

Identification of neuron-related genes for cell therapy of neurological disorders by network analysis

Table S1 Information of differentially expressed genes between neurons and BMSCs

Genes (Up-regulated)

Transcript Cluster ID	neurons Bi-weight Avg Signal (log2)	BMSCs Bi-weight Avg Signal (log2)	Fold Change	P -value	FDR	Gene Symbol	Chromosome
10791552	12.8	5.09	209.73	0.000002	0.000161	Gpm6a	chr16
10862698	12.45	5.02	171.87	0.000002	0.000176	Neurod6	chr4
10866576	11.92	4.57	162.18	1.47E-07	0.000075	Lmo3	chr4
10932746	12.8	5.74	132.92	1.74E-07	0.00008	Dcx	chrX
10822358	12.41	5.39	129.96	3.64E-09	0.000021	Stmn2	chr2
10894814	11.71	4.76	123.6	1.76E-07	0.00008	Anks1b	chr7
10889007	12.27	5.38	119.03	0.000001	0.000149	Dpysl5	chr6
10845628	11.85	5.01	114.37	0.000001	0.000153	Tbr1	chr3
10794824	13.11	6.32	110.67	2.86E-07	0.000096	Tubb2b	chr17
10918738	11.05	4.4	100.72	0.000002	0.000181	Scg3	chr8
10742160	11.6	4.97	99.33	8.38E-07	0.000128	Gabrg2	chr10
10803577	11.66	5.11	93.69	0.000001	0.000153	Syt4	chr18
10915708	11.76	5.22	93.25	5.44E-08	0.00006	Elavl3	chr8
10865321	11.9	5.4	90.4	0.000002	0.000181	Rimklb	chr4
10741804	12.79	6.29	90.31	6.51E-07	0.000121	Nsg2	chr10
10898119	11.86	5.37	89.72	0.000109	0.001227	3-Sep	chr7
10777378	12.86	6.38	89.4	1.60E-09	0.000021	Crmp1	chr14
10821243	11.39	4.94	87.72	0.000002	0.000175	Rab3c	chr2
10917486	11.12	4.68	87.26	0.000001	0.000153	Elmod1	chr8
10867020	12.13	5.69	87.12	0.000002	0.000159	Rimklb	chr4
10884478	11.72	5.33	83.62	0.000025	0.000545	Foxg1	chr6
10869002	11.36	4.98	83.33	0.000003	0.000197	Lppr1	chr5
10788175	11.73	5.41	79.79	0.000125	0.001324	Stox2	chr16
10741756	13.2	6.99	74.41	1.12E-07	0.000069	Hba2	chr10
10890522	13.07	6.87	73.47	0.000002	0.000171	Rtn1	chr6
10906546	11.7	5.51	73.26	5.27E-08	0.00006	Nell2	chr7
10935038	10.2	4.02	72.6	0.000018	0.000463	Bex4	chrU
10861835	11.14	4.98	71.55	0.000015	0.000421	Ptn	chr4
10805767	10.79	4.64	71.24	9.82E-10	0.000021	Cdh8	chr19
10731235	10.96	4.85	69.08	7.68E-09	0.000026	RGD1305733	chr10
10824091	11.39	5.28	68.89	8.54E-07	0.000128	Dclk2	chr2
10772128	11.27	5.2	67.5	3.79E-09	0.000021	Epha5	chr14
10736119	11.69	5.63	66.39	0.000002	0.000188	Sez6	chr10
10878712	10.65	4.61	66.03	7.36E-07	0.000125	Elavl4	chr5
10878016	11.11	5.09	65.11	0.002865	0.011547	Elavl2	chr5
10751945	12.07	6.06	64.36	0.000002	0.000159	Sst	chr11
10868186	10.97	4.97	63.84	0.000116	0.001269	Cnr1	chr5
10853963	11.07	5.07	63.83	0.00109	0.005737	Ptprz1	chr4
10733723	10.91	4.94	62.85	8.19E-07	0.000127	Gria1	chr10
10756597	11.41	5.44	62.77	6.70E-07	0.000121	Tmem130	chr12
10707725	10.7	4.73	62.73	0.000131	0.001362	Apba2	chr1
10930711	10.55	4.58	62.69	6.16E-07	0.000121	St6gal2	chr9
10840245	11.17	5.23	61.44	8.97E-07	0.00013	Snap25	chr3
10896948	12.1	6.17	60.89	3.44E-07	0.000105	Khdrbs3	chr7
10779390	10.35	4.48	58.43	0.000025	0.000545	Cadps	chrU
10787630	11.33	5.46	58.33	0.000001	0.000156	Ncan	chr16
10751218	11.58	5.72	58.27	0.000001	0.000151	Gap43	chr11
10830624	12.23	6.41	56.5	0.000429	0.002955	Cd24	chr20
10876551	11.66	5.85	56.18	8.91E-08	0.000068	Igfbp1l	chr5
10902232	11.07	5.29	54.93	0.000006	0.000264	Syt1	chr7
10923866	10.49	4.72	54.66	0.000005	0.000257	Zdbf2	chr9
10939405	9.74	3.99	53.8	9.04E-07	0.00013	Bex2	chrX
10874911	9.72	4.01	52.33	6.25E-07	0.000121	Gdap1	chr5
10863378	11.44	5.76	51.5	0.000008	0.00032	Ctnna2	chr4
10764918	10.76	5.07	51.47	2.81E-07	0.000096	Astn1	chr13
10732824	10.41	4.74	50.84	0.000002	0.000173	Gabrb2	chr10
10715146	9.4	3.75	50.23	0.000001	0.000151	Lgi1	chr1
10741778	12.94	7.3	50.03	2.33E-08	0.000048	Hba2	chr10
10850208	10.26	4.64	49.05	1.32E-07	0.000071	Pak7	chr3
10736675	11.67	6.07	48.42	2.40E-07	0.00009	Cdk5r1	chr10
10764495	10.64	5.04	48.28	0.000001	0.000149	B3galt2	chr13
10870429	10.82	5.25	47.4	1.33E-07	0.000071	Dab1	chr5
10795482	10.74	5.18	47.03	0.000002	0.000171	Hecw1	chr17
10894812	12	6.46	46.63	1.85E-07	0.000082	Anks1b	chr7
10814073	11.3	5.76	46.41	5.11E-07	0.000115	Ctnnd2	chr2
10820221	8.42	2.89	45.97	0.000035	0.000641	Mir9-2	chr2
10719728	11.35	5.84	45.71	0.000812	0.004662	Atp1a3	chr1
10865790	10.02	4.5	45.66	0.000028	0.000573	Prmt8	chr4
10718664	10.72	5.21	45.51	6.18E-08	0.00006	Usp29	chr1
10708618	10.48	5	44.61	0.000005	0.000252	Dlg2	chr1
10718566	11.23	5.77	44.3	6.37E-08	0.00006	Cacng7	chr1
10707582	10.85	5.38	44.25	0.000002	0.000188	Gabrb3	chr1
10771267	10.49	5.03	44.08	9.63E-08	0.000069	Mapk10	chr14
10830223	11.01	5.55	44.01	2.56E-07	0.000091	Fabp7	chr20
10792843	10.61	5.16	43.92	0.000065	0.000912	Mcf2l	chr16
10884001	10.82	5.38	43.4	0.000001	0.000152	Myt1l	chr6
10781197	10.95	5.51	43.4	0.000003	0.000199	Stmn4	chr15
10796751	10.35	4.91	43.31	0.000001	0.000153	Gad2	chr17
10861124	10.93	5.51	42.81	0.000026	0.000549	Gpr85	chr4
10770070	10.93	5.53	42.25	1.13E-07	0.000069	Cadm3	chr13
10804225	10.82	5.43	41.92	0.000004	0.000215	Ppp2r2b	chr18
10940195	11.1	5.71	41.88	0.000006	0.000273	L1cam	chr1
10913066	10.67	5.28	41.73	1.12E-07	0.000069	Camkv	chr8
10813839	10.1	4.72	41.63	6.04E-07	0.000121	Cdh10	chr2

10808702	13.06	7.7	41.19	3.05E-07	0.000099	Tubb3	chr19
10802222	10.4	5.08	39.93	0.000011	0.000355	St8sia3	chr18
10892109	11.68	6.38	39.6	0.000028	0.000566	Bcl11b	chr6
10785782	10.58	5.27	39.58	0.000002	0.000159	Slitrk1	chr15
10757357	10.95	5.65	39.37	0.000008	0.000309	Actl6b	chr12
10937103	11.21	5.91	39.22	0.000003	0.000198	Syp	chrX
10898196	11.32	6.03	39.18	0.000002	0.00018	Mpped1	chr7
10860535	10.74	5.46	39.1	0.000003	0.0002	Rundc3b	chr4
10855727	10.47	5.22	38.23	0.000002	0.000191	Adcyap1r1	chr4
10898809	10.1	4.85	38.11	2.78E-08	0.000048	Cntn1	chr7
10805132	10.73	5.49	37.67	1.97E-07	0.000083	Dcc	chr18
10815974	9.99	4.76	37.4	0.000009	0.000329	Fstl5	chr2
10845809	9.6	4.38	37.2	0.00002	0.000483	Scn3a	chr3
10738744	11.61	6.4	37.11	0.000004	0.000227	Mapt	chr10
10804261	9.91	4.75	35.78	5.33E-07	0.000117	Jakmip2	chr18
10779423	11.13	5.98	35.61	0.000001	0.000149	Fezf2	chr15
10920002	10.14	4.99	35.47	0.000105	0.001198	Dock3	chr8
10781927	10.18	5.05	35.09	0.000006	0.000268	Slain1	chr15
10722347	10.02	4.91	34.54	7.54E-07	0.000125	Gabra5	chr1
10909328	9.76	4.66	34.27	7.84E-07	0.000127	Scn3b	chr8
10731108	10.69	5.6	34.09	0.00107	0.005657	RGD1311558	chr1
10794967	12.83	7.74	34.05	0.000167	0.001585	Sox4	chr17
10861678	11.5	6.42	34.01	0.000103	0.001184	Plxna4a	chr4
10845798	9.99	4.9	33.99	0.00001	0.00035	Scn3a	chr3
10830164	10.86	5.77	33.97	2.72E-08	0.000048	Slc35f1	chr20
10772534	10.22	5.15	33.73	0.001261	0.00637	Gabra2	chr14
10857931	10.54	5.47	33.7	2.33E-07	0.00009	Slc6a1	chr4
10940090	9.84	4.78	33.46	7.15E-07	0.000124	Gabra3	chr1
10902970	11.26	6.2	33.38	5.02E-07	0.000115	Kif5a	chr7
10797032	10.74	5.7	32.88	0.003102	0.012254	Dapk1	chr17
10921274	9.85	4.81	32.84	8.48E-08	0.000067	Satb1	chr9
10930790	10.75	5.72	32.83	0.000035	0.000635	Slc25a23	chr9
10866443	9.87	4.85	32.47	0.000007	0.000292	Grin2b	chr4
10929482	12	6.98	32.43	6.64E-07	0.000121	Dner	chr9
10794609	10.43	5.41	32.31	1.64E-07	0.000078	Elov12	chr17
10855506	10.79	5.79	32.01	0.000022	0.000512	Npy	chr4
10870269	10.96	5.96	31.89	0.002387	0.010077	Dnajc6	chr5
10814396	10.17	5.19	31.52	0.000001	0.000156	Bhlhe22	chr2
10894465	10.6	5.63	31.16	0.000009	0.000323	Syn3	chr7
10924015	12.26	7.29	31.15	2.52E-07	0.00009	Map2	chr9
10884430	10.95	5.99	31.13	0.005498	0.018707	Nrcam	chr6
10793909	10.12	5.17	30.92	9.34E-08	0.000069	Spock1	chrU
10774605	9.57	4.62	30.91	0.000041	0.000687	Bcl11a	chr14
10933393	9.51	4.57	30.58	0.000001	0.000149	Glra2	chrX
10909022	11.01	6.08	30.55	8.17E-07	0.000127	Fez1	chr8
10895803	10.64	5.71	30.55	0.000013	0.000386	Agap2	chr7
10815200	10.64	5.71	30.54	0.000005	0.000257	Pcdh10	chr2
10836734	10.21	5.29	30.44	0.000002	0.000182	Gad1	chr3
10854685	10.09	5.17	30.26	0.000007	0.000292	Tmem178b	chr4
10774596	11.37	6.45	30.17	0.000035	0.000633	Bcl11a	chr14
10760895	11.27	6.37	29.95	0.000019	0.000471	Gpc2	chr12
10889777	9.18	4.28	29.8	0.000017	0.000447	Nova1	chr6
10927125	9.48	4.59	29.66	2.07E-08	0.000048	Bai3	chr9
10736397	10.07	5.18	29.64	0.000125	0.001324	Rab11fip4	chr10
10742254	11.27	6.38	29.63	0.001159	0.00599	Cyfip2	chr10
10939919	10.29	5.41	29.46	0.000003	0.000201	Fgf13	chrX
10871939	10.07	5.19	29.36	5.15E-07	0.000115	Grik3	chr5
10849156	10.58	5.71	29.23	0.000029	0.000584	Frmd5	chr3
10752679	10.1	5.23	29.07	0.000008	0.000313	Cadm2	chr11
10912425	10.59	5.73	29.04	0.000017	0.000452	Clstn2	chr8
10776437	9.59	4.73	28.91	0.000034	0.000627	Kit	chr14
10769016	10.67	5.83	28.6	2.22E-07	0.000088	Ralgps2	chr13
10796234	12.05	7.23	28.38	0.001421	0.006933	Celf2	chr17
10895272	10.51	5.68	28.36	0.000002	0.000181	Ppfia2	chr7
10760457	10.41	5.6	28.15	0.000005	0.000252	Slc29a4	chr12
10818649	9.92	5.11	28.08	0.000025	0.000545	Lppr5	chr2
10894808	9.62	4.82	27.94	4.68E-09	0.000022	Anks1b	chrU
10841637	13.2	8.41	27.8	0.000004	0.00022	Nnat	chr3
10836841	10.01	5.22	27.7	3.15E-07	0.0001	Dlx1	chr3
10830285	12.08	7.29	27.65	0.000006	0.000273	Tspyl4	chr20
10797089	10.76	5.99	27.27	8.20E-07	0.000127	Ntrk2	chr17
10703414	9.52	4.75	27.2	0.000014	0.000417	Lix1	chr1
10889759	10.11	5.35	27.07	0.000002	0.000176	Lrrn3	chr6
10935031	8.71	3.95	26.95	0.000009	0.000335	MGC109340	chrX
10902696	9.62	4.89	26.66	0.000002	0.000188	Tbc1d30	chr7
10886816	11.82	7.1	26.49	0.000041	0.00069	RGD1566401	chr6
10846685	9.35	4.63	26.43	2.86E-07	0.000096	Neurod1	chr3
10712427	10.56	5.83	26.41	8.95E-07	0.00013	Brsk2	chr1
10819880	10.83	6.11	26.38	0.000007	0.00028	Negr1	chr2
10888368	11	6.28	26.33	0.000004	0.000232	Nrxn1	chrU
10762910	11.23	6.52	26.19	1.24E-07	0.00007	Mn1	chr12
10889093	10.75	6.05	26.08	0.000016	0.000432	Efr3b	chr6
10767605	10.79	6.1	25.93	0.000002	0.000166	Cntn2	chr13
10932677	10.4	5.71	25.9	3.59E-07	0.000108	Lrch2	chrX
10823920	10.03	5.34	25.86	0.00003	0.000596	Gucyl1a3	chr2
10710965	10.42	5.73	25.67	0.000005	0.000242	Sez6l2	chr1
10848287	9.85	5.18	25.54	0.000002	0.000181	Scg5	chr3
10898606	10.41	5.73	25.51	0.00001	0.000337	Mapk8ip2	chr7
10893999	11.14	6.47	25.36	8.32E-07	0.000127	Lppr3	chr7
10836271	9.56	4.91	24.95	0.000008	0.000315	Kcnj3	chr3
10846143	10.54	5.9	24.91	2.72E-08	0.000048	Dlx2	chr3

10795291	11.93	7.29	24.89	0.00008	0.001026	Hist1h1b	chr17
10908694	11.19	6.56	24.79	0.000009	0.000334	B3gat1	chr8
10919590	10	5.37	24.74	6.23E-07	0.000121	Ephb1	chr8
10746896	9.93	5.3	24.74	0.000004	0.000231	Neurod2	chr10
10859342	10.43	5.81	24.64	0.001257	0.006355	Ptpro	chr4
10929211	11.07	6.45	24.63	0.000105	0.0012	Epha4	chr9
10766835	11.86	7.25	24.48	0.000025	0.000546	Plxna2	chr13
10940186	10.55	5.94	24.32	0.000007	0.000276	Pdzd4	chr1
10723253	9.49	4.9	24.09	0.000014	0.000417	Ap3b2	chr1
10886212	9.68	5.09	24.02	6.56E-08	0.00006	Nrxn3	chr6
10938849	10.44	5.86	23.9	0.001297	0.006494	RGD1561931	chrX
10908751	10.73	6.16	23.74	0.000003	0.000211	Opcml	chr8
10833910	9.61	5.05	23.66	0.000007	0.000276	Grik2	chr20
10712889	11.07	6.51	23.6	4.26E-07	0.000112	Sptbn2	chr1
10815962	10.26	5.71	23.47	2.96E-07	0.000097	Serpini1	chr2
10820126	10.24	5.68	23.45	0.000029	0.000576	Nr2f1	chr2
10710842	10.08	5.53	23.35	0.000003	0.000213	Sbk1	chr1
10894823	9.62	5.09	23.13	0.000003	0.000209	Anks1b	chr7
10836515	10.59	6.06	23.05	0.000021	0.000504	B3galt1	chr3
10803037	9.41	4.89	23.01	0.000024	0.000536	Neto1	chr18
10891520	9.98	5.46	22.95	0.000026	0.000549	Kcnk10	chr6
10838670	9.98	5.46	22.89	0.000009	0.000334	Pak6	chr3
10750002	9.16	4.65	22.74	0.000041	0.000688	Ncam2	chr11
10788170	10.74	6.24	22.69	0.000236	0.00197	Stox2	chr16
10856928	10.93	6.43	22.63	0.000016	0.000443	Add2	chr4
10772582	10.27	5.78	22.58	0.00013	0.001357	Atp8a1	chr14
10856472	10.47	5.97	22.56	4.16E-07	0.000112	LRRTM1	chr4
10890210	9.12	4.64	22.29	0.000001	0.000153	Mdga2	chr6
10856296	10.79	6.31	22.28	0.000282	0.002223	Reep1	chr4
10930539	9.55	5.08	22.25	0.000005	0.000253	Adcyap1	chr9
10929937	11.78	7.31	22.25	0.000008	0.000315	Kif1a	chr9
10759129	10.84	6.36	22.2	0.000005	0.000252	Svop	chr12
10812390	9.39	4.93	22.09	0.000489	0.003254	Edil3	chr2
10836490	11.11	6.67	21.76	0.000016	0.000443	Csrnp3	chr3
10932652	10.62	6.18	21.68	0.000003	0.000198	Lrch2	chrX
10838081	9.61	5.17	21.65	0.000002	0.000189	Lrrc4c	chr3
10868000	10.3	5.87	21.52	0.000072	0.000967	RGD1562865	chr5
10852437	10.2	5.78	21.4	0.000004	0.000229	Kcnq2	chr3
10745238	9.87	5.45	21.29	0.000061	0.000875	Sarm1	chr10
10770702	10.61	6.2	21.25	1.07E-07	0.000069	Vash2	chr13
10936360	9.49	5.08	21.21	5.75E-07	0.000121	Zcchc12	chrX
10877573	9.96	5.56	21.07	0.00001	0.000337	Brinp1	chr5
10813249	8.71	4.32	20.98	0.000126	0.001332	Plcx3	chr2
10766037	12.1	7.71	20.84	0.000034	0.000633	Zfp238	chr13
10927588	11.26	6.88	20.79	0.000004	0.000228	Lonrf2	chr9
10712174	10.02	5.65	20.76	8.24E-07	0.000127	B4galnt4	chr1
10861662	9.63	5.26	20.74	0.000004	0.000231	Podxl	chr4
10733938	11.5	7.14	20.59	0.000005	0.000239	Hist3h2ba	chr10
10842695	10.17	5.81	20.56	0.000009	0.000335	Phactr3	chr3
10913272	10.33	5.98	20.48	0.000011	0.000359	Celsr3	chr8
10867225	9.46	5.1	20.45	0.000017	0.000456	Slco5a1	chr5
10748459	10.74	6.41	20.23	0.000003	0.000192	Cacng4	chr10
10763933	10.34	6	20.21	0.00005	0.000763	Lrrn2	chr13
10773247	12.65	8.32	20.17	0.000123	0.001319	Nsg1	chr14
10740567	10.48	6.15	20.07	0.000005	0.000257	Rbfox1	chr10
10776361	10.3	5.97	20.07	0.000006	0.000263	RGD1311575	chr14
10814628	11.59	7.27	20.07	0.000015	0.00043	Tnik	chr2
10890780	11.04	6.72	19.98	0.001424	0.00694	Tmem229b	chr6
10855934	9.55	5.24	19.96	2.07E-08	0.000048	Ccser1	chr4
10824017	11.49	7.18	19.94	4.82E-07	0.000115	Trim3	chr2
10774120	10.28	5.97	19.84	0.000003	0.000211	Adcy1	chr14
10794143	10.95	6.64	19.81	0.000007	0.000282	Gprin1	chr17
10862795	9.51	5.2	19.81	0.000067	0.000921	Nap115	chr4
10853614	9.4	5.1	19.71	0.000033	0.000624	Ppp1r9a	chr4
10730206	10.09	5.79	19.59	0.000004	0.000233	Slit1	chr1
10904161	10.86	6.58	19.51	0.000335	0.002494	Sla	chr7
10835958	10.09	5.81	19.48	0.000048	0.000752	Lhx2	chr3
10852531	10.53	6.25	19.43	0.000004	0.000217	Stmn3	chr3
10729072	9.68	5.4	19.4	0.000009	0.000324	Tle4	chr1
10818573	9.08	4.81	19.32	9.08E-07	0.00013	Olfm3	chr2
10853905	9.42	5.15	19.3	5.04E-07	0.000115	Kcnd2	chr4
10810817	10.27	6	19.25	0.000048	0.000752	Smpd3	chr19
10803474	9.42	5.15	19.24	2.17E-07	0.000088	Nol4	chr18
10884811	8.13	3.88	19.13	6.90E-08	0.00006	Lrfin5	chr6
10857541	10.28	6.03	19.13	0.00035	0.002573	Lrrn1	chr4
10707649	11.91	7.66	19.01	0.000003	0.000196	Ndn	chr1
10937601	9.23	4.98	18.98	0.000355	0.002598	Shroom2	chrX
10853719	9.88	5.64	18.91	0.000014	0.000406	Nxph1	chr4
10935353	9.98	5.75	18.8	0.000026	0.000552	Rab33a	chrX
10900518	11.2	6.98	18.61	0.000377	0.002709	Apc2	chr7
10881576	9.84	5.62	18.6	0.000008	0.000306	Draxin	chr5
10913620	9.39	5.17	18.55	0.000012	0.000384	Cspg5	chr8
10853267	9.4	5.21	18.23	0.000009	0.000324	Grm3	chr4
10704573	9.28	5.1	18.13	0.000031	0.000611	Pnmall	chr1
10788668	10.01	5.83	18.11	6.43E-07	0.000121	Unc5d	chr16
10801520	8.89	4.72	18.03	0.000003	0.000201	Kcnn2	chr18
10713419	10.34	6.18	17.86	4.14E-07	0.000112	Nrxn2	chr1
10801719	8.86	4.7	17.83	0.000029	0.000582	Sncaip	chr18
10715900	11.23	7.08	17.73	0.000004	0.000231	Ina	chr1
10920600	9.26	5.12	17.7	0.000006	0.000265	Arpp21	chr8
10934888	8.87	4.72	17.67	0.00002	0.000484	Tmem35	chrX

