.017	2.690
ENSG00000176124	DLEU1	-1.5	7.8E-06	5.4E-05	1.399	0.151	1.194	1.558	2.003	0.046	1.971	2.068
ENSG00000204311	DFNB59	-1.5	0.00076	0.00282	2.214	0.430	1.876	2.835	3.164	0.336	2.686	3.474
ENSG00000134574	DDB2	-1.5	2.78E-11	7.71E-10	65.925	0.636	65.198	66.657	98.379	3.799	92.710	100.539
ENSG00000186529	CYP4F3	-1.5	0.00112	0.00391	1.113	0.207	0.868	1.372	1.724	0.119	1.546	1.793
ENSG00000138161	CUZD1	-1.5	7.2E-05	0.00038	4.276	0.622	3.624	5.063	5.789	0.733	5.250	6.802
ENSG00000077063	CTTNBP2	-1.5	1.2E-06	1.1E-05	3.317	0.321	3.076	3.767	4.719	0.175	4.599	4.979
ENSG00000178662	CSRNP3	-1.5	0.00021	0.00095	2.797	0.646	1.897	3.321	4.200	0.376	3.800	4.520
ENSG00000143578	CREB3L4	-1.5	2.9E-05	0.00017	9.229	0.594	8.496	9.850	13.509	0.767	13.020	14.633
ENSG00000106034	CPED1	-1.5	0.00732	0.01894	0.721	0.189	0.521	0.968	0.992	0.094	0.911	1.081
ENSG00000214575	CPEB1	-1.5	4.2E-05	0.00023	2.231	0.229	2.021	2.476	3.378	0.263	3.017	3.573
ENSG00000080573	COL5A3	-1.5	0.01405	0.0327	0.453	0.096	0.327	0.561	0.707	0.149	0.548	0.908
ENSG00000011021	CLCN6	-1.5	7.7E-07	7E-06	7.567	0.577	7.078	8.376	10.832	0.525	10.046	11.117
ENSG00000164442	CITED2	-1.5	2.4E-09	4.3E-08	45.435	2.354	42.413	48.146	66.056	1.195	65.263	67.790
ENSG00000183196	CHST6	-1.5	6.1E-05	0.00033	0.979	0.100	0.882	1.096	1.447	0.115	1.349	1.614
ENSG00000111860	CEP85L	-1.5	0.00019	0.00087	6.732	1.587	4.468	8.109	10.077	0.814	8.999	10.707
ENSG00000135315	CEP162	-1.5	0.02286	0.04893	8.661	3.106	4.006	10.312	12.903	1.519	11.019	14.135
ENSG00000117724	CENPF	-1.5	0.0646	0.11512	57.903	21.623	25.748	71.338	85.800	10.949	73.945	95.110
ENSG00000048740	CELF2	-1.5	7.7E-07	7.1E-06	10.506	1.824	7.962	12.228	15.683	0.673	14.912	16.248
ENSG00000147883	CDKN2B	-1.5	1.9E-09	3.4E-08	16.268	0.837	15.293	17.304	23.535	0.566	22.986	24.329
ENSG00000163171	CDC42EP3	-1.5	2.1E-09	3.7E-08	15.216	1.185	13.455	15.925	21.557	0.927	20.514	22.338
ENSG00000184305	CCSER1	-1.5	0.00116	0.00402	0.682	0.187	0.503	0.929	0.969	0.078	0.864	1.054
ENSG00000186409	CCDC30	-1.5	0.0002	0.00092	1.118	0.203	0.884	1.297	1.658	0.118	1.501	1.749
ENSG00000104957	CCDC130	-1.5	3.3E-06	2.6E-05	13.968	0.974	13.401	15.426	19.694	1.856	18.091	21.470
ENSG00000272168	CASC15	-1.5	0.00735	0.01899	0.295	0.014	0.275	0.307	0.381	0.046	0.331	0.420
ENSG00000204682	CASC10	-1.5	6.3E-05	0.00033	5.082	0.451	4.567	5.654	6.922	0.629	6.422	7.728

ENSG00000145349	CAMK2D	-1.5	2.3E-08	3.1E-07	17.053	2.174	14.159	19.341	24.534	1.168	23.083	25.481
ENSG00000183049	CAMK1D	-1.5	2.7E-07	2.8E-06	4.645	0.395	4.353	5.214	6.731	0.152	6.526	6.846
ENSG00000153956	CACNA2D1	-1.5	6.5E-06	4.7E-05	9.577	1.473	7.426	10.697	14.363	1.335	13.024	15.511
ENSG00000169239	CA5B	-1.5	7.1E-08	8.4E-07	5.678	0.310	5.265	6.004	8.370	0.400	8.060	8.899
ENSG00000164743	C8orf48	-1.5	0.00053	0.00208	4.292	0.753	3.629	5.375	6.369	0.565	5.544	6.735
ENSG00000164746	C7orf57	-1.5	0.0284	0.05839	1.100	0.238	0.908	1.425	1.381	0.635	0.842	2.071
ENSG00000182326	C1S	-1.5	3E-06	2.4E-05	3.866	0.389	3.535	4.287	5.726	0.215	5.518	6.028
ENSG00000143110	C1orf162	-1.5	0.00939	0.02333	1.222	0.252	0.919	1.476	1.810	0.265	1.512	2.156
ENSG00000010671	BTK	-1.5	0.06188	0.11102	0.401	0.146	0.258	0.562	0.574	0.063	0.523	0.652
ENSG00000183336	BOLA2	-1.5	0.00677	0.01772	1.672	0.189	1.532	1.948	2.450	0.373	2.143	2.993
ENSG00000138696	BMPR1B	-1.5	1.9E-05	0.00012	4.883	0.533	4.255	5.440	7.439	0.978	5.993	8.038
ENSG00000153094	BCL2L11	-1.5	1.1E-08	1.6E-07	14.123	1.201	12.627	15.116	21.028	0.240	20.762	21.230
ENSG00000176788	BASP1	-1.5	3.00E-10	6.5E-09	181.933	9.009	174.752	194.976	269.107	11.216	259.495	280.689
ENSG00000100852	ARHGAP5	-1.5	0.00082	0.00299	23.598	5.422	15.486	26.847	35.417	3.449	32.158	38.398
ENSG00000004777	ARHGAP33	-1.5	0.00039	0.00159	3.595	0.308	3.194	3.942	5.278	0.307	5.017	5.722
ENSG00000126016	AMOT	-1.5	2E-09	3.6E-08	16.013	1.811	13.832	17.957	24.517	0.885	23.609	25.276
ENSG00000279355	AGPAT4-IT1	-1.5	0.02115	0.0459	1.712	0.736	0.846	2.579	2.735	0.079	2.657	2.803
ENSG00000233435	AGGF1P2	-1.5	3.1E-05	0.00018	10.407	1.980	7.999	12.647	16.828	1.551	15.038	18.124
ENSG00000214273	AGGF1P1	-1.5	2.3E-05	0.00014	5.811	1.088	4.536	6.911	8.943	0.717	8.250	9.562
ENSG00000198221	AFDN-AS1	-1.5	0.00128	0.00438	1.820	0.262	1.538	2.128	2.764	0.028	2.726	2.793
ENSG00000142303	ADAMTS10	-1.5	6.5E-07	6.1E-06	4.928	0.452	4.513	5.401	7.233	0.063	7.141	7.273
ENSG00000241547	ACTG1P20	-1.5	0.01577	0.03599	5.226	1.128	3.735	6.298	7.362	2.735	5.113	10.662
ENSG00000087085	ACHE	-1.5	0.00072	0.0027	3.210	0.474	2.571	3.706	4.977	0.984	3.581	5.894
ENSG00000223764		-1.5	2E-08	2.7E-07	16.606	1.118	15.368	18.031	24.183	1.869	21.788	25.668
ENSG00000260293		-1.5	5.1E-07	5E-06	5.086	0.540	4.487	5.631	7.919	0.749	7.079	8.551
ENSG00000259943		-1.5	3.8E-06	2.9E-05	12.317	0.930	10.932	12.865	17.444	0.423	16.819	17.704
ENSG00000254815		-1.5	9.6E-06	6.5E-05	5.900	0.391	5.324	6.196	9.169	0.810	7.988	9.699
ENSG00000176593		-1.5	1.4E-05	9.1E-05	2.744	0.589	2.333	3.617	4.129	0.141	3.986	4.323
ENSG00000244627		-1.5	1.7E-05	0.0001	4.270	0.309	4.003	4.716	6.481	0.399	5.976	6.801
ENSG00000213976		-1.5	4.4E-05	0.00024	5.812	1.071	4.324	6.622	8.593	0.144	8.418	8.771
ENSG00000177822		-1.5	4.6E-05	0.00025	2.920	0.512	2.204	3.353	4.076	0.181	3.849	4.292
ENSG00000219665		-1.5	5.6E-05	0.0003	2.141	0.292	1.902	2.563	2.983	0.244	2.817	3.334
ENSG00000215158		-1.5	7.6E-05	0.00039	4.269	0.932	3.288	5.527	6.529	0.793	5.490	7.148
ENSG00000254701		-1.5	7.7E-05	0.0004	14.652	2.248	12.194	17.422	23.115	1.942	20.372	24.491
ENSG00000267506		-1.5	0.00011	0.00056	1.721	0.166	1.533	1.915	2.720	0.137	2.607	2.884
ENSG00000263745		-1.5	0.00014	0.00065	2.360	0.366	2.050	2.871	3.525	0.425	2.895	3.781
ENSG00000269399		-1.5	0.00014	0.00068	4.985	0.431	4.455	5.447	7.080	0.244	6.768	7.364
ENSG00000253366		-1.5	0.00018	0.00085	10.327	1.615	8.602	12.504	15.913	1.910	13.718	17.512

ENSG00000261116	-1.5	0.0002	0.0009	5.929	1.274	4.111	7.046	8.676	0.463	8.045	9.160
ENSG00000198237	-1.5	0.00024	0.00104	10.386	1.507	8.870	12.473	15.896	1.949	13.696	17.537
ENSG00000241288	-1.5	0.00027	0.00116	1.901	0.103	1.802	2.036	3.041	0.396	2.450	3.263
ENSG00000272301	-1.5	0.00032	0.00135	12.504	0.748	11.564	13.215	18.804	1.675	16.655	20.748
ENSG00000242622	-1.5	0.00045	0.00181	3.526	0.323	3.193	3.932	4.921	0.316	4.511	5.282
ENSG00000272870	-1.5	0.00046	0.00184	2.365	0.112	2.229	2.503	3.511	0.303	3.226	3.773
ENSG00000280239	-1.5	0.00056	0.00216	3.084	0.528	2.479	3.733	4.430	0.243	4.250	4.765
ENSG00000260966	-1.5	0.00064	0.00243	2.785	0.451	2.114	3.078	4.056	0.928	2.896	4.805
ENSG00000263412	-1.5	0.00071	0.00266	1.945	0.206	1.713	2.211	2.715	0.132	2.579	2.829
ENSG00000279520	-1.5	0.00171	0.00561	5.517	1.119	3.972	6.632	8.044	0.635	7.725	8.996
ENSG00000271109	-1.5	0.00181	0.0059	6.161	0.745	5.473	7.010	9.128	0.115	8.955	9.190
ENSG00000262877	-1.5	0.00188	0.00609	3.551	0.399	3.148	4.087	5.066	0.425	4.517	5.554
ENSG00000279369	-1.5	0.00224	0.00705	3.338	0.561	2.788	4.091	4.999	0.804	4.148	5.685
ENSG00000276728	-1.5	0.0023	0.0072	3.115	0.469	2.608	3.743	4.852	0.496	4.241	5.455
ENSG00000241764	-1.5	0.00248	0.00766	3.399	0.763	2.786	4.460	5.141	0.494	4.470	5.513
ENSG00000251432	-1.5	0.00305	0.00906	1.778	0.418	1.210	2.110	2.427	0.247	2.284	2.795
ENSG00000261578	-1.5	0.00356	0.01033	1.117	0.088	1.017	1.230	1.443	0.116	1.344	1.611
ENSG00000267284	-1.5	0.00415	0.01176	3.593	0.946	2.809	4.877	5.291	0.354	4.825	5.566
ENSG00000279673	-1.5	0.00432	0.01214	2.035	0.398	1.481	2.392	2.882	0.205	2.578	3.007
ENSG00000271918	-1.5	0.00445	0.01245	2.716	0.399	2.444	3.295	4.060	0.572	3.610	4.899
ENSG00000266490	-1.5	0.0053	0.0144	10.123	2.674	8.256	14.086	15.435	1.250	13.600	16.230
ENSG00000259366	-1.5	0.00542	0.01466	12.363	3.268	8.061	15.901	17.251	2.628	13.944	19.364
ENSG00000241170	-1.5	0.00598	0.0159	1.935	0.275	1.556	2.187	3.119	0.371	2.732	3.437
ENSG00000268670	-1.5	0.00671	0.01759	4.812	1.007	4.094	6.273	7.102	0.698	6.354	7.697
ENSG00000224046	-1.5	0.00697	0.01815	3.441	0.611	2.744	4.116	4.981	0.668	4.599	5.982
ENSG00000228395	-1.5	0.00723	0.01875	2.019	0.525	1.408	2.575	3.015	0.439	2.698	3.629
ENSG00000272195	-1.5	0.00728	0.01885	1.774	0.133	1.576	1.864	2.632	0.164	2.407	2.800
ENSG00000277383	-1.5	0.00751	0.01935	5.726	1.557	3.798	7.373	8.415	0.413	8.021	8.772
ENSG00000279873	-1.5	0.00762	0.01956	2.538	0.756	1.665	3.402	4.185	0.020	4.168	4.205
ENSG00000258472	-1.5	0.0086	0.02168	0.808	0.148	0.705	1.026	1.126	0.090	1.025	1.202
ENSG00000279511	-1.5	0.00883	0.02217	1.574	0.504	0.847	1.989	2.398	0.119	2.231	2.512
ENSG00000260461	-1.5	0.00907	0.02263	1.160	0.233	0.932	1.481	1.869	0.197	1.710	2.157
ENSG00000267546	-1.5	0.01019	0.0249	2.331	0.669	1.733	2.978	3.573	0.930	2.734	4.378
ENSG00000254165	-1.5	0.01141	0.02737	3.120	0.789	2.694	4.302	4.892	0.639	4.092	5.408
ENSG00000272630	-1.5	0.01166	0.02788	1.127	0.351	0.608	1.360	1.641	0.394	1.327	2.143
ENSG00000271971	-1.5	0.01338	0.03137	7.631	1.722	5.614	9.664	12.768	3.334	9.185	15.607
ENSG00000239763	-1.5	0.01431	0.03322	9.420	0.392	9.072	9.981	13.721	1.462	12.480	15.314
ENSG00000225420	-1.5	0.01734	0.03899	2.300	0.734	1.569	3.002	3.399	0.630	3.014	4.330

ENSG00000231728		-1.5	0.01857	0.04121	3.130	1.008	1.742	3.925	4.250	0.370	4.016	4.793
ENSG00000271895		-1.5	0.01933	0.04261	5.444	1.527	3.653	6.776	8.232	0.833	7.401	9.389
ENSG00000280061		-1.5	0.02041	0.04461	1.017	0.289	0.620	1.291	1.434	0.271	1.098	1.761
ENSG00000263884		-1.5	0.02195	0.04732	1.180	0.207	0.923	1.429	1.512	0.259	1.209	1.843
ENSG00000256092		-1.5	0.02208	0.04755	1.469	0.425	1.213	2.100	2.323	0.353	2.007	2.628
ENSG00000259349		-1.5	0.02294	0.04907	3.149	1.226	2.052	4.216	4.667	0.238	4.376	4.959
ENSG00000235946		-1.5	0.0232	0.04953	4.636	0.684	3.685	5.220	7.072	1.179	6.017	8.762
ENSG00000258357		-1.5	0.02421	0.05128	3.200	0.750	2.522	4.100	4.007	1.230	2.966	5.365
ENSG00000234996		-1.5	0.02488	0.05244	1.258	0.292	0.822	1.444	2.025	0.440	1.624	2.406
ENSG00000279347		-1.5	0.02639	0.05502	2.554	0.426	2.023	2.935	3.980	0.287	3.771	4.379
ENSG00000272812		-1.5	0.03034	0.0616	3.751	0.465	3.184	4.153	5.452	0.837	4.242	6.169
ENSG00000226853		-1.5	0.03542	0.07015	2.642	0.388	2.296	3.167	3.521	0.584	2.645	3.832
ENSG00000273007		-1.5	0.03551	0.07028	1.157	0.150	1.063	1.380	1.560	0.293	1.307	1.838
ENSG00000227885		-1.5	0.03604	0.07115	2.604	1.067	1.560	4.095	4.258	0.946	2.841	4.805
ENSG00000248015		-1.5	0.04176	0.08029	1.031	0.482	0.424	1.602	1.493	0.156	1.385	1.716
ENSG00000269974		-1.5	0.05091	0.09466	4.489	2.527	2.312	7.272	6.511	1.477	5.441	8.572
ENSG00000204584		-1.5	0.05514	0.10093	0.962	0.387	0.561	1.441	1.575	0.172	1.346	1.763
ENSG00000261251		-1.5	0.05652	0.10305	1.412	0.489	0.840	1.925	1.766	0.438	1.450	2.379
ENSG00000279199		-1.5	0.1086	0.17621	0.903	0.360	0.543	1.389	1.271	0.405	1.058	1.878
ENSG00000151612	ZNF827	-1.6	7.4E-07	6.8E-06	5.824	0.945	4.466	6.622	9.263	0.113	9.162	9.425
ENSG00000164684	ZNF704	-1.6	2.7E-08	3.5E-07	10.126	1.298	8.217	11.125	15.927	0.791	15.112	16.605
ENSG00000183779	ZNF703	-1.6	1.3E-08	1.8E-07	69.027	7.686	59.388	77.823	109.829	1.808	107.551	111.282
ENSG00000188295	ZNF669	-1.6	0.00034	0.00141	4.360	0.654	3.615	5.210	6.743	0.853	5.474	7.317
ENSG00000269834	ZNF528-AS1	-1.6	6E-08	7.2E-07	9.274	1.047	8.252	10.238	14.891	1.641	12.763	16.184
ENSG00000198795	ZNF521	-1.6	2.4E-06	1.9E-05	4.357	0.836	3.448	5.457	6.538	0.195	6.384	6.790
ENSG00000165244	ZNF367	-1.6	7.36E-11	1.8E-09	42.106	3.767	36.919	45.783	63.914	2.685	60.350	65.986
ENSG00000176293	ZNF135	-1.6	3.9E-06	3E-05	1.595	0.169	1.376	1.769	2.452	0.243	2.299	2.809
ENSG00000100027	YPEL1	-1.6	3E-08	3.8E-07	7.288	0.625	6.592	8.025	11.150	0.692	10.562	11.899
ENSG00000143184	XCL1	-1.6	0.01571	0.03586	2.047	0.483	1.448	2.533	3.508	0.764	2.473	4.085
ENSG00000255282	WTAPP1	-1.6	0.00248	0.00765	0.977	0.237	0.664	1.240	1.565	0.269	1.208	1.772
ENSG00000114251	WNT5A	-1.6	1.3E-08	1.9E-07	7.054	0.804	6.016	7.959	11.404	1.190	10.172	12.423
ENSG00000002745	WNT16	-1.6	0.00745	0.0192	1.051	0.065	0.975	1.121	1.857	0.114	1.686	1.925
ENSG00000187650	VMAC	-1.6	4E-05	0.00023	3.914	0.423	3.455	4.431	6.805	0.867	5.715	7.503
ENSG00000147852	VLDLR	-1.6	1.2E-09	2.3E-08	8.007	0.723	7.062	8.773	12.311	0.236	12.186	12.665
ENSG00000197355	UAP1L1	-1.6	2.53E-10	5.6E-09	24.957	1.351	23.739	26.381	37.210	2.424	35.151	39.853
ENSG00000164938	TP53INP1	-1.6	3.2E-08	4.1E-07	29.665	4.176	23.715	32.662	47.988	2.373	45.635	50.032
ENSG00000101470	TNNC2	-1.6	0.00941	0.02336	3.129	0.982	2.246	4.520	4.365	0.192	4.124	4.594
ENSG00000154310	TNIK	-1.6	7.6E-09	1.2E-07	13.994	1.888	11.505	15.777	21.207	0.298	20.907	21.619

ENSG00000147003	TMEM27	-1.6	0.00541	0.01463	1.727	0.508	1.108	2.335	2.825	0.277	2.448	3.033
ENSG00000274386	TMEM269	-1.6	0.00118	0.00408	1.327	0.164	1.211	1.563	2.341	0.415	1.976	2.700
ENSG00000261115	TMEM178B	-1.6	1E-07	1.2E-06	3.229	0.315	2.887	3.636	5.104	0.320	4.698	5.360
ENSG00000144339	TMEFF2	-1.6	0.01135	0.02728	0.309	0.062	0.251	0.378	0.481	0.069	0.379	0.534
ENSG00000239405	TMED10P2	-1.6	0.00184	0.00598	4.679	0.904	3.853	5.688	7.551	0.586	6.673	7.890
ENSG00000106829	TLE4	-1.6	1.5E-09	2.8E-08	10.201	0.657	9.673	11.160	16.170	0.914	14.822	16.849
ENSG00000187720	THSD4	-1.6	1.20E-10	2.8E-09	5.248	0.087	5.164	5.351	8.541	0.341	8.202	8.835
ENSG00000167074	TEF	-1.6	1.5E-09	2.8E-08	10.446	0.773	9.572	11.252	15.964	0.819	15.531	17.191
ENSG00000135111	TBX3	-1.6	2.27E-10	5.1E-09	12.354	0.837	11.592	13.150	19.236	1.331	17.873	20.378
ENSG00000198075	SULT1C4	-1.6	0.00299	0.00891	1.169	0.162	0.946	1.306	1.838	0.394	1.444	2.385
ENSG00000145687	SSBP2	-1.6	4.24E-12	1.50E-10	10.332	0.246	10.069	10.662	16.605	0.644	15.677	17.040
ENSG00000149634	SPATA25	-1.6	0.01661	0.03763	4.235	1.950	2.531	7.041	7.141	1.668	4.891	8.923
ENSG00000217236	SP9	-1.6	1.6E-05	0.0001	3.888	0.464	3.360	4.472	6.112	0.174	5.966	6.365
ENSG00000177732	SOX12	-1.6	6.48E-10	1.3E-08	23.775	1.991	21.248	25.692	37.154	0.787	36.200	37.800
ENSG00000120669	SOHLH2	-1.6	0.01714	0.03859	0.607	0.155	0.390	0.757	1.136	0.371	0.758	1.455
ENSG00000197989	SNHG12	-1.6	6.6E-09	1E-07	13.641	0.886	12.672	14.744	20.580	0.838	20.048	21.830
ENSG00000184347	SLIT3	-1.6	1.6E-05	0.0001	1.162	0.144	1.004	1.337	1.784	0.154	1.656	1.964
ENSG00000050438	SLC4A8	-1.6	1.8E-06	1.5E-05	1.408	0.233	1.069	1.598	2.325	0.291	1.934	2.547
ENSG00000137968	SLC44A5	-1.6	5.6E-05	0.0003	29.166	5.911	20.663	34.309	48.322	4.319	44.139	52.049
ENSG00000198879	SFMBT2	-1.6	2.7E-08	3.5E-07	6.725	0.652	5.764	7.214	10.578	0.133	10.432	10.755
ENSG00000082684	SEMA5B	-1.6	1.5E-06	1.3E-05	2.878	0.149	2.667	3.013	4.663	0.627	3.905	5.178
ENSG00000228451	SDAD1P1	-1.6	4E-05	0.00022	4.224	0.987	3.004	5.422	6.435	0.314	6.035	6.685
ENSG00000225953	SATB2-AS1	-1.6	0.00956	0.02364	0.665	0.113	0.560	0.818	1.103	0.265	0.892	1.441
ENSG00000004139	SARM1	-1.6	3.2E-08	4E-07	2.800	0.192	2.569	2.991	4.338	0.202	4.203	4.639
ENSG00000079102	RUNX1T1	-1.6	2.6E-06	2.1E-05	1.469	0.219	1.285	1.766	2.280	0.161	2.105	2.416
ENSG00000100784	RPS6KA5	-1.6	1.9E-07	2E-06	1.854	0.247	1.513	2.093	2.846	0.286	2.544	3.090
ENSG00000224892	RPS4XP16	-1.6	0.00334	0.00979	3.047	0.521	2.471	3.567	5.010	0.489	4.641	5.672
ENSG00000177519	RPRM	-1.6	3.2E-08	4E-07	19.923	1.798	18.033	21.931	30.660	1.075	29.873	32.249
ENSG00000140986	RPL3L	-1.6	0.01611	0.03664	0.853	0.223	0.663	1.176	1.475	0.419	0.911	1.793
ENSG00000170153	RNF150	-1.6	3.2E-08	4.1E-07	9.058	1.301	7.277	10.403	14.701	0.600	13.966	15.190
ENSG00000186479	RGS7BP	-1.6	0.00179	0.00585	0.867	0.203	0.653	1.113	1.365	0.218	1.040	1.507
ENSG00000223638	RFPL4A	-1.6	0.00202	0.00648	4.527	0.931	3.690	5.564	6.796	1.466	5.742	8.967
ENSG00000009413	REV3L	-1.6	0.00327	0.00962	14.409	4.051	8.339	16.699	22.975	1.910	20.961	24.606
ENSG00000151164	RAD9B	-1.6	0.00216	0.00683	2.115	0.492	1.700	2.714	3.537	0.799	2.422	4.117
ENSG00000050628	PTGER3	-1.6	0.02447	0.05174	0.243	0.153	0.115	0.458	0.388	0.030	0.358	0.413
ENSG00000244694	PTCHD4	-1.6	7.5E-07	7E-06	3.947	0.134	3.837	4.136	6.398	0.163	6.187	6.584
ENSG00000150687	PRSS23	-1.6	4.61E-12	1.61E-10	23.987	0.681	23.353	24.682	36.402	0.284	36.105	36.788
ENSG00000152784	PRDM8	-1.6	0.0077	0.01974	0.468	0.132	0.353	0.623	0.798	0.132	0.632	0.904