10859886	9.17	5.03	17.6	0.000001	0.000142	Dpp6	chr4
10742072	9.85	5.72	17.54	0.000002	0.000183	Tenm2	chr10
10909953	9.55	5.42	17.52	0.000018	0.000458	Arhgap20	chr8
10904118	9.8	5.67	17.46	0.000004	0.000232	Kcnq3	chr7
10867587	9.96	5.85	17.35	0.000004	0.000215	Clvs1	chr5
10704571	10.21	6.1	17.24	0.000004	0.000215	Pnmal2	chr1
10729256	9.6	5.49	17.17	0.000001	0.000151	Rorb	chr1
10894821	9.77	5.67	17.14	0.000063	0.000893	Anks1b	chr7
10790605	9.44	5.34	17.12	0.000019	0.000468	Nrg3	chrU
10724319	9.59	5.49	17.08	0.000385	0.002743	Hbb-b1	chr1
10929263	8.96	4.87	17.06	7.31E-07	0.000124	Scg2	chr9
10800973	9.74	5.65	16.98	0.000002	0.000159	Psd2	chr18
10801821	11.13	7.05	16.95	0.000138	0.001411	Lmnbl	chr18
10764947	9.2	5.12	16.92	6.77E-07	0.000121	Tnr	chr13
10935036	10	5.93	16.88	0.000005	0.000242	MGC109340	chrX
10809428	12.26	8.19	16.78	9.67E-07	0.000136	Gnao1	chr19
10781745	9.4	5.34	16.69	0.000002	0.000183	Pcdh17	chr15
10894806	9.97	5.91	16.63	0.000002	0.000176	Anks1b	chr7
10810964	8.52	4.48	16.52	7.42E-07	0.000125	Calb2	chr19
10889675	11.61	7.57	16.51	0.004894	0.01717	Tspan13	chr6
10931017	10.07	6.03	16.46	0.000016	0.000434	Sema6b	chr9
10742031	10.51	6.47	16.42	0.000001	0.000153	Fbll1	chr10
10759641	10.23	6.19	16.41	0.000015	0.000421	Camsap3	chr12
10719754	10.42	6.39	16.37	1.57E-07	0.000077	Grik5	chr1
10771492	9.48	5.45	16.35	0.000076	0.000994	Rasgef1b	chr14
10914643	9.22	5.19	16.34	1.52E-07	0.000076	Gria4	chr8
10751048	10.06	6.04	16.25	0.000007	0.00028	Tagln3	chr11
10817344	9.96	5.95	16.18	0.000024	0.000532	Sema6c	chr2
10843100	9.73	5.72	16.14	0.000001	0.000142	Myt1	chr3
10918728	11.42	7.4	16.13	0.000094	0.001122	Tmod2	chr8
10773255	9.78	5.77	16.09	0.000002	0.000189	Stk32b	chr14
10845372	10.27	6.27	16.02	0.000001	0.000156	Rprm	chr3
10890208	8.6	4.6	15.98	2.51E-07	0.00009	Mdga2	chr6
10885769	8.92	4.92	15.94	0.000001	0.000151	Rgs6	chr6
10919118	10.89	6.92	15.72	0.000002	0.000174	Snap91	chr8
10720612	10.09	6.12	15.64	0.000011	0.000352	Arhgap33	chr1
10827547	8.66	4.7	15.61	6.08E-08	0.00006	Lrrc7	chr2
10886509	10.16	6.2	15.54	2.21E-07	0.000088	Unc79	chr6
10829738	10.18	6.23	15.51	0.000005	0.000247	Phyhip1	chr20
10784809	9.37	5.42	15.41	0.000004	0.000232	Nefm	chr15
10843400	9.34	5.4	15.37	2.41E-07	0.00009	Grin1	chr3
10764736	10.65	6.71	15.33	0.000117	0.001278	Nmnat2	chr13
10778268	10.64	6.71	15.31	0.000022	0.00051	Camk2b	chr14
10822305	8.53	4.6	15.3	0.000009	0.000329	Raly1	chrU
10897006	10.26	6.33	15.26	4.29E-07	0.000112	Bai1	chr7
10734673	10.14	6.21	15.25	0.003695	0.013967	Gas7	chr10
10812656	9.64	5.71	15.24	0.000003	0.000194	Fam169a	chr2
10770976	9.88	5.97	15.1	0.000015	0.000421	Cplx1	chr14
10767631	9.51	5.61	14.98	0.00001	0.00035	Nfasc	chr13
10711928	9.69	5.79	14.96	7.64E-07	0.000125	Dpysl4	chr1
10882126	10.57	6.66	14.94	0.000077	0.001003	Prkcz	chr5
10841774	9.67	5.78	14.89	0.000054	0.000807	Slc32a1	chr3
10776264	10.76	6.86	14.85	8.56E-07	0.000128	Lphn3	chrU
10871706	10.27	6.38	14.85	0.00001	0.000338	Mycl	chr5
10787021	9.17	5.28	14.8	0.000002	0.000159	Grid1	chr16
10789819	9.32	5.43	14.8	0.000032	0.000616	Cacna2d3	chr16
10839327	9.49	5.61	14.8	0.000124	0.001319	Sema6d	chr3
10761299	10.23	6.34	14.79	0.000061	0.000871	Auts2	chr12
10919300	9.54	5.66	14.74	8.70E-07	0.000128	Zic1	chr8
10909639	10.74	6.87	14.68	0.000093	0.001119	Fxyd6	chr8
10836458	9.53	5.67	14.58	0.00006	0.000865	Scn2a1	chr3
10785461	10.08	6.22	14.57	0.00001	0.000338	Pcdh8	chr15
10904603	10.08	6.22	14.52	0.000026	0.000546	Ly6h	chr7
10842001	10	6.14	14.5	0.000003	0.000208	Gdap111	chr3
10705758	10.59	6.73	14.49	0.000007	0.000285	Dpfl	chr1
10870369	9.97	6.12	14.44	0.000817	0.004675	Sgip1	chr5
10814594	11.31	7.47	14.37	0.000006	0.000263	Tnik	chr2
10933259	9.62	5.78	14.37	0.000083	0.001054	Clcn4	chrX
10729525	10.08	6.23	14.36	0.000036	0.000642	Rfx3	chr1
10724542	10.13	6.29	14.33	0.0008	0.004618	Dchs1	chr1
10786382	8.94	5.1	14.26	0.000002	0.000168	Erc2	chr16
10803542	10.71	6.88	14.25	0.000003	0.000203	Celf4	chr18
10842727	9.84	6.01	14.2	0.000017	0.000452	Cdh4	chr3
10934680	8.81	4.98	14.19	0.000024	0.000536	Pou3f4	chrX
10895633	9.45	5.63	14.15	4.62E-07	0.000113	Grip1	chr7
10906391	10.59	6.77	14.13	0.000089	0.001097	Kif21a	chr7
10705414	9.97	6.15	14.12	0.000001	0.000156	Ttc9b	chr1
10905264	8.74	4.93	14.06	0.000004	0.000217	Cacng2	chr7
10769271	9.66	5.85	13.98	0.000051	0.000774	Dnm3	chr13
10882525	9.75	5.95	13.94	0.000073	0.000976	Tmem178a	chr6
10805605	9.49	5.69	13.89	0.000219	0.001875	Dok6	chr18
10851813	9.7	5.91	13.82	0.000004	0.000228	Zmynd8	chr3
10896751	11.09	7.31	13.81	0.00022	0.001877	Mtss1	chr7
10806601	9.61	5.83	13.77	0.00001	0.000339	MAST1	chr19
10903573	10.21	6.43	13.72	3.91E-07	0.000112	Sybu	chr7
10726055	10.44	6.66	13.69	7.99E-07	0.000127	Stx1b	chr1
10812689	12.72	8.95	13.68	0.000769	0.004498	Enc1	chr2
10895766	9.03	5.26	13.67	0.000051	0.000782	Fam19a2	chr7
10939093	8.17	4.41	13.61	0.000042	0.000696	Rps6ka6	chrX
10876630	9.1	5.34	13.6	0.000014	0.000419	Gabbr2	chr5
10794360	9.75	5.98	13.59	0.000018	0.00046	Wnk2	chr17

10934367	10.11	6.34	13.57	0.000022	0.000512	Nlgn3	chrX
10861843	8.76	5	13.57	0.000046	0.000732	Dgki	chr4
10874334	9.91	6.15	13.54	9.99E-07	0.000139	Chd5	chr5
10756102	11.5	7.74	13.5	0.000108	0.001225	Ctxn1	chr12
10889415	12.93	9.17	13.5	0.001045	0.005559	Sox11	chr6
10894810	9.88	6.13	13.48	0.000005	0.000257	Anks1b	chr7
10826002	9.57	5.82	13.44	0.000007	0.000296	Celsr2	chr2
10712928	10.7	6.96	13.4	0.000004	0.000231	Rbm4b	chr1
10860481	9.89	6.16	13.32	0.000003	0.000213	Sema3a	chr4
10739334	9.29	5.57	13.23	0.00007	0.000951	Map2k6	chr10
10722193	9.52	5.8	13.22	0.000001	0.000154	Ptpn5	chr1
10706559	10.54	6.82	13.2	1.22E-07	0.00007	Lrrc4b	chr1
10738562	10.42	6.7	13.19	0.000003	0.000209	Rundc3a	chr10
10772522	8.03	4.31	13.16	0.000072	0.000963	Gabra4	chr14
10744081	9.33	5.62	13.11	0.000004	0.000228	Efnb3	chr10
10793002	9.05	5.35	13.05	0.000018	0.000458	Myo16	chr16
10806303	10.08	6.38	12.98	0.00097	0.005273	Tox3	chr19
10893499	10.67	6.98	12.91	0.000018	0.00046	Cellf5	chr7
10751871	9.48	5.8	12.88	0.000022	0.000511	Fgf12	chr11
10925970	9.73	6.05	12.85	0.000035	0.00064	Dlgap1	chr9
10866738	9.52	5.83	12.84	0.000004	0.000215	Sox5	chr4
10710930	9.75	6.06	12.83	0.000054	0.000807	Fam57b	chr1
10930779	9.67	5.99	12.82	0.000002	0.000188	Slc25a23	chr9
10902047	7.66	3.99	12.8	0.000084	0.001057	Nts	chr7
10853020	9.34	5.68	12.71	0.000032	0.000614	Reln	chr4
10878416	9.79	6.12	12.65	0.000009	0.000324	Prkaa2	chr5
10865420	9.68	6.03	12.62	7.28E-07	0.000124	Clstn3	chr4
10746532	10.2	6.54	12.6	0.000002	0.000166	RGD1565395	chr10
10744098	9.01	5.36	12.6	0.000003	0.000192	Atp1b2	chr10
10792035	11.48	7.82	12.57	0.000029	0.000582	Dusp4	chr16
10770810	9.2	5.55	12.56	0.000002	0.00018	Camk1g	chr13
10889228	10.34	6.69	12.52	0.000005	0.000245	Mycn	chr6
10730539	10.02	6.38	12.46	0.000005	0.000241	Psd	chr1
10833952	10.71	7.07	12.46	0.00001	0.00035	Wasf1	chr20
10864094	9.3	5.66	12.43	0.000002	0.000159	Wnt7a	chr4
10935791	10.25	6.61	12.42	0.000067	0.000926	Hmgb3	chr17
10864616	10.41	6.78	12.39	0.000013	0.000386	Lhfpl4	chr4
10906428	8.04	4.41	12.38	0.00001	0.000349	Abcd2	chr7
10809478	9.5	5.88	12.3	0.000004	0.000231	Sez6l	chr12
10872361	10.2	6.58	12.25	0.000007	0.000288	Bai2	chr5
10708508	8.85	5.23	12.23	7.72E-07	0.000125	Grm5	chr1
10848370	11.49	7.9	12.11	7.94E-08	0.000064	Meis2	chr3
10778953	9.04	5.45	12.05	0.000023	0.000527	Kcnma1	chr15
10724311	9.54	5.95	12.04	0.000068	0.000929	Hbb	chr1
10776041	10.9	7.32	12.03	0.000016	0.000443	Rufy3	chr14
10758916	9.78	6.19	12.01	0.000005	0.000245	Srrm4	chr12
10755798	10.32	6.74	12	0.001216	0.006204	Ypel1	chr11
10857916	9.23	5.64	11.99	0.000019	0.000467	Slc6a11	chr4
10749509	9.65	6.07	11.97	0.000111	0.00124	Rbfox3	chr10
10773259	9.42	5.84	11.95	0.000003	0.000211	Stk32b	chr14
10875817	7.73	4.16	11.85	0.000008	0.000309	Fut9	chr5
10869987	8.13	4.57	11.82	0.000005	0.000257	Hook1	chr5
10762688	10.77	7.21	11.82	0.000094	0.001124	Msi1	chr12
10847308	10.32	6.76	11.79	0.003312	0.012906	Madd	chr3
10774267	9.08	5.53	11.76	0.000009	0.000332	Vstm2a	chr14
10755875	9.54	5.98	11.75	0.000038	0.000661	Fgd4	chr11
10860272	9.84	6.28	11.75	0.000257	0.002083	Magi2	chr4
10804750	9.31	5.76	11.72	0.000013	0.000387	Ablim3	chr18
10862254	9.28	5.73	11.71	0.000046	0.000731	Fam131b	chr4
10785523	9.98	6.43	11.7	0.001268	0.006393	Pcdh9	chr15
10838259	8.61	5.07	11.68	0.000002	0.000171	Pax6	chr3
10845306	8.41	4.87	11.66	0.000081	0.00103	Cacnb4	chr3
10889779	9.45	5.91	11.57	9.71E-07	0.000136	Nova1	chr6
10934784	9.5	5.98	11.44	0.000217	0.001863	Pcdh11x	chrX
10926651	10.32	6.81	11.43	0.003858	0.014424	Enpp5	chr9
10741422	9.95	6.44	11.39	0.000005	0.000257	Cacna1h	chr10
10865578	9.51	6	11.38	0.000013	0.000401	Gpr162	chr4
10840142	9.45	5.95	11.38	0.000212	0.001839	Plcb1	chr3
10922087	9.06	5.56	11.3	1.94E-07	0.000082	Tfap2d	chrU
10863940	10.07	6.57	11.3	0.000001	0.000145	Podxl2	chr4
10824349	11.52	8.03	11.28	0.000004	0.000229	Syt11	chr2
10903663	7.81	4.31	11.28	0.00001	0.00035	Csmd3	chr7
10927903	8.36	4.87	11.26	0.000012	0.00038	Tmeff2	chr9
10913866	9.43	5.95	11.2	0.000012	0.000367	Trank1	chr8
10855664	11.26	7.77	11.19	0.000023	0.000525	Mturn	chr4
10898022	10.62	7.14	11.18	0.000027	0.000558	Csdc2	chr7
10850315	9.66	6.18	11.18	0.000081	0.00103	Flrt3	chr3
10903657	7.92	4.44	11.17	0.000009	0.000335	Csmd3	chr7
10940429	9.84	6.36	11.16	0.000141	0.001426	Gprasp1	chrX
10866780	9.17	5.7	11.11	0.000008	0.00031	St8sia1	chr4
10714616	9.31	5.84	11.11	0.000021	0.000504	Slc1a1	chr1
10790912	10.91	7.44	11.04	0.00003	0.000592	Rab3a	chr16
10739845	9.68	6.22	10.94	0.000019	0.000467	Mgat5b	chr10
10714432	9.95	6.5	10.94	0.001265	0.006384	Apba1	chr1
10765751	9.78	6.33	10.91	0.000001	0.000142	Igsf9	chr13
10749892	11.64	8.2	10.9	0.000095	0.001128	Robo1	chr11
10791303	8.75	5.31	10.82	7.70E-07	0.000125	Npy1r	chr16
10799248	8.59	5.15	10.8	0.000003	0.000204	Adarb2	chr17
10880710	10.04	6.61	10.78	0.000009	0.000327	Ephb2	chr5
10732494	10.34	6.91	10.77	0.000006	0.000257	Fbxl16	chr10
10781566	8.53	5.1	10.75	0.00003	0.000591	Kctd4	chr15

10875734	8.5	5.08	10.71	0.000009	0.000324	Nkain3	chr5
10785514	9.64	6.22	10.67	0.000755	0.004436	Pcdh9	chr15
10937666	11.96	8.55	10.65	0.000141	0.001426	Gpm6b	chrX
10921860	10.22	6.81	10.64	0.000004	0.000231	Tmem151b	chr9
10716026	8.07	4.66	10.64	0.000024	0.000536	Sorcs3	chr1
10719021	9.51	6.1	10.6	0.000208	0.001817	Ttyh1	chr1
10875766	10.1	6.69	10.57	0.000003	0.000197	Pou3f2	chr5
10914882	8.27	4.88	10.5	0.000048	0.000755	Cntn5	chr8
10925936	9.55	6.16	10.47	0.000002	0.000168	Epb41l3	chr9
10838683	8.76	5.37	10.46	0.000014	0.000415	Disp2	chr3
10748466	7.83	4.44	10.45	0.000001	0.000149	Cacng5	chr10
10771826	8.45	5.06	10.44	0.000038	0.000667	Adamts3	chr14
10718881	11.89	8.5	10.44	0.00004	0.000686	Brsk1	chr1
10704794	10.69	7.3	10.41	0.000057	0.000838	Rtn2	chr1
10862820	8.46	5.09	10.36	0.000026	0.000546	Snca	chr4
10861425	8.53	5.16	10.34	0.000095	0.001129	Lrrc4	chr4
10832715	9.55	6.19	10.32	0.000004	0.000217	Ank3	chr20
10705126	9.23	5.86	10.32	0.000031	0.000607	Tmem145	chr1
10922449	8.21	4.84	10.31	0.000013	0.000399	Amer3	chr9
10742171	9.02	5.66	10.3	0.000027	0.000559	Gabra1	chr10
10871339	10.36	7	10.26	0.000011	0.000356	Zswim5	chr5
10808112	8.83	5.47	10.24	0.000025	0.000546	Cntnap4	chr19
10800456	9.2	5.84	10.24	0.000073	0.000969	Asxl3	chr18
10764270	11.06	7.71	10.23	0.001598	0.007536	Kif21b	chr13
10763401	7.95	4.59	10.21	0.000024	0.000534	Cdh7	chr13
10729635	8.54	5.2	10.19	0.000034	0.000627	Gldc	chr1
10808454	9.36	6.01	10.18	0.000029	0.000582	Jph3	chr19
10755196	9.61	6.26	10.18	0.000133	0.001377	Map3k13	chr11
10706974	9.92	6.58	10.14	0.00002	0.000486	LOC691056	chr1
10899157	9.66	6.32	10.12	0.000004	0.000231	Asic1	chrX
10836072	11.3	7.97	10.09	0.000005	0.000249	Acvr2a	chr3
10815474	12.17	8.83	10.09	0.001965	0.008775	Dclk1	chr2
10763135	9.19	5.86	10.08	0.000008	0.00032	Zfp605	chr12
10860421	8.45	5.12	10.08	0.000088	0.001086	Pclo	chr4
10729074	11.11	7.77	10.07	0.000002	0.000188	Tle4	chr1
10707945	10.45	7.12	10.05	0.00008	0.001021	St8sia2	chr1
10899317	8.64	5.31	10.04	0.000002	0.00019	Scn8a	chr7
10924699	8.08	4.75	10.03	8.93E-07	0.00013	Nyap2	chr9
10728555	11.19	7.86	10.03	0.000882	0.004942	Gng3	chr1
10903560	8.61	5.29	10.02	0.000127	0.001343	Tmem74	chr7
10873639	9.13	5.81	10	0.000028	0.00057	Mfap2	chr5
10935023	10.09	6.77	9.97	6.35E-07	0.000121	Gprasp2	chrX
10781966	9.21	5.9	9.93	0.000024	0.000531	Slitrk5	chr15
10890991	9.38	6.08	9.91	0.000045	0.000729	Map3k9	chr6
10909655	8.99	5.69	9.9	0.000001	0.000151	Dscaml1	chr8
10766923	9.51	6.2	9.87	0.000001	0.000149	Rnf152	chr13
10721765	9.43	6.13	9.87	0.000015	0.000426	Ppfia3	chr1
10826418	11.73	8.42	9.86	0.000152	0.001489	Ptbp2	chr2
10930094	9.46	6.16	9.86	0.018603	0.047195	St8sia4	chr9
10904329	8.49	5.19	9.85	0.000039	0.000674	Kcnk9	chr7
10809136	9.57	6.27	9.82	4.33E-07	0.000112	Mmp15	chr19
10788399	8.66	5.37	9.81	0.000004	0.00022	Mtmr7	chr16
10864684	9.27	5.99	9.75	0.000021	0.000496	Atp2b2	chr4
10938893	7.2	3.92	9.73	0.000014	0.000414	Mir325	chrX
10888819	10.63	7.35	9.71	0.00009	0.001102	Zfp512	chr6
10875837	9.52	6.24	9.7	0.000025	0.000543	Ankrd6	chr5
10938830	9.68	6.41	9.68	0.000007	0.000288	Slc16a2	chrX
10842828	9.51	6.24	9.66	0.000169	0.001595	Ntsr1	chr3
10887746	8.97	5.69	9.65	0.000049	0.000759	Ptpn2	chr6
10707325	7.99	4.73	9.62	0.000023	0.000528	Slc17a6	chr1
10741203	9.37	6.11	9.61	0.000021	0.000496	Syng3	chr10
10717019	9.39	6.13	9.59	0.000006	0.000276	RGD1309903	chr1
10725806	10.2	6.94	9.59	0.000389	0.00276	Coro1a	chr1
10816485	8.16	4.91	9.53	0.000062	0.000881	Mir9-1	chr2
10932107	10.22	6.97	9.52	0.000298	0.002305	Syn1	chrX
10727728	12.13	8.89	9.46	0.008966	0.027118	Cnih2	chr1
10939437	8.48	5.24	9.45	3.79E-07	0.000111	Bex1	chrU
10905974	9.67	6.43	9.45	0.000002	0.000166	Wnt7b	chr7
10903655	8.33	5.09	9.45	0.000023	0.000527	Csmd3	chr7
10813162	8.68	5.44	9.43	0.000239	0.001985	Hcn1	chr2
10799615	8.76	5.53	9.42	0.002665	0.010915	Fam107b	chr17
10880936	9.13	5.9	9.38	0.000026	0.000552	Igsf21	chrU
10713518	11.44	8.21	9.37	0.00001	0.00034	RGD1560108	chr1
10884978	10.23	7.01	9.37	0.000518	0.003381	At1l	chr6
10770996	10.03	6.8	9.36	0.000007	0.000285	Atp5i	chr14
10872801	13.3	10.08	9.35	1.87E-07	0.000082	Stmn1	chr5
10783786	9.36	6.14	9.34	7.07E-07	0.000124	Jph4	chr15
10840300	9.19	5.97	9.34	0.000506	0.00333	MacroD2	chr3
10840105	8.59	5.37	9.32	0.000008	0.00032	Chgb	chr3
10809216	10.39	7.17	9.29	0.002325	0.009887	Gpr56	chr19
10937236	10.61	7.4	9.27	0.000032	0.000614	Nudt10	chrX
10932623	10.61	7.4	9.27	0.000032	0.000614	Nudt11	chrX
10770119	8.33	5.12	9.22	0.000012	0.000373	Rgs7	chr13
10787962	7.98	4.78	9.19	0.000005	0.000235	Galnt16	chr16
10755544	8.28	5.09	9.17	0.000089	0.001097	B3gnt5	chr11
10940324	10.39	7.2	9.14	0.000208	0.001817	Plxna3	chr1
10722718	10.33	7.14	9.14	0.000306	0.002349	Arrdc4	chr1
10869728	9.38	6.19	9.13	0.000115	0.001264	Sh3gl2	chr5
10742464	8.73	5.54	9.11	0.000002	0.000176	Zfp2	chr10
10882367	9.56	6.38	9.1	0.000002	0.000179	Cntfr	chr5
10747847	11.21	8.02	9.1	0.000016	0.000443	Fam171a2	chr10

10711167	10.18	7	9.07	0.000044	0.000715	Fbxl19	chr1
10864590	10.31	7.13	9.05	0.000006	0.000276	Srgap3	chr4
10927379	10.03	6.86	9.02	0.000145	0.001447	Sema4c	chr9
10836114	11.74	8.57	8.99	0.00079	0.004581	Kif5c	chr3
10757104	9.56	6.39	8.99	0.000945	0.005178	Adap1	chr12
10822545	8.29	5.12	8.96	0.000066	0.000919	Nlgn1	chr2
10824517	10.02	6.87	8.92	0.00001	0.00034	Chrn2	chr2
10852464	9.83	6.67	8.91	0.000005	0.00024	Eef1a2	chr3
10832083	9.92	6.77	8.88	0.000091	0.001109	Mdga1	chr20
10939929	9.69	6.54	8.87	0.000344	0.002543	Fgf13	chrX
10897734	9.58	6.43	8.86	0.019422	0.048795	Syng1	chr7
10764005	6.87	3.73	8.85	0.001331	0.00661	Plekha6	chr13
10938467	9.56	6.42	8.84	0.000058	0.000843	Arhgef9	chrX
10923361	9.17	6.02	8.84	0.000065	0.000905	Plcl1	chr9
10890463	8.14	5	8.84	0.000135	0.001391	Trim9	chr6
10793306	10.51	7.36	8.83	0.000015	0.000421	Ube2ql1	chr1
10803692	12.66	9.52	8.81	0.000053	0.000793	Nrep	chr18
10787556	9.52	6.38	8.81	0.000089	0.001095	Tmem591	chr16
10834157	9.32	6.19	8.79	0.000003	0.000205	Rnf208	chr3
10806314	8.69	5.55	8.79	0.000071	0.00096	Sall1	chr19
10883636	11.54	8.4	8.78	0.000009	0.000326	Fam49a	chr6
10870987	9	5.86	8.77	0.000004	0.000229	Bend5	chr5
10868437	8.65	5.52	8.77	0.000068	0.000929	Unc13b	chr5
10922268	8.77	5.63	8.77	0.006192	0.020464	Khdrbs2	chr9
10877755	11.94	8.8	8.76	0.000004	0.000229	Nfib	chr5
10761301	7.58	4.45	8.76	0.000011	0.000355	Caln1	chr12
10808843	9.68	6.55	8.75	0.000085	0.001064	Trim67	chr19
10762426	9.1	5.98	8.73	0.000049	0.000759	Hrk	chr12
10739364	9.28	6.16	8.69	0.000276	0.002193	Sstr2	chr10
10912439	9.2	6.08	8.67	0.000011	0.000354	Rbp1	chr8
10821486	8.56	5.44	8.66	0.000001	0.000149	Isl1	chr2
10838130	8.66	5.56	8.61	0.000009	0.000334	Slc1a2	chrU
10869574	7.97	4.86	8.61	0.000023	0.000525	Frdm3	chr5
10734967	9.49	6.39	8.6	0.000045	0.000727	RGD1563441	chr10
10829965	9.49	6.38	8.59	0.00002	0.00049	Spock2	chr20
10815352	8.04	4.93	8.58	0.000006	0.000271	Trpc4	chr2
10733531	10.66	7.56	8.57	0.000011	0.000357	Kif3a	chr10
10805287	9.42	6.32	8.56	0.000036	0.000652	Rnf165	chr18
10816540	9.93	6.84	8.52	0.000018	0.000461	Mex3a	chr2
10924223	9.65	6.56	8.52	0.000276	0.002195	Igfbp2	chr9
10768765	8.96	5.87	8.5	0.000013	0.000394	Cacna1e	chr13
10725543	8.26	5.17	8.48	0.000036	0.00065	Zkscan2	chr1
10763137	7.78	4.7	8.47	0.000843	0.004768	Zfp605	chrU
10776710	9.01	5.94	8.42	0.000005	0.000256	Limch1	chr14
10912631	11.07	7.99	8.42	0.000814	0.004667	Rab6b	chr8
10898968	11.13	8.06	8.41	0.000113	0.00125	Pfkm	chr7
10770521	10.57	7.5	8.4	0.000235	0.001961	Mark1	chr13
10810562	10.82	7.75	8.39	0.000515	0.003367	Kiaa08951	chr19
10904966	9.36	6.29	8.38	0.000024	0.000533	Sert1	chr7
10785116	8.76	5.69	8.37	0.000013	0.000386	Dmtn	chr15
10832640	8.96	5.9	8.35	0.000005	0.000243	Gnaz	chr20
10784913	11.82	8.76	8.32	0.000883	0.004946	Chmp7	chr15
10889590	11.47	8.42	8.28	0.00138	0.006795	Prkar2b	chr6
10718486	10.23	7.18	8.27	0.000003	0.0002	Zik1	chr1
10885280	8.83	5.79	8.24	0.000021	0.000496	Syt16	chr6
10771830	8.7	5.67	8.18	0.000216	0.001858	Adamts3	chr14
10767203	7.35	4.32	8.15	0.000009	0.000328	Dpp10	chr13
10753393	8.62	5.59	8.14	0.000009	0.000325	Dscam	chr11
10808664	9.37	6.35	8.11	0.000001	0.000147	Spire2	chr19
10875771	8.65	5.64	8.1	0.000011	0.000364	Klhl32	chr5
10855615	9.49	6.48	8.06	0.005473	0.018647	Chn2	chr4
10836416	8.11	5.1	8.05	0.000018	0.000463	Slc4a10	chr3
10837241	7.5	4.49	8.04	0.000059	0.000857	Zfp804a	chr3
10887463	9.11	6.1	8	0.000005	0.000242	Kif26a	chr6
10912917	8.75	5.76	7.94	0.000006	0.000271	Cacna2d2	chr8
10903210	9.97	6.98	7.94	0.000038	0.000669	Tspyl5	chr7
10722532	8.77	5.79	7.93	0.000011	0.000361	Chrna7	chrU
10862376	9.46	6.47	7.92	0.000489	0.003254	Zfp786	chr4
10894804	10.05	7.06	7.91	0.000005	0.000249	Anks1b	chr7
10710669	8.01	5.03	7.9	0.00003	0.000591	Cacng3	chr1
10776739	12.82	9.85	7.88	0.000049	0.000759	Uchl1	chr14
10780301	9.47	6.49	7.87	0.000021	0.000501	Lrrc16b	chr15
10776631	7.39	4.41	7.86	0.000011	0.000356	Gabrb1	chr14
10826502	12.28	9.3	7.85	0.000051	0.000774	Fnbp11	chr2
10727884	9.67	6.7	7.83	0.000004	0.000216	Snx32	chr1
10829137	8.71	5.75	7.81	0.000003	0.000209	Pde9a	chr20
10816160	10.36	7.4	7.79	0.001079	0.005694	Fbxw7	chr2
10719817	11.75	8.8	7.75	0.000135	0.001391	Pafah1b3	chr1
10733582	8.89	5.94	7.73	0.000074	0.000985	Acsl6	chr10
10926995	8.95	6	7.73	0.000094	0.001126	Rims1	chr9
10781214	9.17	6.22	7.73	0.000691	0.004151	Pnma2	chr15
10718696	8.92	5.97	7.72	0.00012	0.001294	Zfp667	chr1
10765383	9.23	6.29	7.71	0.000059	0.000859	Fam78b	chr13
10735415	8.64	5.69	7.71	0.000076	0.000999	Wscd1	chr10
10882273	11.16	8.21	7.7	0.000013	0.000389	Agrn	chr5
10875974	7.79	4.84	7.7	0.00004	0.000682	Lingo2	chrU
10830408	10.48	7.54	7.68	0.000023	0.000523	Rev3l	chr20
10782156	8.54	5.61	7.64	0.000017	0.000447	Zic2	chr15
10737596	9.33	6.4	7.64	0.000023	0.000531	Samd14	chr10
10826392	9.59	6.65	7.64	0.000045	0.000727	Lppr4	chr2
10905326	8.2	5.27	7.63	0.000036	0.000642	Mfng	chr7

10814847	10.03	7.1	7.63	0.000056	0.000831	Sox2	chr2
10819136	8.41	5.48	7.61	0.000145	0.001447	Cxxc4	chr2
10823216	11.69	8.76	7.6	0.000068	0.000934	RGD1562629	chr2
10811248	8.49	5.57	7.59	0.000055	0.000813	Adamts18	chr19
10940016	9.3	6.38	7.58	0.001814	0.008276	Slitrk4	chrX
10702320	8.02	5.1	7.57	0.000255	0.002068	Clvs2	chr1
10780868	10.22	7.3	7.57	0.000383	0.002737	Amer2	chr15
10794242	8.94	6.02	7.56	0.000503	0.003314	Sema4d	chr17
10865270	8.5	5.58	7.55	0.000012	0.00037	Iqsec3	chr4
10937362	11.15	8.24	7.54	0.000005	0.000249	Pak3	chrX
10908863	10.56	7.64	7.53	0.000169	0.001596	Arhgap32	chr8
10771210	8.9	5.99	7.51	0.000042	0.000702	Sparcl1	chr14
10744227	8.64	5.74	7.5	0.00001	0.000335	Fgf11	chr10
10845725	8.19	5.28	7.48	0.000163	0.001559	Kcnh7	chr3
10737450	7.84	4.93	7.47	0.000359	0.002617	Ca10	chr10
10851781	8.16	5.26	7.46	0.000101	0.00117	Zfp663	chr3
10798390	8.69	5.79	7.45	0.000005	0.000257	Fam65b	chr17
10928832	9.11	6.22	7.45	0.00001	0.000348	4-Mar	chr9
10835604	9.78	6.88	7.45	0.000012	0.000373	Sh2d3c	chr3
10844808	11.2	8.31	7.43	0.000627	0.003869	Strbp	chr3
10885628	8.67	5.78	7.4	0.00003	0.000592	Galnt16	chr6
10824965	12.63	9.75	7.4	0.000211	0.001835	Mllt11	chr2
10745533	8.91	6.02	7.38	0.00003	0.000599	Asic2	chr10
10803866	10.26	7.38	7.38	0.000822	0.004694	Lrrtm2	chr18
10742048	8.89	6.01	7.37	0.00004	0.000682	Wwc1	chr10
10706734	8.91	6.03	7.36	0.000002	0.000182	Slc17a7	chr1
10884599	7.91	5.04	7.36	0.000042	0.000696	Npas3	chr6
10919694	9.59	6.71	7.36	0.000315	0.002392	Tmem108	chr8
10758064	8.31	5.43	7.34	0.000006	0.000263	Rimbp2	chr12
10703945	9.44	6.57	7.33	0.000073	0.000974	Shisa7	chr1
10746000	10.42	7.55	7.3	0.000143	0.001437	Gdpd1	chr10
10730292	9.07	6.2	7.3	0.000251	0.002051	Golga7b	chr1
10791346	7.78	4.92	7.28	0.000027	0.000562	Spock3	chr16
10779602	8.69	5.83	7.28	0.000041	0.000688	Gpr137c	chr15
10769075	9.75	6.89	7.28	0.003836	0.014371	Brinp2	chr13
10757119	10.48	7.61	7.27	0.011669	0.033041	Prkar1b	chr12
10921600	9.1	6.24	7.26	0.000006	0.000269	Ttbk1	chr9
10794812	9.59	6.73	7.26	0.000824	0.004701	Slc22a23	chr17
10765413	8.56	5.7	7.25	0.00002	0.000489	Rxrg	chr13
10723419	10.56	7.71	7.25	0.001375	0.006778	Arnt2	chr1
10867731	7	4.14	7.24	0.00001	0.000339	Calb1	chr5
10763171	9.95	7.1	7.22	0.000005	0.000257	Stx1a	chr12
10761227	9.95	7.1	7.22	0.000005	0.000257	Stx1a	chr12
10877935	11.13	8.28	7.22	0.000175	0.001632	Mllt3	chr5
10905324	9.11	6.26	7.21	0.000005	0.000242	Elfn2-ps1	chr7
10926181	9.78	6.93	7.21	0.000616	0.003823	Plcl2	chr9
10737827	9.51	6.67	7.2	0.000003	0.0002	Socs7	chr10
10916493	8.21	5.37	7.2	0.000064	0.000904	Sorl1	chr8
10704960	11.49	8.64	7.2	0.014076	0.038128	Cadm4	chr1
10889575	7.28	4.43	7.19	0.000009	0.000335	Gpr22	chr6
10865738	8.32	5.48	7.18	0.000228	0.001918	Kcna6	chr4
10897327	8.49	5.65	7.17	0.000078	0.001007	Kifc2	chr7
10860577	9.02	6.18	7.17	0.00015	0.001481	Adam22	chr4
10840332	8.67	5.83	7.13	0.000012	0.000385	Pcsk2	chr3
10790863	8.84	6	7.13	0.000029	0.000582	Fcho1	chr16
10831240	11.4	8.58	7.08	0.004783	0.016884	Ddah2	chr20
10857643	7.9	5.07	7.07	0.000002	0.000176	Grm7	chr4
10836945	9.24	6.42	7.06	5.97E-07	0.000121	Cdca7	chr3
10889326	8.68	5.86	7.06	8.05E-07	0.000127	Kcnf1	chr6
10928191	11.61	8.8	7.05	0.000636	0.0039	Satb2	chr9
10806341	9.51	6.69	7.04	0.00004	0.000685	Zfp423	chr19
10763935	9.05	6.24	7.03	0.000084	0.001055	Pik3c2b	chr13
10750505	9.16	6.35	7.02	0.000209	0.001827	Pcp4	chr11
10935188	7.59	4.78	7.01	0.001546	0.007366	RGD1563753	chr3
10916060	9.19	6.38	7	0.003882	0.014489	Ddx25	chr8
10729009	9.63	6.83	6.96	0.012965	0.035866	Dtx4	chr1
10894238	9.62	6.83	6.95	0.000046	0.000731	Zfp563	chrU
10823252	12.13	9.33	6.95	0.000231	0.001942	RGD1562629	chr2
10922933	10.41	7.62	6.94	0.000013	0.000386	Pou3f3	chr9
10841532	10.64	7.84	6.94	0.000054	0.000808	Epb41l1	chr3
10869125	8.85	6.05	6.94	0.000124	0.00132	Fsd11	chr5
10827877	11.01	8.22	6.93	0.000054	0.000807	Atat1	chr20
10731095	8.84	6.05	6.93	0.000125	0.001324	Hspa12a	chr1
10806993	9.05	6.26	6.93	0.000732	0.00434	Mmaa	chr19
10789688	10.99	8.2	6.91	0.000049	0.000759	Efnb2	chr16
10837337	8.83	6.04	6.91	0.000074	0.000979	Ypel4	chr3
10891548	7.83	5.05	6.89	0.000037	0.000657	Eml5	chr6
10708399	10.86	8.08	6.89	0.002083	0.009108	Mex3b	chr1
10724467	10.75	7.97	6.88	0.000125	0.001324	Apbb1	chr1
10933651	10.98	8.21	6.84	0.000003	0.000192	Sms	chrX
10797817	8.96	6.19	6.84	0.000215	0.001856	Rnf182	chr17
10938291	7.28	4.51	6.83	0.000017	0.000452	Il1rapl1	chrX
10765462	10.9	8.13	6.82	0.000003	0.000204	Sms	chr13
10848176	7.96	5.19	6.82	0.000064	0.000896	Ryr3	chr3
10862756	11.28	8.51	6.81	0.000092	0.00111	Lanc12	chr4
10860566	8.29	5.53	6.79	0.000048	0.000752	RGD1563349	chr4
10921030	8.85	6.09	6.79	0.000714	0.004259	Cck	chr8
10861946	10.05	7.29	6.78	0.000068	0.000929	RGD1306271	chr4
10853710	10.76	8	6.78	0.000103	0.001183	Glecc1	chr4
10928433	8.05	5.29	6.77	0.000161	0.001552	Ica11	chr9
10856497	7.8	5.05	6.74	0.000003	0.0002	Lrrtm4	chr4

10795574	10.45	7.7	6.73	0.000169	0.001596	Arhgap12	chr17
10893590	11.01	8.26	6.73	0.001129	0.005881	Atcay	chr7
10754454	8.66	5.92	6.7	6.43E-07	0.000121	Sema5b	chr11
10933984	9.85	7.11	6.67	0.000028	0.000574	Pcyt1b	chrU
10799893	8.54	5.8	6.67	0.000234	0.00196	Skida1	chr17
10718043	9.38	6.64	6.66	0.000431	0.002962	Pde10a	chr1
10823853	11.46	8.73	6.66	0.018624	0.04722	Gria2	chr2
10773180	9.91	7.17	6.65	0.00001	0.000341	Hs3st1	chr14
10881892	9.09	6.35	6.65	0.000116	0.001267	Camta1	chr5
10933507	9.18	6.45	6.64	0.00525	0.018116	Reps2	chrX
10817459	10.54	7.81	6.63	0.000093	0.001122	Anp32e	chr2
10781266	8.4	5.67	6.62	0.000219	0.001874	Nefl	chr15
10746721	8.7	5.97	6.61	0.00002	0.000487	Srcin1	chr10
10915018	9.94	7.21	6.61	0.000191	0.001725	Panx1	chr8
10707935	9.73	7	6.61	0.000807	0.004642	Rgma	chr1
10772544	6.68	3.96	6.6	0.000214	0.001848	Gabrg1	chr14
10883311	11.86	9.14	6.59	0.000296	0.002297	Kif3c	chr6
10858726	8.83	6.12	6.58	0.00001	0.000337	Pianp	chr4
10904063	8.52	5.8	6.58	0.013315	0.036599	Adcy8	chr7
10924588	9.22	6.51	6.56	0.000115	0.001263	Tmem198	chr9
10891561	8.26	5.55	6.55	8.70E-07	0.000128	Eml5	chr6
10797836	9.02	6.31	6.55	0.000006	0.000257	Phactr1	chr17
10866788	10.44	7.73	6.55	0.000114	0.001253	C2cd5	chr4
10777422	8.97	6.27	6.47	0.000036	0.000642	Ppp2r2c	chr14
10876396	9.96	7.27	6.47	0.000078	0.001008	Gba2	chr5
10777407	8.45	5.76	6.46	0.000002	0.000174	Jakmip1	chr14
10802391	8.03	5.34	6.46	0.000112	0.001246	Gnal	chr18
10903596	7.59	4.9	6.45	0.000018	0.000464	Csmd3	chr7
10787981	6.74	4.06	6.45	0.000272	0.002171	Galntl6	chr16
10704669	9.2	6.52	6.44	0.000074	0.00098	Nova2	chr1
10897648	7.99	5.3	6.43	0.000082	0.001044	Fam227a	chr7
10706515	9.79	7.11	6.42	0.000053	0.000794	Shank1	chr1
10735375	8.68	6	6.42	0.000085	0.001067	Zfp3	chr10
10883912	9.7	7.02	6.4	0.000002	0.00018	Mboat2	chr6
10777722	8.55	5.87	6.4	0.000018	0.000459	Nat8l	chr14
10844482	9.76	7.08	6.4	0.000034	0.00063	Ralgps1	chr3
10844733	9.21	6.54	6.38	0.000006	0.000276	Lhx6	chr3
10867436	8.45	5.78	6.37	0.000163	0.001559	Xkr4	chr5
10704035	9.85	7.18	6.37	0.000301	0.002317	Syt5	chr1
10794261	10.06	7.39	6.37	0.002351	0.009966	Shc3	chr17
10817237	9.19	6.53	6.36	0.000839	0.004757	Tdrkh	chr2
10816050	10.46	7.79	6.34	0.000047	0.000744	Map9	chr2
10912718	7.64	4.98	6.34	0.000118	0.001282	Cpne4	chr8
10746638	8.38	5.72	6.34	0.000318	0.002405	Tbkbp1	chr10
10706509	11.6	8.94	6.29	0.00251	0.01047	Fv1	chr1
10773683	8.96	6.31	6.28	0.000029	0.000578	Patz1	chr14
10854680	10.76	8.11	6.28	0.0004	0.002818	Ndufb2	chr4
10928636	10.48	7.83	6.27	0.000497	0.003289	Erbp4	chr9
10818381	11.34	8.69	6.26	0.000013	0.000392	Wdr47	chr2
10837097	8.55	5.9	6.26	0.006081	0.020186	Osbpl6	chrU
10832847	8.65	6.01	6.25	0.00004	0.000686	Tet1	chr20
10938806	8.65	6	6.24	0.000047	0.000747	Nap1l2	chrX
10757768	10.86	8.22	6.22	0.000017	0.000447	Limk1	chr12
10907165	8.71	6.08	6.2	0.000196	0.001753	Faim2	chrX
10885365	9.44	6.81	6.19	0.000005	0.000249	Syne2	chr6
10772784	8.26	5.63	6.19	0.000013	0.00039	Nwd2	chr14
10831357	9.02	6.39	6.19	0.00011	0.001235	Zbtb12	chr20
10864371	9.42	6.79	6.19	0.000458	0.003107	Frmf4b	chr4
10728375	8.62	5.99	6.18	0.000004	0.000232	Flrt1	chr1
10876730	9.06	6.43	6.18	0.000018	0.000458	Tmem246	chr5
10823672	8.28	5.65	6.18	0.000022	0.000512	Slitrk3	chr2
10806351	7.99	5.36	6.18	0.000032	0.000617	Cbln1	chr19
10877860	10.62	7.99	6.18	0.000035	0.000636	Psip1	chr5
10703937	9.07	6.44	6.17	0.000044	0.00072	Shisa7	chr1
10832034	7.86	5.24	6.17	0.000073	0.000976	Cpne5	chr20
10812387	7.66	5.04	6.16	0.000221	0.001881	Edil3	chr2
10850929	10.8	8.18	6.15	0.000004	0.000229	Sms	chr3
10761013	9.29	6.67	6.14	0.000013	0.000386	Nyap1	chr12
10895152	9.93	7.31	6.13	0.000006	0.000273	Kitlg	chr7
10867701	10.49	7.88	6.13	0.000015	0.00043	Runx1t1	chr5
10764529	7.58	4.97	6.13	0.000024	0.000531	Brinp3	chr13
10903074	8.5	5.89	6.11	8.19E-07	0.000127	Nxph4	chr7
10862700	7.26	4.65	6.11	0.000036	0.000652	Pde1c	chr4
10827382	9.3	6.69	6.11	0.002013	0.008916	Fam73a	chr2
10875616	7.42	4.81	6.1	0.000479	0.003204	Necab1	chr5
10861171	10.54	7.93	6.1	0.00504	0.017532	Cttnbp2	chr4
10749983	11.84	9.23	6.09	0.000018	0.000459	Cxadr	chr11
10862049	11.33	8.72	6.09	0.000267	0.002145	Mkrm1	chr4
10731517	8.67	6.07	6.07	0.000168	0.001588	Tvp23a	chr10
10740529	8.51	5.92	6.06	0.000072	0.000968	Abat	chr10
10899278	8.5	5.91	6.04	0.000021	0.000496	Slc4a8	chr7
10747697	8.38	5.78	6.04	0.000036	0.000651	Mpp3	chr10
10913899	11.47	8.88	6.04	0.000495	0.003282	Clasp2	chr8
10794136	9.78	7.19	6.03	0.000034	0.000629	Sncb	chr17
10798507	9.54	6.95	6.03	0.000041	0.000688	Hist1h2ak	chr17
10826261	8.3	5.71	6.03	0.000052	0.000789	Gpr88	chr2
10883094	11.73	9.14	6.03	0.000129	0.001355	Ppm1g	chr6
10772939	9	6.4	6.03	0.000196	0.001753	Lgi2	chr14
10855138	7.98	5.39	6	0.000032	0.000614	Cntnap2	chr4
10936856	12.62	10.04	5.99	0.003826	0.014345	Tspan7	chrX
10797351	8.46	5.88	5.98	0.000008	0.000317	Unc5a	chr17