ENSG00000061455	PRDM6	-1.6	3.2E-08	4.1E-07	3.934	0.433	3.314	4.240	6.515	0.461	5.957	6.893
ENSG00000118557	PMFBP1	-1.6	0.00145	0.00486	1.020	0.260	0.726	1.330	1.721	0.315	1.386	1.990
ENSG00000125551	PLGLB2	-1.6	0.00889	0.02229	0.989	0.238	0.776	1.275	1.742	0.445	1.238	2.116
ENSG00000120278	PLEKHG1	-1.6	4.3E-09	7.1E-08	8.375	0.970	7.108	9.292	13.287	0.247	13.003	13.493
ENSG00000134627	PIWIL4	-1.6	0.00026	0.00112	1.276	0.296	1.002	1.639	2.028	0.266	1.689	2.240
ENSG00000139946	PELI2	-1.6	1.4E-07	1.6E-06	14.914	2.173	11.999	17.159	23.347	1.403	21.896	24.548
ENSG00000254122	PCDHGB7	-1.6	0.00306	0.00909	0.608	0.178	0.455	0.863	0.977	0.058	0.891	1.012
ENSG00000262209	PCDHGB3	-1.6	0.00115	0.004	1.028	0.268	0.635	1.241	1.567	0.220	1.288	1.827
ENSG00000081853	PCDHGA2	-1.6	0.04199	0.08065	0.263	0.078	0.181	0.368	0.379	0.088	0.286	0.499
ENSG00000120327	PCDHB14	-1.6	3.6E-07	3.6E-06	3.584	0.341	3.284	4.074	5.696	0.485	5.066	6.077
ENSG00000169851	PCDH7	-1.6	5.09E-10	1E-08	9.887	0.623	9.004	10.467	15.554	0.882	14.495	16.281
ENSG00000167081	PBX3	-1.6	1.3E-09	2.5E-08	14.441	0.398	14.122	15.018	22.104	0.193	21.851	22.320
ENSG00000267270	PARD6G-AS1	-1.6	0.00084	0.00305	0.902	0.221	0.623	1.121	1.457	0.130	1.263	1.530
ENSG00000116117	PARD3B	-1.6	1.9E-08	2.6E-07	3.480	0.212	3.291	3.703	5.543	0.281	5.220	5.778
ENSG00000180914	OXTR	-1.6	0.00732	0.01892	0.865	0.206	0.669	1.077	1.207	0.245	0.856	1.427
ENSG00000176046	NUPR1	-1.6	1.1E-06	1E-05	2.430	0.118	2.255	2.507	3.738	0.504	3.346	4.402
ENSG00000113580	NR3C1	-1.6	9.70E-11	2.4E-09	22.698	2.136	19.544	24.156	35.511	2.421	32.905	37.571
ENSG00000198156	NPIPB6	-1.6	0.00166	0.00547	1.323	0.111	1.216	1.476	1.988	0.381	1.660	2.354
ENSG00000162599	NFIA	-1.6	2.2E-08	3E-07	4.351	0.646	3.494	5.056	6.888	0.093	6.824	7.022
ENSG00000245532	NEAT1	-1.6	3E-07	3.1E-06	76.597	8.683	65.489	86.481	125.039	15.588	110.923	138.531
ENSG00000249437	NAIP	-1.6	5.8E-07	5.6E-06	1.711	0.183	1.483	1.914	2.786	0.232	2.571	2.987
ENSG00000255823	MTRNR2L8	-1.6	0.0014	0.00472	4.527	0.438	4.046	5.012	6.563	1.417	4.819	8.289
ENSG00000003987	MTMR7	-1.6	1.3E-05	8.7E-05	3.922	0.379	3.378	4.254	6.100	0.530	5.599	6.559
ENSG00000210151	MT-TS1	-1.6	0.036	0.0711	80.501	41.991	37.521	128.218	140.259	11.803	131.400	156.330
ENSG00000173531	MST1	-1.6	3.6E-05	0.00021	1.827	0.095	1.713	1.915	3.030	0.598	2.497	3.549
ENSG00000171843	MLLT3	-1.6	1.1E-08	1.6E-07	7.747	1.022	6.334	8.702	12.169	0.622	11.498	12.698
ENSG00000135679	MDM2	-1.6	2E-07	2.1E-06	121.517	17.121	96.607	134.808	201.327	21.664	178.536	219.843
ENSG00000277443	MARCKS	-1.6	7.91E-12	2.58E-10	134.649	4.359	130.760	138.940	203.288	11.154	192.025	212.875
ENSG00000251562	MALAT1	-1.6	7.9E-06	5.5E-05	69.186	7.618	58.195	74.518	107.023	16.914	85.852	120.671
ENSG00000150551	LYPD1	-1.6	1.6E-08	2.2E-07	12.147	0.751	11.609	13.259	18.389	0.994	17.528	19.286
ENSG00000176204	LRRTM4	-1.6	1.7E-05	0.00011	2.025	0.308	1.601	2.322	2.951	0.031	2.916	2.991
ENSG00000033122	LRR7	-1.6	1.6E-07	1.8E-06	1.946	0.307	1.518	2.221	3.157	0.084	3.065	3.270
ENSG00000238083	LRR37A2	-1.6	2.9E-08	3.7E-07	4.827	0.496	4.289	5.489	7.632	0.774	6.690	8.265
ENSG00000176681	LRR37A	-1.6	1.5E-07	1.7E-06	2.866	0.294	2.611	3.232	4.632	0.502	4.189	5.067
ENSG00000275294	LINC02340	-1.6	0.01264	0.02985	2.314	0.466	1.882	2.953	3.192	0.878	2.470	4.251
ENSG00000253161	LINC01605	-1.6	0.01512	0.03475	1.551	0.258	1.356	1.901	2.150	0.622	1.445	2.961
ENSG00000272888	LINC01578	-1.6	2.77E-11	7.68E-10	20.361	1.554	18.676	21.866	31.259	0.516	30.731	31.969
ENSG00000250584	LINC01511	-1.6	0.02601	0.05441	1.102	0.292	0.845	1.440	1.554	0.517	1.131	2.188

ENSG00000248441	LINC01197	-1.6	0.00244	0.00755	0.475	0.066	0.414	0.541	0.695	0.187	0.570	0.967
ENSG00000260941	LINC00622	-1.6	0.01545	0.03541	1.117	0.477	0.610	1.552	1.886	0.115	1.751	1.982
ENSG00000225511	LINC00475	-1.6	0.01373	0.03208	0.688	0.181	0.549	0.955	1.024	0.309	0.733	1.460
ENSG00000196668	LINC00173	-1.6	0.00098	0.00349	2.700	0.704	1.686	3.309	4.047	0.406	3.786	4.640
ENSG00000005483	KMT2E	-1.6	7.4E-08	8.7E-07	25.846	3.982	20.160	29.313	39.371	0.589	38.611	39.837
ENSG00000118263	KLF7	-1.6	1.2E-06	1.1E-05	1.650	0.177	1.512	1.895	2.541	0.149	2.412	2.676
ENSG00000118922	KLF12	-1.6	1.9E-05	0.00012	12.804	2.365	9.442	14.603	19.967	1.166	18.853	20.974
ENSG00000172059	KLF11	-1.6	1.78E-10	4E-09	16.924	0.994	15.895	17.907	27.086	1.440	26.213	29.218
ENSG00000196196	HRCT1	-1.6	0.00392	0.01119	3.074	0.925	1.840	3.983	4.650	0.544	4.198	5.291
ENSG00000258900	HNRNPCP1	-1.6	0.00983	0.0242	4.016	1.366	1.971	4.810	5.857	1.346	4.272	7.565
ENSG00000215630	GUSBP9	-1.6	0.0025	0.00769	5.605	1.365	3.992	7.134	9.464	1.335	7.502	10.307
ENSG00000120370	GORAB	-1.6	4.3E-08	5.3E-07	8.147	1.226	6.613	9.586	12.897	0.307	12.532	13.150
ENSG00000124713	GNMT	-1.6	0.00537	0.01455	2.773	0.719	2.062	3.694	4.530	0.692	3.604	5.060
ENSG00000213453	FTH1P3	-1.6	0.00529	0.01438	4.845	0.483	4.372	5.519	7.067	1.937	5.527	9.546
ENSG00000265817	FSBP	-1.6	0.00529	0.01438	0.877	0.228	0.619	1.143	1.238	0.174	1.074	1.485
ENSG00000114861	FOXP1	-1.6	5E-08	6.1E-07	3.635	0.535	2.974	4.228	5.687	0.155	5.590	5.917
ENSG00000185070	FLRT2	-1.6	6.45E-10	1.3E-08	2.832	0.306	2.386	3.070	4.688	0.432	4.202	5.051
ENSG00000170271	FAXDC2	-1.6	3.6E-07	3.6E-06	5.081	0.231	4.820	5.303	7.834	0.812	7.135	8.648
ENSG00000219626	FAM228B	-1.6	2.5E-06	2E-05	3.945	0.547	3.427	4.593	6.275	1.007	4.857	6.994
ENSG00000148541	FAM13C	-1.6	9.3E-08	1.1E-06	3.989	0.602	3.130	4.533	6.115	0.105	6.048	6.269
ENSG00000206120	EGFEM1P	-1.6	0.00018	0.00081	1.490	0.287	1.126	1.772	2.531	0.520	2.039	2.980
ENSG00000143507	DUSP10	-1.6	0.00014	0.00067	2.992	0.521	2.529	3.708	4.426	0.333	4.161	4.852
ENSG00000259660	DNM1P47	-1.6	0.0001	0.0005	0.374	0.029	0.332	0.395	0.604	0.092	0.519	0.684
ENSG00000105516	DBP	-1.6	1.5E-08	2.1E-07	7.666	0.768	6.749	8.475	11.581	0.467	11.093	12.218
ENSG00000165182	CXorf58	-1.6	0.00386	0.01105	1.461	0.267	1.238	1.808	2.459	0.286	2.174	2.856
ENSG00000107562	CXCL12	-1.6	2.7E-07	2.8E-06	2.299	0.111	2.144	2.406	3.656	0.137	3.544	3.826
ENSG00000129749	CHRNA10	-1.6	0.02241	0.04816	0.845	0.236	0.620	1.176	1.194	0.133	1.046	1.370
ENSG00000116785	CFHR3	-1.6	0.00084	0.00305	1.569	0.364	1.305	2.105	2.504	0.394	2.043	2.832
ENSG00000111276	CDKN1B	-1.6	3.98E-12	1.42E-10	43.476	1.288	42.412	45.346	69.866	3.898	64.598	72.817
ENSG00000134256	CD101	-1.6	0.00112	0.00391	1.024	0.241	0.789	1.265	1.550	0.036	1.514	1.600
ENSG00000256304	CCDC150P1	-1.6	0.00112	0.0039	1.669	0.312	1.397	2.118	2.374	0.259	2.233	2.761
ENSG00000183287	CCBE1	-1.6	6.7E-09	1.1E-07	4.133	0.238	3.867	4.446	6.473	0.153	6.281	6.657
ENSG00000204387	C6orf48	-1.6	4.63E-11	1.2E-09	132.766	4.903	126.421	138.360	202.458	7.782	198.144	214.122
ENSG00000261652	C15orf65	-1.6	0.02357	0.0502	3.785	1.262	2.168	5.244	6.232	0.606	5.346	6.624
ENSG00000183346	C10orf107	-1.6	0.0007	0.00263	3.078	0.865	2.425	4.338	4.866	0.315	4.394	5.034
ENSG00000232260	BTF3L4P1	-1.6	0.00211	0.0067	12.465	1.527	10.180	13.342	17.349	3.357	13.872	20.225
ENSG00000112175	BMP5	-1.6	0.00449	0.01254	0.596	0.076	0.523	0.671	0.906	0.060	0.855	0.994
ENSG00000123095	BHLHE41	-1.6	2.9E-08	3.8E-07	7.561	0.440	7.015	8.091	11.284	0.357	10.764	11.517

ENSG00000113916	BCL6	-1.6	2.4E-08	3.2E-07	4.552	0.302	4.283	4.970	6.859	0.213	6.560	7.012
ENSG00000127152	BCL11B	-1.6	1.7E-05	0.00011	1.311	0.177	1.144	1.482	2.013	0.082	1.940	2.131
ENSG00000119866	BCL11A	-1.6	1.3E-07	1.4E-06	4.574	0.627	3.966	5.439	7.305	0.444	6.677	7.620
ENSG00000105327	BBC3	-1.6	9.7E-09	1.4E-07	22.421	2.251	20.688	25.537	35.281	0.488	34.977	36.010
ENSG00000158321	AUTS2	-1.6	2.4E-07	2.6E-06	8.362	0.226	8.175	8.671	13.267	0.672	12.889	14.274
ENSG00000124788	ATXN1	-1.6	1.8E-07	1.9E-06	3.580	0.560	2.757	4.001	5.550	0.186	5.340	5.706
ENSG00000105409	ATP1A3	-1.6	0.02704	0.05611	0.686	0.337	0.402	1.109	1.006	0.147	0.902	1.214
ENSG00000171681	ATF7IP	-1.6	6.2E-07	5.9E-06	34.721	5.506	26.509	38.268	53.529	2.646	50.990	55.813
ENSG00000221883	ARIH2OS	-1.6	0.00228	0.00717	1.800	0.337	1.476	2.226	2.731	0.313	2.261	2.895
ENSG00000178878	APOLD1	-1.6	1.2E-07	1.4E-06	4.939	0.776	4.213	5.997	8.100	0.426	7.807	8.734
ENSG00000155966	AFF2	-1.6	1.2E-06	1E-05	3.413	0.516	2.689	3.893	5.349	0.193	5.160	5.619
ENSG00000145536	ADAMTS16	-1.6	2.2E-06	1.8E-05	4.108	0.485	3.415	4.449	6.448	0.528	6.095	7.234
ENSG00000077522	ACTN2	-1.6	1.6E-07	1.7E-06	4.832	0.571	3.995	5.254	7.996	0.938	6.666	8.655
ENSG00000160179	ABCG1	-1.6	7.4E-07	6.9E-06	3.464	0.432	3.010	3.997	5.388	0.221	5.056	5.500
ENSG00000269994		-1.6	7E-08	8.3E-07	7.972	0.444	7.425	8.477	12.887	0.697	11.867	13.335
ENSG00000179978		-1.6	6.8E-07	6.4E-06	3.766	0.267	3.374	3.971	6.114	0.579	5.569	6.614
ENSG00000279208		-1.6	3.5E-06	2.7E-05	22.072	2.966	18.692	25.590	34.773	2.452	31.521	36.667
ENSG00000268575		-1.6	9.3E-06	6.3E-05	2.776	0.357	2.443	3.264	4.463	0.466	3.820	4.806
ENSG00000279696		-1.6	2.8E-05	0.00017	2.356	0.091	2.271	2.478	3.751	0.084	3.626	3.796
ENSG00000261754		-1.6	3E-05	0.00018	3.961	0.655	3.343	4.776	6.338	0.452	5.663	6.597
ENSG00000213073		-1.6	3.5E-05	0.0002	3.050	0.414	2.589	3.480	5.061	0.592	4.370	5.554
ENSG00000253816		-1.6	4.2E-05	0.00024	17.476	3.503	13.180	20.974	28.008	0.774	26.855	28.457
ENSG00000257511		-1.6	5.9E-05	0.00032	9.077	1.858	7.332	11.520	13.735	0.736	13.026	14.770
ENSG00000273373		-1.6	6.8E-05	0.00036	8.014	1.847	5.966	10.142	13.048	1.405	11.409	14.219
ENSG00000204802		-1.6	7.2E-05	0.00037	2.616	0.249	2.308	2.852	3.918	0.283	3.702	4.298
ENSG00000224886		-1.6	0.0002	0.00091	9.578	1.326	8.493	11.429	16.096	2.132	13.785	17.908
ENSG00000233045		-1.6	0.00025	0.00109	9.059	0.889	8.137	10.274	14.144	0.867	13.482	15.308
ENSG00000261136		-1.6	0.00076	0.00282	1.552	0.276	1.209	1.838	2.561	0.103	2.430	2.681
ENSG00000185065		-1.6	0.00105	0.0037	2.466	0.516	1.949	3.162	3.514	0.202	3.221	3.684
ENSG00000261879		-1.6	0.00108	0.00379	2.881	0.688	2.153	3.483	4.783	0.177	4.519	4.881
ENSG00000275481		-1.6	0.00142	0.00477	1.312	0.180	1.164	1.532	2.046	0.218	1.902	2.362
ENSG00000280367		-1.6	0.00164	0.00541	1.592	0.299	1.173	1.877	2.530	0.671	1.902	3.110
ENSG00000215022		-1.6	0.00237	0.00739	1.017	0.192	0.757	1.215	1.598	0.080	1.536	1.705
ENSG00000273448		-1.6	0.00281	0.00848	3.534	0.379	3.086	3.905	6.547	1.917	4.454	8.174
ENSG00000272669		-1.6	0.00476	0.01321	5.206	1.361	3.902	7.089	8.518	1.065	7.358	9.423
ENSG00000265218		-1.6	0.00477	0.01321	2.665	0.441	2.044	3.077	4.503	1.338	2.688	5.512
ENSG00000231551		-1.6	0.00491	0.01354	1.138	0.284	0.838	1.505	1.750	0.260	1.533	2.054
ENSG00000253414		-1.6	0.00493	0.01357	7.690	1.932	6.068	10.153	10.529	1.605	9.698	12.936

ENSG00000259275		-1.6	0.00519	0.01416	0.944	0.300	0.574	1.251	1.607	0.412	1.153	1.956
ENSG00000283757		-1.6	0.00523	0.01425	0.543	0.123	0.446	0.713	0.941	0.218	0.678	1.120
ENSG00000275560		-1.6	0.00551	0.01487	6.910	1.580	4.632	8.270	10.717	2.862	6.450	12.589
ENSG00000236028		-1.6	0.00564	0.01516	7.900	3.313	5.367	12.774	11.584	1.161	10.938	13.319
ENSG00000272142		-1.6	0.0086	0.02168	2.557	0.078	2.455	2.643	3.901	0.400	3.459	4.431
ENSG00000272328		-1.6	0.01185	0.02827	2.893	0.902	2.161	4.022	5.091	0.924	3.866	5.805
ENSG00000235100		-1.6	0.01337	0.03137	1.810	0.514	1.102	2.332	3.129	0.230	2.852	3.319
ENSG00000224505		-1.6	0.01391	0.03244	3.404	0.597	2.753	3.939	5.087	0.641	4.163	5.642
ENSG00000256591		-1.6	0.01684	0.03808	0.316	0.110	0.176	0.423	0.529	0.026	0.501	0.551
ENSG00000279456		-1.6	0.02482	0.05234	1.225	0.121	1.071	1.356	1.896	0.503	1.186	2.254
ENSG00000272720		-1.6	0.02505	0.0527	1.417	0.391	1.028	1.885	2.562	1.059	1.096	3.340
ENSG00000272562		-1.6	0.03727	0.07314	4.068	1.194	3.308	5.838	7.571	2.073	4.488	8.791
ENSG00000248774		-1.6	0.0414	0.07973	5.260	2.941	2.829	9.061	7.798	1.604	6.331	9.187
ENSG00000235109	ZSCAN31	-1.7	1E-06	8.9E-06	2.246	0.199	2.051	2.519	3.767	0.494	3.215	4.184
ENSG00000229956	ZRANB2-AS2	-1.7	0.00379	0.01087	0.318	0.062	0.266	0.406	0.470	0.086	0.389	0.591
ENSG00000127903	ZNF835	-1.7	0.00224	0.00705	0.982	0.247	0.679	1.281	1.454	0.298	1.286	1.900
ENSG00000258405	ZNF578	-1.7	7.2E-07	6.7E-06	2.321	0.368	1.791	2.600	3.856	0.414	3.318	4.181
ENSG00000198342	ZNF442	-1.7	3.3E-05	0.00019	1.060	0.071	0.987	1.137	1.709	0.153	1.579	1.875
ENSG00000196724	ZNF418	-1.7	0.00033	0.00139	1.243	0.166	1.095	1.479	2.301	0.372	1.967	2.623
ENSG00000159915	ZNF233	-1.7	3.2E-07	3.3E-06	4.019	0.265	3.648	4.259	6.232	0.380	5.907	6.636
ENSG00000188177	ZC3H6	-1.7	1.6E-08	2.3E-07	3.349	0.554	2.666	3.988	5.734	0.397	5.210	6.042
ENSG00000175564	UCP3	-1.7	0.00229	0.00717	0.714	0.104	0.575	0.827	1.199	0.161	0.961	1.299
ENSG00000179981	TSHZ1	-1.7	5.36E-10	1.1E-08	6.533	0.248	6.314	6.853	11.199	0.078	11.135	11.313
ENSG00000117586	TNFSF4	-1.7	0.00047	0.00188	0.813	0.163	0.673	1.043	1.515	0.220	1.266	1.700
ENSG00000139364	TMEM132B	-1.7	1.1E-05	7.4E-05	0.531	0.049	0.476	0.592	0.951	0.155	0.760	1.077
ENSG00000196781	TLE1	-1.7	1.87E-11	5.40E-10	20.100	1.202	19.002	21.222	33.812	0.803	33.262	34.964
ENSG00000125398	SOX9	-1.7	6.49E-10	1.3E-08	10.294	0.977	8.940	11.106	17.456	0.126	17.285	17.589
ENSG00000134595	SOX3	-1.7	0.00013	0.00062	2.481	0.180	2.311	2.697	4.074	0.631	3.242	4.565
ENSG00000084453	SLCO1A2	-1.7	0.00507	0.01389	0.309	0.105	0.221	0.461	0.516	0.099	0.391	0.634
ENSG00000147606	SLC26A7	-1.7	0.01202	0.0286	0.429	0.124	0.316	0.555	0.776	0.257	0.401	0.941
ENSG00000180592	SKIDA1	-1.7	2E-06	1.6E-05	1.172	0.059	1.100	1.242	1.957	0.217	1.641	2.138
ENSG00000185008	ROBO2	-1.7	3.4E-08	4.3E-07	1.337	0.135	1.154	1.468	2.241	0.088	2.154	2.317
ENSG00000207081	RNU6-616P	-1.7	0.00018	0.00082	48.009	4.586	43.072	54.084	79.633	8.086	70.704	86.479
ENSG00000229292	RFPL4AL1	-1.7	0.00373	0.01075	2.750	0.725	1.962	3.710	4.547	0.515	4.117	5.140
ENSG00000225465	RFPL1S	-1.7	0.00443	0.01243	0.359	0.117	0.212	0.486	0.571	0.020	0.560	0.601
ENSG00000102032	RENBP	-1.7	1.7E-08	2.4E-07	10.513	0.309	10.198	10.809	17.251	1.066	16.520	18.780
ENSG00000138670	RASGEF1B	-1.7	1.1E-08	1.6E-07	2.120	0.148	1.932	2.258	3.433	0.247	3.130	3.635
ENSG00000117569	PTBP2	-1.7	1.2E-09	2.4E-08	5.482	0.686	4.557	6.212	9.129	0.767	8.286	9.779

ENSG00000109819	PPARGC1A	-1.7	2.7E-07	2.8E-06	1.395	0.166	1.170	1.569	2.343	0.156	2.162	2.543
ENSG00000184486	POU3F2	-1.7	1.2E-06	1E-05	3.485	0.546	2.736	4.047	5.699	0.389	5.151	6.070
ENSG00000145632	PLK2	-1.7	4.38E-11	1.1E-09	18.035	1.516	16.474	19.931	30.219	1.628	28.366	31.587
ENSG00000186472	PCLO	-1.7	5.9E-06	4.3E-05	2.362	0.344	1.876	2.680	4.252	0.543	3.777	4.722
ENSG00000081818	PCDHB4	-1.7	0.04552	0.08619	0.550	0.178	0.335	0.764	0.995	0.338	0.708	1.484
ENSG00000146001	PCDHB18P	-1.7	1.6E-06	1.4E-05	2.821	0.396	2.380	3.334	5.010	0.187	4.731	5.120
ENSG00000113248	PCDHB15	-1.7	1.2E-05	8E-05	2.349	0.296	1.922	2.601	3.916	0.472	3.213	4.233
ENSG00000250120	PCDHA10	-1.7	1.1E-06	1E-05	2.165	0.286	1.743	2.376	3.713	0.523	3.106	4.150
ENSG00000188158	NHS	-1.7	3.9E-06	3E-05	1.631	0.287	1.219	1.875	2.644	0.116	2.580	2.818
ENSG00000147862	NFIB	-1.7	8.4E-09	1.3E-07	6.213	0.800	5.179	7.054	11.049	0.829	9.943	11.686
ENSG00000185432	METTL7A	-1.7	1.29E-11	3.93E-10	28.034	1.761	26.295	29.597	48.148	3.863	43.704	51.382
ENSG00000229619	MBNL1-AS1	-1.7	6.6E-06	4.7E-05	1.885	0.386	1.327	2.206	3.133	0.358	2.767	3.440
ENSG00000141639	MAPK4	-1.7	1.4E-07	1.5E-06	3.213	0.511	2.865	3.955	5.505	0.319	5.082	5.751
ENSG00000196782	MAML3	-1.7	2.3E-08	3.1E-07	4.214	0.558	3.536	4.813	6.707	0.074	6.666	6.818
ENSG00000173988	LRRC63	-1.7	0.00057	0.00221	1.375	0.268	1.009	1.639	2.576	0.427	1.936	2.801
ENSG00000168702	LRP1B	-1.7	0.00346	0.01009	0.147	0.039	0.093	0.178	0.255	0.030	0.227	0.281
ENSG00000226383	LINC01876	-1.7	0.00025	0.00109	5.219	1.422	3.218	6.575	8.993	1.830	6.845	10.515
ENSG00000261326	LINC01355	-1.7	0.00017	0.00079	5.231	0.724	4.583	6.199	9.374	1.459	7.762	10.609
ENSG00000258441	LINC00641	-1.7	5.1E-07	4.9E-06	9.809	1.704	7.341	11.069	16.444	1.394	14.674	17.559
ENSG00000250682	LINC00491	-1.7	1.4E-06	1.2E-05	9.140	1.445	7.059	10.383	15.044	0.877	13.731	15.516
ENSG00000116678	LEPR	-1.7	1.8E-07	1.9E-06	8.607	1.585	6.374	10.058	14.184	0.843	13.277	14.902
ENSG00000124743	KLHL31	-1.7	0.00097	0.00347	0.714	0.112	0.581	0.821	1.074	0.182	0.917	1.233
ENSG00000231160	KLF3-AS1	-1.7	0.01829	0.04076	0.563	0.133	0.427	0.691	0.956	0.098	0.833	1.073
ENSG00000049130	KITLG	-1.7	3.4E-05	0.0002	11.776	2.764	7.643	13.452	20.446	2.448	17.506	22.463
ENSG00000162849	KIF26B	-1.7	0.00011	0.00055	0.487	0.145	0.353	0.620	0.832	0.040	0.798	0.872
ENSG00000156650	KAT6B	-1.7	8.5E-09	1.3E-07	11.093	1.756	8.658	12.493	18.285	0.316	17.814	18.466
ENSG00000122641	INHBA	-1.7	3.6E-03	0.0104	0.362	0.055	0.306	0.437	0.606	0.181	0.359	0.795
ENSG00000002587	HS3ST1	-1.7	1.0E-02	0.02496	0.280	0.104	0.180	0.426	0.508	0.124	0.346	0.606
ENSG00000135116	HRK	-1.7	8.9E-08	1E-06	4.230	0.543	3.422	4.578	7.062	0.590	6.177	7.358
ENSG00000105996	HOXA2	-1.7	3.0E-03	0.00892	0.961	0.293	0.682	1.259	1.684	0.158	1.572	1.917
ENSG00000237125	HAND2-AS1	-1.7	5.2E-02	0.09594	0.117	0.053	0.062	0.185	0.174	0.077	0.115	0.288
ENSG00000183098	GPC6	-1.7	4.5E-09	7.3E-08	5.662	0.456	4.988	5.980	9.627	1.030	8.281	10.434
ENSG00000107485	GATA3	-1.7	1.3E-07	1.4E-06	7.623	0.615	6.886	8.193	12.452	1.557	11.378	14.680
ENSG00000141665	FBXO15	-1.7	1.7E-03	0.00553	0.404	0.116	0.256	0.541	0.649	0.024	0.623	0.669
ENSG00000010030	ETV7	-1.7	3.1E-05	0.00018	5.219	0.849	4.106	6.025	8.343	0.975	6.881	8.882
ENSG00000178568	ERBB4	-1.7	2.6E-06	2E-05	1.346	0.304	0.916	1.615	2.344	0.286	2.028	2.586
ENSG00000165617	DACT1	-1.7	1.4E-09	2.6E-08	6.691	0.653	6.088	7.348	11.473	0.434	10.827	11.726
ENSG00000106258	CYP3A5	-1.7	9.7E-08	1.1E-06	3.552	0.368	3.022	3.846	6.036	0.210	5.815	6.216

ENSG00000168772	CXXC4	-1.7	2.3E-06	1.8E-05	7.278	1.604	5.025	8.557	13.051	1.140	12.040	14.038
ENSG00000164463	CREBRF	-1.7	2.6E-05	0.00015	5.770	1.304	3.840	6.626	9.072	0.432	8.575	9.629
ENSG00000206561	COLQ	-1.7	2.4E-04	0.00105	1.248	0.203	1.058	1.522	2.232	0.295	1.919	2.484
ENSG00000124749	COL21A1	-1.7	2.0E-05	0.00012	0.972	0.126	0.786	1.069	1.660	0.196	1.443	1.826
ENSG00000158258	CLSTN2	-1.7	7.7E-06	5.4E-05	0.711	0.054	0.642	0.762	1.255	0.041	1.202	1.302
ENSG00000106069	CHN2	-1.7	1.8E-05	0.00011	1.566	0.331	1.118	1.858	2.449	0.325	2.260	2.933
ENSG00000008300	CELSR3	-1.7	8.1E-06	5.6E-05	0.853	0.185	0.648	1.087	1.363	0.115	1.265	1.483
ENSG00000185267	CDNF	-1.7	2.8E-04	0.00121	2.131	0.279	1.747	2.373	3.953	0.645	3.354	4.511
ENSG00000228409	CCT6P1	-1.7	6.2E-07	5.9E-06	14.375	2.625	11.229	17.428	24.681	1.192	24.010	26.462
ENSG00000174898	CATSPERD	-1.7	1.3E-03	0.00431	1.092	0.298	0.754	1.398	1.803	0.218	1.605	2.114
ENSG00000157445	CACNA2D3	-1.7	1.6E-07	1.8E-06	4.835	0.572	4.152	5.477	7.887	0.250	7.687	8.203
ENSG00000230185	C9orf147	-1.7	4.7E-03	0.01317	1.225	0.262	0.944	1.573	1.948	0.405	1.672	2.530
ENSG00000133639	BTG1	-1.7	6.3E-11	1.6E-09	17.568	0.877	16.556	18.695	28.357	1.059	27.086	29.679
ENSG00000104081	BMF	-1.7	1.3E-12	5.23E-11	18.206	0.228	17.883	18.421	30.903	1.488	28.694	31.945
ENSG00000066279	ASPM	-1.7	2.0E-02	0.04443	25.351	9.272	11.473	30.818	42.614	6.982	35.494	48.608
ENSG00000138639	ARHGAP24	-1.7	1.6E-06	1.4E-05	2.251	0.260	1.971	2.497	3.674	0.210	3.420	3.933
ENSG00000230002	ALMS1-IT1	-1.7	9.6E-05	0.00048	2.451	0.446	2.036	2.873	4.098	0.454	3.438	4.473
ENSG00000161912	ADCY10P1	-1.7	3.6E-08	4.5E-07	3.776	0.259	3.405	4.004	6.419	0.564	5.776	6.892
ENSG00000250546		-1.7	2.0E-05	0.00012	2.338	0.383	1.816	2.670	4.316	0.390	3.813	4.624
ENSG00000262251		-1.7	5.3E-05	0.00029	5.547	0.898	4.355	6.494	9.310	0.030	9.264	9.326
ENSG00000260077		-1.7	8.4E-05	0.00043	6.588	2.010	4.359	9.242	10.712	1.122	9.743	11.791
ENSG00000260103		-1.7	1.2E-04	0.00061	2.279	0.094	2.160	2.370	3.670	0.718	3.064	4.470
ENSG00000261557		-1.7	2.1E-04	0.00093	5.271	0.914	4.294	6.299	8.154	1.353	7.053	10.129
ENSG00000267419		-1.7	4.1E-04	0.00166	2.220	0.557	1.417	2.691	4.060	0.378	3.535	4.336
ENSG00000223855		-1.7	6.9E-04	0.0026	0.923	0.177	0.695	1.122	1.455	0.265	1.274	1.836
ENSG00000225793		-1.7	7.4E-04	0.00277	1.778	0.164	1.604	1.940	2.860	0.661	2.416	3.815
ENSG00000276900		-1.7	8.5E-04	0.00308	1.913	0.523	1.240	2.470	3.203	0.436	2.827	3.623
ENSG00000275620		-1.7	9.6E-04	0.00343	0.441	0.150	0.299	0.637	0.756	0.017	0.740	0.780
ENSG00000260265		-1.7	1.1E-03	0.00375	3.039	1.025	1.538	3.709	5.206	0.478	4.942	5.921
ENSG00000236829		-1.7	1.1E-03	0.00392	1.502	0.148	1.363	1.651	2.804	0.164	2.600	2.937
ENSG00000260526		-1.7	1.4E-03	0.0048	1.293	0.149	1.122	1.483	2.228	0.239	1.897	2.469
ENSG00000270558		-1.7	1.8E-03	0.00576	6.142	1.155	5.150	7.811	10.764	1.526	9.128	12.063
ENSG00000235609		-1.7	2.1E-03	0.00675	0.604	0.149	0.385	0.721	0.975	0.183	0.715	1.103
ENSG00000272070		-1.7	2.8E-03	0.00856	0.713	0.133	0.532	0.843	1.149	0.216	0.869	1.397
ENSG00000262728		-1.7	3.7E-03	0.01075	1.944	0.465	1.545	2.616	3.117	0.585	2.723	3.963
ENSG00000260572		-1.7	3.8E-03	0.01098	1.388	0.600	0.888	2.148	2.183	0.062	2.107	2.233
ENSG00000255471		-1.7	4.1E-03	0.01154	1.776	0.402	1.375	2.299	2.842	0.243	2.511	3.095
ENSG00000261732		-1.7	4.3E-03	0.01202	0.398	0.130	0.298	0.581	0.675	0.119	0.570	0.779

ENSG00000278000		-1.7	5.0E-03	0.01367	3.566	0.243	3.221	3.784	6.066	1.238	4.377	7.356
ENSG00000234345		-1.7	5.9E-03	0.01573	1.739	0.615	1.017	2.455	2.961	0.425	2.740	3.597
ENSG00000248027		-1.7	6.3E-03	0.01663	0.897	0.163	0.682	1.062	1.452	0.195	1.283	1.640
ENSG00000274422		-1.7	8.8E-03	0.02202	4.359	1.227	2.783	5.743	8.551	1.913	6.861	10.208
ENSG00000250222		-1.7	9.2E-03	0.02288	5.647	1.495	4.048	6.974	7.356	2.644	5.909	11.312
ENSG00000234329		-1.7	1.1E-02	0.02576	2.977	1.123	1.412	4.058	5.707	1.035	4.290	6.479
ENSG00000270933		-1.7	1.2E-02	0.02845	3.249	1.067	2.127	4.660	4.587	1.245	3.631	6.249
ENSG00000281195		-1.7	1.3E-02	0.03009	1.782	0.665	1.226	2.738	3.359	1.131	1.751	4.149
ENSG00000273038		-1.7	1.4E-02	0.03188	1.051	0.455	0.618	1.692	1.954	0.214	1.643	2.094
ENSG00000176723	ZNF843	-1.8	2.1E-03	0.00657	0.646	0.157	0.452	0.836	1.091	0.132	0.979	1.234
ENSG00000168916	ZNF608	-1.8	6.2E-10	1.3E-08	11.509	1.537	9.390	13.069	20.287	1.169	18.882	21.250
ENSG00000166432	ZMAT1	-1.8	1.2E-04	0.00057	2.134	0.525	1.417	2.638	4.055	0.761	3.387	4.714
ENSG00000169554	ZEB2	-1.8	4.8E-09	7.7E-08	1.728	0.298	1.324	2.043	3.053	0.268	2.806	3.284
ENSG00000166415	WDR72	-1.8	7.6E-04	0.00281	0.561	0.197	0.278	0.724	0.929	0.095	0.875	1.070
ENSG00000038427	VCAN	-1.8	1.1E-05	7.1E-05	33.986	6.775	23.981	38.980	61.723	4.517	56.914	65.576
ENSG00000171724	VAT1L	-1.8	5.6E-03	0.01502	0.517	0.191	0.293	0.730	0.972	0.173	0.778	1.118
ENSG00000121297	TSHZ3	-1.8	4.2E-08	5.2E-07	4.198	0.083	4.129	4.319	7.269	0.585	6.774	7.914
ENSG00000198846	TOX	-1.8	3.7E-03	0.01074	0.661	0.142	0.462	0.774	1.131	0.440	0.646	1.714
ENSG00000162814	SPATA17	-1.8	6.1E-04	0.00235	0.691	0.275	0.317	0.976	1.253	0.269	0.914	1.469
ENSG00000166922	SCG5	-1.8	6.4E-03	0.01686	0.779	0.162	0.579	0.965	1.377	0.137	1.173	1.453
ENSG00000213363	RPS3P6	-1.8	3.8E-03	0.01095	3.400	1.397	1.827	5.122	5.995	0.842	4.744	6.577
ENSG00000116574	RHOU	-1.8	1.7E-14	1.20E-12	38.177	1.437	36.059	39.254	67.865	2.004	65.350	69.479
ENSG00000261126	RBFADN	-1.8	1.0E-03	0.00356	0.486	0.188	0.264	0.713	0.878	0.034	0.826	0.901
ENSG00000077092	RARB	-1.8	3.3E-07	3.3E-06	3.240	0.450	2.708	3.807	5.414	0.456	4.876	5.991
ENSG00000166473	PKD1L2	-1.8	6.2E-04	0.00238	0.141	0.022	0.114	0.162	0.233	0.008	0.225	0.244
ENSG00000117461	PIK3R3	-1.8	9.6E-12	3.04E-10	13.513	1.467	11.581	14.856	23.739	1.056	22.157	24.315
ENSG00000253305	PCDHGB6	-1.8	2.7E-04	0.00119	0.583	0.086	0.494	0.677	1.161	0.237	0.866	1.353
ENSG00000116774	OLFML3	-1.8	1.2E-06	1.1E-05	5.027	0.802	3.995	5.851	8.397	1.083	7.465	9.472
ENSG00000149294	NCAM1	-1.8	6.7E-13	2.98E-11	7.392	0.496	7.025	8.122	13.454	0.648	12.688	13.991
ENSG00000101928	MOSPD1	-1.8	1.2E-12	4.88E-11	116.653	10.897	100.758	125.483	209.918	11.418	198.994	219.777
ENSG00000153714	LURAP1L	-1.8	5.4E-04	0.0021	1.484	0.165	1.349	1.714	2.578	0.095	2.505	2.718
ENSG00000254402	LRRC24	-1.8	2.5E-04	0.00111	1.976	0.131	1.879	2.162	3.255	0.535	2.453	3.546
ENSG00000247675	LRP4-AS1	-1.8	8.9E-03	0.02229	1.159	0.174	0.913	1.321	1.824	0.526	1.384	2.433
ENSG00000110031	LPXN	-1.8	8.0E-09	1.2E-07	7.240	0.785	6.120	7.885	13.155	1.014	12.266	14.033
ENSG00000226476	LINC01748	-1.8	1.8E-06	1.5E-05	0.839	0.086	0.721	0.928	1.436	0.145	1.242	1.547
ENSG00000236204	LINC01376	-1.8	5.4E-06	4E-05	2.921	0.754	1.931	3.677	5.203	0.466	4.559	5.546
ENSG00000250337	LINC01021	-1.8	6.4E-05	0.00034	36.590	8.207	24.760	43.371	69.712	9.357	58.891	77.532
ENSG00000185261	KIAA0825	-1.8	6.8E-04	0.00258	0.417	0.123	0.321	0.596	0.743	0.044	0.705	0.789

ENSG00000128052	KDR	-1.8	3.0E-03	0.00884	0.400	0.108	0.279	0.494	0.713	0.149	0.586	0.874
ENSG00000272767	JMJD1C-AS1	-1.8	9.8E-04	0.0035	2.170	0.520	1.587	2.852	3.756	0.361	3.255	4.118
ENSG00000144668	ITGA9	-1.8	7.8E-06	5.4E-05	0.752	0.119	0.644	0.922	1.323	0.095	1.186	1.388
ENSG00000236778	INTS6-AS1	-1.8	1.1E-05	7.1E-05	0.669	0.093	0.571	0.773	1.204	0.118	1.051	1.338
ENSG00000254289	IGHV3-32	-1.8	3.5E-05	0.0002	13.509	3.674	9.625	18.472	25.033	2.956	21.757	28.942
ENSG00000270276	HIST2H4B	-1.8	3.4E-11	9.15E-10	29.276	2.637	26.622	32.660	51.871	0.882	50.596	52.626
ENSG00000270882	HIST2H4A	-1.8	3.0E-11	8.32E-10	30.392	2.552	27.724	33.739	53.350	0.763	52.389	54.255
ENSG00000274750	HIST1H3E	-1.8	5.1E-08	6.2E-07	5.976	0.471	5.457	6.546	10.382	1.014	9.854	11.903
ENSG00000124635	HIST1H2BJ	-1.8	3.6E-08	4.5E-07	16.198	2.526	12.744	18.595	28.627	0.595	28.129	29.312
ENSG00000214544	GTF2IRD2P1	-1.8	2.6E-04	0.00113	0.651	0.082	0.592	0.773	1.237	0.162	0.994	1.323
ENSG00000180447	GAS1	-1.8	1.0E-10	2.4E-09	10.802	0.414	10.451	11.349	18.478	0.421	18.115	18.892
ENSG00000130222	GADD45G	-1.8	8.6E-06	5.9E-05	7.645	1.713	5.351	9.497	13.920	0.753	13.189	14.976
ENSG00000116717	GADD45A	-1.8	1.9E-11	5.47E-10	51.966	2.891	49.289	56.071	91.402	3.945	86.930	96.547
ENSG00000054598	FOXC1	-1.8	9.5E-12	3.01E-10	26.868	0.834	25.634	27.463	47.052	2.399	44.972	49.130
ENSG00000125848	FLRT3	-1.8	1.6E-06	1.3E-05	2.632	0.449	2.266	3.286	4.746	0.587	3.877	5.103
ENSG00000102678	FGF9	-1.8	3.3E-05	0.00019	1.684	0.234	1.376	1.916	3.027	0.210	2.769	3.199
ENSG00000165323	FAT3	-1.8	3.4E-07	3.4E-06	5.886	1.068	4.393	6.931	10.903	0.485	10.419	11.320
ENSG00000283709	FAM238C	-1.8	1.8E-04	0.00081	0.949	0.104	0.831	1.037	1.875	0.460	1.473	2.273
ENSG00000044524	EPHA3	-1.8	3.6E-08	4.5E-07	6.970	1.285	5.072	7.823	11.856	0.323	11.462	12.120
ENSG00000128512	DOCK4	-1.8	1.1E-07	1.3E-06	3.753	0.755	2.723	4.541	6.555	0.123	6.420	6.660
ENSG00000224165	DNAJC27-AS	-1.8	2.9E-03	0.00864	0.382	0.167	0.225	0.589	0.705	0.030	0.667	0.741
ENSG00000276644	DACH1	-1.8	4.0E-08	5E-07	4.445	0.647	3.674	5.223	8.239	0.814	7.437	8.941
ENSG00000259736	CRTC3-AS1	-1.8	7.7E-03	0.01964	1.967	0.760	1.232	2.989	3.330	0.253	3.167	3.700
ENSG00000215018	COL28A1	-1.8	1.4E-04	0.00065	0.450	0.037	0.423	0.504	0.782	0.152	0.651	0.926
ENSG00000254413	CHKB-CPT1B	-1.8	1.5E-02	0.03505	0.394	0.106	0.293	0.512	0.609	0.322	0.381	1.063
ENSG00000159409	CELF3	-1.8	2.8E-03	0.00833	0.365	0.102	0.223	0.465	0.709	0.014	0.689	0.719
ENSG00000123080	CDKN2C	-1.8	2.0E-13	1.06E-11	29.444	0.975	28.549	30.514	50.212	0.837	49.283	50.920
ENSG00000164076	CAMKV	-1.8	9.1E-03	0.02273	0.487	0.180	0.234	0.642	0.889	0.198	0.604	1.023
ENSG00000106804	C5	-1.8	8.4E-07	7.7E-06	2.085	0.267	1.800	2.340	3.672	0.566	2.909	4.103
ENSG00000163009	C2orf48	-1.8	2.4E-05	0.00015	2.966	0.411	2.513	3.510	5.305	0.666	4.837	6.293
ENSG00000214212	C19orf38	-1.8	1.2E-03	0.00417	1.917	0.793	1.320	3.017	3.665	0.307	3.466	4.114
ENSG00000143032	BARHL2	-1.8	1.3E-03	0.00435	1.076	0.150	0.883	1.231	1.811	0.230	1.612	2.033
ENSG00000150347	ARID5B	-1.8	6.5E-11	1.6E-09	12.826	1.694	10.356	14.170	22.090	0.466	21.665	22.493
ENSG00000103723	AP3B2	-1.8	1.7E-04	0.0008	0.848	0.049	0.798	0.914	1.650	0.185	1.435	1.888
ENSG00000163126	ANKRD23	-1.8	6.9E-04	0.00259	0.674	0.135	0.555	0.846	1.171	0.190	1.047	1.447
ENSG00000215559	ANKRD20A1	-1.8	1.0E-04	0.00052	1.119	0.366	0.831	1.651	2.020	0.166	1.784	2.136
ENSG00000101745	ANKRD12	-1.8	1.6E-02	0.03715	4.255	1.649	1.855	5.509	7.959	1.465	6.064	9.115
ENSG00000170214	ADRA1B	-1.8	9.9E-04	0.00352	2.796	0.854	1.916	3.932	4.749	0.841	3.615	5.649

ENSG00000150471	ADGRL3	-1.8	9.5E-10	1.8E-08	2.265	0.271	1.863	2.434	4.075	0.301	3.762	4.333
ENSG00000185736	ADARB2	-1.8	9.1E-05	0.00046	0.528	0.105	0.423	0.666	1.016	0.192	0.747	1.153
ENSG00000165029	ABCA1	-1.8	5.2E-07	5E-06	1.273	0.273	0.924	1.545	2.225	0.072	2.117	2.263
ENSG00000272341		-1.8	3.0E-07	3.1E-06	6.209	0.768	5.640	7.334	10.998	0.893	10.021	11.755
ENSG00000251634		-1.8	1.2E-06	1.1E-05	3.014	0.557	2.188	3.404	5.221	0.164	5.077	5.363
ENSG00000248583		-1.8	6.9E-06	4.9E-05	8.867	1.578	7.258	10.368	15.161	0.798	14.485	16.041
ENSG00000279522		-1.8	1.3E-05	8.5E-05	2.910	0.308	2.555	3.238	5.028	0.284	4.631	5.305
ENSG00000232611		-1.8	2.5E-05	0.00015	1.737	0.243	1.422	2.006	3.137	0.409	2.880	3.747
ENSG00000279900		-1.8	1.2E-04	0.0006	9.473	2.203	6.329	11.411	16.376	2.451	12.820	18.001
ENSG00000266680		-1.8	1.3E-04	0.00063	5.046	1.363	3.962	7.033	9.309	1.952	6.937	10.909
ENSG00000263080		-1.8	2.2E-04	0.001	4.068	0.304	3.639	4.297	7.834	1.692	6.095	9.285
ENSG00000251661		-1.8	4.0E-04	0.00161	2.042	0.613	1.484	2.865	3.654	0.123	3.551	3.796
ENSG00000214243		-1.8	4.1E-04	0.00167	4.445	0.715	3.463	5.157	7.600	0.529	6.849	7.971
ENSG00000240291		-1.8	7.1E-04	0.00267	2.646	0.622	1.917	3.368	4.952	0.892	3.679	5.571
ENSG00000271133		-1.8	7.2E-04	0.0027	2.082	0.185	1.858	2.303	3.556	0.180	3.331	3.773
ENSG00000258457		-1.8	7.3E-04	0.00272	3.286	0.470	2.588	3.587	6.370	0.383	5.945	6.876
ENSG00000229127		-1.8	9.1E-04	0.00327	2.032	0.744	1.156	2.839	3.911	1.129	2.635	4.861
ENSG00000204666		-1.8	1.2E-03	0.00415	1.481	0.390	1.098	1.980	2.715	0.396	2.217	3.034
ENSG00000267370		-1.8	1.4E-03	0.00482	3.103	0.657	2.139	3.613	5.713	1.321	3.751	6.498
ENSG00000263280		-1.8	1.6E-03	0.00526	4.471	1.422	2.496	5.718	7.885	0.719	6.830	8.446
ENSG00000249721		-1.8	1.7E-03	0.00555	6.884	3.076	2.451	9.471	12.994	0.773	12.414	14.133
ENSG00000255435		-1.8	2.6E-03	0.00795	1.589	0.251	1.357	1.867	2.718	0.390	2.138	2.981
ENSG00000237732		-1.8	2.9E-03	0.00859	0.745	0.161	0.574	0.929	1.242	0.164	1.040	1.442
ENSG00000249655		-1.8	4.0E-03	0.01131	3.586	1.365	2.219	4.832	7.045	1.458	4.864	7.846
ENSG00000259723		-1.8	5.2E-03	0.0141	5.075	1.890	2.304	6.526	7.891	1.631	6.159	10.097
ENSG00000240731		-1.8	5.6E-03	0.015	5.341	0.894	4.200	6.273	11.248	3.240	8.340	14.053
ENSG00000272030		-1.8	1.6E-02	0.03601	2.299	0.873	1.149	3.016	4.089	1.236	2.235	4.734
ENSG00000237149	ZNF503-AS2	-1.9	2.3E-06	1.9E-05	3.587	0.686	3.093	4.578	6.557	0.786	5.489	7.148
ENSG00000152763	WDR78	-1.9	3.3E-05	0.00019	1.407	0.374	1.114	1.941	2.512	0.524	2.070	3.097
ENSG00000182168	UNC5C	-1.9	6.7E-09	1E-07	2.374	0.353	2.067	2.883	4.386	0.321	4.037	4.659
ENSG00000133710	SPINK5	-1.9	2.4E-08	3.2E-07	3.113	0.506	2.394	3.558	6.032	0.642	5.070	6.373
ENSG00000134532	SOX5	-1.9	1.8E-07	2E-06	1.226	0.095	1.144	1.329	2.216	0.280	1.812	2.457
ENSG00000124766	SOX4	-1.9	8.6E-14	5.04E-12	68.681	5.271	62.731	74.516	125.366	4.712	121.005	129.442
ENSG00000176887	SOX11	-1.9	5.5E-11	1.4E-09	6.175	0.752	5.380	6.862	11.318	0.445	10.652	11.566
ENSG00000148942	SLC5A12	-1.9	9.0E-05	0.00045	0.583	0.106	0.442	0.684	1.108	0.091	1.003	1.184
ENSG00000139209	SLC38A4	-1.9	3.2E-05	0.00018	1.085	0.231	0.767	1.280	2.114	0.275	1.819	2.348
ENSG00000106483	SFRP4	-1.9	4.7E-04	0.00187	0.657	0.115	0.490	0.749	1.192	0.132	1.027	1.350
ENSG00000152217	SETBP1	-1.9	4.0E-09	6.7E-08	3.089	0.293	2.751	3.393	5.680	0.427	5.322	6.170

ENSG00000243819	RN7SL832P	-1.9	1.3E-04	0.00062	1.298	0.295	0.996	1.648	2.517	0.034	2.475	2.544
ENSG00000268006	PTOV1-AS1	-1.9	1.0E-06	9.2E-06	1.758	0.078	1.656	1.823	3.514	0.477	2.949	3.910
ENSG00000164708	PGAM2	-1.9	1.5E-04	0.00071	3.461	0.723	2.488	4.062	6.038	0.743	5.399	6.782
ENSG00000049246	PER3	-1.9	3.9E-10	8.2E-09	4.297	0.409	3.767	4.765	8.123	0.659	7.135	8.470
ENSG00000189184	PCDH18	-1.9	3.2E-09	5.5E-08	3.978	0.590	3.375	4.715	7.203	0.418	6.909	7.824
ENSG00000185630	PBX1	-1.9	1.8E-13	9.80E-12	9.139	0.810	7.958	9.776	17.534	1.021	16.455	18.406
ENSG00000085465	OVGP1	-1.9	4.4E-07	4.3E-06	3.367	0.297	2.966	3.674	6.235	0.312	5.966	6.548
ENSG00000099250	NRP1	-1.9	4.6E-13	2.11E-11	11.432	0.874	10.179	12.215	21.682	1.406	20.243	22.888
ENSG00000247809	NR2F2-AS1	-1.9	1.3E-05	8.6E-05	0.773	0.111	0.656	0.899	1.268	0.099	1.184	1.381
ENSG00000176771	NCKAP5	-1.9	1.8E-08	2.5E-07	1.335	0.195	1.215	1.626	2.483	0.153	2.405	2.713
ENSG00000143995	MEIS1	-1.9	4.9E-10	1E-08	2.710	0.310	2.326	3.019	5.140	0.484	4.446	5.472
ENSG00000130518	KIAA1683	-1.9	2.5E-08	3.4E-07	1.239	0.094	1.165	1.372	2.427	0.121	2.335	2.591
ENSG00000267365	KCNJ2-AS1	-1.9	2.0E-04	0.00092	1.373	0.333	1.123	1.859	2.414	0.077	2.316	2.505
ENSG00000090376	IRAK3	-1.9	1.1E-02	0.02563	0.209	0.104	0.061	0.303	0.426	0.067	0.330	0.483
ENSG00000196890	HIST3H2BB	-1.9	3.8E-06	2.9E-05	2.044	0.324	1.664	2.454	3.797	0.115	3.677	3.954
ENSG00000187837	HIST1H1C	-1.9	1.2E-11	3.76E-10	97.292	4.365	90.852	100.541	174.671	7.779	168.983	185.463
ENSG00000134363	FST	-1.9	5.2E-05	0.00028	1.899	0.552	1.390	2.651	3.594	0.119	3.416	3.654
ENSG00000168386	FILIP1L	-1.9	2.2E-05	0.00013	0.970	0.243	0.619	1.179	1.850	0.305	1.437	2.081
ENSG00000196159	FAT4	-1.9	3.3E-07	3.3E-06	6.756	1.225	5.085	7.996	13.033	0.653	12.083	13.461
ENSG00000116106	EPHA4	-1.9	1.4E-10	3.3E-09	6.137	0.543	5.344	6.572	11.240	0.925	10.356	12.038
ENSG00000242689	CNTF	-1.9	3.9E-05	0.00022	2.395	0.335	2.023	2.814	4.493	0.840	3.824	5.723
ENSG00000240498	CDKN2B-AS1	-1.9	6.8E-09	1.1E-07	2.775	0.307	2.559	3.224	5.193	0.414	4.800	5.551
ENSG00000129757	CDKN1C	-1.9	9.2E-10	1.8E-08	7.564	0.501	7.008	8.173	13.591	0.613	13.009	14.457
ENSG00000150394	CDH8	-1.9	9.2E-06	6.3E-05	0.395	0.079	0.289	0.475	0.742	0.124	0.627	0.849
ENSG00000272398	CD24	-1.9	8.3E-02	0.1415	2.469	0.144	2.335	2.665	4.201	2.674	2.850	8.212
ENSG00000234585	CCT6P3	-1.9	3.6E-09	6.1E-08	3.653	0.220	3.365	3.899	6.629	0.249	6.264	6.790
ENSG00000133101	CCNA1	-1.9	8.8E-08	1E-06	5.542	0.196	5.342	5.774	9.784	1.497	8.509	11.388
ENSG00000179397	CATSPERE	-1.9	4.5E-03	0.01248	0.342	0.097	0.220	0.422	0.607	0.152	0.479	0.780
ENSG00000167995	BEST1	-1.9	1.2E-07	1.4E-06	1.031	0.109	0.913	1.148	1.941	0.162	1.697	2.028
ENSG00000162373	BEND5	-1.9	3.4E-04	0.00142	1.212	0.198	0.920	1.353	2.106	0.434	1.791	2.710
ENSG00000258655	ARHGAP5-AS1	-1.9	7.7E-06	5.4E-05	3.642	0.315	3.354	4.067	6.282	1.224	5.313	8.075
ENSG00000259456	ADNP-AS1	-1.9	7.2E-03	0.01866	1.975	0.417	1.479	2.400	3.144	1.132	1.525	4.167
ENSG00000270605		-1.9	5.5E-09	8.8E-08	10.756	1.023	9.474	11.905	19.675	0.961	18.817	20.506
ENSG00000279865		-1.9	2.5E-05	0.00015	1.893	0.116	1.794	2.050	3.425	0.148	3.306	3.612
ENSG00000255363		-1.9	5.6E-04	0.00219	1.284	0.369	0.854	1.755	2.101	0.296	1.850	2.426
ENSG00000236654		-1.9	5.8E-04	0.00224	12.764	3.701	8.773	16.890	25.574	1.346	23.717	26.939
ENSG00000250753		-1.9	1.1E-03	0.00384	6.997	2.677	4.527	9.884	14.196	1.009	12.716	14.992
ENSG00000273759		-1.9	1.8E-03	0.00582	2.805	0.515	2.113	3.353	4.826	1.373	3.771	6.657