10867345	6.59	4.01	5.95	0.000063	0.000888	Sntg1	chr5
10808103	9.55	6.98	5.95	0.000805	0.004632	Terf2ip	chr19
10772915	7.7	5.14	5.91	0.000094	0.001122	Sel1l3	chr14
10769629	10.58	8.02	5.91	0.001756	0.008099	Mgst3	chr13
10869165	11.08	8.51	5.91	0.002029	0.008936	Zfp462	chr5
10704969	8.83	6.26	5.91	0.003814	0.014314	Zfp428	chr1
10781594	8.47	5.91	5.9	0.0004	0.002816	Enox1	chr15
10769638	12	9.45	5.89	0.000001	0.000156	Pbx1	chr13
10746286	10.59	8.03	5.89	0.000079	0.001021	Luc7l3	chr10
10756931	11.4	8.84	5.89	0.00828	0.025481	Ttyh3	chr12
10765587	10.81	8.26	5.88	0.000009	0.000324	Usf1	chr13
10765285	9.7	7.14	5.88	0.000377	0.002709	Gpr161	chr13
10901103	9.43	6.87	5.88	0.000468	0.003155	Zfp81	chr7
10823254	11.73	9.18	5.86	0.000057	0.000832	RGD1562629	chr2
10843229	9.06	6.5	5.86	0.000059	0.000855	Cacna1b	chr3
10846901	7.51	4.96	5.85	0.000114	0.001261	Lrrc55	chr3
10849307	11.27	8.73	5.84	0.000025	0.000545	Myef2	chr3
10722489	11.99	9.45	5.84	0.000228	0.001921	Snurf	chr1
10850857	8.37	5.83	5.84	0.000412	0.002873	Tspyl3	chr3
10834411	9.97	7.43	5.83	0.000066	0.000915	Gpsm1	chr3
10935689	8.07	5.53	5.83	0.001263	0.006377	Slitrk2	chrX
10834800	10.43	7.88	5.82	0.002437	0.010231	Olfm1	chr3
10899367	10.15	7.61	5.81	0.000037	0.000659	Acvr1b	chr7
10762455	8.13	5.6	5.78	0.00001	0.000343	Nos1	chr12
10939890	11.1	8.57	5.76	0.000001	0.000142	RbmX	chrX
10927487	8.62	6.1	5.75	0.00025	0.002048	Tsga10	chr9
10820170	6.97	4.44	5.75	0.000329	0.002467	Gpr98	chr2
10738477	9.04	6.52	5.73	0.000118	0.001278	Arl4d	chr10
10887812	8.12	5.6	5.72	0.000091	0.001108	Sp8	chr6
10932016	10.26	7.74	5.72	0.000104	0.001189	Sept6	chrX
10795203	9.82	7.3	5.71	0.000081	0.001028	Hist1h1a	chr17
10788483	9.4	6.88	5.71	0.000666	0.004038	Lonrf1	chr16
10760824	10.76	8.25	5.7	0.000003	0.000211	Mcm7	chr12
10755580	9.4	6.89	5.68	0.000004	0.000229	Arvcf	chr11
10877644	9.79	7.28	5.68	0.000015	0.000421	Tle1	chr5
10897068	9.91	7.41	5.66	0.00012	0.001294	Zfp41	chr7
10731787	8.78	6.28	5.66	0.011251	0.032153	Tfap4	chr10
10796696	7.01	4.51	5.66	0.015671	0.04146	Thnsl1	chr17
10715455	10.54	8.04	5.65	0.000294	0.002285	Morn4	chr1
10724331	7.94	5.44	5.65	0.001374	0.006772	Hbe1	chr1
10908562	11.3	8.81	5.63	0.000007	0.000278	Lppr2	chr8
10804350	8.48	5.99	5.63	0.000023	0.00053	Trim36	chr18
10746556	8.58	6.09	5.62	0.000021	0.000503	Igf2bp1	chr10
10893906	9.77	7.28	5.62	0.000077	0.001004	Dos	chr7
10931811	8.44	5.95	5.62	0.000079	0.00102	Tenm1	chrX
10868986	12.28	9.79	5.62	0.002805	0.011371	Tmeff1	chr5
10802231	11.27	8.78	5.61	0.000005	0.000241	Nedd4l	chr18
10803571	7.81	5.32	5.61	0.000129	0.001355	Rit2	chr18
10912464	8.42	5.94	5.6	0.000042	0.000701	Cep70	chr8
10901531	9.02	6.53	5.59	0.000025	0.000546	Ascl1	chr7
10743144	7.81	5.32	5.58	0.000015	0.000424	Zfp867	chr10
10886131	10.18	7.7	5.57	3.46E-07	0.000105	Vash1	chr6
10842753	10.27	7.8	5.56	0.000041	0.000692	Ss18l1	chr3
10771456	8.11	5.64	5.55	0.000003	0.000211	Tmem150c	chr14
10836253	7.47	5	5.55	0.00001	0.000345	Galnt13	chr3
10758472	10.07	7.6	5.54	0.000023	0.000523	Kdm2b	chr12
10791500	7.07	4.6	5.53	0.000145	0.001449	Scrg1	chr16
10768339	6.66	4.2	5.52	0.000624	0.003854	Rgs13	chr13
10806698	9.35	6.9	5.5	0.007241	0.023041	Mri1	chr19
10934720	9.57	7.12	5.49	0.004043	0.014911	Zfp711	chrX
10822000	11.93	9.47	5.48	0.000994	0.005361	Sub1	chr2
10832602	10.82	8.37	5.47	0.000013	0.000386	Bcr	chr20
10737136	9.81	7.36	5.47	0.001111	0.005813	Trim37	chr10
10824226	8.04	5.59	5.46	0.000017	0.000456	Bcan	chr2
10724708	9.16	6.72	5.46	0.00002	0.000493	Lmo1	chr1
10831152	9.63	7.18	5.46	0.000166	0.001575	Atp6v1g2	chr20
10816144	7.92	5.47	5.46	0.016357	0.042822	Sfrp2	chr2
10924174	8.03	5.58	5.44	0.000059	0.000859	Tmem169	chr9
10719134	8.73	6.29	5.44	0.000182	0.001676	Zscan18	chr1
10778351	9.13	6.69	5.44	0.000285	0.002237	Nacad	chr14
10878880	9.75	7.31	5.43	0.000108	0.001218	Nasp	chr5
10891684	7.95	5.51	5.43	0.000123	0.001318	Ccdc88c	chr6
10774072	10.59	8.15	5.42	0.000102	0.001178	Zmiz2	chr14
10812077	8.21	5.78	5.4	0.00004	0.000683	Pcnxl2	chr19
10898449	9.01	6.58	5.4	0.000095	0.001128	Fam19a5	chr7
10793891	10.79	8.35	5.39	0.000008	0.000303	Hnrnpa0	chr17
10803051	7.78	5.34	5.39	0.000135	0.001391	Cbln2	chr18
10795077	8.57	6.14	5.39	0.000444	0.003033	Nrsn1	chr17
10897524	9.46	7.03	5.38	0.000014	0.000419	Pdxdp	chr7
10900772	10.86	8.43	5.38	0.000099	0.001155	Palm	chr7
10743914	11.92	9.49	5.38	0.000273	0.002176	Chd3	chr10
10919574	9.32	6.89	5.37	0.001578	0.007478	Ppp2r3a	chr8
10844302	9.85	7.42	5.37	0.00329	0.012844	Dnm1	chr3
10870713	10.85	8.42	5.37	0.005761	0.01938	Lrp8	chr5
10754824	9.43	7.01	5.36	0.000004	0.000228	Tctex1d2	chr11
10767597	9.93	7.51	5.36	0.000347	0.002556	Tmcc2	chr13
10879838	8.75	6.32	5.36	0.001974	0.008806	Ago4	chr5
10708338	9.44	7.02	5.35	0.003175	0.012483	Sh3gl3	chr1
10900583	10.99	8.57	5.34	0.000199	0.00177	Cirbp	chr7
10757489	8.52	6.11	5.33	0.000004	0.00023	Vgf	chr12
10857969	8.26	5.85	5.33	0.000049	0.000759	Syn2	chr4

10760749	9.1	6.68	5.33	0.000051	0.00078	RGD1566386	chrU
10843280	10.16	7.75	5.31	0.000005	0.000252	Ehmt1	chr3
10774306	11.22	8.81	5.31	0.000061	0.000874	Cnrip1	chr14
10767268	8.7	6.29	5.31	0.000113	0.001249	Tmem163	chr13
10825981	9.15	6.75	5.3	0.000088	0.001086	Atxn7l2	chr2
10801180	8.1	5.7	5.29	0.000092	0.001112	Pcdhb8	chr18
10749523	8.4	5.99	5.29	0.000096	0.001139	Nptx1	chr10
10887774	9.53	7.12	5.29	0.010705	0.030982	Rapgef5	chr6
10861137	11.67	9.27	5.28	0.000017	0.000447	Rbmxml1	chr4
10859748	7.22	4.82	5.28	0.000029	0.000577	Far2	chr4
10853229	11.21	8.81	5.28	0.000342	0.002529	Gnai1	chr4
10933538	10.01	7.61	5.28	0.001231	0.006259	Cdkl5	chrX
10748962	12.36	9.96	5.27	4.80E-07	0.000115	Hn1	chr10
10898840	8.06	5.67	5.24	0.00001	0.00035	Pdzrn4	chr7
10740832	9	6.61	5.24	0.000139	0.001416	Zfp13	chr10
10896284	8.72	6.33	5.24	0.001134	0.005892	Rims2	chr7
10811956	9.9	7.52	5.23	0.000001	0.000141	Sipa1l2	chr19
10733940	9.49	7.1	5.23	0.000825	0.004706	Hist3h2a	chr10
10719394	7.88	5.49	5.22	0.000011	0.000365	Gipr	chr1
10773088	10.83	8.45	5.19	0.000025	0.000545	Ldb2	chr14
10862464	7.87	5.5	5.19	0.000044	0.000717	Dfna5	chr4
10843084	7.4	5.03	5.18	0.000006	0.000272	Oprl1	chr3
10917645	10.46	8.09	5.18	0.000496	0.003287	Scaper	chr8
10756105	8.44	6.07	5.17	0.000087	0.001084	RGD1566084	chr12
10935640	7.26	4.89	5.16	0.000008	0.000306	RGD1561327	chrX
10713876	9.54	7.18	5.15	0.000018	0.000458	Syt7	chr1
10912849	11.1	8.74	5.15	0.000043	0.000712	Pcbp4	chr8
10730794	7.63	5.27	5.15	0.000074	0.000981	Sorcs1	chr1
10892786	9.69	7.33	5.14	0.000024	0.000534	Sp4	chr6
10862110	9.84	7.48	5.14	0.000625	0.003856	RGD1563986	chr4
10825890	9.68	7.32	5.14	0.002973	0.011846	Gstm7	chr2
10772986	8.09	5.73	5.13	0.000622	0.003845	Ppargc1a	chr14
10885305	8.48	6.13	5.12	0.000018	0.000463	Syne2	chr6
10769919	9.45	7.09	5.12	0.00003	0.000592	Vangl2	chr13
10818454	8.35	6	5.12	0.000236	0.001968	Vav3	chr2
10817260	11.41	9.05	5.12	0.018377	0.046749	Celf3	chr2
10793771	10.95	8.59	5.11	0.000014	0.000413	Agtppbp1	chr17
10773198	9.48	7.13	5.11	0.000092	0.00111	Zfp518b	chr14
10810685	9.03	6.68	5.1	0.000137	0.001405	Gfod2	chr19
10886756	11.94	9.6	5.09	0.000002	0.000176	Evl	chr6
10917518	9.99	7.64	5.09	0.000287	0.002241	Dmxl2	chr8
10741956	7.33	4.98	5.08	0.000331	0.002475	Kcnip1	chr10
10935589	9.51	7.17	5.07	0.000013	0.00039	Htatsf1	chrX
10708235	8.74	6.39	5.07	0.000034	0.000633	Zscan2	chr1
10782590	7.76	5.42	5.05	0.000007	0.000276	Synpr	chr15
10808407	10	7.67	5.05	0.000016	0.000445	Gse1	chr19
10880501	10.51	8.17	5.05	0.000021	0.000503	Pdik1l	chr5
10920395	9.9	7.57	5.05	0.000084	0.001058	Dhx30	chr8
10739003	9.86	7.52	5.05	0.002939	0.011752	Tanc2	chr10
10772788	7.67	5.33	5.04	0.000614	0.003815	Nwd2	chr14
10886478	8.72	6.39	5.03	0.000032	0.000614	Chga	chr6
10753269	7.92	5.59	5.03	0.000202	0.001788	Kcnj6	chr11
10933976	9.96	7.63	5.02	0.000032	0.000614	Arx	chrX
10732893	7.59	5.27	5.02	0.000074	0.000981	Ccnjl	chr10
10876193	8.85	6.52	5.01	0.000006	0.000263	Ccl27	chr5
10890609	6.58	4.26	5.01	0.000009	0.000325	Kcnh5	chr6
10720572	11.25	8.93	5.01	0.000032	0.000615	Aplp1	chr1
10931651	10.33	8.01	5.01	0.001349	0.006676	Tbc1d16	chr10
10758208	8.47	6.15	5	0.009789	0.028944	Ccdc92	chr12
10902341	6.57	4.25	4.99	0.000073	0.000976	Trhde	chr7
10781426	10.89	8.57	4.99	0.00011	0.001235	Rcctb2	chr15
10814540	7.74	5.42	4.99	0.000162	0.001557	Egfm1	chr2
10856643	11.4	9.08	4.98	0.000016	0.000445	Dctn1	chr4
10847509	10.4	8.08	4.98	0.000033	0.000623	Mapk8ip1	chr3
10757206	9.61	7.3	4.97	3.89E-07	0.000112	Zscan2l	chrU
10926317	9.42	7.1	4.97	0.000202	0.001788	Usp49	chr9
10707662	8.1	5.79	4.96	0.000092	0.00111	Otud7a	chr1
10849020	10.65	8.34	4.95	0.00011	0.001235	Tp53bp1	chr3
10750144	8.76	6.46	4.95	0.00027	0.00216	Tiam1	chr11
10910520	11.21	8.9	4.95	0.000502	0.00331	Parp6	chr8
10732087	9.3	7	4.94	0.000015	0.000422	Caskin1	chr10
10867688	8.14	5.84	4.94	0.000138	0.001411	Rbm12b	chr5
10816824	8.47	6.16	4.93	0.000047	0.000744	Kcnn3	chr2
10807758	9.77	7.47	4.93	0.000057	0.000838	Zfp821	chr19
10896494	7.24	4.94	4.93	0.000216	0.001858	RGD1309489	chr7
10850868	9.02	6.72	4.91	6.03E-07	0.000121	Nol4l	chrU
10803671	10.83	8.53	4.91	0.000011	0.000352	Creb1	chr18
10923938	10.83	8.53	4.91	0.000011	0.000352	Creb1	chr9
10739353	8.84	6.55	4.91	0.000571	0.003627	Kcnj2	chr10
10733243	12.3	10	4.9	0.000043	0.000712	Hnrnp1	chr10
10758624	9.11	6.82	4.89	0.000007	0.000279	Cux2	chr12
10766417	8.78	6.5	4.88	0.000006	0.000258	Susd4	chr13
10925443	9.79	7.51	4.88	0.00003	0.000588	Asb1	chr9
10828477	9.56	7.27	4.88	0.000157	0.001519	Syngap1	chr20
10916379	7.42	5.15	4.84	0.000074	0.000984	RGD1311744	chr8
10874776	9.95	7.67	4.84	0.000223	0.001896	Acap3	chr5
10770680	7.38	5.11	4.83	0.000373	0.002685	Prox1	chr13
10907795	8.2	5.93	4.83	0.000866	0.00487	Gucyl1a2	chr8
10844082	9.19	6.92	4.82	0.000035	0.000638	Ntng2	chr3
10887054	5.58	3.31	4.82	0.000069	0.000936	Mir380	chr6
10808094	9.47	7.2	4.82	0.00007	0.000944	Hid1	chr19

10735135	10.86	8.59	4.82	0.000109	0.001225	Dlg4	chr10
10842839	10.64	8.38	4.81	0.000003	0.000212	Ogfr	chr3
10868999	7.44	5.17	4.81	0.00034	0.002521	Murc	chr5
10867955	10.27	8	4.8	0.001542	0.007352	Epha7	chr5
10935356	8.4	6.14	4.78	0.000035	0.000636	Slc25a14	chrX
10910505	8.16	5.9	4.78	0.000052	0.000785	Cellf6	chr8
10884309	7.09	4.83	4.78	0.000094	0.001126	Dgkb	chr6
10812954	11.25	8.99	4.78	0.000143	0.001437	Plk2	chr2
10935025	9.42	7.16	4.78	0.000179	0.001656	Bhlhb9	chrX
10804415	9.17	6.92	4.78	0.000833	0.00473	Sema6a	chr18
10811415	9.5	7.24	4.78	0.004538	0.016246	Hsd1l	chr19
10838312	10.54	8.29	4.77	0.00005	0.000767	Mpped2	chr3
10901684	7.22	4.97	4.76	0.000102	0.001175	Ano4	chr7
10893858	10.27	8.02	4.76	0.000131	0.001362	Mex3d	chr7
10891229	9.61	7.36	4.76	0.000148	0.001469	Rps6kl1	chr6
10887636	8.47	6.21	4.76	0.001063	0.00563	Tmem121	chr6
10752919	6.8	4.55	4.75	0.000098	0.001151	Grik1	chr11
10707113	7.94	5.7	4.75	0.000181	0.00167	Kcnc1	chr1
10872101	11.92	9.67	4.75	0.000997	0.005364	Sfpq	chr5
10807014	11.4	9.15	4.74	0.000002	0.000166	Rbmxtl	chr19
10702025	10.56	8.32	4.74	0.000011	0.000359	Ahl1	chr1
10728800	11.01	8.76	4.74	0.000945	0.005178	Tmem132a	chr1
10760877	9.47	7.23	4.72	0.00049	0.003256	RGD1305455	chr12
10749994	5.87	3.64	4.71	0.000529	0.003431	Chodl	chr11
10893661	8.88	6.65	4.7	0.000056	0.000825	Gng7	chr7
10822386	11.11	8.88	4.7	0.015895	0.041884	Pkia	chr2
10814310	9.56	7.33	4.69	0.00009	0.001099	Zfp704	chrU
10934754	6.9	4.67	4.69	0.000182	0.001676	Klhl4	chrX
10761136	8.48	6.25	4.69	0.000254	0.002065	Srrm3	chr12
10931414	10.57	8.34	4.68	0.000004	0.000229	Safb	chr9
10879446	9.52	7.3	4.68	0.000012	0.000377	Exo5	chr5
10878617	11.91	9.68	4.68	0.000013	0.000386	Zyg11b	chr5
10738423	10.33	8.11	4.68	0.00096	0.005236	Rnd2	chr10
10751652	9.68	7.46	4.66	0.000092	0.001111	Fbxo45	chr11
10762442	10.59	8.37	4.65	0.00002	0.000488	Fbxo21	chr12
10900572	8.8	6.59	4.65	0.000029	0.000584	Efna2	chr7
10766556	7.81	5.59	4.65	0.000038	0.000662	Slc30a10	chr13
10801199	8.7	6.48	4.65	0.000131	0.001367	Pcdhb17	chr18
10814655	7.42	5.21	4.64	0.00006	0.000867	Slc7a14	chr2
10867629	8.57	6.36	4.63	0.000024	0.000531	RGD1559441	chr5
10714377	7.21	5	4.63	0.000187	0.001699	Trpm3	chr1
10885560	7.81	5.6	4.62	0.002117	0.009223	Arg2	chr6
10808856	10.38	8.18	4.6	0.000005	0.000247	Gnpat	chr19
10761287	10.37	8.16	4.6	0.000014	0.000404	Gatsl2	chr12
10895241	6.32	4.12	4.6	0.000046	0.00073	Mgat4c	chr7
10871802	9	6.8	4.6	0.000089	0.001098	Pou3f1	chr5
10736557	7.62	5.42	4.6	0.000256	0.002075	Atad5	chr10
10741001	9.94	7.74	4.6	0.000439	0.003004	Tbc1d24	chr10
10813191	7.73	5.53	4.6	0.000992	0.005353	RGD1306227	chr2
10898991	7.93	5.74	4.59	0.000028	0.000567	Ccdc184	chr7
10726465	8.33	6.13	4.59	0.000038	0.000664	Stk32c	chr1
10705791	7.41	5.21	4.58	0.000335	0.002494	Zfp383	chr1
10882978	8.06	5.86	4.57	2.07E-07	0.000085	Galnt14	chr6
10721892	8.58	6.38	4.57	0.000006	0.000271	Sult2b1	chr1
10909616	7.66	5.47	4.57	0.000102	0.001179	Scn2b	chr8
10743715	7.56	5.37	4.57	0.000796	0.004601	Shisa6	chr10
10838039	8.56	6.37	4.57	0.003768	0.014183	Chst1	chr3
10762474	7.63	5.44	4.56	0.000009	0.000335	Ksr2	chr12
10781787	12.53	10.34	4.55	0.000157	0.001519	Matr3	chr15
10838056	11.07	8.88	4.55	0.004168	0.015252	Tp53il1	chr3
10936976	10.41	8.22	4.54	0.000006	0.000257	Pcsk1n	chrX
10882709	10.9	8.72	4.54	0.000009	0.000334	Prkee	chr6
10842254	8.11	5.93	4.54	0.00001	0.000337	Slc12a5	chr3
10851231	9.71	7.53	4.54	0.000044	0.00072	Soga1	chr3
10870847	8.11	5.93	4.54	0.000211	0.001835	Rab3b	chr5
10875154	7.54	5.35	4.54	0.000227	0.001916	St18	chr5
10749533	8.55	6.37	4.53	0.000022	0.000511	Aatk	chr10
10837744	8.72	6.54	4.53	0.000256	0.002077	C1qtnf4	chr3
10791652	10.89	8.71	4.53	0.000379	0.002716	Casp3	chr16
10757100	9.48	7.3	4.52	0.000029	0.000585	Cox19	chr12
10745785	9.35	7.18	4.52	0.000033	0.000622	Znhit3	chr10
10926162	6.98	4.8	4.52	0.000128	0.001347	Kenh8	chr9
10891322	10.7	8.53	4.52	0.002069	0.009063	Irf2bpl	chr6
10721052	9.42	7.24	4.51	0.00003	0.000588	Lrp3	chr1
10720559	9.35	7.18	4.51	0.000139	0.001415	Lrfn3	chr1
10708097	6.85	4.68	4.51	0.000286	0.002238	Mir9-3	chr1
10898622	8.44	6.27	4.5	0.000077	0.001003	Shank3	chr7
10804772	7.37	5.2	4.49	0.000848	0.004794	Iqgap2	chr18
10730591	10.59	8.43	4.48	0.000001	0.000139	Arl3	chr1
10766588	8.08	5.91	4.48	0.000132	0.001369	Esrrg	chr13
10891559	8.28	6.11	4.48	0.000149	0.001473	Eml5	chr6
10813858	6.55	4.39	4.48	0.000682	0.004114	Cdh12	chr2
10759601	9.25	7.09	4.47	6.10E-07	0.000121	Trappc5	chr12
10925933	7.73	5.57	4.47	0.000075	0.00099	Tmem200c	chr9
10707749	12.56	10.4	4.47	0.000084	0.001055	Matr3	chr1
10933609	9.56	7.39	4.47	0.000955	0.005213	Cnksr2	chrX
10801262	8.63	6.47	4.47	0.004852	0.017075	Rel2	chr18
10831868	11.42	9.26	4.46	0.000042	0.000699	Nudt3	chr20
10859590	10.34	8.18	4.46	0.000056	0.000824	Etnk1	chr4
10836145	7.19	5.03	4.46	0.000078	0.001006	Lypd6	chr3
10920313	11.14	8.99	4.45	0.000011	0.00036	Wdr6	chr8