ENSG00000214432		-1.9	2.0E-03	0.00632	0.579	0.091	0.485	0.695	1.056	0.316	0.791	1.420
ENSG00000279659		-1.9	1.6E-02	0.03704	0.851	0.236	0.645	1.189	2.045	0.496	1.362	2.411
ENSG00000272054		-1.9	1.9E-02	0.04229	0.478	0.209	0.209	0.716	0.954	0.154	0.867	1.185
ENSG00000280010		-1.9	2.1E-02	0.04511	1.497	0.865	0.553	2.645	2.591	1.138	1.723	4.267
ENSG0000026025	VIM	-2	1.7E-15	1.69E-13	171.678	6.813	165.429	181.380	340.579	7.338	330.942	346.298
ENSG00000181449	SOX2	-2	5.7E-12	1.93E-10	15.304	1.335	13.878	17.006	29.536	1.595	28.119	30.918
ENSG00000198732	SMOC1	-2	4.7E-09	7.7E-08	7.987	0.968	6.693	9.040	14.749	1.891	13.146	16.826
ENSG00000149212	SESN3	-2	6.9E-06	4.9E-05	38.510	8.203	26.514	44.128	77.638	6.782	70.716	83.459
ENSG00000257557	PPP1R12A-A	-2	1.0E-04	0.00052	0.685	0.129	0.501	0.801	1.269	0.074	1.166	1.344
ENSG00000170836	PPM1D	-2	1.3E-14	9.20E-13	36.154	1.711	34.437	38.011	69.966	2.472	66.568	71.799
ENSG00000151623	NR3C2	-2	5.1E-12	1.77E-10	6.437	0.644	5.508	6.915	12.452	0.722	11.986	13.528
ENSG00000237187	NR2F1-AS1	-2	1.1E-09	2.1E-08	1.882	0.189	1.647	2.111	3.683	0.097	3.561	3.761
ENSG00000165555	NOXRED1	-2	1.0E-03	0.00356	0.810	0.217	0.591	1.093	1.375	0.309	1.152	1.809
ENSG00000169184	MN1	-2	1.0E-10	2.5E-09	5.372	0.192	5.107	5.567	11.142	0.425	10.545	11.448
ENSG00000255248	MIR100HG	-2	3.6E-05	0.00021	0.356	0.057	0.289	0.429	0.705	0.073	0.628	0.768
ENSG00000183496	MEX3B	-2	3.6E-12	1.29E-10	9.284	0.788	8.445	10.300	17.605	0.913	16.306	18.242
ENSG00000233639	LINC01158	-2	1.4E-03	0.00481	2.302	0.674	1.624	3.228	4.339	0.235	4.159	4.653
ENSG00000123700	KCNJ2	-2	2.1E-07	2.3E-06	1.304	0.149	1.085	1.400	2.590	0.342	2.078	2.775
ENSG00000233822	HIST1H2BN	-2	5.1E-08	6.3E-07	1.585	0.144	1.474	1.796	3.298	0.043	3.262	3.350
ENSG00000236993	GAPDHP21	-2	3.0E-05	0.00018	2.935	0.465	2.413	3.356	5.833	0.260	5.687	6.221
ENSG00000128573	FOXP2	-2	1.7E-06	1.4E-05	2.756	0.700	1.712	3.176	5.641	0.128	5.495	5.749
ENSG00000228314	CYP4F29P	-2	3.7E-03	0.01075	0.954	0.491	0.463	1.631	2.088	0.202	1.967	2.391
ENSG00000183230	CTNNA3	-2	1.5E-03	0.00497	0.163	0.071	0.071	0.232	0.339	0.065	0.246	0.395
ENSG00000168542	COL3A1	-2	5.1E-13	2.34E-11	8.442	0.529	7.871	8.958	16.231	0.762	15.647	17.251
ENSG00000213760	ATP6V1G2	-2	4.7E-08	5.8E-07	3.826	0.423	3.257	4.229	7.397	0.345	7.122	7.902
ENSG00000261716		-2	1.4E-10	3.3E-09	8.430	1.314	6.494	9.394	17.171	0.930	16.274	17.973
ENSG00000251095		-2	1.8E-09	3.3E-08	11.599	2.214	8.353	13.341	22.492	0.847	21.244	23.139
ENSG00000220323		-2	2.5E-07	2.6E-06	9.514	0.883	8.704	10.385	19.325	1.551	17.100	20.387
ENSG00000203819		-2	2.8E-06	2.2E-05	9.613	2.199	6.713	11.947	18.318	2.453	16.229	20.953
ENSG00000270681		-2	6.6E-06	4.8E-05	4.001	0.260	3.807	4.369	7.149	0.934	5.785	7.903
ENSG00000257261		-2	7.7E-05	0.0004	1.267	0.132	1.155	1.427	2.591	0.334	2.096	2.794
ENSG00000230699		-2	2.8E-04	0.00122	2.009	0.523	1.451	2.712	4.268	1.192	3.097	5.295
ENSG00000234537		-2	5.8E-03	0.01541	0.692	0.313	0.341	1.063	1.153	0.458	0.771	1.686
ENSG00000056487	PHF21B	-2.1	7.6E-04	0.00282	0.499	0.111	0.424	0.663	0.954	0.367	0.638	1.311
ENSG00000262096	PCDHB19P	-2.1	2.0E-04	0.0009	0.745	0.220	0.535	1.028	1.463	0.206	1.258	1.641
ENSG00000181143	MUC16	-2.1	1.9E-04	0.00087	0.046	0.016	0.034	0.069	0.094	0.013	0.084	0.108
ENSG00000233930	KRTAP5-AS1	-2.1	1.7E-04	0.00078	0.678	0.106	0.553	0.813	1.564	0.229	1.233	1.757
ENSG00000099251	HSD17B7P2	-2.1	9.0E-10	1.8E-08	12.246	2.146	9.761	14.621	25.578	2.251	22.530	27.279

ENSG00000180596	HIST1H2BC	-2.1	1.5E-05	9.5E-05	2.926	0.246	2.722	3.239	6.057	0.999	4.632	6.969
ENSG00000265962	GACAT2	-2.1	4.8E-05	0.00026	3.389	0.455	2.914	3.963	6.875	1.584	4.801	8.658
ENSG00000107105	ELAVL2	-2.1	1.1E-04	0.00054	0.546	0.179	0.340	0.766	1.177	0.179	0.908	1.273
ENSG00000164309	CMYA5	-2.1	7.6E-06	5.3E-05	0.310	0.089	0.202	0.406	0.663	0.025	0.641	0.687
ENSG00000095585	BLNK	-2.1	3.1E-04	0.00133	0.702	0.201	0.580	1.000	1.722	0.341	1.332	2.008
ENSG00000141431	ASXL3	-2.1	1.1E-07	1.2E-06	0.870	0.165	0.669	1.058	1.899	0.165	1.748	2.041
ENSG00000154736	ADAMTS5	-2.1	1.1E-08	1.6E-07	0.793	0.091	0.723	0.928	1.601	0.090	1.509	1.724
ENSG00000272993		-2.1	1.5E-08	2.1E-07	12.159	2.372	9.305	14.886	25.099	0.279	24.948	25.517
ENSG00000229931		-2.1	1.6E-05	0.0001	4.947	1.228	3.871	6.123	11.004	2.355	7.841	12.800
ENSG00000267731		-2.1	6.2E-04	0.00239	0.660	0.140	0.518	0.835	1.625	0.415	1.130	1.968
ENSG00000248596		-2.1	6.9E-04	0.0026	0.361	0.098	0.253	0.455	0.719	0.043	0.683	0.765
ENSG00000165655	ZNF503	-2.2	7.9E-14	4.66E-12	30.763	2.663	27.710	33.759	66.814	0.551	66.174	67.521
ENSG00000265972	TXNIP	-2.2	9.7E-16	1.03E-13	84.604	3.313	80.157	88.074	181.912	3.734	176.321	184.098
ENSG00000092421	SEMA6A	-2.2	1.6E-11	4.62E-10	3.476	0.362	3.177	3.995	7.440	0.221	7.325	7.772
ENSG00000253846	PCDHGA10	-2.2	2.4E-03	0.00743	0.227	0.065	0.137	0.275	0.606	0.188	0.426	0.769
ENSG00000188729	OSTN	-2.2	1.1E-04	0.00053	0.821	0.353	0.296	1.053	1.733	0.294	1.415	1.982
ENSG00000134986	NREP	-2.2	1.4E-14	1.01E-12	9.829	0.841	9.171	11.033	21.011	0.427	20.525	21.566
ENSG00000015520	NPC1L1	-2.2	5.4E-06	4E-05	0.951	0.132	0.814	1.131	2.199	0.450	1.716	2.582
ENSG00000138347	MYPN	-2.2	1.4E-06	1.2E-05	0.582	0.067	0.518	0.665	1.320	0.098	1.201	1.401
ENSG00000144214	LYG1	-2.2	5.6E-04	0.00219	1.975	0.669	1.018	2.492	4.332	0.748	3.240	4.817
ENSG00000181016	LSMEM1	-2.2	1.7E-06	1.4E-05	1.450	0.338	1.042	1.868	3.286	0.395	2.732	3.570
ENSG00000148798	INA	-2.2	1.1E-03	0.0039	0.518	0.164	0.393	0.749	1.060	0.059	0.972	1.096
ENSG00000164330	EBF1	-2.2	1.4E-05	8.8E-05	0.633	0.121	0.518	0.739	1.412	0.144	1.220	1.524
ENSG00000158486	DNAH3	-2.2	4.6E-07	4.5E-06	0.431	0.108	0.308	0.542	1.008	0.038	0.968	1.061
ENSG00000082196	C1QTNF3	-2.2	2.6E-05	0.00016	1.017	0.300	0.667	1.354	2.406	0.725	1.757	3.034
ENSG00000213199	ASIC3	-2.2	1.2E-02	0.02846	0.506	0.335	0.173	0.965	1.159	0.208	0.987	1.406
ENSG00000274460		-2.2	8.5E-06	5.9E-05	2.242	0.423	1.941	2.866	4.698	0.417	4.387	5.268
ENSG00000271474		-2.2	4.6E-05	0.00025	0.537	0.111	0.412	0.682	1.257	0.111	1.132	1.402
ENSG00000225792		-2.2	5.3E-05	0.00029	2.326	0.604	1.887	3.175	4.854	0.450	4.522	5.475
ENSG00000255389		-2.2	1.1E-04	0.00054	0.958	0.119	0.788	1.063	2.106	0.316	1.752	2.372
ENSG00000272468		-2.2	2.5E-04	0.00109	4.155	1.575	2.426	5.999	8.655	2.060	7.342	11.677
ENSG00000139865	TTC6	-2.3	3.2E-05	0.00019	0.328	0.139	0.200	0.525	0.777	0.105	0.620	0.847
ENSG00000019549	SNAI2	-2.3	2.2E-07	2.3E-06	2.061	0.491	1.451	2.596	4.426	0.097	4.343	4.528
ENSG00000115896	PLCL1	-2.3	5.9E-07	5.6E-06	0.656	0.129	0.510	0.817	1.442	0.277	1.117	1.672
ENSG00000169116	PARM1	-2.3	4.2E-15	3.60E-13	13.322	0.214	13.196	13.642	30.164	1.155	29.411	31.847
ENSG00000175745	NR2F1	-2.3	5.4E-13	2.46E-11	10.255	0.526	9.860	11.015	23.274	1.040	21.837	24.039
ENSG00000078018	MAP2	-2.3	6.6E-11	1.7E-09	5.836	1.027	4.496	6.861	13.503	1.531	12.013	14.824
ENSG00000203814	HIST2H2BF	-2.3	9.2E-07	8.3E-06	1.792	0.487	1.160	2.236	4.127	0.244	3.794	4.309

ENSG00000184678	HIST2H2BE	-2.3	1.6E-09	2.9E-08	4.425	0.636	3.725	5.239	9.667	0.373	9.464	10.226
ENSG00000196787	HIST1H2AG	-2.3	6.6E-10	1.3E-08	4.508	0.611	3.752	5.240	10.018	0.371	9.495	10.281
ENSG00000174844	DNAH12	-2.3	1.6E-05	0.0001	0.167	0.029	0.137	0.206	0.360	0.044	0.337	0.426
ENSG00000135407	AVIL	-2.3	9.7E-07	8.7E-06	0.711	0.043	0.672	0.751	1.745	0.364	1.394	2.059
ENSG00000186517	ARHGAP30	-2.3	1.7E-08	2.4E-07	1.388	0.198	1.225	1.659	3.154	0.121	3.009	3.306
ENSG00000270876	ZNF30-AS1	-2.4	2.0E-04	0.00092	2.566	0.994	1.706	3.874	6.876	0.617	6.439	7.791
ENSG00000137573	SULF1	-2.4	3.8E-13	1.81E-11	4.265	0.591	3.397	4.701	10.015	0.154	9.788	10.111
ENSG00000070731	ST6GALNAC2	-2.4	1.1E-08	1.6E-07	2.359	0.231	2.103	2.655	5.640	0.444	4.988	5.922
ENSG00000178573	MAF	-2.4	1.4E-10	3.2E-09	1.392	0.129	1.201	1.479	3.162	0.052	3.092	3.202
ENSG00000180573	HIST1H2AC	-2.4	2.8E-13	1.42E-11	14.676	1.628	12.386	16.069	34.083	0.698	33.100	34.750
ENSG00000087589	CASS4	-2.4	2.3E-05	0.00014	0.520	0.140	0.320	0.631	1.202	0.152	1.070	1.334
ENSG00000224294		-2.4	5.4E-07	5.1E-06	1.839	0.563	1.213	2.581	4.772	0.536	4.190	5.227
ENSG00000278238		-2.4	9.3E-07	8.4E-06	6.005	0.973	5.162	7.408	13.647	0.936	12.715	14.947
ENSG00000250519		-2.4	1.7E-05	0.00011	2.562	0.757	1.465	3.077	6.125	0.780	5.121	7.024
ENSG00000284526		-2.4	6.0E-05	0.00032	0.365	0.142	0.268	0.573	0.916	0.057	0.861	0.996
ENSG00000283235		-2.4	2.4E-04	0.00107	0.858	0.258	0.500	1.089	2.102	0.156	1.870	2.214
ENSG00000272486		-2.4	3.3E-04	0.0014	1.278	0.392	0.724	1.646	3.165	0.441	2.530	3.549
ENSG00000260727	SLC7A5P1	-2.5	1.0E-04	0.00052	3.117	1.344	1.832	4.963	7.775	1.808	5.096	9.068
ENSG00000075223	SEMA3C	-2.5	5.1E-10	1E-08	10.806	2.131	7.784	12.700	26.051	1.381	24.473	27.209
ENSG00000113389	NPR3	-2.5	1.0E-05	7E-05	0.317	0.123	0.224	0.494	0.733	0.223	0.604	1.067
ENSG00000163121	NEURL3	-2.5	2.3E-04	0.00102	0.414	0.115	0.305	0.573	0.924	0.143	0.831	1.132
ENSG00000182308	DCAF4L1	-2.5	1.6E-05	9.9E-05	0.590	0.078	0.511	0.698	1.535	0.043	1.484	1.571
ENSG00000145087	STXBP5L	-2.6	5.0E-06	3.7E-05	0.284	0.087	0.158	0.357	0.690	0.142	0.604	0.900
ENSG00000188738	FSIP2	-2.6	3.2E-03	0.00941	0.084	0.043	0.027	0.122	0.272	0.117	0.140	0.370
ENSG00000164972	C9orf24	-2.6	2.7E-02	0.05675	0.212	0.007	0.205	0.221	0.692	0.061	0.655	0.783
ENSG00000261087		-2.6	3.1E-05	0.00018	0.752	0.245	0.506	1.078	2.057	0.194	1.766	2.169
ENSG00000143469	SYT14	-2.7	1.2E-09	2.3E-08	0.366	0.058	0.285	0.413	0.978	0.115	0.857	1.077
ENSG00000257335	MGAM	-2.7	1.2E-04	0.00059	0.085	0.019	0.059	0.099	0.207	0.036	0.164	0.237
ENSG00000158406	HIST1H4H	-2.7	6.2E-11	1.6E-09	4.282	0.652	3.527	5.110	11.767	0.493	11.039	12.130
ENSG00000158373	HIST1H2BD	-2.7	1.5E-12	5.85E-11	13.869	1.276	12.859	15.736	37.180	2.754	33.364	39.198
ENSG00000132837	DMGDH	-2.7	7.9E-08	9.3E-07	0.499	0.065	0.432	0.589	1.288	0.061	1.245	1.375
ENSG00000276966	HIST1H4E	-2.9	1.2E-07	1.4E-06	1.722	0.445	1.323	2.253	4.849	0.367	4.331	5.196
ENSG00000274290	HIST1H2BE	-2.9	3.6E-06	2.8E-05	1.025	0.325	0.676	1.347	2.543	0.341	2.345	3.051
ENSG00000188959	C9orf152	-2.9	5.4E-06	4E-05	0.415	0.069	0.350	0.485	1.054	0.092	0.974	1.147
ENSG00000268756		-2.9	2.3E-08	3.1E-07	5.942	1.161	4.843	7.581	17.527	2.380	16.067	21.045
ENSG00000169432	SCN9A	-3	2.9E-12	1.07E-10	2.080	0.476	1.388	2.475	6.452	0.597	5.850	6.966
ENSG00000237693	IRGM	-3	2.1E-05	0.00013	0.653	0.349	0.333	1.140	2.015	0.210	1.701	2.144
ENSG00000159208	CIART	-3	3.2E-10	6.8E-09	2.050	0.240	1.740	2.316	5.806	0.827	5.148	6.866

ENSG00000115461	IGFBP5	-3.1	5.4E-16	6.10E-14	6.063	0.501	5.568	6.726	18.532	0.628	18.065	19.458
ENSG00000171587	DSCAM	-3.2	9.7E-03	0.02399	0.022	0.017	0.000	0.036	0.065	0.019	0.037	0.075
ENSG00000187775	DNAH17	-3.3	1.2E-14	9.19E-13	1.243	0.091	1.118	1.314	4.031	0.242	3.823	4.267
ENSG00000113369	ARRDC3	-3.3	2.6E-16	3.11E-14	8.222	1.229	6.828	9.815	26.063	0.710	25.022	26.514
ENSG00000166793	YPEL4	-3.4	1.6E-09	2.9E-08	0.651	0.121	0.496	0.748	2.018	0.178	1.896	2.274
ENSG00000188580	NKAIN2	-3.4	1.4E-06	1.2E-05	0.370	0.131	0.227	0.541	1.130	0.240	0.950	1.457
ENSG00000273802	HIST1H2BG	-3.4	7.0E-11	1.8E-09	2.428	0.267	2.176	2.786	8.276	0.556	7.660	9.011
ENSG00000233030		-3.4	1.3E-05	8.7E-05	0.279	0.053	0.217	0.344	0.998	0.184	0.810	1.156
ENSG00000171951	SCG2	-3.5	5.9E-07	5.6E-06	0.710	0.445	0.325	1.344	2.402	0.142	2.250	2.523
ENSG00000126368	NR1D1	-3.6	6.3E-14	3.85E-12	7.707	0.630	7.087	8.542	26.913	3.452	24.345	31.647
ENSG00000139269	INHBE	-3.6	1.3E-06	1.1E-05	0.548	0.234	0.391	0.896	1.598	0.158	1.482	1.815
ENSG00000183813	CCR4	-3.7	2.8E-06	2.2E-05	0.283	0.162	0.098	0.489	1.017	0.035	0.964	1.040
ENSG00000234424		-3.9	2.0E-08	2.7E-07	1.048	0.337	0.685	1.335	3.988	0.570	3.173	4.383
ENSG00000015592	STMN4	-4.4	3.8E-08	4.8E-07	0.302	0.123	0.134	0.416	1.366	0.111	1.222	1.453
ENSG00000132639	SNAP25	-4.9	1.8E-05	0.00012	0.647	0.221	0.318	0.790	3.131	0.323	2.851	3.416
ENSG00000256779		-5.3	3.1E-09	5.3E-08	0.903	0.396	0.429	1.370	4.667	0.605	3.902	5.382
ENSG00000144188	TRIM43CP	-5.5	8.7E-13	3.76E-11	2.028	0.201	1.827	2.294	10.501	0.691	9.906	11.181
ENSG00000144010	TRIM43B	-5.8	3.3E-14	2.21E-12	3.919	0.922	2.906	5.051	21.859	2.419	20.404	25.446
ENSG00000204510	PRAMEF7	-5.8	1.7E-09	3.1E-08	0.563	0.064	0.488	0.642	2.864	0.628	2.355	3.643
ENSG00000284546		-5.8	8.2E-08	9.6E-07	1.097	0.569	0.668	1.932	6.185	1.287	5.214	7.930
ENSG00000144015	TRIM43	-5.9	1.2E-14	9.13E-13	4.239	0.927	3.199	5.428	23.274	2.683	21.373	27.064
ENSG00000284306		-5.9	4.5E-09	7.3E-08	1.700	0.333	1.227	1.978	9.227	2.293	7.342	11.994
ENSG00000250782		-6.1	2.0E-14	1.34E-12	12.211	1.145	11.338	13.845	69.314	12.385	58.686	81.978
ENSG00000182330	PRAMEF8	-6.2	1.0E-08	1.5E-07	0.472	0.116	0.342	0.590	2.533	0.800	2.100	3.730
ENSG00000277862	PRAMEF34P	-6.3	4.5E-13	2.09E-11	1.802	0.146	1.684	2.013	10.430	1.865	8.820	12.231
ENSG00000283873		-6.3	7.2E-11	1.8E-09	2.256	0.796	1.360	3.037	13.044	1.494	11.760	14.556
ENSG00000284018		-6.3	1.7E-08	2.4E-07	1.416	0.612	0.912	2.304	8.278	2.652	6.000	10.972
ENSG00000229978	PRAMEF36P	-6.4	6.1E-13	2.75E-11	1.728	0.140	1.573	1.897	10.308	1.690	8.845	11.846
ENSG00000283776		-6.6	5.7E-14	3.53E-12	8.881	1.240	7.668	10.573	55.437	9.323	48.525	68.250
ENSG00000235268	KDM4E	-6.8	2.6E-12	9.61E-11	0.674	0.207	0.521	0.971	4.543	0.309	4.095	4.802
ENSG00000250386		-6.9	3.9E-10	8.1E-09	9.266	2.181	6.217	11.170	59.215	18.192	44.468	81.805
ENSG00000283740		-7.1	3.6E-15	3.19E-13	16.036	2.342	14.327	19.473	106.075	18.013	90.894	126.328
ENSG00000236175	SSU72P6	-7.7	1.5E-10	3.5E-09	1.363	0.467	0.704	1.763	10.032	0.459	9.670	10.626
ENSG00000189325	C6orf222	-7.7	4.8E-09	7.8E-08	0.163	0.031	0.122	0.197	1.310	0.138	1.196	1.472
ENSG00000150244	TRIM48	-7.8	1.5E-11	4.5E-10	0.942	0.282	0.646	1.320	6.710	1.426	5.612	8.606
ENSG00000284438		-7.8	2.5E-11	6.9E-10	2.069	0.848	0.891	2.839	15.264	1.291	14.146	16.398
ENSG00000204449	TRIM49C	-8.1	3.5E-16	4.1E-14	1.772	0.256	1.469	2.082	13.557	1.737	12.121	15.625
ENSG00000168930	TRIM49	-8.4	1.4E-15	1.4E-13	2.825	0.488	2.180	3.204	22.602	3.013	20.010	25.625

ENSG00000157765	SLC34A2	-8.4	6.3E-12	2.1E-10	0.334	0.097	0.188	0.389	2.582	0.551	2.139	3.276
ENSG00000249620		-8.7	5.7E-11	1.4E-09	3.836	0.835	2.740	4.501	33.501	8.153	27.310	44.493
ENSG00000233802	TRIM49D2	-8.9	1.6E-15	1.5E-13	1.779	0.152	1.620	1.944	14.759	2.347	12.844	17.639
ENSG00000223417	TRIM49D1	-8.9	1.8E-15	1.7E-13	1.356	0.106	1.253	1.483	11.203	1.769	9.744	13.326
ENSG00000237706	TRIM51EP	-9	9.6E-13	4.1E-11	1.282	0.309	0.998	1.718	10.516	2.211	8.919	13.608
ENSG00000251258	RFPL4B	-9.4	2.5E-09	4.4E-08	0.456	0.233	0.251	0.776	4.084	0.765	3.443	4.960
ENSG00000204455	TRIM51BP	-9.5	4.3E-13	2.0E-11	1.391	0.404	1.114	1.988	12.098	2.392	10.301	15.353
ENSG00000269466		-9.6	3.4E-13	1.6E-11	23.282	5.069	19.932	30.732	218.205	24.844	197.802	248.265
ENSG00000249156		-9.7	2.1E-12	8.1E-11	6.055	2.023	3.929	8.804	56.141	10.221	47.843	68.797
ENSG00000257951		-10.1	1.4E-12	5.6E-11	1.894	0.500	1.200	2.363	18.124	4.011	15.793	24.130
ENSG00000189253	TRIM64B	-10.3	2.0E-12	7.7E-11	0.459	0.194	0.267	0.722	4.465	0.582	4.020	5.243
ENSG00000225581	TRIM53AP	-10.4	2.8E-12	1.0E-10	0.932	0.203	0.643	1.119	8.813	2.795	6.613	12.440
ENSG00000180532	ZSCAN4	-10.6	3.4E-13	1.7E-11	1.511	0.633	0.565	1.900	14.940	2.600	12.698	17.463
ENSG00000116726	PRAMEF12	-11.1	1.3E-11	4.1E-10	0.387	0.171	0.165	0.534	3.898	0.647	3.394	4.749
ENSG00000166013	TRIM53BP	-11.3	1.2E-12	5.1E-11	0.633	0.169	0.439	0.851	6.755	1.583	5.589	8.940
ENSG00000204450	TRIM64	-11.6	7.0E-09	1.1E-07	0.148	0.094	0.079	0.283	1.670	0.563	1.201	2.325
ENSG00000254764	TRIM53CP	-11.8	3.8E-11	1.0E-09	0.547	0.196	0.375	0.822	6.115	1.497	4.438	8.083
ENSG00000182053	TRIM49B	-12.1	2.4E-12	8.9E-11	0.519	0.146	0.392	0.676	5.631	1.486	4.577	7.729
ENSG00000268799		-12.9	9.3E-12	3.0E-10	3.824	1.207	2.035	4.654	48.173	13.156	36.991	62.445
ENSG00000106278	PTPRZ1	-13.9	7.0E-02	1.2E-01	0.008	0.009	0.000	0.015	0.126	0.252	0.000	0.503
ENSG00000236941		-18.4	2.9E-11	8.1E-10	0.307	0.167	0.117	0.448	5.833	1.162	5.162	7.565
ENSG00000255855	KDM4F	-19.2	2.6E-12	9.5E-11	0.248	0.120	0.079	0.346	4.648	0.841	4.078	5.859

Gene		Linear	P Value	FDR	Transcripts per million (TPM)							
					TestMea	TestStdD	TestMin	TestMax	RefMea	RefStdD	RefMin	RefMax
ENSG00000259456	ADNP-AS1	-1.5	5.1E-02	0.09682	2.572	0.598	2.016	3.419	3.144	1.132	1.525	4.167
ENSG00000279355	AGPAT4-IT1	-1.5	3.3E-02	0.06816	1.834	0.583	1.371	2.653	2.735	0.079	2.657	2.803
ENSG00000189060	H1FO	-1.5	5.2E-11	1.5E-09	301.195	11.230	286.121	310.652	432.005	12.983	420.765	443.633
ENSG00000176788	BASP1	-1.5	3.7E-10	8.3E-09	190.272	6.726	182.452	197.936	269.107	11.216	259.495	280.689
ENSG00000277443	MARCKS	-1.5	8.0E-11	2.2E-09	147.635	2.665	145.160	151.376	203.288	11.154	192.025	212.875
ENSG00000143032	BARHL2	-1.5	1.7E-02	0.0396	1.371	0.367	1.023	1.802	1.811	0.230	1.612	2.033
ENSG00000187837	HIST1H1C	-1.5	4.5E-08	5.8E-07	129.057	8.112	118.174	135.751	174.671	7.779	168.983	185.463
ENSG00000151725	CENPU	-1.5	4.0E-09	6.6E-08	101.855	5.016	98.944	109.339	146.155	13.334	134.582	157.703
ENSG00000148677	ANKRD1	-1.5	2.2E-04	0.00096	94.766	10.203	81.344	106.157	123.701	3.845	118.029	126.084
ENSG00000149201	CCDC81	-1.5	2.3E-02	0.04955	0.591	0.169	0.349	0.742	0.824	0.103	0.726	0.913
ENSG00000087074	PPP1R15A	-1.5	6.0E-08	7.4E-07	76.433	3.289	72.448	80.119	104.133	3.119	101.511	107.674
ENSG00000251562	MALAT1	-1.5	1.8E-05	0.00011	74.589	8.074	64.211	83.489	107.023	16.914	85.852	120.671
ENSG00000115738	ID2	-1.5	2.0E-10	4.8E-09	72.631	3.510	69.105	77.452	101.783	1.435	99.644	102.726
ENSG00000135269	TES	-1.5	3.0E-10	6.9E-09	44.751	2.985	40.819	48.064	62.171	1.028	61.281	63.089
ENSG00000174371	EXO1	-1.5	1.3E-08	1.8E-07	39.731	1.850	37.185	41.579	53.792	2.961	50.349	56.263
ENSG00000270882	HIST2H4A	-1.5	1.1E-08	1.6E-07	37.608	1.981	35.205	39.517	53.350	0.763	52.389	54.255
ENSG00000112742	TTK	-1.5	2.1E-04	0.00092	37.307	0.855	36.230	38.199	51.404	3.717	47.032	54.492
ENSG00000141665	FBXO15	-1.5	1.3E-02	0.03222	0.485	0.106	0.415	0.643	0.649	0.024	0.623	0.669
ENSG00000170558	CDH2	-1.5	5.5E-12	2.11E-10	36.633	0.937	35.357	37.457	52.665	1.078	51.726	53.599
ENSG00000149948	HMGA2	-1.5	1.2E-09	2.3E-08	36.373	1.746	34.639	37.925	49.437	1.989	47.564	51.157
ENSG00000270276	HIST2H4B	-1.5	1.2E-08	1.7E-07	36.309	2.019	34.075	38.351	51.871	0.882	50.596	52.626
ENSG00000105974	CAV1	-1.5	1.3E-09	2.5E-08	35.354	2.494	32.821	37.996	51.000	2.803	48.564	53.427
ENSG00000174738	NR1D2	-1.5	5.9E-07	5.5E-06	33.458	1.266	32.287	35.057	48.209	2.575	45.026	50.302
ENSG00000170017	ALCAM	-1.5	2.3E-08	3.2E-07	33.194	0.899	32.221	34.049	46.056	2.621	42.799	48.180
ENSG00000168564	CDKN2AIP	-1.5	9.8E-09	1.5E-07	31.861	0.349	31.516	32.237	43.937	1.507	42.308	45.219
ENSG00000174579	MSL2	-1.5	5.2E-08	6.5E-07	30.487	1.510	28.981	32.270	40.833	0.999	39.712	42.145
ENSG00000248873	SERBP1P6	-1.5	1.8E-07	2E-06	29.704	2.786	27.708	33.830	40.640	2.064	37.782	42.716
ENSG00000138814	PPP3CA	-1.5	1.9E-09	3.5E-08	29.164	1.757	27.393	31.585	40.292	0.377	40.000	40.789
ENSG00000236539	HNRNPA1P54	-1.5	2.1E-02	0.04726	0.258	0.051	0.205	0.322	0.340	0.021	0.326	0.371
ENSG00000171476	HOPX	-1.5	1.3E-02	0.03221	0.380	0.057	0.325	0.460	0.581	0.148	0.405	0.768
ENSG00000218336	TENM3	-1.5	2.7E-08	3.6E-07	27.000	2.096	24.277	29.386	37.294	1.636	35.059	38.517
ENSG00000143333	RGS16	-1.5	1.3E-06	1.1E-05	25.603	1.262	24.318	27.342	34.887	4.315	31.159	38.963
ENSG00000279208		-1.5	3.6E-05	0.0002	24.877	3.904	21.294	29.642	34.773	2.452	31.521	36.667
ENSG00000272767	JMJD1C-AS1	-1.5	1.8E-02	0.04034	2.733	0.784	2.226	3.901	3.756	0.361	3.255	4.118
ENSG00000205189	ZBTB10	-1.5	4.5E-06	3.2E-05	24.498	1.700	22.011	25.746	36.033	2.289	33.560	37.980
ENSG00000196781	TLE1	-1.5	1.6E-09	3E-08	23.701	0.978	22.885	25.101	33.812	0.803	33.262	34.964