10897752	10.38	8.22	4.45	0.000155	0.001512	Mgat3	chr7
10930918	9.22	7.06	4.45	0.001036	0.005525	Safb2	chr9
10887901	10.91	8.76	4.44	0.00004	0.000685	Cebpz	chr6
10795289	9.52	7.37	4.44	0.000774	0.004515	Hist1h3a	chr17
10775761	10.98	8.83	4.44	0.007925	0.024654	Ceng2	chr14
10712560	10.91	8.76	4.44	0.009811	0.028993	Dhcr7	chr1
10760768	9.96	7.82	4.42	0.000014	0.00041	Zfp157	chr12
10800943	12.53	10.39	4.42	0.000063	0.000891	Matr3	chr18
10879697	8.55	6.41	4.41	0.000142	0.00143	Maneal	chr5
10785531	6.83	4.7	4.41	0.000145	0.001444	Klhl1	chr15
10784334	8.59	6.45	4.4	0.00001	0.00034	Tnfrsf19	chr15
10746087	11.13	8.99	4.4	0.000012	0.000374	Dynll2	chr10
10808312	8.55	6.42	4.4	0.000058	0.000843	Necab2	chr19
10784679	13.54	11.4	4.4	0.000416	0.002891	Dpysl2	chr15
10808167	7.63	5.49	4.4	0.000457	0.003102	Vat1l	chr19
10710647	8.78	6.64	4.4	0.007967	0.024739	Prkcb	chr1
10723413	9.76	7.63	4.4	0.015806	0.041692	Abhd17c	chr1
10706909	7.64	5.5	4.39	0.000019	0.00048	Rasip1	chr1
10938671	9.98	7.84	4.39	0.000077	0.001002	Zmym3	chrX
10856922	9.18	7.04	4.39	0.001399	0.006848	Tprkb	chr4
10759556	9.64	7.51	4.38	0.000719	0.004282	Evi5l	chr12
10767444	9.8	7.67	4.38	0.000867	0.004875	Pfkfb2	chr13
10856764	10.74	8.61	4.38	0.003752	0.014138	Zfp638	chr4
10911005	10.24	8.11	4.38	0.004505	0.016163	Oaz2	chr8
10802520	12.1	9.97	4.37	0.000007	0.000283	Tcf4	chr18
10777726	8.81	6.68	4.37	0.000053	0.000793	RGD1560394	chr14
10857512	7.06	4.94	4.37	0.000232	0.001947	Cntn4	chr4
10812422	11.84	9.71	4.37	0.000659	0.004014	Ssbp2	chr2
10848308	7.41	5.29	4.36	0.000007	0.000276	Gjd2	chr3
10930942	11.77	9.65	4.36	0.000079	0.001021	Ptprs	chr9
10842221	10.08	7.96	4.36	0.000953	0.005207	Pcifl	chr3
10932726	7.08	4.96	4.35	0.000005	0.000257	Trpc5	chrX
10906156	8.16	6.03	4.35	0.000006	0.000271	Mapk11	chr7
10864481	6.98	4.86	4.35	0.000135	0.00139	Cntn3	chr4
10872994	11.01	8.89	4.35	0.000144	0.001442	Hnrnpr	chr5
10764626	12.49	10.37	4.35	0.002529	0.010521	Ivns1abp	chr13
10929835	9.52	7.4	4.34	0.000025	0.000545	Hes6	chr9
10910170	7.31	5.2	4.34	0.000066	0.000915	RGD1562084	chr8
10934555	8.06	5.95	4.34	0.000088	0.00109	Magee1	chrX
10925267	10.28	8.16	4.34	0.006388	0.020946	Agap1	chr9
10864048	8.14	6.03	4.33	4.90E-07	0.000115	Nup210	chr4
10763430	12.1	9.98	4.33	0.000037	0.000653	Hmg1l1	chr13
10828442	10.56	8.45	4.33	0.000205	0.001802	Pfdn6	chr20
10714788	9.42	7.31	4.33	0.000347	0.002556	Cstf2t	chr1
10809942	10.16	8.05	4.33	0.000636	0.0039	Dhps	chr19
10801187	8.08	5.96	4.33	0.00083	0.004725	Pcdhbl1	chr18
10778721	9.59	7.48	4.33	0.014076	0.038128	Ahsa2	chr14
10774375	11.35	9.24	4.32	0.000003	0.00021	Peli1	chr14
10724315	8.82	6.7	4.32	0.000088	0.001086	Hbb	chr1
10787935	9.79	7.67	4.32	0.005799	0.019488	Clcn3	chr16
10766735	10.41	8.3	4.31	0.000002	0.000185	Ints7	chr13
10708809	10.36	8.26	4.31	0.001243	0.006299	Rsfl	chr1
10932517	8.73	6.62	4.3	0.000007	0.000288	Ccdc120	chrX
10829591	10.19	8.09	4.3	0.000032	0.000613	Prmt2	chr20
10929725	10.79	8.69	4.29	0.000083	0.001055	Arl4c	chrU
10832688	8.86	6.76	4.29	0.000149	0.001472	Fam13c	chr20
10887090	6.2	4.1	4.29	0.000172	0.001608	Mir382	chr6
10839405	9.07	6.97	4.29	0.000202	0.00179	Dut	chr3
10744241	7.73	5.63	4.29	0.000225	0.001902	Spem1	chr10
10767243	7.11	5.01	4.29	0.000407	0.002848	Lypd1	chr13
10840684	10.03	7.93	4.29	0.000427	0.002946	Entpd6	chr3
10833588	11.85	9.75	4.29	0.008277	0.025476	Marcks	chr20
10714537	10.72	8.62	4.28	0.000012	0.000374	Smarca2	chr1
10776582	8.02	5.92	4.27	0.000002	0.000177	Slc10a4	chr14
10783062	9.92	7.83	4.27	0.000122	0.001314	Ttc5	chr15
10908919	9.19	7.1	4.27	0.002914	0.011666	Kirrel3	chr8
10903721	7.7	5.61	4.26	0.000023	0.00053	Samd12	chr7
10817512	10.48	8.39	4.25	0.000026	0.000546	Sv2a	chr2
10877921	6.86	4.77	4.25	0.000049	0.000756	Slc24a2	chr5
10808836	9.38	7.29	4.25	0.00059	0.003714	Arv1	chr19
10716087	11.15	9.06	4.25	0.001817	0.008287	Smc3	chr1
10824596	7.6	5.52	4.25	0.003601	0.01371	Rps27	chr2
10763704	7.43	5.35	4.24	0.000041	0.000688	Thsd7b	chr13
10791011	9.68	7.59	4.24	0.000109	0.001225	Cers1; Gdfl	chr16
10735205	9.14	7.06	4.24	0.010653	0.030868	Arrb2	chr10
10927603	9.95	7.86	4.24	0.016242	0.042609	Chst10	chr9
10726596	8.16	6.08	4.23	0.000009	0.000324	Caly	chr1
10738056	11.11	9.02	4.23	0.000022	0.000519	Thra	chr10
10824411	8.21	6.13	4.23	0.000045	0.00073	Hcn3	chr2
10905915	10.55	8.46	4.23	0.000097	0.00114	Ldoc1l	chr7
10783330	10.51	8.43	4.23	0.001224	0.006236	Mettl3	chr15
10826616	11.18	9.1	4.23	0.003131	0.012345	Ank2	chr2
10707992	10.14	8.06	4.22	0.000012	0.000385	Klhl25	chr1
10901458	10.74	8.67	4.22	0.000027	0.000554	Tdg	chr7
10830857	11.65	9.57	4.22	0.000401	0.00282	Gabbr1	chr20
10901083	8.52	6.45	4.21	0.000103	0.001184	Zfp763	chr7
10708693	9.55	7.47	4.21	0.000322	0.002423	Tenm4	chr1
10798943	12.45	10.38	4.21	0.00046	0.00312	Snurf	chr17
10818880	8.13	6.06	4.2	0.000031	0.000602	Prss12	chr2
10815099	9.22	7.15	4.2	0.000183	0.001676	Hspa4l	chr2
10889260	10.39	8.32	4.19	0.000046	0.000731	Fam84a	chr6

10903977	8.15	6.08	4.19	0.000248	0.002037	Fam84b	chr7
10901045	8.59	6.53	4.19	0.001507	0.007226	Zfp799	chr7
10820666	12.11	10.04	4.19	0.002038	0.008967	Hmgcr	chr2
10902952	9.5	7.43	4.19	0.003518	0.013482	Dtx3	chr7
10791046	9.59	7.53	4.18	0.000001	0.000149	Sugp2	chr16
10878754	6.61	4.55	4.18	0.000004	0.000228	Cyp4x1	chr5
10704206	8.55	6.49	4.18	0.000027	0.000563	Zfp606	chr1
10862876	6.67	4.6	4.18	0.000103	0.001184	Il12rb2	chr4
10925725	10.77	8.7	4.18	0.000149	0.00147	Ppip5k2	chr9
10916579	7.28	5.22	4.18	0.000154	0.001509	Grik4	chr8
10855020	9.92	7.85	4.18	0.000259	0.002091	Casp2	chr4
10851943	7.93	5.87	4.17	0.000037	0.000657	Kcnb1	chr3
10905158	11.86	9.8	4.17	0.000078	0.001007	Rbfox2	chr7
10880163	11.99	9.93	4.17	0.000852	0.004812	Nkain1	chrU
10933138	11.1	9.04	4.16	0.000013	0.000386	Smc1a	chrX
10863454	7.65	5.6	4.16	0.00021	0.001831	Sema4f	chr4
10850543	8.56	6.51	4.16	0.007483	0.023593	Napb	chr3
10726794	10.09	8.04	4.14	0.000019	0.000473	Deaf1	chr1
10751757	9.85	7.8	4.14	0.000043	0.000707	Tmem44	chr11
10824686	11.09	9.04	4.14	0.000046	0.000734	Chtop	chr2
10713015	8.78	6.73	4.14	0.000249	0.002045	Gal3st3	chr1
10848891	10.05	8	4.14	0.000338	0.002507	Ttbk2	chr3
10706246	11.12	9.07	4.14	0.010369	0.030202	Cdc42se2	chr1
10840613	7.97	5.93	4.13	0.000125	0.001324	Syndig1	chr3
10720151	7.46	5.42	4.12	0.000002	0.000158	Dll3	chr1
10741608	8.07	6.03	4.12	0.000007	0.000285	Wdr90	chr10
10737266	7.98	5.94	4.12	0.000031	0.000612	Bzap1	chr10
10899174	11.6	9.56	4.12	0.000118	0.001281	Smarcd1	chrX
10861358	7.39	5.35	4.12	0.000389	0.00276	Gpr37	chr4
10820523	7.39	5.35	4.11	0.000437	0.002999	Pde8b	chr2
10813817	5.98	3.94	4.1	0.000024	0.000534	Cdh9	chr2
10803774	9.71	7.68	4.1	0.000046	0.000731	Brd8	chr18
10791406	9.21	7.18	4.1	0.000327	0.002452	Sh3rf1	chr16
10743608	8.67	6.64	4.1	0.000489	0.003254	Zfp286a	chr10
10823196	6.86	4.83	4.09	0.000093	0.001122	Sertm1	chr2
10916156	8.58	6.55	4.09	0.004584	0.016357	Pknox2	chr8
10745424	10	7.97	4.09	0.009732	0.028818	Ssh2	chr10
10718283	8.13	6.1	4.08	0.000003	0.000211	Dll1	chr1
10886252	6.98	4.95	4.08	0.000118	0.001278	Tshr	chr6
10780278	9.9	7.87	4.08	0.000341	0.002523	Thtpa	chr15
10939188	8.55	6.53	4.08	0.00401	0.014816	Nap1l3	chrX
10902441	8.43	6.41	4.07	0.00004	0.000682	Kcnmb4	chr7
10856863	8.17	6.15	4.07	0.000118	0.001282	Emx1	chr4
10865305	9.81	7.78	4.07	0.001297	0.006494	Phc1	chr4
10826249	6.88	4.86	4.06	0.000089	0.001096	Vcam1	chr2
10728676	9.02	7	4.06	0.00034	0.002521	Dagla	chr1
10731140	9.53	7.52	4.05	0.000004	0.000228	Rab11fip2	chr1
10841789	7.81	5.79	4.05	0.000036	0.00065	Ppp1r16b	chr3
10706545	7.96	5.94	4.05	0.000109	0.001225	Syt3	chr1
10745095	10.55	8.54	4.05	0.000124	0.001322	Aldoc	chr10
10740408	10.07	8.05	4.05	0.000127	0.001341	Snn	chr10
10780931	8.52	6.5	4.05	0.000186	0.001698	Kcnrg	chr15
10735036	9.81	7.8	4.05	0.000388	0.002757	Neurl4	chr10
10899487	10.06	8.04	4.05	0.002373	0.010037	Znf740	chr7
10725326	10.13	8.11	4.04	0.000028	0.000566	Thumpd1	chrU
10834817	10.18	8.17	4.04	0.000091	0.00111	Ralgds	chr3
10759852	9.62	7.61	4.04	0.000387	0.002752	Fry	chr12
10853644	11.02	9.01	4.04	0.003999	0.014793	Dync1i1	chr4
10901115	8.31	6.3	4.04	0.004358	0.015779	LOC691422	chr7
10801189	6.9	4.89	4.03	0.000101	0.001171	Pcdhb12	chr18
10813214	12.57	10.56	4.03	0.002465	0.010317	Hmgcs1	chr2
10833147	10.82	8.81	4.03	0.019354	0.048677	Eif4ebp2	chr20
10741610	8.78	6.77	4.02	0.000005	0.000252	Wdr90	chr10
10705806	8.14	6.13	4.02	0.000008	0.000317	Zfp383	chr1
10771475	12.57	10.56	4.02	0.000011	0.000351	Hnrpd	chr14
10719086	9.69	7.68	4.02	0.000017	0.000455	Zfp329	chr1
10747617	9.96	7.95	4.02	0.000839	0.004757	Coa3	chr10
10939435	8.7	6.7	4.02	0.00454	0.016249	Tceal5	chrX
10769723	8.47	6.46	4.01	0.000006	0.000271	Noslap	chr13
10799241	11.17	9.17	4.01	0.000167	0.001585	Idi1	chr17
10905128	9.27	7.26	4.01	0.00144	0.006991	Arhgap39	chr7
10800426	7.21	5.2	4.01	0.008326	0.025586	Ttr	chr18

Genes (Down-regulated)

Transcript Cluster ID	neurons Bi-weight Avg Signal (log2)	BMSCs Bi-weight Avg Signal (log2)	Fold Change	p-value	FDR	Gene Symbol	Chromosome
10706820	8	10	-4.01	0.000051	0.000782	Gys1	chr1
10939744	9.98	11.98	-4.01	0.008267	0.025449	Gpc4	chrX
10850362	8.82	10.82	-4.02	0.000011	0.000356	Rrbp1	chr3
10790305	8.25	10.26	-4.02	0.000419	0.002902	Dph3	chr16
10826779	5.73	7.74	-4.03	0.000069	0.000942	Ccdc109b	chr2
10747531	7.33	9.33	-4.03	0.001934	0.008664	Ptrf	chr10
10708760	7.74	9.74	-4.03	0.002893	0.01161	Alg8	chr1
10768819	5.49	7.5	-4.04	0.002139	0.009298	Mr1	chr13
10871521	8.51	10.52	-4.04	0.00343	0.013221	Slc2a1	chr5
10896551	7.24	9.25	-4.05	0.000017	0.000447	Deptor	chr7
10879726	5.68	7.7	-4.06	0.00011	0.001231	Zc3h12a	chr5
10891104	5.99	8.01	-4.06	0.002807	0.011372	Entpd5	chr6
10890602	6.45	8.47	-4.06	0.006373	0.020914	Tmem30b	chr6
10859636	6.72	8.74	-4.07	0.000006	0.000263	Rassf8	chr4

10740333	8.36	10.39	-4.09	6.73E-07	0.000121	Pdxdc1	chr10
10716803	7.28	9.31	-4.09	0.000024	0.000532	Utrn	chr1
10735344	7.17	9.2	-4.09	0.000027	0.000557	Kif1c	chr10
10840347	11.54	13.57	-4.09	0.000989	0.005339	Dstn	chr3
10800497	9.12	11.16	-4.1	0.0001	0.001162	Galnt1	chr18
10925264	9.33	11.36	-4.1	0.013072	0.036098	Sh3bp4	chr9
10915597	6.3	8.34	-4.11	0.000615	0.003819	Dock6	chr8
10873355	5.97	8.01	-4.12	0.000039	0.00068	Tmco4	chr5
10788053	9.07	11.11	-4.12	0.00009	0.0011	Spes3	chr16
10786710	7.49	9.53	-4.12	0.000212	0.001835	Btd	chr16
10712477	6.17	8.22	-4.12	0.005341	0.018314	Lsp1	chr1
10825091	9.27	11.31	-4.13	0.000025	0.000545	Mrps21	chr2
10931182	7.89	9.94	-4.13	0.000155	0.001512	Trip10	chr9
10889148	6.47	8.52	-4.13	0.001394	0.00684	Ubxn2a	chr6
10821689	5.58	7.63	-4.13	0.00257	0.010622	Ptger4	chr2
10924709	7.05	9.1	-4.13	0.004274	0.015546	Rhbdd1	chr9
10770795	5.6	7.65	-4.14	0.00001	0.000349	Hsd11b1	chr13
10789997	10.51	12.56	-4.14	0.000035	0.000636	Spes1	chr16
10816026	8.23	10.28	-4.14	0.001117	0.005839	Pdgfc	chr2
10857027	8.6	10.65	-4.15	0.001072	0.005662	Nfu1	chr4
10935229	7.24	9.3	-4.16	0.000072	0.000966	Mid2	chr3
10830696	7.26	9.32	-4.16	0.00158	0.007482	Ubxn2a	chrX
10892332	6.03	8.09	-4.16	0.008556	0.026117	Ahnak2	chr6
10923104	8.83	10.89	-4.17	0.005876	0.01968	Wdr75	chr9
10880552	6.15	8.22	-4.18	0.001896	0.008537	Ldlrap1	chr5
10894552	9.32	11.38	-4.18	0.014506	0.039056	Nuak1	chr7
10714264	7.11	9.18	-4.2	0.00033	0.002469	RGD1311863	chr1
10862570	6.28	8.35	-4.2	0.000567	0.003606	Hoxa9l	chr4
10797116	8.52	10.6	-4.2	0.008849	0.026811	Rmi1	chr17
10715667	5.91	7.98	-4.2	0.015069	0.04022	Kazald1	chr1
10778912	7.08	9.16	-4.21	0.000092	0.001114	Chac2	chr14
10857314	10.91	12.98	-4.21	0.000227	0.001913	Slc6a6	chr4
10861109	8.08	10.15	-4.21	0.000365	0.002645	Tmem168	chr4
10856020	8.17	10.24	-4.21	0.000417	0.002894	Ndnf	chr4
10792859	8.23	10.3	-4.21	0.001338	0.006632	Atp11a	chr16
10898179	8.57	10.65	-4.22	0.000056	0.000825	Pacsin2	chr7
10817046	6	8.08	-4.22	0.000106	0.001201	S100a16	chr2
10857140	8.08	10.16	-4.22	0.000118	0.001279	Tpra1	chr4
10908002	7.16	9.24	-4.22	0.000191	0.001724	Maml2	chr8
10740037	5.33	7.4	-4.22	0.00689	0.022201	Rnf213	chr10
10840138	5.6	7.68	-4.24	0.000008	0.000315	Bmp2	chr3
10766959	7.51	9.59	-4.24	0.000299	0.002312	Kdsr	chr13
10718609	7.26	9.34	-4.24	0.000377	0.002709	E2f5	chr2
10733509	5.19	7.28	-4.24	0.002231	0.009589	Shroom1	chr10
10791401	6.55	8.64	-4.25	0.002105	0.009188	Cbr4	chr16
10821105	5.6	7.69	-4.26	0.000441	0.003014	Mast4	chr2
10925324	7.43	9.52	-4.26	0.006359	0.020883	Lrrfp1	chr9
10739977	5.03	7.11	-4.26	0.009561	0.028416	Rnf213	chrU
10776320	7.36	9.46	-4.27	0.00002	0.000489	Rest	chr14
10923799	4.45	6.55	-4.28	0.00484	0.017041	Cd28	chr9
10718459	9.41	11.51	-4.29	0.000042	0.000696	Mob1a	chr8
10768426	6.17	8.27	-4.29	0.000147	0.001464	Hmcn1	chr13
10831606	6.05	8.15	-4.29	0.000206	0.001807	Tap1	chr20
10939465	6.62	8.72	-4.29	0.001433	0.006972	Ubxn2a	chrX
10754214	10.18	12.28	-4.3	0.000005	0.00024	Lrrc58	chr11
10890687	4.43	6.54	-4.3	0.006933	0.022299	RGD1562381	chr6
10894628	5.35	7.46	-4.31	0.001165	0.006014	Glt8d2	chr7
10879467	9.28	11.39	-4.32	0.000034	0.00063	Zmpste24	chr5
10821991	7.53	9.64	-4.32	0.000245	0.002018	Npr3	chr2
10755644	7.13	9.24	-4.33	0.000272	0.002167	Scarf2	chr11
10828714	7.82	9.94	-4.33	0.004934	0.017277	Ppard	chr20
10782704	8.55	10.66	-4.33	0.008095	0.025045	Flnb	chr15
10830515	6.93	9.05	-4.34	0.000299	0.002308	Mical1	chr20
10835624	7.67	9.79	-4.35	0.000164	0.001566	Pthr1	chr3
10709860	6.19	8.31	-4.36	0.001036	0.005525	Swap70	chr1
10775338	8.53	10.66	-4.37	0.000015	0.00043	Pkd2	chr14
10851043	7.46	9.59	-4.37	0.000313	0.002383	Gss	chr3
10712720	5.96	8.08	-4.37	0.00774	0.024224	Unc93b1	chr1
10856424	8.53	10.66	-4.38	0.000035	0.000634	Retsat	chr4
10863093	6.04	8.17	-4.38	0.000039	0.000675	Thns12	chr4
10871103	9.17	11.3	-4.38	0.000423	0.002928	Efcab14	chr5
10819662	6.23	8.36	-4.38	0.003534	0.013523	Syde2	chr2
10831816	7.96	10.1	-4.4	0.000011	0.000359	Bak1	chr20
10935215	6.74	8.87	-4.4	0.000325	0.002444	Mid2	chr3
10907976	5.31	7.45	-4.4	0.013368	0.036698	Pgr	chr8
10843438	5.69	7.83	-4.4	0.015507	0.041107	Uap11l	chr3
10894842	6.41	8.55	-4.41	0.000006	0.000271	Ikbip	chr7
10770443	9.55	11.69	-4.41	0.006191	0.020463	Capn2	chr13
10853292	6.22	8.36	-4.42	0.000131	0.001363	Slc25a40	chr4
10781370	6.95	9.09	-4.42	0.000275	0.002187	Reep4	chr15
10922279	9.08	11.23	-4.42	0.001274	0.006407	Rab23	chr9
10821072	7.3	9.44	-4.42	0.005343	0.018316	Mast4	chr2
10704578	6	8.15	-4.43	0.00019	0.001719	Ccdc8	chr1
10779646	6.04	8.18	-4.43	0.004174	0.015268	Cgrrf1	chr15
10709166	6.68	8.83	-4.44	0.000006	0.000268	Arap1	chr1
10886036	7.1	9.25	-4.44	0.000865	0.004866	Jdp2	chr6
10751459	4.92	7.07	-4.45	0.000202	0.001788	Dtx3l	chr11
10905804	9.9	12.06	-4.46	0.000121	0.001302	Cyb5r3	chr7
10739992	4.29	6.44	-4.46	0.006258	0.020627	Rnf213	chr10
10812775	4.7	6.85	-4.46	0.010111	0.029625	Cd180	chr2
10796445	11.48	13.65	-4.48	2.52E-07	0.00009	Vim	chr17