ENSG00000128052	KDR	-1.5	3.0E-02	0.06305	0.504	0.106	0.367	0.597	0.713	0.149	0.586	0.874
ENSG00000137831	UACA	-1.5	8.2E-03	0.02129	23.306	1.671	21.026	25.049	32.677	3.630	28.309	35.665
ENSG00000116044	NFE2L2	-1.5	3.4E-09	5.8E-08	22.951	0.853	21.930	23.881	33.367	2.461	30.371	35.382
ENSG00000248971	KRT8P46	-1.5	5.2E-02	0.09851	1.605	0.707	0.859	2.327	2.250	0.447	1.625	2.573
ENSG00000233930	KRTAP5-AS1	-1.5	1.2E-02	0.02966	0.972	0.141	0.811	1.127	1.564	0.229	1.233	1.757
ENSG00000123094	RASSF8	-1.5	3.3E-04	0.00138	21.268	1.923	18.740	23.165	29.179	2.275	26.617	31.095
ENSG00000233639	LINC01158	-1.5	4.0E-02	0.08029	3.255	1.179	1.661	4.285	4.339	0.235	4.159	4.653
ENSG00000214900	LINC01588	-1.5	9.4E-02	0.159	0.118	0.032	0.075	0.148	0.183	0.035	0.153	0.234
ENSG00000138050	THUMP2	-1.5	1.3E-08	1.9E-07	20.929	0.867	20.448	22.229	28.414	0.922	27.611	29.212
ENSG00000124635	HIST1H2BJ	-1.5	6.8E-06	4.7E-05	20.487	1.222	19.343	21.785	28.627	0.595	28.129	29.312
ENSG00000133639	BTG1	-1.5	1.3E-09	2.5E-08	19.839	0.988	18.498	20.650	28.357	1.059	27.086	29.679
ENSG00000165072	MAMDC2	-1.5	2.6E-02	0.05502	0.677	0.106	0.612	0.835	1.106	0.067	1.019	1.159
ENSG00000177565	TBL1XR1	-1.5	1.9E-04	0.00085	19.257	1.751	17.225	21.502	28.339	2.119	26.191	30.160
ENSG00000165480	SKA3	-1.5	1.1E-07	1.2E-06	19.199	2.403	16.354	21.902	26.910	0.561	26.246	27.375
ENSG00000172059	KLF11	-1.5	2.4E-09	4.2E-08	18.867	0.806	17.819	19.784	27.086	1.440	26.213	29.218
ENSG00000168556	ING2	-1.5	3.4E-07	3.4E-06	17.955	1.903	15.659	20.003	26.493	1.855	23.930	27.858
ENSG00000066468	FGFR2	-1.5	6.4E-10	1.3E-08	17.434	0.841	16.538	18.555	25.193	1.064	23.896	26.064
ENSG00000197050	ZNF420	-1.5	4.4E-06	3.2E-05	16.789	1.237	15.686	17.941	23.335	2.195	20.850	25.182
ENSG00000166866	MYO1A	-1.5	1.5E-02	0.03433	0.634	0.100	0.531	0.759	0.978	0.162	0.798	1.114
ENSG00000139946	PELI2	-1.5	1.4E-06	1.2E-05	16.587	1.473	14.753	18.331	23.347	1.403	21.896	24.548
ENSG00000077684	JADE1	-1.5	6.5E-10	1.3E-08	15.585	0.673	14.848	16.469	22.190	1.291	20.850	23.296
ENSG00000259485	LINC02253	-1.5	2.2E-05	0.00013	15.362	1.447	13.674	16.612	20.195	1.141	19.519	21.890
ENSG00000134986	NREP	-1.5	3.3E-09	5.6E-08	15.292	0.688	14.652	16.084	21.011	0.427	20.525	21.566
ENSG00000165555	NOXRED1	-1.5	2.8E-02	0.05979	1.139	0.331	0.676	1.431	1.375	0.309	1.152	1.809
ENSG00000123572	NRK	-1.5	4.0E-02	0.07911	0.293	0.078	0.181	0.358	0.392	0.122	0.213	0.488
ENSG00000118922	KLF12	-1.5	1.3E-04	0.00061	14.467	1.719	11.906	15.551	19.967	1.166	18.853	20.974
ENSG00000253846	PCDHGA10	-1.5	7.8E-02	0.13716	0.345	0.086	0.268	0.438	0.606	0.188	0.426	0.769
ENSG00000023608	SNAPC1	-1.5	4.1E-06	3E-05	13.148	0.956	12.430	14.532	17.671	1.448	15.850	19.393
ENSG00000121361	KCNJ8	-1.5	7.1E-07	6.5E-06	12.742	0.744	12.121	13.674	17.659	0.769	16.654	18.528
ENSG00000106571	GLI3	-1.5	7.8E-08	9.3E-07	12.558	1.197	11.046	13.786	17.970	0.810	16.900	18.598
ENSG00000164776	PHKG1	-1.5	3.0E-02	0.06198	1.333	0.416	0.789	1.793	2.076	0.066	2.022	2.156
ENSG00000102032	REBP	-1.5	4.3E-07	4.2E-06	12.116	1.066	10.797	13.400	17.251	1.066	16.520	18.780
ENSG00000100142	POLR2F	-1.5	3.2E-02	0.06671	0.456	0.109	0.305	0.563	0.617	0.092	0.566	0.754
ENSG00000228169	PPIAP19	-1.5	3.4E-02	0.06887	4.704	1.549	2.586	6.178	6.219	1.060	4.735	7.253
ENSG00000198732	SMOC1	-1.5	3.9E-06	2.9E-05	10.744	1.108	9.934	12.305	14.749	1.891	13.146	16.826
ENSG00000229083	PSMA6P2	-1.5	1.1E-02	0.02652	5.708	0.671	5.043	6.353	7.372	0.901	6.628	8.447
ENSG00000050628	PTGER3	-1.5	7.2E-02	0.12916	0.284	0.055	0.244	0.365	0.388	0.030	0.358	0.413
ENSG00000239269	RPSAP4	-1.5	1.1E-04	0.00054	10.464	1.006	9.282	11.412	14.375	1.465	12.213	15.282

ENSG00000233045		-1.5	9.5E-04	0.00346	9.876	1.897	7.099	11.336	14.144	0.867	13.482	15.308
ENSG00000146707	POMZP3	-1.5	1.7E-05	0.00011	9.669	0.472	9.098	10.059	13.325	0.741	12.816	14.386
ENSG00000134438	RAX	-1.5	1.3E-02	0.03193	1.232	0.225	0.971	1.521	1.751	0.433	1.413	2.319
ENSG00000249465	RBMXP4	-1.5	1.3E-02	0.03109	2.830	0.567	2.009	3.286	4.228	0.749	3.106	4.631
ENSG00000168621	GDNF	-1.5	9.4E-08	1.1E-06	9.200	0.778	8.096	9.822	13.102	0.742	12.356	13.740
ENSG00000064042	LIMCH1	-1.5	2.3E-09	4E-08	9.189	0.297	8.903	9.534	13.309	0.387	12.784	13.601
ENSG00000196159	FAT4	-1.5	5.3E-05	0.00028	9.015	1.050	7.519	9.869	13.033	0.653	12.083	13.461
ENSG00000259802		-1.5	9.3E-04	0.0034	8.893	1.103	7.475	10.030	12.344	1.959	10.286	15.007
ENSG00000168772	CXXC4	-1.5	7.1E-05	0.00036	8.805	0.591	7.972	9.361	13.051	1.140	12.040	14.038
ENSG00000147852	VLDLR	-1.5	3.1E-09	5.3E-08	8.543	0.592	7.695	9.004	12.311	0.236	12.186	12.665
ENSG00000165617	DACT1	-1.5	2.0E-07	2.1E-06	8.121	0.683	7.283	8.956	11.473	0.434	10.827	11.726
ENSG00000224892	RPS4XP16	-1.5	1.7E-02	0.03842	3.586	1.016	2.129	4.470	5.010	0.489	4.641	5.672
ENSG00000237440	ZNF737	-1.5	1.1E-05	7E-05	7.875	0.689	7.117	8.788	10.754	0.692	9.780	11.416
ENSG00000272341		-1.5	5.2E-05	0.00028	7.868	1.565	6.691	10.139	10.998	0.893	10.021	11.755
ENSG00000147862	NFIB	-1.5	1.2E-06	1E-05	7.548	0.495	7.071	8.240	11.049	0.829	9.943	11.686
ENSG00000185483	ROR1	-1.5	6.9E-08	8.4E-07	7.411	0.612	6.791	8.212	10.323	0.332	9.924	10.596
ENSG00000203943	SAMD13	-1.5	4.5E-02	0.08835	0.895	0.108	0.745	1.001	1.462	0.367	0.932	1.709
ENSG00000196081	ZNF724	-1.5	4.3E-06	3.2E-05	7.232	0.339	6.927	7.607	11.021	1.979	8.750	12.679
ENSG00000220804	LINC01881	-1.5	3.1E-05	0.00018	7.123	0.457	6.607	7.631	9.605	0.911	8.238	10.076
ENSG00000188404	SELL	-1.5	2.1E-02	0.04584	0.818	0.228	0.635	1.124	1.082	0.068	0.980	1.122
ENSG00000226102	SEPT7P3	-1.5	3.2E-02	0.06656	3.989	0.865	2.807	4.866	4.894	1.145	3.949	6.265
ENSG00000240914		-1.5	5.9E-03	0.01617	6.836	1.359	5.047	8.353	9.562	0.507	9.230	10.301
ENSG00000163535	SGO2	-1.5	3.9E-02	0.07799	16.502	2.992	13.757	20.449	22.989	3.310	19.042	25.724
ENSG00000180376	CCDC66	-1.5	7.1E-05	0.00037	6.632	0.307	6.453	7.091	9.767	1.372	8.187	10.915
ENSG00000139174	PRICKLE1	-1.5	6.1E-09	9.7E-08	6.628	0.394	6.063	6.966	9.224	0.372	8.666	9.427
ENSG00000164463	CREBRF	-1.5	1.6E-04	0.00072	6.569	0.534	5.903	7.212	9.072	0.432	8.575	9.629
ENSG00000085276	MECOM	-1.5	6.7E-05	0.00035	6.473	0.628	5.752	7.151	8.782	0.419	8.240	9.114
ENSG00000261116		-1.5	4.8E-04	0.00192	6.373	0.902	5.288	7.448	8.676	0.463	8.045	9.160
ENSG00000004799	PKD4	-1.5	2.5E-06	1.9E-05	6.369	0.657	5.672	7.050	9.179	0.615	8.299	9.603
ENSG00000147606	SLC26A7	-1.5	3.3E-02	0.0685	0.487	0.124	0.411	0.670	0.776	0.257	0.401	0.941
ENSG00000158014	SLC30A2	-1.5	5.9E-02	0.10971	0.773	0.236	0.450	0.963	0.933	0.292	0.684	1.242
ENSG00000011201	ANOS1	-1.5	2.2E-06	1.8E-05	5.969	0.390	5.514	6.459	8.544	0.265	8.171	8.800
ENSG00000235245		-1.5	4.9E-03	0.01378	5.966	1.250	4.747	7.712	9.165	0.928	7.779	9.685
ENSG00000084453	SLCO1A2	-1.5	2.1E-02	0.0469	0.364	0.137	0.257	0.545	0.516	0.099	0.391	0.634
ENSG00000178878	APOLD1	-1.5	2.6E-06	2E-05	5.662	0.387	5.211	6.099	8.100	0.426	7.807	8.734
ENSG00000276644	DACH1	-1.5	7.1E-06	4.9E-05	5.579	0.603	4.844	6.175	8.239	0.814	7.437	8.941
ENSG00000176971	FIBIN	-1.5	2.8E-04	0.00119	5.556	0.398	5.058	6.026	7.189	0.889	6.421	8.024
ENSG00000049246	PER3	-1.5	2.1E-07	2.2E-06	5.497	0.440	4.912	5.976	8.123	0.659	7.135	8.470

ENSG00000077522	ACTN2	-1.5	2.6E-06	2.1E-05	5.478	0.313	5.051	5.772	7.996	0.938	6.666	8.655
ENSG00000204682	CASC10	-1.5	8.5E-05	0.00043	5.285	1.033	4.326	6.447	6.922	0.629	6.422	7.728
ENSG00000112182	BACH2	-1.5	4.7E-08	6E-07	5.280	0.415	4.805	5.791	7.738	0.481	7.089	8.103
ENSG00000113916	BCL6	-1.5	3.4E-07	3.4E-06	5.096	0.470	4.502	5.560	6.859	0.213	6.560	7.012
ENSG00000226763	SRRM5	-1.5	2.4E-02	0.05299	0.907	0.316	0.514	1.212	1.388	0.070	1.339	1.492
ENSG00000196782	MAML3	-1.5	2.1E-06	1.7E-05	5.016	0.424	4.508	5.419	6.707	0.074	6.666	6.818
ENSG00000119866	BCL11A	-1.5	4.9E-07	4.7E-06	4.960	0.534	4.187	5.345	7.305	0.444	6.677	7.620
ENSG00000263080		-1.5	2.8E-03	0.00852	4.890	1.154	3.570	6.348	7.834	1.692	6.095	9.285
ENSG00000198075	SULT1C4	-1.5	1.2E-02	0.02892	1.366	0.447	0.922	1.982	1.838	0.394	1.444	2.385
ENSG00000229124	VIM-AS1	-1.5	1.3E-03	0.00457	4.625	1.084	3.381	5.785	6.290	0.884	5.172	7.334
ENSG00000061455	PRDM6	-1.5	1.4E-06	1.1E-05	4.584	0.534	3.784	4.873	6.515	0.461	5.957	6.893
ENSG00000148541	FAM13C	-1.5	1.5E-06	1.3E-05	4.525	0.221	4.308	4.781	6.115	0.105	6.048	6.269
ENSG00000180596	HIST1H2BC	-1.5	6.3E-03	0.01706	4.407	0.452	3.800	4.855	6.057	0.999	4.632	6.969
ENSG00000242952	RPSAP3	-1.5	4.9E-03	0.01367	4.245	0.649	3.438	4.792	5.964	0.711	5.019	6.513
ENSG00000234911	TEX21P	-1.5	2.1E-02	0.04705	2.261	0.466	1.688	2.663	3.397	1.031	2.072	4.215
ENSG00000152217	SETBP1	-1.5	2.8E-06	2.1E-05	4.081	0.745	3.342	5.116	5.680	0.427	5.322	6.170
ENSG00000185339	TCN2	-1.5	4.0E-05	0.00022	4.057	0.590	3.426	4.735	6.006	0.130	5.826	6.138
ENSG00000180998	GPR137C	-1.5	4.6E-05	0.00025	3.972	0.029	3.936	4.007	6.089	0.898	5.120	6.852
ENSG00000267796	LIN37	-1.5	1.4E-04	0.00065	3.965	0.465	3.290	4.355	5.210	0.332	4.922	5.515
ENSG00000116117	PARD3B	-1.5	3.5E-07	3.4E-06	3.908	0.308	3.665	4.323	5.543	0.281	5.220	5.778
ENSG00000114423	CBLB	-1.5	4.5E-05	0.00025	3.756	0.727	3.108	4.735	5.465	0.287	5.207	5.713
ENSG00000251634		-1.5	9.6E-05	0.00047	3.749	0.292	3.503	4.171	5.221	0.164	5.077	5.363
ENSG00000275342	PRAG1	-1.5	5.8E-05	0.0003	3.729	0.353	3.207	3.969	4.986	0.852	4.294	6.039
ENSG00000146070	PLA2G7	-1.5	3.2E-03	0.00965	3.695	0.294	3.422	4.036	5.347	0.206	5.040	5.482
ENSG00000119865	CNRIP1	-1.5	1.6E-04	0.00073	3.634	0.474	3.014	4.170	4.655	0.344	4.407	5.136
ENSG00000218890		-1.5	6.8E-03	0.01805	3.565	0.582	2.948	4.085	4.890	1.227	3.558	5.933
ENSG00000249069	LINC01033	-1.5	2.2E-03	0.00702	3.529	0.322	3.087	3.770	5.052	0.307	4.723	5.314
ENSG00000077063	CTTNBP2	-1.5	1.7E-06	1.4E-05	3.481	0.200	3.219	3.697	4.719	0.175	4.599	4.979
ENSG00000185070	FLRT2	-1.5	6.7E-08	8.1E-07	3.332	0.148	3.199	3.474	4.688	0.432	4.202	5.051
ENSG00000138028	CGREF1	-1.5	5.3E-05	0.00028	3.271	0.461	2.768	3.701	4.449	0.541	4.161	5.261
ENSG00000279369		-1.5	7.9E-04	0.00294	3.247	0.529	2.606	3.863	4.999	0.804	4.148	5.685
ENSG00000277462	ZNF670	-1.5	5.0E-03	0.01391	3.147	0.530	2.655	3.775	4.718	0.793	3.545	5.201
ENSG00000182168	UNC5C	-1.5	3.2E-06	2.4E-05	3.082	0.390	2.561	3.498	4.386	0.321	4.037	4.659
ENSG00000250546		-1.5	1.0E-03	0.00367	2.951	0.566	2.454	3.754	4.316	0.390	3.813	4.624
ENSG00000218358	RAET1K	-1.5	1.9E-04	0.00084	2.910	0.133	2.733	3.039	4.428	0.509	3.920	4.866
ENSG00000221994	ZNF630	-1.5	1.7E-04	0.00076	2.900	0.247	2.669	3.250	3.724	0.487	3.342	4.359
ENSG00000271918		-1.5	4.2E-03	0.01218	2.839	0.448	2.442	3.445	4.060	0.572	3.610	4.899
ENSG00000235109	ZSCAN31	-1.5	4.5E-05	0.00025	2.728	0.333	2.410	3.197	3.767	0.494	3.215	4.184

ENSG00000258405	ZNF578	-1.5	1.1E-05	7.2E-05	2.664	0.248	2.384	2.914	3.856	0.414	3.318	4.181
ENSG00000214892	USP8P1	-1.5	2.1E-02	0.04662	0.688	0.134	0.560	0.842	0.926	0.188	0.691	1.078
ENSG00000153832	FBXO36	-1.5	6.4E-04	0.00243	2.586	0.351	2.109	2.950	3.918	0.349	3.424	4.165
ENSG00000106804	C5	-1.5	5.3E-05	0.00028	2.570	0.412	2.070	3.051	3.672	0.566	2.909	4.103
ENSG00000272870		-1.5	5.6E-04	0.00217	2.492	0.406	1.954	2.938	3.511	0.303	3.226	3.773
ENSG00000250120	PCDHA10	-1.5	1.4E-05	8.8E-05	2.452	0.319	2.127	2.762	3.713	0.523	3.106	4.150
ENSG00000270964		-1.5	5.8E-03	0.01591	2.426	0.379	2.098	2.946	3.119	0.606	2.706	3.990
ENSG00000260589	STAM-AS1	-1.5	2.7E-03	0.00828	2.346	0.575	1.757	3.069	3.410	0.499	2.663	3.689
ENSG00000233822	HIST1H2BN	-1.5	6.4E-05	0.00033	2.225	0.157	2.025	2.386	3.298	0.043	3.262	3.350
ENSG00000272711		-1.5	5.7E-03	0.01572	2.142	0.425	1.652	2.570	3.046	0.182	2.777	3.182
ENSG00000183671	GPR1	-1.5	2.3E-03	0.00727	2.128	0.325	1.838	2.586	2.992	0.257	2.613	3.153
ENSG00000166578	IQCD	-1.5	1.8E-03	0.006	2.046	0.167	1.918	2.279	3.142	0.326	2.682	3.372
ENSG00000270876	ZNF30-AS1	-1.5	2.8E-02	0.05994	4.307	0.931	3.019	5.071	6.876	0.617	6.439	7.791
ENSG00000187624	C17orf97	-1.5	8.8E-03	0.02253	1.798	0.393	1.462	2.299	2.645	0.201	2.473	2.851
ENSG00000176771	NCKAP5	-1.5	1.3E-05	8.5E-05	1.780	0.050	1.712	1.828	2.483	0.153	2.405	2.713
ENSG00000250492	INTS6P1	-1.5	2.1E-03	0.00676	1.744	0.149	1.544	1.877	2.504	0.405	2.018	2.838
ENSG00000137672	TRPC6	-1.5	8.0E-04	0.00298	1.697	0.359	1.193	1.968	2.333	0.116	2.224	2.497
ENSG00000130518	KIAA1683	-1.5	2.5E-05	0.00015	1.687	0.068	1.616	1.774	2.427	0.121	2.335	2.591
ENSG00000146674	IGFBP3	-1.5	9.4E-04	0.00343	1.658	0.182	1.431	1.858	2.300	0.050	2.234	2.338
ENSG00000178568	ERBB4	-1.5	1.2E-04	0.00059	1.640	0.199	1.353	1.783	2.344	0.286	2.028	2.586
ENSG00000270011	ZNF559-ZNF177	-1.5	6.5E-02	0.11928	0.583	0.146	0.371	0.699	0.781	0.301	0.339	0.970
ENSG00000049192	ADAMTS6	-1.5	1.5E-03	0.00498	1.581	0.268	1.318	1.891	2.082	0.206	1.841	2.253
ENSG00000134532	SOX5	-1.5	2.2E-05	0.00013	1.560	0.243	1.239	1.806	2.216	0.280	1.812	2.457
ENSG00000138653	NDST4	-1.5	1.7E-03	0.00561	1.550	0.118	1.438	1.717	2.086	0.221	1.904	2.408
ENSG00000150636	CCDC102B	-1.5	1.1E-03	0.00404	1.448	0.065	1.382	1.536	1.874	0.193	1.759	2.163
ENSG00000205592	MUC19	-1.5	5.8E-03	0.01576	1.441	0.215	1.136	1.639	2.230	0.474	1.726	2.635
ENSG00000196724	ZNF418	-1.5	2.7E-03	0.00847	1.435	0.247	1.144	1.695	2.301	0.372	1.967	2.623
ENSG00000180592	SKIDA1	-1.5	8.3E-05	0.00042	1.415	0.154	1.197	1.537	1.957	0.217	1.641	2.138
ENSG00000103460	TOX3	-1.5	6.7E-03	0.01783	1.373	0.453	0.938	1.981	1.866	0.301	1.681	2.310
ENSG00000105792	CFAP69	-1.5	7.6E-04	0.00284	1.359	0.139	1.187	1.517	1.860	0.029	1.832	1.885
ENSG00000157168	NRG1	-1.5	8.2E-05	0.00041	1.309	0.154	1.113	1.471	1.769	0.145	1.636	1.975
ENSG00000260339	HEXA-AS1	-1.5	6.2E-03	0.01669	1.243	0.133	1.058	1.374	1.787	0.352	1.409	2.087
ENSG00000141934	PLPP2	-1.5	3.0E-04	0.00127	1.214	0.127	1.063	1.368	1.641	0.149	1.514	1.801
ENSG00000235618	FAM21EP	-1.5	6.5E-03	0.0174	1.152	0.136	1.033	1.295	1.651	0.303	1.491	2.105
ENSG00000269906		-1.5	5.9E-02	0.10913	3.546	1.788	1.883	5.931	5.548	0.580	4.703	6.024
ENSG00000231458		-1.5	7.1E-02	0.12671	3.048	0.418	2.714	3.636	4.967	1.610	3.566	6.361
ENSG00000250790		-1.5	7.8E-02	0.1379	0.642	0.271	0.282	0.916	0.965	0.164	0.722	1.085
ENSG00000166262	FAM227B	-1.5	7.6E-03	0.02001	1.125	0.079	1.048	1.234	1.372	0.354	1.025	1.866

ENSG00000152402	GUCY1A2	-1.5	1.1E-04	0.00054	1.111	0.164	0.903	1.285	1.570	0.080	1.488	1.638
ENSG00000259275		-1.5	6.7E-03	0.01787	0.993	0.115	0.890	1.098	1.607	0.412	1.153	1.956
ENSG00000169031	COL4A3	-1.5	2.1E-04	0.00092	0.941	0.137	0.755	1.075	1.387	0.125	1.200	1.451
ENSG00000137090	DMRT1	-1.5	8.3E-03	0.02155	0.915	0.191	0.792	1.197	1.273	0.116	1.159	1.373
ENSG00000109906	ZBTB16	-1.5	6.9E-04	0.00261	0.886	0.171	0.666	1.057	1.249	0.137	1.177	1.454
ENSG00000106483	SFRP4	-1.5	8.9E-03	0.02278	0.849	0.232	0.510	1.036	1.192	0.132	1.027	1.350
ENSG00000176884	GRIN1	-1.5	2.7E-03	0.00837	0.727	0.071	0.648	0.818	1.006	0.032	0.980	1.053
ENSG00000258472		-1.5	1.2E-02	0.02923	0.853	0.092	0.777	0.980	1.126	0.090	1.025	1.202
ENSG00000247728		-1.5	1.3E-02	0.03117	3.168	0.586	2.346	3.654	4.624	0.295	4.232	4.852
ENSG00000240291		-1.5	1.3E-02	0.03147	3.290	0.854	2.012	3.794	4.952	0.892	3.679	5.571
ENSG00000246528		-1.5	1.5E-02	0.03603	1.755	0.273	1.359	1.979	2.446	0.451	2.128	3.114
ENSG00000254427		-1.5	1.6E-02	0.03816	1.922	0.187	1.723	2.144	3.205	0.510	2.504	3.584
ENSG00000283403		-1.5	1.7E-02	0.04008	1.260	0.531	0.891	2.021	1.919	0.154	1.758	2.050
ENSG00000262728		-1.5	1.8E-02	0.04057	2.331	0.656	1.866	3.303	3.117	0.585	2.723	3.963
ENSG00000226468		-1.5	1.8E-02	0.04173	3.867	0.984	2.935	5.195	5.946	1.269	4.044	6.614
ENSG00000226754		-1.5	2.0E-02	0.04465	2.283	0.520	1.686	2.769	3.273	0.461	2.926	3.953
ENSG00000271888		-1.5	2.1E-02	0.04713	2.799	0.862	1.750	3.859	3.764	0.505	3.434	4.517
ENSG00000226471		-1.5	2.9E-02	0.06177	1.684	0.321	1.348	2.119	2.164	0.549	1.736	2.885
ENSG00000251867		-1.5	3.1E-02	0.06397	2.074	0.339	1.618	2.432	2.969	0.163	2.736	3.115
ENSG00000272720		-1.5	4.4E-02	0.08549	1.584	0.434	1.283	2.212	2.562	1.059	1.096	3.340
ENSG00000260244		-1.5	4.6E-02	0.08883	0.915	0.112	0.774	1.022	1.464	0.586	0.781	1.952
ENSG00000279145		-1.5	4.6E-02	0.09005	0.370	0.139	0.216	0.535	0.568	0.050	0.498	0.603
ENSG00000120675	DNAJC15	-1.5	7.6E-03	0.01987	0.601	0.114	0.445	0.704	0.917	0.103	0.762	0.972
ENSG00000148848	ADAM12	-1.5	5.2E-03	0.01449	0.503	0.063	0.419	0.563	0.812	0.224	0.574	1.003
ENSG00000148053	NTRK2	-1.5	7.8E-04	0.00291	0.341	0.033	0.314	0.389	0.432	0.063	0.392	0.525
ENSG00000134294	SLC38A2	-1.6	1.3E-05	8.4E-05	156.295	12.379	138.171	166.136	227.095	7.191	216.333	231.021
ENSG00000271614	ATP2B1-AS1	-1.6	1.3E-02	0.03193	0.648	0.071	0.548	0.709	0.965	0.100	0.879	1.064
ENSG00000135679	MDM2	-1.6	1.9E-07	2.1E-06	126.284	6.528	120.470	135.597	201.327	21.664	178.536	219.843
ENSG00000177606	JUN	-1.6	2.4E-11	7.24E-10	93.578	5.503	86.620	98.780	141.456	1.989	138.844	143.685
ENSG00000135346	CGA	-1.6	1.8E-02	0.04135	1.066	0.284	0.826	1.474	1.518	0.223	1.307	1.832
ENSG00000230043	TMSB4XP6	-1.6	8.2E-05	0.00041	57.032	9.639	48.422	70.762	82.630	5.452	75.415	88.664
ENSG00000259051	HNRNPUP1	-1.6	1.5E-06	1.3E-05	52.348	7.685	45.333	59.105	77.852	2.078	76.654	80.965
ENSG00000149212	SESN3	-1.6	1.6E-04	0.00074	49.564	5.359	41.540	52.601	77.638	6.782	70.716	83.459
ENSG00000114315	HES1	-1.6	3.6E-11	1E-09	48.436	3.362	44.536	52.714	74.558	0.335	74.122	74.940
ENSG00000137193	PIM1	-1.6	9.3E-11	2.5E-09	45.417	2.945	41.254	48.055	67.591	3.549	64.845	72.290
ENSG00000116574	RHOU	-1.6	1.7E-12	7.85E-11	45.360	1.014	44.765	46.875	67.865	2.004	65.350	69.479
ENSG00000165655	ZNF503	-1.6	1.0E-09	2E-08	44.567	2.657	41.814	47.135	66.814	0.551	66.174	67.521
ENSG00000250337	LINC01021	-1.6	4.5E-04	0.00182	43.418	5.541	35.229	46.856	69.712	9.357	58.891	77.532