10783083	6.53	8.69	-4.48	0.000116	0.001269	Tep1	chr15
10746213	5.91	8.08	-4.48	0.000249	0.002045	Stxbp4	chr10
10738451	5.42	7.59	-4.48	0.018905	0.04778	Tmem106a	chr10
10880539	7.39	9.55	-4.49	0.000078	0.001012	Man1c1	chr5
10795233	4.99	7.16	-4.49	0.000079	0.001021	Btn2a2	chr17
10937093	5.74	7.91	-4.49	0.000371	0.00268	Prickle3	chrX
10864540	7.06	9.23	-4.49	0.000653	0.003983	Sumf1	chr4
10839771	10.15	12.32	-4.5	0.000002	0.00019	Slc20a1	chr3
10838512	6.76	8.93	-4.5	0.001141	0.005918	Aven	chr3
10765534	5.63	7.8	-4.5	0.003646	0.01383	Adamts4	chr13
10890441	6.49	8.67	-4.51	0.000091	0.00111	Pygl	chr6
10780205	8.65	10.82	-4.51	0.000096	0.001132	Mmp14	chr15
10733519	8.46	10.64	-4.52	0.00004	0.000682	8-Sep	chr10
10893513	7.96	10.13	-4.52	0.000116	0.00127	Nfic	chr7
10720468	5.41	7.59	-4.52	0.00113	0.005882	Kcnk6	chr1
10779835	5.52	7.7	-4.52	0.001186	0.006096	Ang; Ang2	chr15
10779115	6.84	9.02	-4.53	0.000038	0.000668	Anxa7	chr15
10766437	9.26	11.44	-4.53	0.000585	0.003692	Aida	chr13
10752081	5.95	8.14	-4.53	0.00214	0.009299	Ehhadh	chr11
10747506	8.84	11.03	-4.55	0.00004	0.000685	Stat3	chr10
10831300	7.82	10	-4.55	0.000526	0.003415	Neu1	chr20
10800991	8.67	10.86	-4.55	0.001041	0.005547	Pura	chr18
10925783	8.5	10.69	-4.55	0.001138	0.005909	Man2a1	chr9
10887622	6.32	8.51	-4.55	0.018867	0.047706	Crip1	chr6
10894180	6.03	8.22	-4.56	0.000076	0.000997	Cyp4f5	chr7
10780218	8.61	10.81	-4.57	0.000026	0.000547	Lrp10	chr15
10823742	8.66	10.85	-4.57	0.000809	0.004652	Golim4	chr2
10897504	6.49	8.68	-4.58	0.00008	0.001026	Sh3bp1	chr7
10807174	6.66	8.86	-4.58	0.000113	0.00125	Nol3	chr19
10710135	9.12	11.32	-4.58	0.000232	0.001944	Nucb2	chr1
10806106	8.22	10.42	-4.58	0.000549	0.003522	Tom1	chr19
10782028	8.19	10.38	-4.58	0.002885	0.011584	Dnajc3	chr15
10831909	6.57	8.77	-4.59	0.006366	0.020893	Tead3	chr20
10939002	7.84	10.05	-4.6	0.010671	0.030901	Chmp1b	chrX
10881824	6.34	8.54	-4.61	0.000009	0.000335	H6pd	chr5
10790712	10.74	12.95	-4.61	0.000218	0.001866	Tpm4	chr16
10713904	6.84	9.04	-4.61	0.002569	0.010618	Cyb561a3	chr1
10940411	7.94	10.14	-4.61	0.017482	0.045052	Rpl10	chr1
10807638	8.02	10.23	-4.63	1.14E-07	0.000069	Nfat5	chr19
10835964	8.1	10.31	-4.63	0.000004	0.000228	Nek6	chr3
10897285	6.83	9.04	-4.64	0.000534	0.003457	Scx	chr7
10771004	6.62	8.84	-4.65	0.000003	0.000197	Tmed5	chr14
10725114	8.03	10.24	-4.65	0.000176	0.001638	Pik3c2a	chr1
10878564	6.79	9.01	-4.65	0.000637	0.003904	Cpt2	chr5
10830183	7.83	10.05	-4.66	0.00231	0.009844	Tatdn1	chr20
10757461	8.58	10.81	-4.67	0.000013	0.000386	Plod3	chr12
10853691	7.63	9.85	-4.67	0.000041	0.000695	C1galt1	chr4
10899496	7.95	10.18	-4.68	0.001209	0.00618	Mfsd5	chr7
10785897	7.43	9.65	-4.69	0.000035	0.00064	RGD1563520	chr15
10707873	5.65	7.88	-4.69	0.000207	0.001817	Ttc23	chr1
10788864	7.79	10.02	-4.69	0.000807	0.00464	Tacc1	chr16
10923338	7.57	9.8	-4.7	0.000151	0.001489	Coq10b	chr9
10716168	8.2	10.44	-4.7	0.000167	0.001586	Acsf5	chr1
10815834	8.98	11.21	-4.7	0.000866	0.00487	Mfsd1	chr2
10728280	7.13	9.36	-4.7	0.002341	0.009933	Plcb3	chr1
10799909	8.48	10.71	-4.71	0.000029	0.000577	Pip4k2a	chr17
10814521	7.72	9.96	-4.72	0.00118	0.006069	Nceh1	chr2
10859392	5.64	7.88	-4.72	0.011648	0.033005	Mgst1	chr4
10765335	5.44	7.68	-4.72	0.018669	0.047307	Creg1	chr13
10802416	5.43	7.67	-4.73	0.000047	0.00074	Cidea	chr18
10835158	7.06	9.3	-4.73	0.002047	0.008994	Phyhd1	chr3
10782454	6.91	9.16	-4.73	0.002403	0.010131	Thrb	chr15
10856259	6.97	9.21	-4.73	0.003737	0.014095	Krcc1	chr4
10768138	5.04	7.28	-4.73	0.018775	0.047515	Ptprc	chr13
10899441	6.99	9.23	-4.74	0.000444	0.003033	Tenc1	chr7
10745595	5.53	7.77	-4.74	0.005224	0.018048	Slfn13	chr10
10894606	8.9	11.15	-4.75	0.000394	0.002788	Slc41a2	chr7
10815512	9.15	11.4	-4.75	0.00064	0.003922	Rnf13	chr2
10705739	8.2	10.45	-4.76	0.000002	0.000174	Yif1b	chr1
10915483	6.93	9.19	-4.76	0.000613	0.003808	S1pr2	chr8
10836923	7.03	9.28	-4.76	0.006753	0.021854	Zak	chr3
10900753	9.53	11.79	-4.78	0.000032	0.000614	Ptbp1	chr7
10912245	4.95	7.21	-4.79	0.00007	0.000947	Plscr4	chr8
10843424	8.69	10.95	-4.79	0.006056	0.020124	Dpp7	chr3
10864025	5.23	7.49	-4.8	0.003573	0.013631	Ccdc37	chr4
10856386	8.6	10.87	-4.82	0.000028	0.000564	Tmem150a	chr4
10758830	8.44	10.71	-4.83	0.000009	0.000328	Plbd2	chr12
10796307	6.96	9.23	-4.83	0.000117	0.001275	Camk1d	chr17
10838117	5.34	7.61	-4.83	0.000171	0.001605	Pamr1	chr3
10734349	6.54	8.81	-4.83	0.00022	0.00188	Trim16	chr10
10734475	5.45	7.72	-4.84	0.00022	0.00188	Tmem220	chr10
10822094	6.95	9.22	-4.84	0.001434	0.006972	Fbxl7	chr2
10768573	9.06	11.34	-4.84	0.003883	0.01449	RGD1309104	chr13
10886387	5.91	8.19	-4.85	0.000307	0.002351	RGD1311756	chr6
10931759	7.93	10.21	-4.85	0.000622	0.003846	Gpr108	chr9
10704819	7.3	9.58	-4.85	0.004389	0.015847	Ppp1r13l	chr1
10902885	9.63	11.91	-4.86	3.16E-07	0.0001	Tspan31	chr7
10862578	5.65	7.93	-4.86	0.000523	0.003402	Hoxa11	chr4
10813007	9.08	11.36	-4.87	0.000074	0.000981	Il6st	chr2
10717170	7.78	10.07	-4.87	0.00019	0.001718	Epb41l2	chr1
10809688	6.78	9.07	-4.88	0.000521	0.00339	Adcy7	chr19

10710782	7.44	9.73	-4.88	0.000961	0.005236	Il4r	chr1
10821924	9.69	11.97	-4.88	0.001055	0.005602	Rai14	chr2
10859799	4.18	6.47	-4.88	0.002068	0.009063	Il6	chr4
10867725	8.44	10.73	-4.89	0.000089	0.001098	Tmem64	chr5
10820400	7.97	10.27	-4.9	0.002312	0.009846	Zfyve16	chr2
10754426	5.13	7.42	-4.91	0.000371	0.00268	Parp9	chr11
10920754	7.63	9.94	-4.93	0.000286	0.002239	Rbms3	chr8
10727924	6	8.3	-4.94	0.000007	0.000285	Sipa1	chr1
10739399	7.42	9.72	-4.94	0.000017	0.000452	Ttyh2	chr10
10868595	5.91	8.22	-4.94	0.007774	0.024318	Hrct1	chr5
10757642	9.02	11.33	-4.94	0.009425	0.028095	Hip1	chr12
10868935	9.09	11.4	-4.95	0.000002	0.000171	Sec61b	chr5
10875680	8.05	10.36	-4.95	0.00004	0.000681	Cpne3	chr5
10741841	8.66	10.97	-4.96	0.000005	0.000247	Atp6v0e1	chr10
10894100	6.36	8.67	-4.96	0.000236	0.001968	Ppap2c	chr7
10744281	5.54	7.86	-4.97	0.000896	0.004994	Kctd11	chr10
10832802	5.38	7.7	-4.97	0.001876	0.008475	Egr2	chr20
10822107	6.46	8.77	-4.97	0.014703	0.039519	Fam105a	chr2
10836017	7.46	9.77	-4.98	0.017899	0.045829	Rpl10	chr3
10910482	8.11	10.43	-4.99	0.000002	0.000183	Adpgk	chr8
10840396	8.13	10.45	-4.99	0.000005	0.000257	Sec23b	chr3
10907198	9.52	11.84	-4.99	0.000045	0.000723	Cers5	chrX
10909780	6.19	8.51	-4.99	0.000636	0.0039	RGD1563941	chr8
10829816	7.88	10.2	-5	0.000086	0.001072	Reep3	chr20
10716667	7.15	9.47	-5	0.000321	0.002422	Ust	chr1
10701792	6.32	8.64	-5	0.005633	0.019054	Epm2a	chr1
10734198	7.66	9.99	-5.01	0.000033	0.000624	Map2k3	chr10
10716896	5.64	7.97	-5.01	0.000116	0.001269	Phactr2	chr1
10841416	5.94	8.26	-5.01	0.000795	0.0046	Procr	chr3
10863590	9.09	11.41	-5.02	0.000061	0.00087	Tex261	chr4
10903234	5.29	7.62	-5.02	0.000384	0.002738	Nipal2	chr7
10754164	8.24	10.57	-5.03	0.000002	0.000183	Tmem39a	chr11
10773496	5.1	7.43	-5.03	0.000384	0.002739	Tnip2	chr14
10760397	10.37	12.71	-5.04	0.000396	0.002795	Kdelr2	chr12
10905307	6.25	8.59	-5.05	0.000082	0.001045	C1qtnf6	chr7
10894560	6.82	9.16	-5.06	0.000067	0.000922	Appl2	chr7
10936013	9.31	11.65	-5.08	0.000001	0.000149	Ssr4	chr1
10780360	6.47	8.81	-5.08	0.00082	0.004688	Pck2	chr15
10907815	4.18	6.53	-5.09	0.000251	0.002051	Casp1	chr8
10725242	6.71	9.06	-5.09	0.000293	0.002277	Itipr12	chr1
10759941	6.72	9.06	-5.09	0.000351	0.002579	B3gatl1	chr12
10777034	6.76	9.11	-5.1	0.000003	0.000211	Snim20	chr14
10717402	7.58	9.93	-5.11	0.000029	0.000581	Hddc2	chr1
10877005	10.84	13.19	-5.12	0.000001	0.000142	Txn1	chr5
10780507	6.32	8.68	-5.12	0.000069	0.000939	Nfatc4	chr15
10927780	5.58	7.94	-5.12	0.001196	0.006131	Slc40a1	chr9
10786836	6.21	8.56	-5.12	0.001436	0.006979	Vstm4	chr16
10782901	8.42	10.78	-5.14	6.27E-07	0.000121	Cnih1	chr15
10933809	10.12	12.48	-5.14	0.000167	0.001586	Tmem47	chrX
10798794	6.72	9.09	-5.15	0.002371	0.010029	Svil	chr17
10824041	7.77	10.13	-5.16	0.000021	0.000496	Arfp1	chr2
10803868	6.78	9.15	-5.16	0.000043	0.000705	Sil1	chr18
10783537	5.49	7.85	-5.16	0.004428	0.015953	Slc7a7	chr15
10768357	4.02	6.39	-5.16	0.006272	0.020665	Rgs18	chr13
10746139	9.43	11.8	-5.17	0.000578	0.003653	Scpep1	chr10
10785019	8.11	10.48	-5.18	4.15E-07	0.000112	Slc39a14	chr15
10712548	5.85	8.22	-5.18	0.000046	0.000738	Slc22a18	chr1
10878001	7.05	9.42	-5.18	0.000628	0.003873	Cdkn2b	chr5
10815850	8.63	11	-5.18	0.000629	0.003875	Mfsd1	chr2
10925687	7.78	10.15	-5.18	0.000782	0.004548	Fam174a	chr9
10789594	7.06	9.44	-5.2	0.017836	0.045714	Col4a1	chr16
10899566	9.33	11.71	-5.21	0.000129	0.00135	Prr13	chr7
10865329	4.96	7.34	-5.21	0.002383	0.010071	Apobec1	chr4
10800323	4.82	7.21	-5.21	0.009897	0.029176	RGD1562997	chr18
10887695	9.08	11.47	-5.22	0.000026	0.000552	Esyt2	chr6
10860351	4.63	7.01	-5.22	0.000304	0.002336	Hgf	chr4
10914571	6.64	9.02	-5.23	0.000013	0.000386	Limd1	chr8
10740309	6.8	9.19	-5.23	0.000384	0.002739	Nde1	chr10
10792421	7.22	9.61	-5.24	0.000078	0.001007	Plat	chr16
10824165	6.01	8.4	-5.24	0.000283	0.002228	Pear1	chr2
10794068	9.69	12.09	-5.25	0.000102	0.001179	Lman2	chr17
10762378	5.87	8.26	-5.25	0.000738	0.004362	Tbx3	chr12
10827454	6.54	8.94	-5.26	0.000342	0.002531	Acadm	chr2
10739927	5.87	8.27	-5.26	0.001068	0.005649	C1qtnf1	chr10
10757056	5.31	7.71	-5.27	0.001077	0.005685	Micall2	chr12
10829780	8.54	10.94	-5.27	0.002562	0.010607	Arid5b	chr20
10791250	6.25	8.65	-5.27	0.005869	0.019661	Lpl	chr16
10857626	8.79	11.19	-5.28	0.000063	0.000893	Edem1	chr4
10725387	8.26	10.66	-5.28	0.001331	0.00661	Cdr2	chr1
10842121	6.45	8.85	-5.28	0.005029	0.017509	Dbnidd2	chr3
10807044	6.75	9.15	-5.29	0.000025	0.000543	Arhgap10	chr19
10741302	8.78	11.18	-5.29	0.000162	0.001557	Hn11	chr10
10777209	8.57	10.97	-5.29	0.000448	0.003052	Lap3	chr14
10872131	5.34	7.74	-5.29	0.001062	0.005629	Zmym6nb	chr5
10851486	6.88	9.28	-5.29	0.003591	0.01368	Jph2	chr3
10888953	6.54	8.95	-5.29	0.005581	0.018924	Emilin1	chr6
10815636	9.37	11.78	-5.3	0.000025	0.000542	Mbnl1	chr2
10934700	6.76	9.17	-5.3	0.002027	0.008931	Apool	chrX
10729252	7.37	9.78	-5.31	0.000004	0.000215	Ostf1	chr1
10855008	7.13	9.54	-5.33	0.000399	0.002813	Gstk1	chr4
10869535	5.12	7.53	-5.34	0.000023	0.000527	Tlr4	chr5

10765469	4.26	6.67	-5.34	0.001669	0.007791	Sh2d1b	chr13
10751268	8.08	10.5	-5.35	0.000022	0.000511	Poglut1	chr11
10833180	5.39	7.81	-5.36	0.000021	0.000496	Srgn	chr20
10927842	6.8	9.23	-5.36	0.001087	0.005726	Stat1	chr9
10884080	8.21	10.64	-5.36	0.016692	0.043436	Lamb1	chr6
10787351	8.47	10.89	-5.37	0.000028	0.000576	Colgalt1	chr16
10782043	8.65	11.08	-5.37	0.00003	0.000596	Mbnl2	chr15
10811571	7.22	9.65	-5.37	0.000155	0.001511	Cyba	chr19
10717831	7.16	9.58	-5.37	0.000164	0.001564	Tfb1m	chr1
10729552	5.48	7.91	-5.38	0.000002	0.000187	Glis3	chr1
10745340	5.56	7.99	-5.39	0.000112	0.001247	Evi2b	chr10
10704505	5.55	7.99	-5.4	0.012499	0.034852	Slc1a5	chr1
10729409	6.99	9.43	-5.41	0.010506	0.030533	Tjp2	chr1
10776954	7.34	9.78	-5.45	0.000042	0.000696	Rell1	chr14
10875656	7.07	9.52	-5.45	0.000103	0.001182	Ripk2	chr5
10785263	7.55	10	-5.45	0.00119	0.006109	Lrch1	chr15
10845708	4.82	7.27	-5.46	0.000029	0.000581	Ifih1	chr3
10908896	6.96	9.41	-5.46	0.001319	0.006568	Ets1	chr8
10712340	9.84	12.29	-5.47	0.001954	0.008735	Cd151	chr1
10794016	8.18	10.63	-5.47	0.017948	0.0459	Pdlim7	chr17
10774992	7.51	9.96	-5.48	0.000999	0.005373	Fgfr1l	chr14
10862564	5.93	8.39	-5.49	0.00027	0.002157	Hoxa6	chr4
10866988	6.97	9.43	-5.5	0.000852	0.004812	Tmtc1	chr4
10836404	7.33	9.79	-5.5	0.003631	0.013798	Tank	chr3
10812021	10.31	12.78	-5.51	0.000316	0.002396	Itgb1	chr19
10883801	9.01	11.47	-5.52	0.000667	0.004043	Hpcal1	chr6
10802347	9.23	11.7	-5.53	0.000006	0.000272	Lman1	chr18
10829653	7.12	9.59	-5.53	0.000184	0.001686	Gstt2	chr20
10779654	7.8	10.27	-5.54	0.000304	0.002336	Samd4a	chr15
10712986	6.36	8.83	-5.54	0.017652	0.045384	Rin1	chr1
10769870	8.74	11.21	-5.55	0.000003	0.000213	Nit1	chr13
10793840	8.65	11.12	-5.55	0.000123	0.001319	RGD1311345	chr17
10740018	5.48	7.95	-5.55	0.003309	0.012896	Rnf213	chr10
10714413	6.15	8.63	-5.57	0.001321	0.006576	Klf9	chr1
10741330	5.98	8.45	-5.57	0.011864	0.033465	Tmem204	chr10
10906590	7.67	10.15	-5.57	0.015271	0.040635	Rpl10	chr7
10800993	7.31	9.79	-5.59	0.000049	0.000759	Cystm1	chr18
10897723	5.33	7.81	-5.59	0.000109	0.001225	Apobec3b	chr7
10703139	7.75	10.23	-5.59	0.00092	0.005093	Rnaset2	chr1
10906439	7.78	10.26	-5.59	0.00253	0.010524	Slc2a13	chr7
10779638	7.12	9.61	-5.61	0.00845	0.025883	Cdkn3	chr15
10871785	7.12	9.61	-5.62	0.000021	0.000496	Mycbp	chr5
10921899	6.3	8.79	-5.62	0.000106	0.001208	Runx2	chr9
10897096	5.87	8.36	-5.62	0.000685	0.004125	Gsdmd	chr7
10714222	6.05	8.54	-5.64	0.000006	0.000276	Prune2	chr1
10910708	7.45	9.94	-5.64	0.000067	0.000921	Cln6	chr8
10767876	4.7	7.2	-5.64	0.000489	0.003254	Ptprv	chr13
10883651	8.28	10.77	-5.64	0.000795	0.004601	Nbas	chr6
10746955	7.24	9.74	-5.65	0.0017	0.007907	Nr1d1	chr10
10899248	7.93	10.44	-5.67	0.00001	0.000349	Atf1	chr7
10877907	6.98	9.49	-5.68	6.94E-07	0.000124	Plin2	chr5
10854190	5.85	8.35	-5.68	0.000001	0.000153	Irf5	chr4
10864331	7.59	10.1	-5.68	0.000496	0.003283	Eogt	chr4
10707790	6.19	8.7	-5.7	0.000028	0.00057	Pcsk6	chr1
10803666	6.56	9.07	-5.71	0.000026	0.000554	Gypc	chr18
10814644	7.29	9.81	-5.71	0.001539	0.007342	Eif5a2	chr2
10912218	5.38	7.89	-5.73	0.001269	0.006394	Plscr1	chr8
10935125	5.79	8.31	-5.74	0.005032	0.017514	Mum1l1	chrX
10840043	6.85	9.37	-5.75	0.000009	0.000334	Mavs	chr3
10794866	5.56	8.08	-5.75	0.000489	0.003255	Serpina1a	chr17
10712853	5.61	8.14	-5.75	0.001759	0.00811	Clcf1	chr1
10894333	5.18	7.71	-5.76	0.013993	0.037961	Myo1f	chr7
10711791	7.39	9.92	-5.77	0.000002	0.000166	Dock1	chr1
10829470	7.02	9.55	-5.78	0.000089	0.001097	Col6a2	chr20
10744127	6.77	9.3	-5.78	0.007366	0.023334	Cd68	chr10
10852554	8.3	10.84	-5.8	0.00006	0.000863	Uck1l	chr3
10813934	8.5	11.03	-5.8	0.000425	0.002938	Fam134b	chr2
10816807	6.74	9.28	-5.82	0.000038	0.000664	Pbxip1	chr2
10754010	7.01	9.55	-5.82	0.000046	0.000731	RGD1311458	chr11
10855472	6.45	8.99	-5.82	0.000174	0.001621	Fam221a	chr4
10798850	5.87	8.41	-5.84	0.000094	0.001126	Bambi	chr17
10732889	5.65	8.2	-5.84	0.00017	0.001598	C1qtnf2	chr10
10725519	7.32	9.87	-5.85	7.62E-07	0.000125	Arhgap17	chr1
10767518	5.35	7.9	-5.85	0.00006	0.000861	Ikbke	chr13
10772274	8.51	11.06	-5.85	0.000106	0.001207	Chic2	chr14
10886573	6.53	9.08	-5.85	0.000471	0.00317	Ifi27	chr6
10748861	5.57	8.12	-5.87	0.000004	0.000232	Cd300le	chr10
10914011	7.5	10.05	-5.88	4.59E-07	0.000113	Cmtm6	chr8
10739796	6.09	8.64	-5.88	0.000092	0.001112	Sphk1	chr10
10887492	6.43	8.99	-5.88	0.00022	0.00188	Inf2	chr6
10751295	5.16	7.72	-5.89	0.014412	0.038848	Pla1a	chr11
10927230	7.74	10.3	-5.9	0.001448	0.00702	Bag2	chr9
10871540	7.25	9.81	-5.91	0.000118	0.001282	Lepre1	chr5
10743318	6.38	8.94	-5.92	0.000047	0.000747	Shmt1	chr10
10727977	6.73	9.29	-5.92	0.001662	0.00777	Ehbp1l1	chr1
10789727	7.12	9.69	-5.93	0.000032	0.000614	Zcche24	chr16
10797499	7.62	10.18	-5.93	0.0015	0.007199	Ror2	chr17
10850613	8.02	10.59	-5.94	0.000101	0.00117	Rnaset2	chr3
10842203	9.46	12.03	-5.94	0.000302	0.002325	Ctsa	chr3
10837351	5.33	7.9	-5.94	0.000521	0.003393	Slc43a1	chr3
10772768	5.06	7.63	-5.94	0.000813	0.004663	Tlr6	chr14