ENSG00000232956	SNHG15	-1.6	3.4E-11	9.92E-10	42.701	0.847	41.565	43.507	61.650	1.235	60.587	62.884
ENSG00000198734	F5	-1.6	1.6E-02	0.03785	0.306	0.058	0.249	0.385	0.495	0.056	0.417	0.535
ENSG00000173530	TNFRSF10D	-1.6	7.8E-12	2.80E-10	38.107	1.786	36.046	40.200	55.522	0.841	54.504	56.563
ENSG00000128610	FEZF1	-1.6	1.7E-02	0.03917	0.844	0.237	0.662	1.192	1.172	0.227	0.986	1.503
ENSG00000162772	ATF3	-1.6	3.1E-06	2.4E-05	35.504	2.759	31.675	37.582	51.476	2.729	47.397	53.150
ENSG00000115414	FN1	-1.6	1.7E-10	4.1E-09	31.975	2.550	28.162	33.535	48.593	0.861	48.109	49.883
ENSG00000054598	FOXC1	-1.6	2.2E-10	5.3E-09	30.799	2.467	29.113	34.371	47.052	2.399	44.972	49.130
ENSG00000115274	INO80B	-1.6	1.7E-02	0.03969	1.467	0.407	1.023	1.912	1.936	0.060	1.887	2.009
ENSG00000150687	PRSS23	-1.6	2.8E-12	1.19E-10	24.660	0.897	23.323	25.240	36.402	0.284	36.105	36.788
ENSG00000121621	KIF18A	-1.6	8.8E-03	0.02253	24.400	3.327	20.708	27.694	36.015	3.468	31.093	38.449
ENSG00000102554	KLF5	-1.6	1.3E-10	3.3E-09	23.482	1.164	21.933	24.708	35.003	0.508	34.257	35.326
ENSG00000138182	KIF20B	-1.6	7.5E-02	0.13368	28.277	7.151	20.673	36.105	47.132	13.566	30.151	58.078
ENSG00000115963	RND3	-1.6	7.2E-07	6.6E-06	23.085	0.895	22.157	23.951	33.330	0.968	31.949	34.003
ENSG00000231160	KLF3-AS1	-1.6	2.4E-02	0.05162	0.606	0.344	0.254	0.999	0.956	0.098	0.833	1.073
ENSG00000104081	BMF	-1.6	1.3E-11	4.35E-10	20.234	0.925	18.996	21.033	30.903	1.488	28.694	31.945
ENSG00000144214	LYG1	-1.6	2.5E-02	0.05328	2.883	1.303	1.450	4.204	4.332	0.748	3.240	4.817
ENSG00000163659	TIPARP	-1.6	3.0E-10	6.8E-09	18.313	1.124	17.430	19.895	26.728	0.718	25.672	27.180
ENSG00000196812	ZSCAN16	-1.6	1.3E-06	1.1E-05	17.157	2.017	15.361	19.301	25.203	1.730	24.242	27.797
ENSG00000168743	NPNT	-1.6	2.3E-08	3.1E-07	17.059	1.623	14.884	18.304	26.715	2.578	24.051	28.924
ENSG00000086967	MYBPC2	-1.6	2.1E-02	0.04619	0.575	0.132	0.424	0.744	0.837	0.101	0.695	0.932
ENSG00000101384	JAG1	-1.6	2.6E-10	6.1E-09	16.370	0.753	15.257	16.907	24.306	0.963	22.861	24.789
ENSG00000197168	NEK5	-1.6	1.0E-02	0.02527	0.394	0.124	0.286	0.569	0.586	0.123	0.474	0.692
ENSG00000251095		-1.6	1.3E-06	1.1E-05	15.768	0.893	14.587	16.758	22.492	0.847	21.244	23.139
ENSG00000213315		-1.6	2.0E-04	0.00088	15.427	2.120	13.875	18.557	22.993	1.526	21.898	25.134
ENSG00000116991	SIPA1L2	-1.6	2.0E-10	4.9E-09	13.554	0.887	12.656	14.673	19.985	1.038	18.959	20.879
ENSG00000261934	PCDHGA9	-1.6	1.4E-02	0.03236	0.631	0.224	0.334	0.853	1.116	0.228	0.794	1.277
ENSG00000049130	KITLG	-1.6	1.1E-04	0.00052	13.033	0.069	12.943	13.091	20.446	2.448	17.506	22.463
ENSG00000270605		-1.6	2.3E-07	2.4E-06	12.924	2.226	10.106	14.971	19.675	0.961	18.817	20.506
ENSG00000230847		-1.6	8.2E-05	0.00042	12.780	1.838	11.193	15.366	18.861	1.570	18.045	21.217
ENSG00000183496	MEX3B	-1.6	1.4E-09	2.7E-08	11.831	0.585	10.990	12.347	17.605	0.913	16.306	18.242
ENSG00000125398	SOX9	-1.6	1.4E-08	2E-07	11.735	0.443	11.189	12.183	17.456	0.126	17.285	17.589
ENSG00000145687	SSBP2	-1.6	1.6E-11	5.19E-10	11.129	0.365	10.730	11.496	16.605	0.644	15.677	17.040
ENSG00000266490		-1.6	3.2E-03	0.0096	10.312	2.554	7.957	13.292	15.435	1.250	13.600	16.230
ENSG00000169851	PCDH7	-1.6	2.4E-10	5.6E-09	10.047	0.797	9.359	10.908	15.554	0.882	14.495	16.281
ENSG00000184349	EFNA5	-1.6	1.1E-09	2.1E-08	9.571	0.259	9.239	9.871	14.421	0.455	13.744	14.733
ENSG00000129757	CDKN1C	-1.6	1.1E-07	1.2E-06	9.315	0.618	8.426	9.755	13.591	0.613	13.009	14.457
ENSG00000180530	NRIP1	-1.6	2.4E-05	0.00014	9.178	0.919	7.976	10.164	13.684	1.290	12.408	14.795
ENSG00000267178	PHF5CP	-1.6	7.6E-03	0.01995	9.156	0.891	7.906	9.897	14.760	1.830	12.382	16.199

ENSG00000146592	CREB5	-1.6	1.8E-07	1.9E-06	8.791	0.694	7.786	9.333	13.105	0.289	12.742	13.338
ENSG00000151623	NR3C2	-1.6	3.1E-09	5.3E-08	8.357	0.413	7.949	8.791	12.452	0.722	11.986	13.528
ENSG00000270067		-1.6	6.3E-04	0.00242	8.354	1.642	6.346	9.771	11.851	1.015	10.331	12.401
ENSG00000265254		-1.6	4.4E-03	0.01263	7.923	2.815	3.828	10.108	13.329	2.171	11.427	15.210
ENSG00000158406	HIST1H4H	-1.6	6.5E-06	4.5E-05	7.919	1.297	6.325	9.433	11.767	0.493	11.039	12.130
ENSG00000116106	EPHA4	-1.6	2.6E-08	3.5E-07	7.552	0.830	6.641	8.473	11.240	0.925	10.356	12.038
ENSG00000169184	MN1	-1.6	1.4E-07	1.5E-06	7.221	0.762	6.091	7.765	11.142	0.425	10.545	11.448
ENSG00000165323	FAT3	-1.6	5.7E-06	4E-05	7.006	0.853	5.881	7.921	10.903	0.485	10.419	11.320
ENSG00000106546	AHR	-1.6	2.4E-06	1.9E-05	6.227	0.617	5.634	7.048	9.522	0.815	8.579	10.203
ENSG00000183098	GPC6	-1.6	2.4E-08	3.3E-07	6.187	0.468	5.788	6.814	9.627	1.030	8.281	10.434
ENSG00000272468		-1.6	9.0E-03	0.02302	5.917	1.667	4.134	7.862	8.655	2.060	7.342	11.677
ENSG00000245205	EEF1A1P4	-1.6	3.2E-04	0.00136	5.464	1.091	4.677	7.012	7.892	0.723	6.811	8.330
ENSG00000157445	CACNA2D3	-1.6	9.0E-07	8E-06	5.340	0.710	4.310	5.938	7.887	0.250	7.687	8.203
ENSG00000232368	FTLP2	-1.6	8.9E-03	0.0227	5.135	1.217	3.939	6.799	8.529	0.772	7.469	9.321
ENSG00000270681		-1.6	2.7E-04	0.00115	5.110	0.587	4.239	5.517	7.149	0.934	5.785	7.903
ENSG00000213453	FTH1P3	-1.6	5.7E-03	0.01573	5.049	0.457	4.494	5.608	7.067	1.937	5.527	9.546
ENSG00000278974		-1.6	1.7E-03	0.00564	4.962	0.567	4.421	5.623	7.305	1.358	5.270	8.028
ENSG00000135547	HEY2	-1.6	1.2E-05	8E-05	4.894	0.553	4.415	5.397	7.118	0.440	6.752	7.634
ENSG00000189184	PCDH18	-1.6	1.6E-07	1.8E-06	4.776	0.483	4.402	5.475	7.203	0.418	6.909	7.824
ENSG00000254480		-1.6	7.3E-03	0.01916	4.692	1.062	3.404	6.003	6.374	0.545	5.575	6.800
ENSG00000162599	NFIA	-1.6	6.6E-08	8E-07	4.672	0.307	4.281	4.987	6.888	0.093	6.824	7.022
ENSG00000265962	GACAT2	-1.6	2.4E-03	0.00754	4.595	0.724	3.845	5.330	6.875	1.584	4.801	8.658
ENSG00000150630	VEGFC	-1.6	1.7E-04	0.00078	4.374	0.721	3.481	5.157	6.237	0.373	5.999	6.784
ENSG00000104313	EYA1	-1.6	7.5E-05	0.00038	4.330	0.593	3.924	5.211	6.568	0.770	5.604	7.190
ENSG00000118898	PPL	-1.6	1.8E-08	2.6E-07	4.300	0.385	4.030	4.871	6.271	0.332	5.968	6.743
ENSG00000228451	SDAD1P1	-1.6	2.7E-05	0.00015	4.289	0.320	3.869	4.636	6.435	0.314	6.035	6.685
ENSG00000151012	SLC7A11	-1.6	1.9E-04	0.00087	4.157	0.267	3.815	4.436	6.303	0.375	5.791	6.583
ENSG00000169432	SCN9A	-1.6	7.6E-07	6.9E-06	4.077	0.265	3.687	4.275	6.452	0.597	5.850	6.966
ENSG00000114861	FOXP1	-1.6	1.6E-07	1.7E-06	3.929	0.396	3.691	4.521	5.687	0.155	5.590	5.917
ENSG00000188177	ZC3H6	-1.6	2.7E-07	2.8E-06	3.815	0.295	3.397	4.078	5.734	0.397	5.210	6.042
ENSG00000077092	RARB	-1.6	4.1E-06	3E-05	3.715	0.343	3.483	4.226	5.414	0.456	4.876	5.991
ENSG00000240498	CDKN2B-AS1	-1.6	1.3E-06	1.1E-05	3.510	0.233	3.238	3.796	5.193	0.414	4.800	5.551
ENSG00000134533	RERG	-1.6	5.8E-06	4.1E-05	3.242	0.282	2.911	3.518	4.783	0.618	4.308	5.692
ENSG00000087085	ACHE	-1.6	1.2E-04	0.00057	3.039	0.285	2.867	3.464	4.977	0.984	3.581	5.894
ENSG00000124813	RUNX2	-1.6	3.0E-06	2.3E-05	2.991	0.379	2.757	3.552	4.906	0.381	4.480	5.407
ENSG00000176697	BDNF	-1.6	2.2E-08	3E-07	2.858	0.109	2.722	2.988	4.229	0.195	4.102	4.513
ENSG00000266709		-1.6	9.4E-04	0.00341	2.572	0.342	2.284	3.060	3.760	0.455	3.380	4.287
ENSG00000171724	VAT1L	-1.6	1.8E-02	0.04147	0.590	0.150	0.479	0.798	0.972	0.173	0.778	1.118

ENSG00000179546	HTR1D	-1.6	4.2E-04	0.00171	2.484	0.483	1.997	3.026	3.539	0.385	3.208	3.918
ENSG00000137727	ARHGAP20	-1.6	5.1E-06	3.7E-05	2.399	0.288	2.141	2.709	3.777	0.441	3.253	4.142
ENSG00000231154	MORF4L2-AS1	-1.6	6.9E-04	0.00261	2.327	0.299	2.111	2.754	3.797	0.720	2.855	4.359
ENSG00000230069	LRRC37A15P	-1.6	5.0E-03	0.01393	2.203	0.722	1.356	3.070	3.288	0.471	2.613	3.710
ENSG00000203740	METTL11B	-1.6	4.3E-03	0.01237	2.191	0.579	1.810	3.053	3.208	0.499	2.783	3.743
ENSG00000033122	LRRC7	-1.6	3.5E-07	3.5E-06	2.083	0.226	1.792	2.312	3.157	0.084	3.065	3.270
ENSG00000205323	SARNP	-1.6	1.4E-03	0.00482	2.079	0.499	1.488	2.683	2.826	0.047	2.775	2.866
ENSG00000259495		-1.6	1.2E-05	7.7E-05	2.023	0.303	1.753	2.349	3.059	0.136	2.860	3.146
ENSG00000229619	MBNL1-AS1	-1.6	1.4E-05	8.9E-05	2.012	0.225	1.887	2.349	3.133	0.358	2.767	3.440
ENSG00000198153	ZNF849P	-1.6	3.4E-03	0.01006	1.993	0.371	1.548	2.347	2.793	0.243	2.544	3.127
ENSG00000241170		-1.6	2.2E-03	0.00705	1.864	0.470	1.334	2.440	3.119	0.371	2.732	3.437
ENSG00000256304	CCDC150P1	-1.6	1.3E-03	0.00453	1.743	0.279	1.349	2.005	2.374	0.259	2.233	2.761
ENSG00000257261		-1.6	3.1E-03	0.00929	1.706	0.491	1.049	2.224	2.591	0.334	2.096	2.794
ENSG00000267365	KCNJ2-AS1	-1.6	2.7E-03	0.00845	1.705	0.495	1.020	2.195	2.414	0.077	2.316	2.505
ENSG00000183336	BOLA2	-1.6	2.5E-03	0.00779	1.638	0.392	1.111	2.032	2.450	0.373	2.143	2.993
ENSG00000188993	LRRC66	-1.6	1.5E-03	0.00514	1.581	0.366	1.134	1.888	2.456	0.356	1.936	2.685
ENSG00000165182	CXorf58	-1.6	4.7E-03	0.01338	1.552	0.475	0.980	2.022	2.459	0.286	2.174	2.856
ENSG00000079102	RUNX1T1	-1.6	2.0E-06	1.6E-05	1.512	0.205	1.231	1.675	2.280	0.161	2.105	2.416
ENSG00000246876	LINC02466	-1.6	3.3E-03	0.00979	1.500	0.245	1.268	1.729	2.356	0.633	1.535	3.080
ENSG00000006128	TAC1	-1.6	9.5E-03	0.02403	1.492	0.406	0.944	1.897	2.404	0.190	2.131	2.535
ENSG00000215386	MIR99AHG	-1.6	1.8E-04	0.00082	1.453	0.256	1.172	1.765	1.975	0.164	1.731	2.068
ENSG00000114200	BCHE	-1.6	6.7E-03	0.01787	1.436	0.473	0.900	2.041	2.184	0.410	1.776	2.536
ENSG00000172748	ZNF596	-1.6	7.1E-05	0.00036	1.368	0.185	1.109	1.503	2.079	0.147	1.922	2.277
ENSG00000178127	NDUFV2	-1.6	7.9E-03	0.02053	1.341	0.466	0.731	1.864	2.114	0.448	1.544	2.472
ENSG00000186976	EFCAB6	-1.6	3.6E-06	2.7E-05	1.298	0.150	1.121	1.441	2.071	0.060	1.983	2.107
ENSG00000259315	ACTG1P17	-1.6	6.2E-03	0.01673	1.282	0.137	1.096	1.418	1.940	0.355	1.649	2.457
ENSG00000138669	PRKG2	-1.6	2.7E-03	0.00828	1.190	0.337	0.883	1.665	1.571	0.321	1.310	1.965
ENSG00000141431	ASXL3	-1.6	2.4E-05	0.00014	1.185	0.251	0.962	1.543	1.899	0.165	1.748	2.041
ENSG00000002745	WNT16	-1.6	8.6E-03	0.02206	1.132	0.429	0.798	1.762	1.857	0.114	1.686	1.925
ENSG00000272345		-1.6	7.7E-02	0.13663	2.523	1.676	1.209	4.740	4.219	0.780	3.266	4.856
ENSG00000106536	POU6F2	-1.6	5.7E-05	0.0003	1.095	0.215	0.860	1.305	1.647	0.241	1.439	1.877
ENSG00000223855		-1.6	2.6E-03	0.008	1.028	0.198	0.791	1.267	1.455	0.265	1.274	1.836
ENSG00000156463	SH3RF2	-1.6	9.6E-05	0.00047	1.024	0.160	0.868	1.174	1.607	0.215	1.291	1.743
ENSG00000182308	DCAF4L1	-1.6	4.5E-03	0.0129	0.982	0.447	0.560	1.453	1.535	0.043	1.484	1.571
ENSG00000239389	PCDHA13	-1.6	3.5E-03	0.01026	0.974	0.363	0.764	1.517	1.453	0.203	1.159	1.589
ENSG00000226476	LINC01748	-1.6	2.5E-05	0.00015	0.969	0.148	0.829	1.158	1.436	0.145	1.242	1.547
ENSG00000008300	CELSR3	-1.6	5.8E-05	0.0003	0.964	0.109	0.816	1.071	1.363	0.115	1.265	1.483
ENSG00000166923	GREM1	-1.6	4.5E-05	0.00025	0.888	0.222	0.624	1.139	1.295	0.050	1.226	1.333

ENSG00000265817	FSBP	-1.6	3.9E-03	0.01145	0.886	0.179	0.699	1.126	1.238	0.174	1.074	1.485
ENSG00000259663		-1.6	2.7E-04	0.00117	0.881	0.034	0.831	0.901	1.312	0.234	1.103	1.647
ENSG00000138675	FGF5	-1.6	2.8E-03	0.00865	0.860	0.219	0.627	1.154	1.269	0.177	1.117	1.449
ENSG00000162814	SPATA17	-1.6	2.9E-03	0.00879	0.804	0.092	0.682	0.893	1.253	0.269	0.914	1.469
ENSG00000271474		-1.6	3.9E-03	0.01137	0.781	0.094	0.644	0.850	1.257	0.111	1.132	1.402
ENSG00000269113	TRABD2B	-1.6	1.6E-03	0.00523	0.752	0.099	0.664	0.894	1.173	0.242	0.826	1.338
ENSG00000113532	ST8SIA4	-1.6	4.9E-04	0.00195	0.712	0.138	0.605	0.915	1.068	0.069	0.991	1.126
ENSG00000235100		-1.6	1.0E-02	0.02534	1.847	0.481	1.333	2.360	3.129	0.230	2.852	3.319
ENSG00000260572		-1.6	1.1E-02	0.02765	1.600	0.244	1.453	1.964	2.183	0.062	2.107	2.233
ENSG00000267731		-1.6	1.5E-02	0.03452	0.895	0.271	0.543	1.185	1.625	0.415	1.130	1.968
ENSG00000280426		-1.6	1.5E-02	0.03625	1.662	0.492	1.255	2.278	2.212	0.246	1.884	2.482
ENSG00000255129		-1.6	2.7E-02	0.05723	1.397	0.509	0.821	1.861	2.326	0.319	1.848	2.498
ENSG00000261560		-1.6	2.9E-02	0.06027	2.085	0.681	1.473	2.812	3.298	0.981	1.830	3.842
ENSG00000248774		-1.6	3.6E-02	0.07229	5.280	1.242	3.802	6.338	7.798	1.604	6.331	9.187
ENSG00000112175	BMP5	-1.6	6.4E-03	0.01724	0.647	0.219	0.398	0.902	0.906	0.060	0.855	0.994
ENSG00000141433	ADCYAP1	-1.6	4.5E-03	0.01268	0.631	0.105	0.521	0.737	1.004	0.078	0.888	1.048
ENSG00000139364	TMEM132B	-1.6	1.1E-04	0.00053	0.611	0.103	0.461	0.694	0.951	0.155	0.760	1.077
ENSG00000251664	PCDHA12	-1.6	4.1E-03	0.01186	0.595	0.055	0.548	0.671	0.961	0.118	0.841	1.063
ENSG00000159450	TCHH	-1.6	4.9E-03	0.01368	0.550	0.096	0.427	0.657	0.934	0.009	0.921	0.943
ENSG00000099260	PALMD	-1.6	7.3E-04	0.00276	0.492	0.045	0.446	0.553	0.695	0.108	0.639	0.857
ENSG00000156475	PPP2R2B	-1.6	4.3E-04	0.00175	0.450	0.054	0.377	0.500	0.651	0.058	0.609	0.737
ENSG00000124766	SOX4	-1.7	4.8E-12	1.89E-10	80.790	4.325	75.534	85.457	125.366	4.712	121.005	129.442
ENSG00000245532	NEAT1	-1.7	4.6E-08	5.9E-07	74.286	8.061	63.288	82.604	125.039	15.588	110.923	138.531
ENSG00000277449	CEBPB-AS1	-1.7	1.0E-02	0.02535	0.882	0.326	0.475	1.273	1.351	0.286	1.205	1.780
ENSG00000116717	GADD45A	-1.7	1.1E-10	3E-09	57.125	3.140	53.288	60.422	91.402	3.945	86.930	96.547
ENSG00000251129		-1.7	3.9E-10	8.6E-09	52.291	2.565	50.024	55.925	80.411	3.122	75.972	82.595
ENSG00000170836	PPM1D	-1.7	3.5E-12	1.46E-10	44.981	1.528	42.807	46.339	69.966	2.472	66.568	71.799
ENSG00000164442	CITED2	-1.7	1.5E-10	3.7E-09	43.596	2.387	40.321	46.041	66.056	1.195	65.263	67.790
ENSG00000165244	ZNF367	-1.7	7.9E-12	2.83E-10	41.180	0.878	39.981	42.094	63.914	2.685	60.350	65.986
ENSG00000251022	THAP9-AS1	-1.7	3.5E-08	4.6E-07	30.992	2.483	29.006	34.554	49.855	5.136	44.441	54.244
ENSG00000002587	HS3ST1	-1.7	1.3E-02	0.03153	0.292	0.095	0.218	0.431	0.508	0.124	0.346	0.606
ENSG00000113580	NR3C1	-1.7	3.2E-11	9.52E-10	22.899	1.433	20.779	23.908	35.511	2.421	32.905	37.571
ENSG00000105327	BBC3	-1.7	1.4E-09	2.7E-08	21.802	1.946	19.435	24.191	35.281	0.488	34.977	36.010
ENSG00000128285	MCHR1	-1.7	7.3E-02	0.13	0.285	0.135	0.103	0.401	0.497	0.126	0.326	0.593
ENSG00000181449	SOX2	-1.7	6.0E-10	1.3E-08	18.719	1.378	16.770	20.016	29.536	1.595	28.119	30.918
ENSG00000067082	KLF6	-1.7	7.8E-13	4.08E-11	15.771	0.455	15.138	16.198	24.958	0.621	24.358	25.494
ENSG00000175745	NR2F1	-1.7	2.2E-09	3.9E-08	14.696	1.750	13.344	17.063	23.274	1.040	21.837	24.039
ENSG00000096654	ZNF184	-1.7	1.6E-08	2.2E-07	14.646	1.218	13.261	15.994	23.763	1.829	22.138	25.346