10876147	6.2	8.77	-5.95	0.000024	0.000532	RGD1309821	chr5
10715787	6.35	8.92	-5.95	0.000099	0.001157	Nfkb2	chr1
10877069	6.9	9.48	-5.96	0.000199	0.001772	Lpar1	chr5
10764891	4.8	7.38	-5.96	0.000214	0.00185	Sec16b	chr13
10920056	5.42	8	-5.96	0.001381	0.006797	Mapkapk3	chr8
10914823	6.86	9.43	-5.96	0.003798	0.014273	LOC654482	chr8
10916000	5.69	8.27	-5.98	0.000205	0.001802	Fli1	chr8
10833523	9.55	12.13	-5.99	0.000028	0.00057	Lims1	chr20
10938935	7.69	10.28	-6	0.00007	0.00095	Magt1	chrX
10937903	4.28	6.87	-6.02	0.000047	0.000747	Gpr64	chrX
10784164	8.15	10.75	-6.05	0.000839	0.004759	Lats2	chr15
10876616	6.29	8.89	-6.05	0.000878	0.004924	Tbc1d2	chr5
10764104	8.27	10.87	-6.06	0.000007	0.000288	Cyb5r1	chr13
10933366	8.96	11.56	-6.07	0.001177	0.006057	Rab9a	chrX
10914877	6.58	9.18	-6.09	0.000244	0.002015	Arhgap42	chrU
10733730	7.73	10.34	-6.1	0.0001	0.001163	Galnt10	chr10
10828162	5.73	8.34	-6.1	0.000273	0.002176	Cfb; C2	chr20
10925609	7.65	10.26	-6.14	0.000023	0.000531	Farp2	chr9
10819245	5.54	8.15	-6.14	0.002771	0.011256	Manba	chr2
10891765	4.8	7.42	-6.16	0.000177	0.001639	Tc2n	chrU
10855469	7.03	9.65	-6.16	0.000586	0.003697	Ccdc126	chr4
10806899	4.86	7.48	-6.16	0.012431	0.034715	Il15	chr19
10851484	7.25	9.88	-6.18	0.005694	0.019199	Jph2	chr3
10738972	6.75	9.38	-6.19	0.000033	0.000624	Mrc2	chr10
10873706	5.61	8.24	-6.19	0.000592	0.003718	Epha2	chr5
10716785	5.96	8.59	-6.19	0.004249	0.01548	Rab32	chr1
10732966	8.63	11.26	-6.19	0.00539	0.018441	Adam19	chr10
10847572	7.82	10.45	-6.2	0.00001	0.000337	Cd82	chr3
10715889	8.65	11.29	-6.2	0.012473	0.0348	Cnm2	chr1
10751469	5.14	7.77	-6.21	0.000034	0.00063	Parp14	chr11
10767577	6.14	8.78	-6.22	0.003237	0.01268	Cdk18	chr13
10855785	8.61	11.25	-6.23	0.000007	0.000278	Fkbp9	chr4
10785176	7.47	10.11	-6.23	0.000076	0.000996	Dpm3	chr15
10816766	7.47	10.11	-6.23	0.000076	0.000996	Dpm3	chr2
10845814	5.54	8.18	-6.24	0.006657	0.021636	Galnt3	chr3
10707707	6.67	9.31	-6.25	0.000023	0.000523	Mtmr10	chr1
10882475	5.29	7.93	-6.25	0.000024	0.000533	Rmdn2	chr6
10875751	6.68	9.33	-6.25	0.000308	0.002354	Tstd3	chr5
10832838	6.8	9.45	-6.27	0.000153	0.001502	Plin3	chr20
10827517	5.78	8.43	-6.29	0.009055	0.027327	Cth	chr2
10782271	5.67	8.33	-6.3	0.001935	0.008664	Plau	chr15
10822530	4.25	6.91	-6.3	0.007986	0.024774	Naaladl2	chr2
10736679	6.97	9.63	-6.31	0.000017	0.000456	Tmem98	chr10
10837175	6.4	9.07	-6.33	0.000217	0.001864	Ssfa2	chr3
10939480	6.46	9.12	-6.33	0.000362	0.00263	More4	chr3
10878926	8.01	10.67	-6.34	0.000009	0.000328	Urod	chr5
10739313	7.54	10.2	-6.35	0.000049	0.000756	Wipi1	chr10
10738530	8.53	11.2	-6.35	0.000106	0.001208	G6pc3	chr10
10799736	9.83	12.5	-6.35	0.000313	0.002383	Rsu1	chrU
10793140	7.21	9.88	-6.36	0.000011	0.000355	Lamb2	chr8
10816959	9.38	12.05	-6.37	0.000003	0.0002	Slc39a1	chr2
10858315	7.14	9.81	-6.37	0.000094	0.001126	Il17ra	chr4
10853554	4.53	7.2	-6.38	0.00012	0.001293	Gng11	chr4
10882882	8.08	10.76	-6.38	0.000255	0.002074	Uap1	chr6
10853396	4.77	7.44	-6.39	0.000488	0.003253	Steap1	chr4
10723240	5.18	7.85	-6.39	0.000786	0.004563	Cpeb1	chr1
10784065	6.32	9	-6.39	0.006278	0.02068	Gzmb	chr15
10821650	4.93	7.61	-6.4	0.000309	0.002356	Fbxo4	chr2
10770342	6.56	9.24	-6.4	0.000479	0.003205	Ephx1	chr13
10767763	6	8.68	-6.4	0.007108	0.022709	Prelp	chr13
10792268	7.88	10.56	-6.42	0.000657	0.004005	Ppapdc1b	chr16
10791565	5.96	8.64	-6.43	0.000059	0.000857	Vegfc	chr16
10898889	8.7	11.39	-6.46	0.000039	0.000679	Ano6	chr7
10919090	8.15	10.84	-6.46	0.000059	0.000854	Pgm3	chr8
10885029	5.57	8.26	-6.46	0.000737	0.004358	Frmf6	chr6
10754987	4.51	7.2	-6.47	0.000102	0.001176	Hrasls	chr11
10859693	7.29	9.98	-6.47	0.000297	0.002303	Ppfibp1	chr4
10938654	4.13	6.82	-6.47	0.000748	0.004406	Il2rg	chrX
10765390	7.93	10.62	-6.48	0.00063	0.003876	Tmco1	chr13
10810029	7.01	9.71	-6.49	0.001047	0.005565	Dnase2	chr19
10727505	6.23	8.93	-6.5	0.000009	0.000335	Ssh3	chr1
10910960	6.51	9.21	-6.5	0.000332	0.002478	Rasl12	chr8
10939842	4.52	7.22	-6.5	0.009328	0.027914	Map7d3	chrX
10819653	8.11	10.81	-6.51	0.000042	0.000696	Bcl10	chr2
10834982	6.34	9.04	-6.51	0.000091	0.001108	Cercam	chr3
10780919	5.46	8.16	-6.51	0.004641	0.016508	Arl11	chr15
10899387	8.25	10.95	-6.51	0.005657	0.01911	Nr4a1	chr7
10753279	5.6	8.3	-6.52	0.000018	0.000458	Erg	chr11
10899913	6.73	9.43	-6.53	0.000017	0.000447	Dgka	chr7
10876011	9.22	11.93	-6.54	0.000007	0.000282	Ndufb6	chr5
10773716	7.99	10.71	-6.56	0.000049	0.000759	Selm	chr14
10937734	6.51	9.23	-6.57	0.000093	0.001115	Pir	chrX
10872489	5.53	8.24	-6.57	0.014381	0.038792	Laptn5	chr5
10722903	9.13	11.85	-6.58	0.000375	0.0027	Mfge8	chr1
10720274	10.43	13.15	-6.59	0.000476	0.00319	Actn4	chr1
10906626	6.72	9.44	-6.59	0.002878	0.011567	Slc38a4	chr7
10894660	7.81	10.53	-6.6	0.000812	0.004662	Nt5dc3	chr7
10911042	7.99	10.71	-6.61	0.000085	0.001067	Fam96a	chr8
10842885	6.09	8.81	-6.62	0.000022	0.000515	Slc17a9	chr3
10902662	5.5	8.23	-6.62	0.00309	0.012219	Irak3	chr7
10899378	5.89	8.63	-6.65	0.000002	0.000161	Grasp	chr7

10803991	5.68	8.41	-6.65	0.010882	0.031359	Cd14	chr18
10907122	7.3	10.04	-6.66	0.000142	0.001431	Fmnl3	chrX
10714694	4.68	7.42	-6.68	0.000126	0.001335	Cd274	chr1
10723032	6.83	9.57	-6.69	0.000012	0.000375	Cib1	chr1
10866724	5.3	8.05	-6.69	0.000131	0.001362	Abcc9	chr4
10802065	6.22	8.96	-6.69	0.013352	0.036667	Csf1r	chr18
10823538	6.13	8.87	-6.7	0.000127	0.001343	Shox2	chr2
10847562	9.05	11.79	-6.71	0.000004	0.000229	Tspan18	chr3
10889877	7.71	10.46	-6.74	0.000008	0.000315	Heatr5a	chr6
10896056	8.4	11.15	-6.74	0.000018	0.000458	Laptm4b	chr7
10779818	8.25	11	-6.74	0.000054	0.000807	Pnp	chr15
10745202	7.46	10.21	-6.74	0.000057	0.000837	Rab34	chr10
10723383	6.2	8.96	-6.74	0.001862	0.008438	Cemip	chr1
10791579	7.62	10.38	-6.77	0.000083	0.001055	Aga	chr16
10712157	5.49	8.26	-6.78	0.000111	0.001236	Athl1	chr1
10887486	6.47	9.24	-6.81	0.000164	0.001564	Inf2	chr6
10852144	8.9	11.67	-6.83	0.000379	0.002713	Pmepa1	chr3
10737411	6.28	9.05	-6.84	0.00018	0.001657	Trim25	chrU
10899354	5.74	8.51	-6.84	0.001278	0.006422	Acvr1l	chr7
10763889	7.12	9.89	-6.85	0.000475	0.003187	Nuak2	chr13
10761978	6.32	9.1	-6.85	0.00116	0.005993	P2rx4	chr12
10826814	8.86	11.64	-6.86	0.000033	0.000624	Ostc	chr2
10710006	8.13	10.91	-6.87	0.00109	0.005737	Tead1	chr1
10810503	7.07	9.86	-6.88	0.000006	0.000263	Slc10a7	chr19
10902708	5.23	8.01	-6.88	0.0009	0.005012	Rassf3	chr7
10838506	9.17	11.96	-6.89	0.000003	0.000201	RGD1305045	chr3
10789591	5.14	7.93	-6.91	0.000812	0.004662	Rab20	chr16
10708485	5.75	8.54	-6.92	0.000021	0.000496	Nox4	chr1
10752852	6.55	9.35	-6.94	0.000014	0.000404	Adamts5	chr11
10801980	5.42	8.22	-6.95	0.003716	0.014027	MGC105567	chr18
10857984	4.91	7.71	-6.96	0.000019	0.000475	Pparg	chr4
10707338	6.36	9.16	-6.96	0.000096	0.001136	Gas2	chr1
10867026	4.74	7.53	-6.96	0.017806	0.045666	Bhlhe41	chr4
10724745	7.37	10.17	-6.99	0.010254	0.029948	St5	chr1
10776904	7.63	10.44	-7	0.000013	0.000391	Klf3	chr14
10907952	7.77	10.58	-7	0.000215	0.001856	Tmem123	chr8
10781882	7.21	10.02	-7	0.000974	0.005288	Cln5	chr2
10820693	7.65	10.46	-7.01	0.003098	0.012241	Hexb	chr2
10724529	7.88	10.69	-7.02	0.008026	0.024876	Tpp1	chr1
10853324	5.83	8.65	-7.03	0.000013	0.000392	Abcb1b	chr4
10791604	7.42	10.24	-7.03	0.000324	0.002433	Dctd	chr16
10714103	5.58	8.39	-7.03	0.018823	0.047607	Mpeg1	chr1
10830554	8.96	11.77	-7.05	0.000118	0.001279	Cd164	chr20
10909210	6.17	8.99	-7.05	0.000536	0.003464	Vwa5a	chr8
10807601	6.61	9.43	-7.07	0.000036	0.000643	Sntb2	chr19
10856415	6.69	9.51	-7.08	0.00007	0.000949	Capg	chr4
10737380	8.07	10.9	-7.08	0.000501	0.003308	Rnft1	chr10
10824499	5.96	8.78	-7.08	0.001022	0.005468	Zbtb7b	chr2
10862415	6.48	9.31	-7.08	0.009607	0.028526	Tmem176b	chr4
10887831	7.28	10.1	-7.08	0.01282	0.035544	Fez2	chr6
10788583	6.99	9.81	-7.09	0.00001	0.00035	Ubxn8	chr16
10820073	6.61	9.44	-7.11	0.00017	0.0016	Arsk	chr2
10724208	8.24	11.08	-7.13	0.001833	0.008342	Rhog	chr1
10778028	8.55	11.38	-7.13	0.002044	0.008988	Tcn2	chr14
10739455	5.64	8.47	-7.13	0.004192	0.015319	Gprc5c	chr10
10759018	8.91	11.74	-7.14	0.000154	0.001507	Mlec	chr12
10931919	9.68	12.52	-7.15	0.00001	0.00035	Lamp2	chrX
10721188	5.51	8.35	-7.16	0.000058	0.000845	Plekhf1	chr1
10864459	7.9	10.74	-7.17	0.003235	0.012673	Pdzrn3	chr4
10804132	6.5	9.34	-7.18	0.000105	0.001198	Nr3c1	chr18
10859641	5.48	8.32	-7.18	0.002043	0.008985	Sspn	chr4
10817711	7.93	10.77	-7.19	0.000002	0.000174	Notch2	chr2
10899599	5	7.85	-7.22	0.000012	0.000375	Hoxc9	chr7
10910490	7.79	10.65	-7.22	0.000016	0.000439	Hexa	chr8
10854108	8.93	11.78	-7.22	0.000017	0.000452	Calu	chr4
10798199	6.11	8.97	-7.23	0.000013	0.000386	Mboat1	chr17
10929267	4.91	7.77	-7.24	0.000168	0.001586	Ap1s3	chr9
10921141	6.06	8.92	-7.24	0.000278	0.002202	Fyco1	chr8
10762747	4.86	7.73	-7.26	0.002572	0.010627	Oasl2	chr12
10906934	6.23	9.09	-7.29	0.000527	0.003419	Fkbp11	chrX
10775001	8.04	10.91	-7.3	0.001365	0.006741	Idua	chr14
10771224	7.56	10.43	-7.3	0.003729	0.014071	Hsd17b11	chr14
10930421	8.64	11.51	-7.3	0.004407	0.015892	Myl12a	chr9
10768177	7.11	9.98	-7.31	0.000061	0.000871	Nek7	chr13
10765399	8.69	11.56	-7.32	0.000589	0.003709	Aldh9a1	chr13
10907211	8.45	11.32	-7.33	0.000187	0.001704	Lima1	chrX
10860765	7.59	10.47	-7.33	0.001216	0.006204	Cdk6	chr4
10782852	9.06	11.93	-7.34	0.00158	0.00748	Fermt2	chr15
10904812	6.94	9.82	-7.36	0.000024	0.000531	Plec	chr7
10911250	5.89	8.77	-7.37	0.000019	0.00047	Rora	chr8
10868552	7.21	10.09	-7.38	0.000002	0.00018	Npr2	chr5
10715452	6.94	9.82	-7.38	0.000132	0.00137	Avpi1	chr1
10929541	5.83	8.71	-7.38	0.000968	0.005268	Sp110	chr9
10918288	6.88	9.77	-7.4	0.000068	0.000934	Plekho2	chr8
10885404	5.16	8.05	-7.4	0.001108	0.005804	Ppp1r36	chr6
10864302	7.21	10.1	-7.42	0.00006	0.000868	Suclg2	chr4
10872307	6.52	9.41	-7.42	0.001025	0.005478	Sync	chr5
10813236	4.9	7.79	-7.43	0.001996	0.008864	Sepp1	chr2
10929105	7.31	10.2	-7.45	0.000002	0.000178	Glb1l	chr9
10932773	6.17	9.07	-7.46	0.000358	0.002612	Chrdl1	chrX
10791786	9.73	12.63	-7.47	0.000093	0.001122	Fat1	chr16

10869303	6.1	9	-7.49	0.001586	0.0075	Slc31a2	chr5
10912088	5	7.91	-7.5	0.000661	0.004022	Nt5e	chr8
10804319	6.21	9.13	-7.55	0.000945	0.005178	Mcc	chrU
10914853	7.34	10.26	-7.56	0.000044	0.00072	Arhgap42	chr8
10930411	6.7	9.62	-7.56	0.000226	0.001909	Tgif1	chr9
10848038	4.93	7.85	-7.57	0.000725	0.004307	Fibin	chr3
10804125	7.28	10.2	-7.57	0.011204	0.032046	Spry4	chr18
10714900	5.38	8.3	-7.58	0.000493	0.003269	Ifit2	chr1
10828154	7.6	10.52	-7.59	0.001381	0.006797	Hspa1b	chr20
10907574	6.65	9.58	-7.6	0.000128	0.001349	Rarg	chr7
10877992	4.66	7.59	-7.61	0.000013	0.000392	Mir31	chr5
10713045	6.59	9.51	-7.61	0.00285	0.011501	Fosl1	chr1
10936086	9.94	12.87	-7.63	0.001335	0.006619	Flna	chr1
10840183	7.77	10.71	-7.66	0.017519	0.045129	Plcb4	chr3
10783583	6.51	9.45	-7.67	0.000012	0.000382	Ajuba	chr15
10715416	6.28	9.22	-7.68	0.000039	0.000678	Loxl4	chr1
10795384	7.76	10.7	-7.68	0.000081	0.00103	Epdr1	chr17
10773290	7.38	10.33	-7.7	0.000014	0.000404	Wfs1	chr14
10724042	6.16	9.11	-7.7	0.000075	0.000992	P2ry2	chr1
10810591	5.98	8.93	-7.71	0.000012	0.000382	Fhod1	chr19
10901231	7.53	10.48	-7.73	0.001239	0.006282	Timp3	chr7
10744995	5.99	8.94	-7.73	0.00438	0.015828	Fam101b	chr10
10916247	5.26	8.21	-7.74	0.001771	0.008144	Panx3	chr8
10863187	8.28	11.24	-7.75	0.003424	0.013206	Rnf181	chr4
10824769	6.59	9.54	-7.75	0.003899	0.014531	Lce11	chr2
10792163	8.16	11.12	-7.76	0.000014	0.000403	Eif4ebp1	chr16
10802567	8.16	11.12	-7.79	0.00001	0.000341	Mbd2	chr18
10857546	8.23	11.19	-7.79	0.004015	0.014829	Itrp1	chr4
10875988	5.12	8.08	-7.8	0.000001	0.000156	Ddx58	chrU
10781014	7.5	10.46	-7.8	0.000015	0.00043	Pinx1	chr15
10894150	6.92	9.88	-7.8	0.000436	0.002991	Syde1	chr7
10847296	8.27	11.24	-7.82	0.000042	0.000698	Slc39a13	chr3
10914811	6.95	9.92	-7.83	0.000049	0.000756	Yap1	chr8
10736802	4.42	7.39	-7.83	0.002881	0.011573	Slfn3	chr10
10876838	6.5	9.47	-7.84	0.000456	0.003092	Klf4	chr5
10768668	7.91	10.88	-7.85	0.000634	0.003893	Lamc1	chr13
10808601	6.74	9.71	-7.85	0.001452	0.007034	Rpl13	chr19
10732750	7.89	10.86	-7.87	0.000021	0.000504	Slit3	chr10
10935555	9.63	12.61	-7.88	0.018319	0.046627	Fhl1	chrX
10818809	6.1	9.08	-7.89	0.002242	0.009627	Bcar3	chr2
10783933	5.88	8.86	-7.9	6.43E-07	0.000121	Adcy4	chr15
10780667	6.26	9.24	-7.9	0.000002	0.000166	Mphosph8	chr15
10897480	5.76	8.74	-7.9	0.000034	0.000627	Cdc42ep1	chr7
10812645	5.14	8.13	-7.9	0.000422	0.002921	Gent4	chr2
10899055	8.27	11.25	-7.9	0.000426	0.002942	Tuba1c	chr2
10724035	5.17	8.15	-7.9	0.000524	0.003406	P2ry6	chr1
10712171	4.82	7.8	-7.9	0.003846	0.014392	Ifitm1	chr1
10802422	7.54	10.52	-7.93	0.00005	0.000766	Tubb6	chr18
10821632	5.15	8.15	-7.96	0.000463	0.003128	Ghr	chr2
10757129	7.99	10.99	-7.97	0.000204	0.001801	Pdgfa	chr12
10775862	8.35	11.35	-7.97	0.014817	0.039749	Parm1	chr14
10859382	6.91	9.91	-7.98	0.000004	0.000221	Dera	chr4
10932366	7.33	10.33	-7.98	0.000727	0.004315	Dynlt3	chrX
10936076	6.58	9.58	-8	0.000016	0.000443	Dnase1l1	chr1
10733564	6.35	9.35	-8	0.000024	0.000532	P4ha2	chr10
10770710	5.82	8.82	-8.02	0.006502	0.021234	Atf3	chr13
10939866	5.49	8.49	-8.04	0.000003	0.000201	Arhgef6	chrX
10826723	5.99	9	-8.05	0.000071	0.000959	Enpep	chr2
10824767	4.93	7.94	-8.06	0.010085	0.029576	Kprp	chr2
10933449	5.34	8.36	-8.14	0.001022	0.005468	Car5b	chrX
10898676	5.45	8.48	-8.15	0.003868	0.014452	Lrrk2	chr7
10786174	5.93	8.96	-8.17	0.000061	0.000872	Anxa11	chr16
10842644	6.85	9.89	-8.18	0.000104	0.001191	Npepl1	chr3
10763587	8.28	11.31	-8.18	0.000129	0.001352	Slc35f5	chr13
10750513	6.57	9.61	-8.19	0.00002	0.000484	Bace2	chr11
10791279	4.72	7.75	-8.21	0.000003	0.000198	Nat1	chr16
10778404	6.74	9.78	-8.21	0.00018	0.001659	Tns3	chr14
10821685	5.14	8.18	-8.23	0.000014	0.000417	Card6	chr2
10727375	6.52	9.57	-8.23	0.000058	0.000843	Tcirg1	chr1
10885851	6.67	9.71	-8.23	0.003127	0.012332	Acot2	chr6
10789929	6.71	9.75	-8.25	0.000003	0.000197	Prked	chr16
10773838	5.13	8.17	-8.25	0.000033	0.000623	Gatsl3	chr14
10902313	5.09	8.13	-8.27	0.000192	0.00173	Glipr1	chr7
10729780	8.03	11.08	-8.32	0.000003	0.000208	Lipa	chr1
10889339	7.8	10.86	-8.36	0.000004	0.000228	Adam17	chr6
10826235	8.09	11.15	-8.37	0.015088	0.040265	S1pr1	chr2
10899726	8.35	11.42	-8.4	0.000047	0.000741	Rbms2	chr7
10750672	6.93	10.01	-8.43	0.000149	0.001474	St3gal6	chr11
10788348	8.65	11.72	-8.44	0.000164	0.001566	Asah1	chr16
10868509	8.6	11.68	-8.47	0.00118	0.006071	Ccdc107	chr5
10888602	8.78	11.86	-8.48	0.007424	0.023464	Lclat1	chr6
10923595	4.94	8.03	-8.5	0.000024	0.000532	Casp8	chr9
10877880	5.37	8.46	-8.5	0.00008	0.001026	Bnc2	chr5
10713796	6.05	9.14	-8.53	0.000593	0.003726	Ahnak	chr1
10739986	5.11	8.2	-8.53	0.004939	0.017292	Rnf213	chr10
10830003	5.66	8.75	-8.53	0.009405	0.028058	Pcbd1	chr20
10841693	5.57	8.67	-8.55	0.001365	0.00674	Lbp	chr3
10713520	7.52	10.62	-8.56	0.000008	0.000316	At13	chr1
10701817	6.6	9.71	-8.59	0.00021	0.001831	Fuca2	chr1
10778505	8.01	11.12	-8.6	0.000027	0.000561	Grb10	chr14
10834731	6.99	10.09	-8.61	0.000832	0.004729	Col5a1	chr3