ENSG00000150347	ARID5B	-1.7	3.5E-10	7.8E-09	14.051	0.513	13.290	14.388	22.090	0.466	21.665	22.493
ENSG00000099250	NRP1	-1.7	1.1E-11	3.77E-10	13.178	0.483	12.550	13.719	21.682	1.406	20.243	22.888
ENSG00000168916	ZNF608	-1.7	2.8E-09	4.7E-08	12.589	1.296	11.018	13.736	20.287	1.169	18.882	21.250
ENSG00000115461	IGFBP5	-1.7	2.8E-10	6.4E-09	11.682	1.169	10.033	12.792	18.532	0.628	18.065	19.458
ENSG00000150551	LYPD1	-1.7	1.6E-09	2.9E-08	11.668	0.553	10.846	12.002	18.389	0.994	17.528	19.286
ENSG00000185630	PBX1	-1.7	1.9E-11	5.84E-10	11.051	0.748	9.953	11.609	17.534	1.021	16.455	18.406
ENSG00000246465		-1.7	4.3E-08	5.5E-07	9.237	0.412	8.828	9.603	14.371	1.025	13.296	15.766
ENSG00000164949	GEM	-1.7	1.5E-07	1.7E-06	9.140	0.710	8.154	9.798	13.755	0.525	13.130	14.415
ENSG00000120370	GORAB	-1.7	1.3E-08	1.8E-07	8.132	0.361	7.794	8.610	12.897	0.307	12.532	13.150
ENSG00000249859	PVT1	-1.7	1.8E-09	3.2E-08	7.760	0.337	7.399	8.114	12.792	0.489	12.073	13.099
ENSG00000044524	EPHA3	-1.7	1.8E-07	1.9E-06	7.685	0.794	6.691	8.629	11.856	0.323	11.462	12.120
ENSG00000176887	SOX11	-1.7	2.3E-09	4E-08	7.310	0.723	6.312	7.958	11.318	0.445	10.652	11.566
ENSG00000179981	TSHZ1	-1.7	1.5E-09	2.9E-08	6.988	0.796	6.124	7.785	11.199	0.078	11.135	11.313
ENSG00000261557		-1.7	2.1E-04	0.00092	5.368	1.099	3.761	6.247	8.154	1.353	7.053	10.129
ENSG00000277383		-1.7	1.9E-03	0.00616	5.315	1.083	4.425	6.689	8.415	0.413	8.021	8.772
ENSG00000239405	TMED10P2	-1.7	1.8E-03	0.00595	4.772	1.198	3.597	5.852	7.551	0.586	6.673	7.890
ENSG00000164708	PGAM2	-1.7	1.1E-03	0.00378	4.034	0.805	3.467	5.183	6.038	0.743	5.399	6.782
ENSG00000164743	C8orf48	-1.7	5.7E-05	0.0003	3.994	0.636	3.286	4.742	6.369	0.565	5.544	6.735
ENSG00000145536	ADAMTS16	-1.7	1.3E-07	1.5E-06	3.861	0.330	3.487	4.291	6.448	0.528	6.095	7.234
ENSG00000266983		-1.7	4.1E-03	0.01181	3.703	1.281	2.707	5.580	6.794	1.382	5.542	7.989
ENSG00000070731	ST6GALNAC2	-1.7	4.8E-06	3.5E-05	3.366	0.597	2.571	4.010	5.640	0.444	4.988	5.922
ENSG00000143995	MEIS1	-1.7	2.0E-08	2.8E-07	3.230	0.301	2.935	3.589	5.140	0.484	4.446	5.472
ENSG00000225792		-1.7	2.0E-03	0.00643	3.164	0.763	2.496	4.237	4.854	0.450	4.522	5.475
ENSG00000258357		-1.7	5.7E-03	0.01558	2.916	0.281	2.695	3.326	4.007	1.230	2.966	5.365
ENSG00000203814	HIST2H2BF	-1.7	9.8E-05	0.00048	2.451	0.524	1.820	2.964	4.127	0.244	3.794	4.309
ENSG00000230699		-1.7	1.9E-03	0.00618	2.425	0.677	1.433	2.946	4.268	1.192	3.097	5.295
ENSG00000260103		-1.7	1.3E-04	0.00061	2.401	0.558	1.819	3.160	3.670	0.718	3.064	4.470
ENSG00000217648		-1.7	2.3E-03	0.00737	2.380	0.659	1.642	3.163	3.782	0.639	3.435	4.738
ENSG00000140527	WDR93	-1.7	1.8E-02	0.0416	0.481	0.186	0.345	0.753	0.812	0.111	0.673	0.902
ENSG00000196890	HIST3H2BB	-1.7	2.5E-05	0.00015	2.316	0.201	2.095	2.528	3.797	0.115	3.677	3.954
ENSG00000232906		-1.7	2.1E-03	0.00681	2.242	0.761	1.629	3.347	3.743	0.663	3.108	4.676
ENSG00000229127		-1.7	2.4E-03	0.00747	2.242	0.457	1.621	2.691	3.911	1.129	2.635	4.861
ENSG00000138670	RASGEF1B	-1.7	1.9E-08	2.6E-07	2.240	0.065	2.146	2.295	3.433	0.247	3.130	3.635
ENSG00000107562	CXCL12	-1.7	5.4E-08	6.7E-07	2.229	0.171	1.988	2.369	3.656	0.137	3.544	3.826
ENSG00000279865		-1.7	2.3E-04	0.00099	2.223	0.441	1.834	2.851	3.425	0.148	3.306	3.612
ENSG00000263745		-1.7	1.2E-05	7.9E-05	2.215	0.232	1.946	2.419	3.525	0.425	2.895	3.781
ENSG00000225420		-1.7	4.3E-03	0.01221	2.157	0.660	1.604	2.948	3.399	0.630	3.014	4.330
ENSG00000169554	ZEB2	-1.7	1.6E-08	2.3E-07	1.877	0.117	1.757	2.023	3.053	0.268	2.806	3.284

ENSG00000123700	KCNJ2	-1.7	6.1E-06	4.3E-05	1.587	0.120	1.410	1.669	2.590	0.342	2.078	2.775
ENSG00000261136		-1.7	2.8E-04	0.00118	1.531	0.384	1.032	1.950	2.561	0.103	2.430	2.681
ENSG00000118407	FILIP1	-1.7	3.3E-06	2.5E-05	1.386	0.133	1.254	1.512	2.052	0.043	2.024	2.115
ENSG00000139209	SLC38A4	-1.7	2.0E-04	0.00089	1.240	0.127	1.099	1.404	2.114	0.275	1.819	2.348
ENSG00000186056	MATN1-AS1	-1.7	2.7E-04	0.00117	1.192	0.195	0.985	1.432	1.989	0.358	1.679	2.300
ENSG00000108932	SLC16A6	-1.7	1.7E-04	0.0008	1.174	0.240	0.833	1.390	1.784	0.086	1.665	1.846
ENSG00000234996		-1.7	4.8E-03	0.01354	1.145	0.392	0.604	1.491	2.025	0.440	1.624	2.406
ENSG00000143110	C1orf162	-1.7	1.4E-03	0.00491	1.126	0.265	0.885	1.360	1.810	0.265	1.512	2.156
ENSG00000154736	ADAMTS5	-1.7	1.1E-06	9.5E-06	1.019	0.060	0.955	1.099	1.601	0.090	1.509	1.724
ENSG00000102174	PHEX	-1.7	7.2E-06	4.9E-05	1.011	0.108	0.888	1.148	1.616	0.100	1.501	1.699
ENSG00000154479	CCDC173	-1.7	6.4E-03	0.01716	0.989	0.340	0.563	1.393	1.459	0.220	1.224	1.756
ENSG00000156453	PCDH1	-1.7	4.8E-04	0.00189	0.935	0.169	0.826	1.187	1.403	0.136	1.297	1.582
ENSG00000115896	PLCL1	-1.7	1.1E-04	0.00055	0.928	0.115	0.805	1.070	1.442	0.277	1.117	1.672
ENSG00000230873	STMND1	-1.7	4.0E-03	0.01163	0.923	0.304	0.709	1.375	1.408	0.232	1.218	1.690
ENSG00000170961	HAS2	-1.7	1.1E-03	0.00403	0.786	0.207	0.595	1.060	1.206	0.205	1.066	1.500
ENSG00000087589	CASS4	-1.7	1.6E-03	0.00525	0.742	0.235	0.434	0.983	1.202	0.152	1.070	1.334
ENSG00000249637		-1.7	1.5E-02	0.03563	3.485	0.755	2.790	4.255	5.154	1.537	4.068	7.330
ENSG00000214198	TTC41P	-1.7	3.5E-04	0.00146	0.658	0.035	0.613	0.695	0.955	0.204	0.835	1.258
ENSG00000253305	PCDHGB6	-1.7	5.5E-04	0.00215	0.636	0.137	0.505	0.754	1.161	0.237	0.866	1.353
ENSG00000284526		-1.7	3.9E-03	0.01124	0.545	0.142	0.389	0.701	0.916	0.057	0.861	0.996
ENSG00000136040	PLXNC1	-1.7	5.1E-03	0.01426	0.535	0.077	0.429	0.601	0.903	0.118	0.763	1.000
ENSG00000113389	NPR3	-1.7	2.6E-03	0.00823	0.507	0.040	0.466	0.562	0.733	0.223	0.604	1.067
ENSG00000248441	LINC01197	-1.7	1.3E-03	0.00445	0.466	0.080	0.397	0.579	0.695	0.187	0.570	0.967
ENSG00000164309	CMYA5	-1.7	4.8E-04	0.00191	0.421	0.094	0.335	0.545	0.663	0.025	0.641	0.687
ENSG00000169896	ITGAM	-1.7	5.3E-03	0.01474	0.390	0.091	0.302	0.490	0.573	0.198	0.422	0.838
ENSG00000134207	SYT6	-1.7	6.2E-03	0.01679	0.291	0.062	0.240	0.370	0.452	0.089	0.375	0.536
ENSG00000133169	BEX1	-1.8	3.2E-02	0.06562	4.760	4.002	1.820	10.661	7.382	0.596	6.893	8.104
ENSG00000138778	CENPE	-1.8	8.0E-02	0.14064	12.317	4.921	8.096	17.467	24.546	10.483	11.527	33.043
ENSG00000236824	BCYRN1	-1.8	1.0E-04	0.0005	55.441	10.695	44.901	68.215	92.569	20.031	63.806	106.253
ENSG00000228314	CYP4F29P	-1.8	1.1E-02	0.02779	1.166	0.504	0.773	1.884	2.088	0.202	1.967	2.391
ENSG00000155090	KLF10	-1.8	1.2E-14	1.19E-12	47.086	1.911	44.900	49.534	79.005	0.317	78.733	79.463
ENSG00000140450	ARRDC4	-1.8	9.5E-12	3.29E-10	40.418	2.873	36.609	42.881	67.499	5.755	62.416	72.482
ENSG00000158373	HIST1H2BD	-1.8	1.2E-08	1.7E-07	22.507	2.464	18.978	24.465	37.180	2.754	33.364	39.198
ENSG00000180573	HIST1H2AC	-1.8	3.5E-10	7.8E-09	20.719	0.761	19.833	21.671	34.083	0.698	33.100	34.750
ENSG00000169116	PARM1	-1.8	2.6E-12	1.12E-10	17.911	1.354	16.275	19.241	30.164	1.155	29.411	31.847
ENSG00000168542	COL3A1	-1.8	1.6E-11	5.10E-10	9.920	0.447	9.651	10.586	16.231	0.762	15.647	17.251
ENSG00000278238		-1.8	6.5E-05	0.00034	8.095	1.717	6.401	10.446	13.647	0.936	12.715	14.947
ENSG00000218069	RSL24D1P1	-1.8	1.3E-04	0.00063	6.459	0.953	5.748	7.815	10.736	0.979	10.032	12.108

ENSG00000260077		-1.8	1.5E-05	9.2E-05	6.234	0.267	5.944	6.553	10.712	1.122	9.743	11.791
ENSG00000137573	SULF1	-1.8	2.8E-10	6.5E-09	5.862	0.272	5.552	6.160	10.015	0.154	9.788	10.111
ENSG00000214243		-1.8	5.9E-04	0.00228	4.695	0.554	4.009	5.273	7.600	0.529	6.849	7.971
ENSG00000092421	SEMA6A	-1.8	2.4E-09	4.2E-08	4.444	0.549	3.646	4.827	7.440	0.221	7.325	7.772
ENSG00000135116	HRK	-1.8	1.6E-08	2.3E-07	4.107	0.254	3.844	4.454	7.062	0.590	6.177	7.358
ENSG00000234585	CCT6P3	-1.8	8.5E-09	1.3E-07	3.896	0.318	3.563	4.192	6.629	0.249	6.264	6.790
ENSG00000128573	FOXP2	-1.8	2.1E-05	0.00012	3.361	0.314	2.891	3.537	5.641	0.128	5.495	5.749
ENSG00000140465	CYP1A1	-1.8	1.6E-04	0.00073	2.342	0.329	1.995	2.675	3.482	0.965	2.926	4.920
ENSG00000176046	NUPR1	-1.8	1.6E-07	1.8E-06	2.327	0.203	2.051	2.510	3.738	0.504	3.346	4.402
ENSG00000237187	NR2F1-AS1	-1.8	3.5E-08	4.7E-07	2.265	0.321	1.813	2.500	3.683	0.097	3.561	3.761
ENSG00000138639	ARHGAP24	-1.8	3.8E-07	3.8E-06	2.203	0.355	1.674	2.426	3.674	0.210	3.420	3.933
ENSG00000178573	MAF	-1.8	9.1E-08	1.1E-06	1.984	0.243	1.623	2.130	3.162	0.052	3.092	3.202
ENSG00000274290	HIST1H2BE	-1.8	9.5E-04	0.00345	1.715	0.544	0.920	2.139	2.543	0.341	2.345	3.051
ENSG00000102678	FGF9	-1.8	2.0E-05	0.00012	1.687	0.474	1.143	2.230	3.027	0.210	2.769	3.199
ENSG00000152763	WDR78	-1.8	8.7E-05	0.00043	1.547	0.334	1.196	1.974	2.512	0.524	2.070	3.097
ENSG00000243819	RN7SL832P	-1.8	4.7E-04	0.00188	1.476	0.286	1.075	1.745	2.517	0.034	2.475	2.544
ENSG00000109819	PPARGC1A	-1.8	7.1E-08	8.6E-07	1.372	0.096	1.232	1.451	2.343	0.156	2.162	2.543
ENSG00000260774		-1.8	6.2E-04	0.00238	1.287	0.151	1.116	1.478	1.912	0.381	1.341	2.104
ENSG00000166793	YPEL4	-1.8	1.3E-05	8.3E-05	1.265	0.145	1.133	1.432	2.018	0.178	1.896	2.274
ENSG00000182752	PAPPA	-1.8	3.7E-07	3.6E-06	1.219	0.146	1.095	1.429	1.999	0.224	1.820	2.281
ENSG00000273038		-1.8	7.0E-03	0.01867	1.005	0.352	0.681	1.452	1.954	0.214	1.643	2.094
ENSG00000247809	NR2F2-AS1	-1.8	3.0E-05	0.00017	0.836	0.094	0.700	0.909	1.268	0.099	1.184	1.381
ENSG00000186479	RGS7BP	-1.8	2.7E-04	0.00117	0.808	0.128	0.711	0.995	1.365	0.218	1.040	1.507
ENSG00000121075	TBX4	-1.8	5.4E-04	0.00212	0.727	0.104	0.662	0.882	1.225	0.071	1.128	1.297
ENSG00000107105	ELAVL2	-1.8	1.2E-03	0.00425	0.701	0.254	0.536	1.079	1.177	0.179	0.908	1.273
ENSG00000269974		-1.8	1.3E-02	0.03153	3.998	1.049	2.925	5.311	6.511	1.477	5.441	8.572
ENSG00000185736	ADARB2	-1.8	1.3E-04	0.00062	0.556	0.109	0.481	0.718	1.016	0.192	0.747	1.153
ENSG00000231672	DIRC3	-1.8	1.1E-03	0.00381	0.496	0.121	0.361	0.634	0.818	0.187	0.587	1.044
ENSG00000215018	COL28A1	-1.8	3.2E-04	0.00135	0.492	0.079	0.423	0.579	0.782	0.152	0.651	0.926
ENSG00000150394	CDH8	-1.8	3.0E-05	0.00017	0.434	0.040	0.395	0.487	0.742	0.124	0.627	0.849
ENSG00000175197	DDIT3	-1.9	2.9E-10	6.7E-09	39.272	2.848	35.276	41.777	67.965	4.580	65.225	74.818
ENSG00000145632	PLK2	-1.9	2.7E-12	1.16E-10	17.036	0.919	16.494	18.407	30.219	1.628	28.366	31.587
ENSG00000228409	CCT6P1	-1.9	5.5E-08	6.8E-07	13.533	1.717	11.346	15.539	24.681	1.192	24.010	26.462
ENSG00000078018	MAP2	-1.9	2.7E-09	4.7E-08	7.288	0.606	6.802	8.174	13.503	1.531	12.013	14.824
ENSG00000260727	SLC7A5P1	-1.9	1.8E-03	0.0058	4.243	1.205	3.075	5.847	7.775	1.808	5.096	9.068
ENSG00000250519		-1.9	4.2E-04	0.00171	3.414	0.440	2.827	3.877	6.125	0.780	5.121	7.024
ENSG00000163009	C2orf48	-1.9	1.2E-05	7.7E-05	2.949	0.740	2.134	3.876	5.305	0.666	4.837	6.293
ENSG00000274460		-1.9	9.2E-05	0.00046	2.742	0.721	1.849	3.586	4.698	0.417	4.387	5.268

ENSG00000276966	HIST1H4E	-1.9	3.1E-05	0.00018	2.662	0.548	2.221	3.456	4.849	0.367	4.331	5.196
ENSG00000224596	ZMIZ1-AS1	-1.9	2.3E-02	0.04957	0.274	0.114	0.173	0.391	0.568	0.143	0.355	0.649
ENSG00000225793		-1.9	2.4E-04	0.00103	1.702	0.120	1.553	1.845	2.860	0.661	2.416	3.815
ENSG00000164440	TXLNB	-1.9	2.7E-06	2.1E-05	1.670	0.391	1.334	2.082	2.894	0.240	2.706	3.245
ENSG00000104783	KCNN4	-1.9	7.8E-06	5.3E-05	1.255	0.182	1.118	1.515	2.264	0.125	2.183	2.447
ENSG00000261087		-1.9	1.3E-03	0.00455	1.124	0.478	0.542	1.683	2.057	0.194	1.766	2.169
ENSG00000188959	C9orf152	-1.9	7.9E-04	0.00295	0.658	0.140	0.471	0.780	1.054	0.092	0.974	1.147
ENSG00000233030		-1.9	3.0E-03	0.00903	0.520	0.265	0.266	0.894	0.998	0.184	0.810	1.156
ENSG00000248596		-1.9	1.9E-03	0.00628	0.424	0.176	0.259	0.659	0.719	0.043	0.683	0.765
ENSG00000173406	DAB1	-1.9	1.1E-03	0.00402	0.298	0.089	0.187	0.371	0.496	0.125	0.423	0.682
ENSG00000174844	DNAH12	-1.9	2.5E-04	0.00107	0.209	0.045	0.152	0.249	0.360	0.044	0.337	0.426
ENSG00000026025	VIM	-2	3.5E-15	4.10E-13	183.403	5.370	178.925	191.207	340.579	7.338	330.942	346.298
ENSG00000256589	ENPP7P5	-2	1.0E-01	0.17299	0.274	0.134	0.153	0.453	0.657	0.083	0.609	0.781
ENSG00000188738	FSIP2	-2	2.1E-02	0.04644	0.114	0.048	0.046	0.156	0.272	0.117	0.140	0.370
ENSG00000075223	SEMA3C	-2	1.4E-08	2.1E-07	13.655	1.164	12.610	14.906	26.051	1.381	24.473	27.209
ENSG00000130222	GADD45G	-2	1.3E-06	1.1E-05	7.112	0.740	6.361	7.763	13.920	0.753	13.189	14.976
ENSG00000123095	BHLHE41	-2	4.0E-11	1.2E-09	6.177	0.388	5.616	6.469	11.284	0.357	10.764	11.517
ENSG00000010030	ETV7	-2	9.1E-07	8.1E-06	4.535	0.980	3.161	5.424	8.343	0.975	6.881	8.882
ENSG00000159208	CIART	-2	3.0E-07	3.1E-06	3.284	0.469	2.625	3.693	5.806	0.827	5.148	6.866
ENSG00000213363	RPS3P6	-2	1.2E-03	0.00407	3.097	0.484	2.619	3.769	5.995	0.842	4.744	6.577
ENSG00000170214	ADRA1B	-2	1.9E-04	0.00085	2.581	0.753	1.810	3.261	4.749	0.841	3.615	5.649
ENSG00000179046	TRIML2	-2	6.8E-06	4.7E-05	1.939	0.432	1.340	2.298	3.671	0.786	3.138	4.803
ENSG00000255471		-2	7.6E-04	0.00284	1.648	0.752	1.162	2.765	2.842	0.243	2.511	3.095
ENSG00000283235		-2	1.5E-03	0.00508	1.098	0.625	0.452	1.789	2.102	0.156	1.870	2.214
ENSG00000139269	INHBE	-2	6.0E-04	0.00232	1.026	0.219	0.854	1.343	1.598	0.158	1.482	1.815
ENSG00000108309	RUNDC3A	-2	7.7E-05	0.00039	0.794	0.285	0.593	1.212	1.455	0.321	1.281	1.936
ENSG00000249790		-2	7.2E-03	0.01906	0.478	0.118	0.319	0.583	0.960	0.355	0.598	1.448
ENSG00000273419		-2	3.5E-03	0.01028	0.464	0.104	0.339	0.561	0.844	0.333	0.663	1.343
ENSG00000038295	TLL1	-2	1.3E-03	0.00455	0.310	0.026	0.285	0.334	0.662	0.176	0.449	0.806
ENSG00000272398	CD24	-2.1	4.8E-02	0.09193	2.385	1.846	1.360	5.149	4.201	2.674	2.850	8.212
ENSG00000099251	HSD17B7P2	-2.1	1.1E-09	2.1E-08	12.832	1.553	11.168	14.797	25.578	2.251	22.530	27.279
ENSG00000273802	HIST1H2BG	-2.1	1.2E-07	1.4E-06	4.204	0.484	3.745	4.873	8.276	0.556	7.660	9.011
ENSG00000223638	RFPL4A	-2.1	1.8E-05	0.00011	3.489	0.605	2.899	4.195	6.796	1.466	5.742	8.967
ENSG00000236993	GAPDHP21	-2.1	1.8E-05	0.00011	2.934	0.564	2.467	3.640	5.833	0.260	5.687	6.221
ENSG00000224294		-2.1	7.4E-06	5E-05	2.273	0.302	1.957	2.681	4.772	0.536	4.190	5.227
ENSG00000229292	RFPL4AL1	-2.1	2.2E-04	0.00095	2.259	0.395	1.778	2.736	4.547	0.515	4.117	5.140
ENSG00000242689	CNTF	-2.1	9.1E-06	6.1E-05	2.240	0.275	1.987	2.631	4.493	0.840	3.824	5.723
ENSG00000151023	ENKUR	-2.1	2.2E-03	0.0069	0.373	0.146	0.188	0.535	0.664	0.074	0.553	0.705

ENSG00000080573	COL5A3	-2.1	3.3E-04	0.00138	0.335	0.119	0.235	0.508	0.707	0.149	0.548	0.908
ENSG00000165186	PTCHD1	-2.1	8.0E-05	0.0004	0.173	0.027	0.145	0.206	0.366	0.026	0.329	0.389
ENSG00000210151	MT-TS1	-2.2	3.9E-03	0.01129	61.773	9.410	54.546	75.605	140.259	11.803	131.400	156.330
ENSG00000196787	HIST1H2AG	-2.2	1.7E-09	3E-08	4.897	0.497	4.232	5.393	10.018	0.371	9.495	10.281
ENSG00000108924	HLF	-2.2	2.3E-08	3.2E-07	1.551	0.121	1.380	1.643	3.124	0.454	2.731	3.535
ENSG00000186517	ARHGAP30	-2.2	4.3E-08	5.6E-07	1.525	0.301	1.087	1.724	3.154	0.121	3.009	3.306
ENSG00000188580	NKAIN2	-2.2	1.5E-04	0.00068	0.624	0.237	0.408	0.944	1.130	0.240	0.950	1.457
ENSG00000122641	INHBA	-2.2	2.4E-04	0.00104	0.290	0.095	0.167	0.369	0.606	0.181	0.359	0.795
ENSG00000100867	DHRS2	-2.3	5.7E-10	1.2E-08	9.467	0.470	9.000	9.936	20.462	0.474	19.874	20.847
ENSG00000134363	FST	-2.3	3.1E-06	2.4E-05	1.606	0.437	1.201	2.167	3.594	0.119	3.416	3.654
ENSG00000181016	LSMEM1	-2.3	1.1E-06	9.8E-06	1.466	0.289	1.182	1.802	3.286	0.395	2.732	3.570
ENSG00000138347	MYPN	-2.3	6.6E-07	6.1E-06	0.567	0.149	0.434	0.780	1.320	0.098	1.201	1.401
ENSG00000145087	STXBP5L	-2.3	2.1E-05	0.00012	0.341	0.132	0.249	0.536	0.690	0.142	0.604	0.900
ENSG00000158486	DNAH3	-2.4	2.3E-07	2.4E-06	0.428	0.035	0.396	0.477	1.008	0.038	0.968	1.061
ENSG00000265972	TXNIP	-2.5	1.1E-16	2.23E-14	79.628	4.790	74.361	84.802	181.912	3.734	176.321	184.098
ENSG00000164746	C7orf57	-2.5	2.2E-04	0.00097	0.703	0.166	0.479	0.875	1.381	0.635	0.842	2.071
ENSG00000056487	PHF21B	-2.5	1.1E-04	0.00054	0.437	0.198	0.271	0.723	0.954	0.367	0.638	1.311
ENSG00000143469	SYT14	-2.5	3.8E-09	6.3E-08	0.412	0.065	0.339	0.498	0.978	0.115	0.857	1.077
ENSG00000187775	DNAH17	-2.6	5.2E-13	2.84E-11	1.652	0.179	1.502	1.905	4.031	0.242	3.823	4.267
ENSG00000111087	GLI1	-2.6	2.9E-09	5.1E-08	1.225	0.069	1.131	1.296	2.992	0.283	2.770	3.363
ENSG00000255389		-2.6	1.3E-05	8.1E-05	0.807	0.401	0.515	1.392	2.106	0.316	1.752	2.372
ENSG00000164484	TMEM200A	-2.6	6.7E-04	0.00256	0.167	0.022	0.152	0.200	0.377	0.199	0.234	0.656
ENSG00000234424		-3.1	1.7E-07	1.9E-06	1.365	0.253	1.016	1.601	3.988	0.570	3.173	4.383
ENSG00000132639	SNAP25	-3.1	2.4E-04	0.00105	1.159	0.961	0.593	2.596	3.131	0.323	2.851	3.416
ENSG00000268756		-3.2	1.2E-08	1.8E-07	5.762	0.389	5.412	6.300	17.527	2.380	16.067	21.045
ENSG00000277862	PRAMEF34P	-3.2	1.9E-10	4.7E-09	3.674	0.448	3.217	4.128	10.430	1.865	8.820	12.231
ENSG00000229978	PRAMEF36P	-3.2	3.2E-10	7.2E-09	3.620	0.635	2.933	4.290	10.308	1.690	8.845	11.846
ENSG00000167995	BEST1	-3.2	3.4E-11	1E-09	0.635	0.098	0.511	0.750	1.941	0.162	1.697	2.028
ENSG00000126368	NR1D1	-3.4	1.1E-13	7.24E-12	8.252	0.328	7.789	8.565	26.913	3.452	24.345	31.647
ENSG00000113369	ARRDC3	-3.5	1.7E-16	3.40E-14	8.254	0.579	7.854	9.114	26.063	0.710	25.022	26.514
ENSG00000144010	TRIM43B	-3.5	3.5E-12	1.46E-10	6.776	1.183	5.882	8.511	21.859	2.419	20.404	25.446
ENSG00000144015	TRIM43	-3.6	1.2E-12	6.09E-11	7.297	1.071	5.925	8.382	23.274	2.683	21.373	27.064
ENSG00000204510	PRAMEF7	-4	2.5E-08	3.5E-07	0.856	0.144	0.704	1.035	2.864	0.628	2.355	3.643
ENSG00000249620		-4.4	3.8E-09	6.4E-08	8.026	2.114	5.659	10.246	33.501	8.153	27.310	44.493
ENSG00000183571	PGPEP1L	-4.4	6.0E-04	0.00232	0.150	0.050	0.094	0.193	0.588	0.421	0.294	1.186
ENSG00000250386		-4.5	5.1E-09	8.2E-08	15.004	3.352	10.765	18.646	59.215	18.192	44.468	81.805
ENSG00000182330	PRAMEF8	-4.6	7.2E-08	8.7E-07	0.664	0.138	0.523	0.852	2.533	0.800	2.100	3.730
ENSG00000268799		-4.7	1.5E-09	2.8E-08	11.016	0.790	10.235	12.026	48.173	13.156	36.991	62.445

ENSG00000116726	PRAMEF12	-4.8	1.3E-09	2.5E-08	0.939	0.118	0.872	1.115	3.898	0.647	3.394	4.749
ENSG00000237693	IRGM	-4.8	7.2E-07	6.6E-06	0.413	0.186	0.270	0.686	2.015	0.210	1.701	2.144
ENSG00000144188	TRIM43CP	-4.9	2.3E-12	1.02E-10	2.346	0.146	2.152	2.499	10.501	0.691	9.906	11.181
ENSG00000283740		-5	4.7E-14	3.63E-12	23.906	0.540	23.236	24.356	106.075	18.013	90.894	126.328
ENSG00000171951	SCG2	-5.1	4.3E-08	5.6E-07	0.499	0.055	0.451	0.573	2.402	0.142	2.250	2.523
ENSG00000269466		-5.2	8.8E-12	3.10E-10	45.028	9.711	34.710	57.162	218.205	24.844	197.802	248.265
ENSG00000204531	POU5F1	-5.2	1.1E-01	0.1814	0.132	0.076	0.027	0.205	0.701	1.113	0.000	2.362
ENSG00000284438		-5.2	3.0E-10	6.8E-09	3.211	0.927	2.440	4.459	15.264	1.291	14.146	16.398
ENSG00000189325	C6orf222	-5.2	4.4E-08	5.7E-07	0.259	0.133	0.123	0.375	1.310	0.138	1.196	1.472
ENSG00000168930	TRIM49	-5.3	3.6E-14	2.89E-12	4.679	0.967	3.462	5.613	22.602	3.013	20.010	25.625
ENSG00000204449	TRIM49C	-5.3	7.2E-15	7.52E-13	2.854	0.128	2.692	3.002	13.557	1.737	12.121	15.625
ENSG00000150244	TRIM48	-5.4	1.6E-10	3.9E-09	1.434	0.305	1.185	1.827	6.710	1.426	5.612	8.606
ENSG00000250782		-5.7	3.6E-14	2.9E-12	13.526	2.439	9.962	15.471	69.314	12.385	58.686	81.978
ENSG00000283776		-5.7	1.8E-13	1.1E-11	10.874	2.888	8.237	14.978	55.437	9.323	48.525	68.250
ENSG00000180532	ZSCAN4	-5.7	9.3E-12	3.3E-10	2.984	0.545	2.587	3.787	14.940	2.600	12.698	17.463
ENSG00000284306		-5.7	6.2E-09	9.8E-08	1.802	0.717	0.980	2.728	9.227	2.293	7.342	11.994
ENSG00000284546		-5.7	9.9E-08	1.2E-06	1.137	0.390	0.804	1.688	6.185	1.287	5.214	7.930
ENSG00000235268	KDM4E	-5.7	9.0E-12	3.2E-10	0.845	0.195	0.605	1.059	4.543	0.309	4.095	4.802
ENSG00000204455	TRIM51BP	-6.1	5.5E-12	2.1E-10	2.234	0.553	1.749	2.930	12.098	2.392	10.301	15.353
ENSG00000157765	SLC34A2	-6.1	4.6E-11	1.3E-09	0.489	0.148	0.335	0.632	2.582	0.551	2.139	3.276
ENSG00000255855	KDM4F	-6.2	2.5E-10	5.9E-09	0.850	0.325	0.574	1.292	4.648	0.841	4.078	5.859
ENSG00000236175	SSU72P6	-6.3	5.0E-10	1.1E-08	1.742	0.309	1.476	2.135	10.032	0.459	9.670	10.626
ENSG00000283873		-6.5	7.1E-11	1.9E-09	2.276	0.517	1.645	2.757	13.044	1.494	11.760	14.556
ENSG00000237706	TRIM51EP	-6.5	6.7E-12	2.4E-10	1.845	0.540	1.331	2.526	10.516	2.211	8.919	13.608
ENSG00000236941		-6.8	1.3E-09	2.5E-08	0.929	0.459	0.573	1.602	5.833	1.162	5.162	7.565
ENSG00000249156		-6.9	1.1E-11	3.7E-10	8.935	0.735	8.384	9.973	56.141	10.221	47.843	68.797
ENSG00000254764	TRIM53CP	-6.9	4.6E-10	9.9E-09	0.965	0.298	0.731	1.395	6.115	1.497	4.438	8.083
ENSG00000284018		-7	1.3E-08	1.9E-07	1.326	0.394	0.948	1.868	8.278	2.652	6.000	10.972
ENSG00000182053	TRIM49B	-7	3.1E-11	9.3E-10	0.932	0.229	0.630	1.150	5.631	1.486	4.577	7.729
ENSG00000225581	TRIM53AP	-7.2	1.9E-11	5.8E-10	1.418	0.241	1.069	1.600	8.813	2.795	6.613	12.440
ENSG00000223417	TRIM49D1	-7.3	6.2E-15	6.6E-13	1.726	0.242	1.538	2.060	11.203	1.769	9.744	13.326
ENSG00000233802	TRIM49D2	-7.4	5.0E-15	5.4E-13	2.227	0.197	2.016	2.473	14.759	2.347	12.844	17.639
ENSG00000166013	TRIM53BP	-7.7	8.3E-12	2.9E-10	0.993	0.259	0.709	1.328	6.755	1.583	5.589	8.940
ENSG00000251258	RFPL4B	-8.3	4.9E-09	8.0E-08	0.559	0.421	0.083	0.938	4.084	0.765	3.443	4.960
ENSG00000189253	TRIM64B	-8.5	5.6E-12	2.1E-10	0.576	0.208	0.427	0.869	4.465	0.582	4.020	5.243
ENSG00000257951		-8.7	3.3E-12	1.4E-10	2.347	0.911	1.389	3.534	18.124	4.011	15.793	24.130
ENSG00000183813	CCR4	-8.8	3.0E-08	4.1E-07	0.120	0.025	0.099	0.151	1.017	0.035	0.964	1.040
ENSG00000204450	TRIM64	-9.8	1.5E-08	2.1E-07	0.179	0.105	0.061	0.311	1.670	0.563	1.201	2.325

ENSG00000256779

-9.9 1.5E-10 3.8E-09 0.484 0.207 0.356 0.792 4.667 0.605 3.902 5.382

downregulated 759

ENSG00000238083
ENSG00000186479
ENSG00000061455
ENSG00000250682
ENSG00000167074
ENSG00000124713
ENSG00000279873
ENSG00000267767
ENSG00000145675
ENSG00000263412
ENSG00000250546
ENSG00000120696
ENSG00000259660
ENSG00000226383
ENSG00000187650
ENSG00000179935
ENSG00000141314
ENSG00000102032
ENSG00000198879
ENSG00000206561
ENSG00000230069
ENSG00000164938
ENSG00000268575
ENSG00000272328
ENSG00000260941
ENSG00000196668
ENSG00000127903
ENSG00000261578
ENSG00000275294
ENSG00000143110
ENSG00000214783
ENSG00000186973
ENSG00000125398
ENSG00000232260
ENSG00000002587
ENSG00000196724
ENSG00000270558

downregulated 620

ENSG00000002587
ENSG00000002745
ENSG00000008300
ENSG00000010030
ENSG00000033122
ENSG00000044524
ENSG00000049130
ENSG00000049246
ENSG00000050628
ENSG00000054598
ENSG00000056487
ENSG00000061455
ENSG00000070731
ENSG00000075223
ENSG00000077092
ENSG00000077522
ENSG00000077684
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ENSG00000104081
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ENSG00000106483
ENSG00000106571
ENSG00000106804
ENSG00000107105
ENSG00000107562
ENSG00000108309
ENSG00000109819
ENSG00000113369

downregulated in 759 & 620

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ENSG00000008300
ENSG00000010030
ENSG00000033122
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ENSG00000106571
ENSG00000106804
ENSG00000107105
ENSG00000107562
ENSG00000108309
ENSG00000109819
ENSG00000113369

All C19MC targets enser C19MC targets & downregulated in both expts

ENSG00000000003
ENSG00000000938
ENSG00000000971
ENSG00000001036
ENSG00000001167
ENSG00000001460
ENSG00000001461
ENSG00000001561
ENSG00000001617
ENSG00000001626
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ENSG00000002919
ENSG00000003056
ENSG00000003096
ENSG00000003137
ENSG00000003147
ENSG00000003249
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ENSG00000003436
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ENSG00000258357	ENSG00000116106	ENSG00000116106	ENSG00000004809	ENSG00000116106
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ENSG00000272195	ENSG00000116991	ENSG00000116991	ENSG00000004897	ENSG00000116991
ENSG00000171522	ENSG00000118922	ENSG00000118922	ENSG00000004948	ENSG00000118922
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ENSG00000215630	ENSG00000120370	ENSG00000120370	ENSG00000004975	ENSG00000120370
ENSG00000174898	ENSG00000122641	ENSG00000122641	ENSG00000005007	ENSG00000122641
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ENSG00000258441	ENSG00000123095	ENSG00000123095	ENSG00000005022	ENSG00000123095
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ENSG00000267546	ENSG00000125398	ENSG00000125398	ENSG00000005108	ENSG00000125398
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ENSG00000256591	ENSG00000128573	ENSG00000128573	ENSG00000005194	ENSG00000128573
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ENSG00000178662	ENSG00000130518	ENSG00000130518	ENSG00000005249	ENSG00000130518
ENSG00000225793	ENSG00000132639	ENSG00000132639	ENSG00000005302	ENSG00000132639
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ENSG00000236028	ENSG00000137573	ENSG00000137573	ENSG00000005810	ENSG00000137573
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ENSG00000162599	ENSG00000139364	ENSG00000139364	ENSG00000005893	ENSG00000139364
ENSG00000115841	ENSG00000139946	ENSG00000139946	ENSG00000005981	ENSG00000139946
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ENSG00000206120	ENSG00000145536	ENSG00000145536	ENSG00000006327	ENSG00000145536
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ENSG00000254165	ENSG00000145687	ENSG00000145687	ENSG00000006432	ENSG00000145687
ENSG00000134138	ENSG00000147606	ENSG00000147606	ENSG00000006451	ENSG00000147606
ENSG00000223891	ENSG00000147852	ENSG00000147852	ENSG00000006453	ENSG00000147852
ENSG00000168743	ENSG00000147862	ENSG00000147862	ENSG00000006459	ENSG00000147862
ENSG00000177606	ENSG00000148541	ENSG00000148541	ENSG00000006468	ENSG00000148541
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ENSG00000166415	ENSG00000150244	ENSG00000150244	ENSG00000006534	ENSG00000150244
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ENSG00000185008	ENSG00000150394	ENSG00000150394	ENSG00000006576	ENSG00000150394
ENSG00000118922	ENSG00000150551	ENSG00000150551	ENSG00000006606	ENSG00000150551
ENSG00000271109	ENSG00000150687	ENSG00000150687	ENSG00000006607	ENSG00000150687
ENSG00000263884	ENSG00000151623	ENSG00000151623	ENSG00000006611	ENSG00000151623
ENSG00000105855	ENSG00000152217	ENSG00000152217	ENSG00000006625	ENSG00000152217
ENSG00000258405	ENSG00000152763	ENSG00000152763	ENSG00000006634	ENSG00000152763
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ENSG00000116574	ENSG00000157765	ENSG00000157765	ENSG00000006695	ENSG00000157765
ENSG00000188295	ENSG00000162599	ENSG00000162599	ENSG00000006747	ENSG00000162599
ENSG00000139946	ENSG00000162814	ENSG00000162814	ENSG00000006756	ENSG00000162814
ENSG00000262454	ENSG00000164463	ENSG00000164463	ENSG00000007001	ENSG00000164463
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ENSG00000258900	ENSG00000164949	ENSG00000164949	ENSG00000007168	ENSG00000164949
ENSG00000176204	ENSG00000165244	ENSG00000165244	ENSG00000007202	ENSG00000165244
ENSG00000279347	ENSG00000165323	ENSG00000165323	ENSG00000007216	ENSG00000165323
ENSG00000180530	ENSG00000165617	ENSG00000165617	ENSG00000007255	ENSG00000165617
ENSG00000261116	ENSG00000165655	ENSG00000165655	ENSG00000007306	ENSG00000165655
ENSG00000188177	ENSG00000166793	ENSG00000166793	ENSG00000007314	ENSG00000166793
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ENSG00000005483	ENSG00000168916	ENSG00000168916	ENSG00000007402	ENSG00000168916
ENSG00000231551	ENSG00000169116	ENSG00000169116	ENSG00000007541	ENSG00000169116
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Overlap Results

Collection(s): H
 # overlaps shown: 10
 # genesets in collections: 50
 # genes in comparison (n): 277
 # genes in universe (N): 45956

Gene Set Name	# Genes in Gen	Description	# Genes in Overlap	k/K	p-value	FDR q-value
HALLMARK_HEDGEHOG_SIGNALING	36	Genes up-regulated by activation of hedgehog signaling.	7	0.1944	1.93E-09	9.63E-08
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	200	Genes defining epithelial-mesenchymal transition as in wound healing, fibrosis and metastasis.	11	0.055	4.44E-08	1.11E-06
HALLMARK_UV_RESPONSE_DN	144	Genes down-regulated in response to ultraviolet (UV) radiation.	8	0.0556	2.92E-06	3.32E-05
HALLMARK_HYPOXIA	200	Genes up-regulated in response to low oxygen levels (hypoxia).	9	0.045	3.98E-06	3.32E-05
HALLMARK_P53_PATHWAY	200	Genes involved in p53 pathways and networks.	9	0.045	3.98E-06	3.32E-05
HALLMARK_TNFA_SIGNALING_VIA_NFKB	200	Genes regulated by NF-kB in response to TNF [GeneID=7124].	9	0.045	3.98E-06	3.32E-05
HALLMARK_ESTROGEN_RESPONSE_LATE	200	Genes defining late response to estrogen.	6	0.03	1.41E-03	8.83E-03
HALLMARK_KRAS_SIGNALING_UP	200	Genes up-regulated by KRAS activation.	6	0.03	1.41E-03	8.83E-03
HALLMARK_ANDROGEN_RESPONSE	101	Genes defining response to androgens.	4	0.0396	3.34E-03	1.85E-02
HALLMARK_MYOGENESIS	200	Genes involved in development of skeletal muscle (myogenesis).	5	0.025	7.51E-03	3.76E-02

Gene/Gene Set Overlap Matrix

Entrez Gene Id	Gene Symbol	Gene Description	HALLMARK_HEDGEHOG_SIGNALING	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	HALLMARK_UV_RESPONSE_DN	HALLMARK_HYPOXIA
7857	SCG2	secretogranin II				
7436	VLDLR	very low density lipoprotein receptor				

8829	NRP1	neuropilin 1	HALLMARK_HEDGEHOG_SIGNALING	HALLMARK_UV_RESPONSE_DN
43	ACHE	acetylcholinesterase	HALLMARK_HEDGEHOG_SIGNALING	
23493	HEY2	hairy/enhancer-of-split related with YRPW motif 2	HALLMARK_HEDGEHOG_SIGNALING	
7088	TLE1	transducin-like enhancer of split 1 (E(sp1) homolog)	HALLMARK_HEDGEHOG_SIGNALING	
8633	UNC5C	unc-5 homolog C (C. elegans)	HALLMARK_HEDGEHOG_SIGNALING	
1281	COL3A1	collagen, type III, alpha 1	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	HALLMARK_UV_RESPONSE_DN
3725	JUN	jun proto-oncogene	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	HALLMARK_HYPERPLASIA
1647	GADD45A	growth arrest and DNA-damage-inducible, alpha	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	
3624	INHBA	inhibin, beta A	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	
2669	GEM	GTP binding protein overexpressed in skeletal muscle	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	
6387	CXCL12	chemokine (C-X-C motif) ligand 12	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	
10409	BASP1	brain abundant, membrane attached signal protein 1	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	
50509	COL5A3	collagen, type V, alpha 3	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	
6424	SFRP4	secreted frizzled-related protein 4	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	
7431	VIM	vimentin	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	
10370	CITED2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	HALLMARK_UV_RESPONSE_DN	HALLMARK_HYPERPLASIA
2908	NR3C1	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	HALLMARK_UV_RESPONSE_DN	HALLMARK_HYPERPLASIA
3488	IGFBP5	insulin-like growth factor binding protein 5	HALLMARK_UV_RESPONSE_DN	
4781	NFIB	nuclear factor I/B	HALLMARK_UV_RESPONSE_DN	
9975	NR1D2	nuclear receptor subfamily 1, group D, member 2	HALLMARK_UV_RESPONSE_DN	
694	BTG1	B-cell translocation gene 1, anti-proliferative		HALLMARK_HYPERPLASIA
5224	PGAM2	phosphoglycerate mutase 2 (muscle)		HALLMARK_HYPERPLASIA
1028	CDKN1C	cyclin-dependent kinase inhibitor 1C (p57, Kip2)		HALLMARK_HYPERPLASIA
10891	PPARGC1A	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha		HALLMARK_HYPERPLASIA
9957	HS3ST1	heparan sulfate (glucosamine) 3-O-sulfotransferase 1		HALLMARK_HYPERPLASIA
10769	PLK2	polo-like kinase 2		
10628	TXNIP	thioredoxin interacting protein		
26471	NUPR1	nuclear protein, transcriptional regulator, 1		
8493	PPM1D	protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1D		
3006	HIST1H1C	histone cluster 1, H1c		
4193	MDM2	Mdm2 p53 binding protein homolog (mouse)		
65986	ZBTB10	zinc finger and BTB domain containing 10		
604	BCL6	B-cell CLL/lymphoma 6		
4082	MARCKS	myristoylated alanine-rich protein kinase C substrate		
11098	PRSS23	protease, serine, 23		
2296	FOXC1	forkhead box C1		
8204	NRIP1	nuclear receptor interacting protein 1		
5733	PTGER3	prostaglandin E receptor 3 (subtype EP3)		

10610	ST6GALNAC2	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 2
6662	SOX9	SRY (sex determining region Y)-box 9
10912	GADD45G	growth arrest and DNA-damage-inducible, gamma
2254	FGF9	fibroblast growth factor 9 (glia-activating factor)
6616	SNAP25	synaptosomal-associated protein, 25kDa
84159	ARID5B	AT rich interactive domain 5B (MRF1-like)
4094	MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)
54407	SLC38A2	solute carrier family 38, member 2
88	ACTN2	actinin, alpha 2
10468	FST	follistatin
90427	BMF	Bcl2 modifying factor
1006	CDH8	cadherin 8, type 2
11096	ADAMTS5	ADAM metallopeptidase with thrombospondin type 1 motif, 5
147	ADRA1B	adrenergic, alpha-1B-, receptor
1233	CCR4	chemokine (C-C motif) receptor 4
6335	SCN9A	sodium channel, voltage-gated, type IX, alpha subunit
3759	KCNJ2	potassium inwardly-rectifying channel, subfamily J, member 2
5099	PCDH7	protocadherin 7
7439	BEST1	bestrophin 1
5334	PLCL1	phospholipase C-like 1
83729	INHBE	inhibin, beta E
1946	EFNA5	ephrin-A5
4211	MEIS1	Meis homeobox 1
4306	NR3C2	nuclear receptor subfamily 3, group C, member 2
6579	SLCO1A2	solute carrier organic anion transporter family, member 1A2
51384	WNT16	wingless-type MMTV integration site family, member 16
727	C5	complement component 5
552900	BOLA2	bolA homolog 2 (E. coli)
10512	SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C
100048912	CDKN2B-AS	CDKN2B antisense RNA (non-protein coding)
100133941	CD24	CD24 molecule
100287082	LOC100287082	uncharacterized LOC100287082
100421577	LOC100421577	family with sequence similarity 21, member A pseudogene
100506421	LOC100506421	uncharacterized LOC100506421
10082	GPC6	glypican 6
10154	PLXNC1	plexin C1
101927282		
101927345		

101927501	 	
101927631	 	
101928371	 	
101928978	 	
101929333	 	
10194	TSHZ1	teashirt zinc finger homeobox 1
102723166		
105	ADARB2	adenosine deaminase, RNA-specific, B2
105371083		
105378763		
10568	SLC34A2	solute carrier family 34 (sodium phosphate), member 2
10900	RUNDC3A	RUN domain containing 3A
11228	RASSF8	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8
11278	KLF12	Kruppel-like factor 12
11281	POU6F2	POU class 6 homeobox 2
112885	PHF21B	PHD finger protein 21B
114795	TMEM132B	transmembrane protein 132B
115111	SLC26A7	solute carrier family 26, member 7
116372	LYPD1	LY6/PLAUR domain containing 1
117583	PARD3B	par-3 partitioning defective 3 homolog B (C. elegans)
120114	FAT3	FAT tumor suppressor homolog 3 (Drosophila)
120146	TRIM64	tripartite motif containing 64
122945	NOXRED1	NADP-dependent oxidoreductase domain containing 1
1270	CNTF	ciliary neurotrophic factor
128153	SPATA17	spermatogenesis associated 17
128312	HIST3H2BB	histone cluster 3, H2bb
128346	C1orf162	chromosome 1 open reading frame 162
129530	LYG1	lysozyme G-like 1
129868	TRIM43	tripartite motif containing 43
136288	C7orf57	chromosome 7 open reading frame 57
143686	SESN3	sestrin 3
147660	ZNF578	zinc finger protein 578
147686	ZNF418	zinc finger protein 418
148523	C1orf51	chromosome 1 open reading frame 51
148709	LOC148709	actin pseudogene
149281	METTL11B	methyltransferase like 11B
153020	RASGEF1B	RasGEF domain family, member 1B
153222	C5orf41	chromosome 5 open reading frame 41

154215	NKAIN2	Na ⁺ /K ⁺ transporting ATPase interacting 2
157489	SDAD1P1	SDA1 domain containing 1 pseudogene 1
157773	C8orf48	chromosome 8 open reading frame 48
158160	HSD17B7P2	hydroxysteroid (17-beta) dehydrogenase 7 pseudogene 2
1602	DACH1	dachshund homolog 1 (Drosophila)
170690	ADAMTS16	ADAM metallopeptidase with thrombospondin type 1 motif, 16
1951	CELSR3	cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, Drosophila)
195828	ZNF367	zinc finger protein 367
1993	ELAVL2	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 2 (Hu antigen B)
201456	FBXO15	F-box protein 15
201516	ZSCAN4	zinc finger and SCAN domain containing 4
201625	DNAH12	dynein, axonemal, heavy chain 12
202333	CMYA5	cardiomyopathy associated 5
2042	EPHA3	EPH receptor A3
2043	EPHA4	EPH receptor A4
2066	ERBB4	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)
219539	YPEL4	yippee-like 4 (Drosophila)
220965	FAM13C	family with sequence similarity 13, member C
23213	SULF1	sulfatase 1
23635	SSBP2	single-stranded DNA binding protein 2
23768	FLRT2	fibronectin leucine rich transmembrane protein 2
254158	CXorf58	chromosome X open reading frame 58
255743	NPNT	nephronectin
255928	SYT14	synaptotagmin XIV
257106	ARHGAP30	Rho GTPase activating protein 30
25788	RAD54B	RAD54 homolog B (S. cerevisiae)
25849	PARM1	prostate androgen-regulated mucin-like protein 1
26040	SETBP1	SET binding protein 1
27086	FOXP1	forkhead box P1
27113	BBC3	BCL2 binding component 3
27145	FILIP1	filamin A interacting protein 1
27233	SULT1C4	sulfotransferase family, cytosolic, 1C, member 4
2737	GLI3	GLI family zinc finger 3
283116	LOC283116	tripartite motif-containing protein LOC642612-like
283131	NEAT1	nuclear paraspeckle assembly transcript 1 (non-protein coding)
285429	DCAF4L1	DDB1 and CUL4 associated factor 4-like 1
286006	C7orf53	chromosome 7 open reading frame 53
3017	HIST1H2BD	histone cluster 1, H2bd

338651	LOC338651	uncharacterized LOC338651
339977	LRRC66	leucine rich repeat containing 66
340267	COL28A1	collagen, type XXVIII, alpha 1
342931	RFPL4A	ret finger protein-like 4A
343472	BARHL2	BarH-like homeobox 2
344148	NCKAP5	NCK-associated protein 5
345611	IRGM	immunity-related GTPase family, M
376940	ZC3H6	zinc finger CCCH-type containing 6
378938	MALAT1	metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)
3791	KDR	kinase insert domain receptor (a type III receptor tyrosine kinase)
387640	C10orf140	chromosome 10 open reading frame 140
387758	FIBIN	fin bud initiation factor homolog (zebrafish)
389384	C6orf222	chromosome 6 open reading frame 222
390245	KDM4DL	lysine (K)-specific demethylase 4D-like
390999	PRAMEF12	PRAME family member 12
391002	PRAMEF8	PRAME family member 8
399726	C10orf114	chromosome 10 open reading frame 114
399939	LOC399939	ring finger protein 18-like
400456	LOC400456	uncharacterized LOC400456
400617	FLJ36644	uncharacterized LOC400617
401024	FSIP2	fibrous sheath interacting protein 2
401093	LOC401093	uncharacterized LOC401093
401190	RGS7BP	regulator of G-protein signaling 7 binding protein
401546	C9orf152	chromosome 9 open reading frame 152
4133	MAP2	microtubule-associated protein 2
4254	KITLG	KIT ligand
4330	MN1	meningioma (disrupted in balanced translocation) 1
440689	HIST2H2BF	histone cluster 2, H2bf
441094	FLJ42709	uncharacterized LOC441094
441307	FLJ44511	uncharacterized LOC441307
441871	PRAMEF7	PRAME family member 7
442247	RFPL4B	ret finger protein-like 4B
4640	MYO1A	myosin IA
4774	NFIA	nuclear factor I/A
4883	NPR3	natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)
4919	ROR1	receptor tyrosine kinase-like orphan receptor 1
5087	PBX1	pre-B-cell leukemia homeobox 1
51339	DACT1	dapper, antagonist of beta-catenin, homolog 1 (Xenopus laevis)

51513	ETV7	ets variant 7
53335	BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)
54055	CYP4F29P	cytochrome P450, family 4, subfamily F, polypeptide 29, pseudogene
54510	PCDH18	protocadherin 18
55089	SLC38A4	solute carrier family 38, member 4
554313	HIST2H4B	histone cluster 2, H4b
55534	MAML3	mastermind-like 3 (Drosophila)
55567	DNAH3	dynein, axonemal, heavy chain 3
55714	ODZ3	odz, odd Oz/ten-m homolog 3 (Drosophila)
55799	CACNA2D3	calcium channel, voltage-dependent, alpha 2/delta subunit 3
56100	PCDHGB6	protocadherin gamma subfamily B, 6
56106	PCDHGA10	protocadherin gamma subfamily A, 10
56139	PCDHA10	protocadherin alpha 10
57091	CASS4	Cas scaffolding protein family member 4
57093	TRIM49	tripartite motif containing 49
57161	PELI2	pellino homolog 2 (Drosophila)
57507	ZNF608	zinc finger protein 608
57554	LRRC7	leucine rich repeat containing 7
57556	SEMA6A	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A
57561	ARRDC3	arrestin domain containing 3
57568	SIPA1L2	signal-induced proliferation-associated 1 like 2
57687	VAT1L	vesicle amine transport protein 1 homolog (T. californica)-like
58480	RHOU	ras homolog gene family, member U
5915	RARB	retinoic acid receptor, beta
5973	RENBP	renin binding protein
64093	SMOC1	SPARC related modular calcium binding 1
642446	TRIM64B	tripartite motif containing 64B
642612	TRIM49L2	tripartite motif containing 49-like 2
64288	ZNF323	zinc finger protein 323
643180	CCT6P3	chaperonin containing TCP1, subunit 6 (zeta) pseudogene 3
643401	LOC643401	uncharacterized LOC643401
644192	LOC644192	uncharacterized LOC644192
64800	EFCAB6	EF-hand calcium binding domain 6
653	BMP5	bone morphogenetic protein 5
653192	TRIM43B	tripartite motif containing 43B
6657	SOX2	SRY (sex determining region Y)-box 2
6659	SOX4	SRY (sex determining region Y)-box 4
6660	SOX5	SRY (sex determining region Y)-box 5

6664	SOX11	SRY (sex determining region Y)-box 11
7025	NR2F1	nuclear receptor subfamily 2, group F, member 1
729384	TRIM49L1	tripartite motif containing 49-like 1
729974	LOC729974	ret finger protein-like 4A-like
7738	ZNF184	zinc finger protein 184
79097	TRIM48	tripartite motif containing 48
79365	BHLHE41	basic helix-loop-helix family, member e41
79633	FAT4	FAT tumor suppressor homolog 4 (Drosophila)
79667	FLJ13197	uncharacterized FLJ13197
79718	TBL1XR1	transducin (beta)-like 1 X-linked receptor 1
79819	WDR78	WD repeat domain 78
79960	PHF17	PHD finger protein 17
79992	AGPAT4-IT1	AGPAT4 intronic transcript 1 (non-protein coding)
80319	CXXC4	CXXC finger protein 4
80345	ZSCAN16	zinc finger and SCAN domain containing 16
80726	KIAA1683	KIAA1683
80816	ASXL3	additional sex combs like 3 (Drosophila)
81575	APOLD1	apolipoprotein L domain containing 1
8334	HIST1H2AC	histone cluster 1, H2ac
8339	HIST1H2BG	histone cluster 1, H2bg
8341	HIST1H2BN	histone cluster 1, H2bn
8344	HIST1H2BE	histone cluster 1, H2be
8347	HIST1H2BC	histone cluster 1, H2bc
83478	ARHGAP24	Rho GTPase activating protein 24
8365	HIST1H4H	histone cluster 1, H4h
8367	HIST1H4E	histone cluster 1, H4e
8370	HIST2H4A	histone cluster 2, H4a
83992	CTTNBP2	cortactin binding protein 2
84206	MEX3B	mex-3 homolog B (C. elegans)
8462	KLF11	Kruppel-like factor 11
84665	MYPN	myopalladin
84858	ZNF503	zinc finger protein 503
84989	LOC84989	uncharacterized LOC84989
860	RUNX2	runt-related transcription factor 2
862	RUNX1T1	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)
8632	DNAH17	dynein, axonemal, heavy chain 17
8739	HRK	harakiri, BCL2 interacting protein (contains only BH3 domain)
8863	PER3	period homolog 3 (Drosophila)

8969	HIST1H2AG	histone cluster 1, H2ag
8970	HIST1H2BJ	histone cluster 1, H2bj
92344	GORAB	golgin, RAB6-interacting
9315	C5orf13	chromosome 5 open reading frame 13
93166	PRDM6	PR domain containing 6
93986	FOXP2	forkhead box P2
9515	STXBP5L	syntaxin binding protein 5-like
9572	NR1D1	nuclear receptor subfamily 1, group D, member 1
9839	ZEB2	zinc finger E-box binding homeobox 2

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HALLMARK_MYOGENESIS

HALLMARK_P53: HALLMARK_TNFA_SIGNALING_VIA_NFKB

HALLMARK_P53: HALLMARK_TNFA_SIGNALING_VIA_NFKB

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HALLMARK_P53: HALLMARK_TNFA_SIGNALING_VIA_NFKB

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