10921951	7.68	10.79	-8.62	0.000087	0.001086	Cd2ap	chr9
10937624	8.22	11.33	-8.63	0.000671	0.004061	Mid1	chrX
10798010	5.85	8.96	-8.65	0.000163	0.001561	Rreb1	chr17
10937254	8.84	11.96	-8.68	0.000034	0.000627	Pls3	chrX
10796770	4.78	7.9	-8.7	0.000083	0.001055	Apbb1ip	chr17
10765040	7.05	10.18	-8.71	0.000139	0.001416	Gas5	chr13
10853401	6.57	9.69	-8.72	0.000099	0.001155	Steap2	chr4
10928602	7.01	10.13	-8.73	0.000003	0.000201	Acadl	chr9
10702224	5.21	8.34	-8.73	0.00395	0.01467	Enpp3	chr1
10899793	7.37	10.49	-8.75	0.000016	0.000443	Esyt1	chr7
10722619	5.67	8.8	-8.76	0.000671	0.004057	Lrrk1	chr1
10711401	6.42	9.55	-8.77	0.000461	0.00312	Bag3	chr1
10842465	6.43	9.56	-8.78	0.000068	0.00093	Snai1	chr3
10788246	4.79	7.92	-8.78	0.000128	0.001349	Fam149a	chr16
10860457	7.02	10.16	-8.78	0.002632	0.010818	Sema3e	chr4
10813152	6.76	9.89	-8.8	0.000023	0.000527	Emb	chr2
10750808	7.98	11.12	-8.81	0.000016	0.000436	Gng5	chr11
10779673	5.7	8.84	-8.82	0.012073	0.033924	Lgals3	chr15
10704486	7.93	11.08	-8.86	0.000012	0.000373	Gng5	chr1
10787491	6.56	9.71	-8.87	0.001782	0.008175	Ifi30	chr16
10932704	7.31	10.46	-8.9	0.000084	0.001055	Amot	chrX
10856712	8.39	11.55	-8.93	0.00001	0.000338	Bola3	chr4
10881424	5.9	9.07	-8.96	0.000002	0.000188	Tnfrsf1b	chr5
10891834	7.86	11.03	-8.97	0.000449	0.003057	Lgmh	chr6
10855449	7.53	10.7	-8.99	0.003937	0.014633	Gpnhb	chr4
10804821	4.59	7.77	-9.03	0.000926	0.005116	Piezo2	chr18
10926683	5.34	8.51	-9.03	0.004837	0.017037	Pla2g7	chr9
10872843	5.96	9.13	-9.04	0.000017	0.000452	Runx3	chr5
10923580	5.98	9.16	-9.06	0.000192	0.001731	Cflar	chr9
10903246	6.96	10.14	-9.07	0.000319	0.002413	Stk3	chr7
10891530	6.42	9.6	-9.08	0.001461	0.007067	Ptpn21	chr6
10769825	5.7	8.89	-9.08	0.009231	0.027717	Fcer1g	chr13
10816500	8.51	11.69	-9.09	0.000155	0.001512	RGD1303130	chr2
10908319	6.34	9.53	-9.1	0.000019	0.000467	Icam1	chr8
10823838	4.71	7.9	-9.1	0.000214	0.001849	Tmem144	chr2
10766869	5.08	8.26	-9.1	0.007599	0.023863	Cd34	chr13
10865585	5.34	8.52	-9.1	0.013108	0.036179	Cd4	chr4
10737107	6.05	9.24	-9.12	0.001199	0.006143	Tbx2	chr10
10845508	5.14	8.33	-9.13	0.000075	0.00099	Cd302	chr3
10829437	6.78	9.97	-9.14	0.000044	0.000717	Col6a1	chr20
10838538	5.06	8.25	-9.15	0.000054	0.000804	Fmn1	chr3
10868881	6.29	9.48	-9.15	0.015621	0.041353	Coll5a1	chr5
10742348	4.86	8.06	-9.19	0.000012	0.000373	Irgm	chr10
10722992	5.39	8.59	-9.19	0.008897	0.026928	Anpep	chr1
10815308	5.44	8.64	-9.21	0.000237	0.001975	Mgst2	chr2
10805417	6.58	9.78	-9.22	0.00006	0.000863	Nfatc1	chr18
10734270	7.49	10.69	-9.23	0.007386	0.023383	Specc1	chr10
10889560	7.45	10.66	-9.26	0.001322	0.006576	Bcap29	chr6
10896503	6.46	9.67	-9.27	0.002663	0.010906	Aard	chr7
10791893	5.44	8.66	-9.28	0.000035	0.00064	Pdgfrl	chr16
10747347	6.92	10.13	-9.29	0.000013	0.000386	Leprel4	chr10
10871004	6.1	9.33	-9.35	0.000018	0.000458	Spata6	chr5
10830189	7.27	10.49	-9.35	0.000187	0.001703	Gja1	chr20
10729689	6	9.23	-9.36	0.000659	0.004014	Prkg1	chr1
10806151	7.56	10.79	-9.38	0.00051	0.003345	Tpst2	chr12
10793458	8.24	11.47	-9.39	0.000037	0.000657	Ctsl	chr17
10875985	4.02	7.26	-9.41	0.002628	0.010807	Gzmb	chr15
10781849	7.14	10.37	-9.42	0.000029	0.000578	Lmo7	chr15
10711210	6.44	9.68	-9.44	0.000025	0.000546	Hsd3b7	chr1
10835817	5.26	8.5	-9.44	0.001865	0.008446	Ptgs1	chr3
10768269	5.4	8.64	-9.48	0.00212	0.009233	Cfh	chr13
10853797	7.78	11.03	-9.49	0.000142	0.001433	Tes	chr4
10872850	5.71	8.96	-9.53	0.000027	0.000556	Runx3	chr5
10920981	5.65	8.9	-9.53	0.001046	0.005563	Cx3cr1	chr8
10740701	6.96	10.21	-9.55	0.000002	0.000157	Vasn	chr10
10768979	7.47	10.73	-9.56	0.000028	0.000566	Soat1	chr13
10899594	5.59	8.85	-9.58	6.95E-08	0.00006	Hoxc10	chr7
10909994	7.03	10.29	-9.59	0.000007	0.000279	Kdelc2	chr8
10921772	8.19	11.45	-9.6	0.000117	0.001271	Vegfa	chr9
10798160	5.78	9.04	-9.6	0.004095	0.015056	Foxc1	chr17
10788180	4.73	8	-9.61	0.00392	0.01459	Ccdc111	chr16
10781243	7.06	10.33	-9.64	0.000006	0.000275	Kctd9	chr15
10817383	8.21	11.48	-9.65	0.000157	0.001523	Cers2	chr2
10911882	6.55	9.82	-9.69	0.000741	0.004377	Myo6	chr8
10913974	7.52	10.8	-9.7	0.000002	0.000176	Glb1	chr8
10704956	7.07	10.35	-9.7	0.000233	0.001948	Plaur	chr1
10856024	6.5	9.78	-9.73	0.00001	0.00035	Prdm5	chr4
10705874	5.52	8.8	-9.75	0.010474	0.030456	Tyrobp	chr1
10784579	5.75	9.04	-9.76	0.00288	0.011573	Scara3	chr15
10810743	7.03	10.33	-9.83	0.000004	0.000215	Slc12a4	chr19
10866397	6.1	9.39	-9.83	0.001247	0.006313	Mansc1	chr4
10788462	7.02	10.32	-9.84	0.002528	0.010521	Dlc1	chr16
10878635	6.96	10.26	-9.85	0.000236	0.001969	Gpx7	chr5
10903896	7.34	10.64	-9.86	0.000108	0.001218	Fbxo32	chr7
10859766	4.62	7.92	-9.88	0.000008	0.000317	Mettl20	chr4
10825512	6.1	9.4	-9.89	0.000004	0.000231	Vangl1	chr2
10732676	6.57	9.88	-9.9	0.000067	0.000925	Stk10	chr10
10923768	7.28	10.6	-9.96	0.000116	0.001269	Cyp20a1	chr9
10850228	7.92	11.24	-10.02	0.000151	0.001487	Jag1	chr3
10776459	6.74	10.07	-10.07	0.000032	0.000617	Pdgfra	chr14
10880331	6.97	10.3	-10.08	0.000014	0.000414	Wasf2	chr5

10800088	5.68	9.02	-10.12	0.000026	0.000549	Colec12	chr18
10721667	5.98	9.32	-10.14	0.000123	0.001317	Fcgrt	chr1
10931793	5.43	8.78	-10.14	0.013326	0.03662	Cav2	chr4
10853810	5.43	8.78	-10.14	0.013326	0.03662	Cav2	chr4
10749495	6.41	9.76	-10.19	0.001483	0.007146	Lgals3bp	chr10
10930610	3.46	6.81	-10.2	0.000546	0.003511	Alb	chrM
10831090	7.35	10.71	-10.22	0.000137	0.001405	Clic1	chr20
10865685	6.03	9.39	-10.22	0.000162	0.001553	Ltbr	chr4
10889475	4.75	8.11	-10.24	0.002088	0.009127	Pxdn	chr6
10806806	6.31	9.67	-10.27	0.000222	0.001886	Cd97	chr19
10819726	5.73	9.1	-10.37	0.000242	0.002	Ctbs	chr2
10931308	8.46	11.84	-10.4	1.12E-07	0.000069	P4ha1	chr20
10840448	7.01	10.38	-10.41	0.000011	0.000356	Rin2	chr3
10778708	6	9.38	-10.42	0.000002	0.000186	B3gnt2	chr14
10853785	6.79	10.17	-10.44	0.000017	0.000456	Mdfic	chr4
10930984	5.27	8.65	-10.46	0.000141	0.001427	Plin3	chr9
10846340	7.31	10.7	-10.48	4.85E-08	0.00006	Fkbp7	chr3
10881570	6.93	10.33	-10.53	0.000073	0.000972	Agtrap	chr5
10871806	6.66	10.06	-10.56	0.000009	0.000328	Fhl3	chr5
10933349	5.11	8.53	-10.68	0.00302	0.012006	Egfl6	chrX
10824322	7.34	10.76	-10.69	0.000176	0.001638	Lmna	chr2
10809037	4.61	8.03	-10.7	0.000201	0.001783	Cklf	chr19
10785361	4.72	8.14	-10.72	0.001393	0.006836	Lacc1	chr15
10759989	5.21	8.63	-10.72	0.007605	0.023879	Medag	chr12
10751793	5.54	8.97	-10.77	0.002294	0.009795	Lrrc15	chr11
10852636	5.92	9.35	-10.79	0.01486	0.039832	Sqrdl	chr3
10824434	7.45	10.88	-10.82	0.000045	0.00073	Slc50a1	chr2
10921343	7.16	10.59	-10.83	0.002864	0.011546	Rftn1	chr9
10876337	7.47	10.91	-10.86	0.000099	0.001159	Tln1	chr5
10775407	6.81	10.26	-10.89	0.000005	0.000249	Aff1	chr14
10927692	6.7	10.15	-10.9	0.009174	0.027578	Fhl2	chr9
10863218	5.14	8.59	-10.91	0.000099	0.001155	Vamp8	chr4
10918392	8.52	11.97	-10.91	0.007688	0.024094	Tpm1	chr8
10731531	5.52	8.98	-10.94	0.005746	0.019343	Emp2	chr10
10836354	6.41	9.86	-10.95	0.000024	0.000531	Tanc1	chr3
10929321	6.68	10.13	-10.95	0.008364	0.025674	Dock10	chr9
10929122	7.09	10.55	-10.97	0.000016	0.000439	Tuba4a	chr9
10809524	6.51	9.97	-10.99	0.000026	0.000546	Lpcat2	chr19
10934475	6.43	9.9	-11.06	6.54E-07	0.000121	Nhs12	chrX
10808348	7.22	10.69	-11.06	0.019443	0.048834	Wfdc1	chr19
10727582	5.31	8.79	-11.09	0.000144	0.001441	Rhod	chr1
10910619	5.76	9.23	-11.09	0.015832	0.041738	Uaca	chr8
10862014	5.79	9.26	-11.13	0.000015	0.00043	Parp12	chr4
10825575	6.79	10.27	-11.16	0.000162	0.001552	Olfml3	chr2
10726991	6.23	9.72	-11.24	0.000251	0.002051	H19	chr1
10895773	7	10.5	-11.33	0.000122	0.001309	Lrig3	chr7
10759177	6.91	10.41	-11.35	0.000026	0.000546	Tmem119	chr12
10719616	7.07	10.57	-11.38	0.00003	0.000592	PVR	chr1
10812162	6.34	9.85	-11.41	0.000018	0.000459	Erap1	chr2
10939584	5.54	9.05	-11.43	0.000021	0.000504	Elf4	chrX
10859660	7.23	10.75	-11.44	0.000982	0.005315	Stk38l	chr4
10781441	5.95	9.47	-11.45	0.000275	0.002189	Lpar6	chr15
10918186	5.77	9.28	-11.46	0.000095	0.001127	Smad6	chr8
10858655	6.13	9.65	-11.48	0.000115	0.001265	C1r	chr4
10929766	6.1	9.62	-11.49	0.000078	0.001007	Col6a3	chr9
10813894	7.74	11.26	-11.5	0.000368	0.00266	Myo10	chr2
10890886	6.96	10.49	-11.53	0.000016	0.000443	Zfp361l	chr6
10862561	5.37	8.89	-11.53	0.00004	0.000683	Hoxa5	chr4
10809018	7.31	10.84	-11.55	0.000058	0.000843	Cmtm3	chr19
10704127	6.61	10.14	-11.58	0.000014	0.000406	Cdc42ep5	chr1
10935418	5.31	8.85	-11.61	0.000285	0.002235	Mst4	chrX
10801794	6.15	9.69	-11.62	0.000052	0.000785	Gramd3	chr18
10815321	8.82	12.36	-11.63	0.00497	0.017366	Lhfp	chr2
10821367	7.22	10.77	-11.65	0.000039	0.000678	Gpx8	chr2
10751255	6.54	10.08	-11.66	0.000343	0.002535	Arhgap31	chr11
10784355	6.47	10.01	-11.68	0.000003	0.0002	Ebpl	chr15
10773853	5.82	9.37	-11.69	0.000924	0.005111	Lif	chr14
10756289	6.14	9.68	-11.69	0.001643	0.0077	Stard13	chr12
10798119	4.8	8.35	-11.72	0.001722	0.007986	Nqo2	chr17
10833985	6.27	9.82	-11.75	0.00164	0.007692	Adamts14	chr2
10794599	8.21	11.76	-11.78	0.001566	0.007433	Nedd9	chr17
10901904	7.16	10.72	-11.79	0.000367	0.002656	Elk3	chr7
10940260	5.92	9.49	-11.87	0.000664	0.00403	Renbp	chr1
10782891	5.36	8.93	-11.89	0.004169	0.015256	Bmp4	chr15
10935150	5.74	9.32	-11.91	0.00021	0.001831	Tbc1d8b	chr3
10716880	5.77	9.35	-11.91	0.000415	0.002887	Stx11	chr1
10724967	7.84	11.41	-11.93	0.000004	0.000227	Dkk3	chr1
10920860	6.02	9.6	-11.93	0.000032	0.000613	Myd88	chr8
10915584	6.83	10.41	-12.03	0.000972	0.00528	Kank2	chr8
10872015	6.24	9.83	-12.05	0.000033	0.00062	Eva1b	chr5
10898862	4.79	8.38	-12.06	0.00001	0.000335	Irak4	chr7
10736545	7.8	11.41	-12.19	0.000177	0.001639	Nxn	chr10
10901563	6.53	10.14	-12.2	0.000009	0.000328	Chpt1	chr7
10708349	6.4	10.01	-12.2	0.000021	0.000493	Adamts13	chr1
10889660	6	9.61	-12.2	0.00004	0.000686	Ahr	chr6
10882752	7.97	11.58	-12.22	0.000011	0.000361	Rhoq	chr6
10793475	6.23	9.84	-12.24	0.00012	0.001296	Cdc14b	chr17
10800919	7.55	11.17	-12.24	0.000273	0.002172	Egr1	chr18
10798610	5.53	9.15	-12.28	0.003013	0.011982	Sfrp4	chr17
10718954	4.64	8.27	-12.33	0.004796	0.016921	Lilrb4	chr1
10930660	6.82	10.45	-12.36	0.000003	0.000198	Pros1	chr7

10751498	6.17	9.8	-12.36	0.000116	0.00127	Pdia5	chr11
10845607	7.46	11.1	-12.45	0.000544	0.003501	Rbms1	chr3
10781690	7.27	10.91	-12.5	0.000003	0.000211	Elf1	chr15
10860548	6.77	10.42	-12.51	0.000011	0.000357	Crot	chr4
10916659	6.82	10.47	-12.54	0.000009	0.000329	Oaf	chr8
10810556	5.65	9.31	-12.65	0.000008	0.000315	Tradd	chr19
10838725	6.49	10.15	-12.7	0.00002	0.000481	Chst14	chr3
10884215	6.13	9.8	-12.7	0.000028	0.000564	Twist1	chr6
10847980	7.91	11.58	-12.71	0.000006	0.000273	Rcn1	chr3
10912845	6.33	10	-12.72	0.000206	0.001811	Abhd14b	chr8
10882496	5.74	9.41	-12.73	0.000159	0.001536	Galm	chr6
10756622	5.58	9.26	-12.82	0.000321	0.002423	Baiap21l	chr12
10819905	6.03	9.71	-12.84	0.000063	0.000886	Ptger3	chr2
10830230	5.94	9.62	-12.84	0.003647	0.01383	Smpdl3a	chr20
10880805	6.3	9.99	-12.86	0.000003	0.000209	Alpl	chr5
10902140	4.55	8.23	-12.86	0.006491	0.021208	Ptprq	chr7
10822583	8.06	11.74	-12.87	0.000001	0.000156	Fndc3b	chr2
10936899	5.55	9.23	-12.87	0.007904	0.024612	Cybb	chrX
10886453	5.93	9.62	-12.9	0.001116	0.005832	Rin3	chr6
10715875	4.82	8.51	-12.92	0.000006	0.000271	As3mt	chr1
10770577	8.88	12.57	-12.96	0.0026	0.010723	Tgfb2	chr13
10858165	6.6	10.3	-12.98	0.00595	0.01986	Cxcl12	chr4
10823284	6.96	10.66	-13	0.00001	0.000341	Wwtr1	chr2
10892330	5.55	9.25	-13.03	0.000519	0.003385	Ahnak2	chr6
10843838	5.78	9.49	-13.07	0.000087	0.001079	Agpat2	chr3
10920803	6.91	10.62	-13.08	2.39E-07	0.00009	Plcd1	chr8
10714505	5.99	9.7	-13.09	0.001572	0.007456	Kank1	chr1
10730636	5.39	9.1	-13.12	0.000071	0.000958	Calhm2	chr1
10893258	8.45	12.17	-13.13	0.000017	0.000447	Cd63	chr7
10726726	7.78	11.5	-13.19	0.000001	0.000153	Rnh1	chr1
10771535	7.06	10.79	-13.19	0.000028	0.000568	Antxr2	chrU
10836788	5.62	9.34	-13.2	0.000025	0.000544	Cybrd1	chr3
10713061	7.91	11.63	-13.21	0.000017	0.000447	Efemp2	chr1
10775484	6	9.72	-13.22	0.005678	0.019158	Arhgap24	chr14
10888150	7.1	10.82	-13.23	0.000002	0.000188	Zfp36l2	chr6
10715258	7.1	10.83	-13.24	0.01365	0.037281	Entpd1	chr1
10815425	8.06	11.79	-13.31	0.000003	0.000197	Alg5	chr2
10854406	4.6	8.33	-13.32	0.000136	0.001399	Akr1b8	chr4
10937641	5.6	9.34	-13.39	0.00084	0.004761	Arhgap6	chrX
10817894	6.08	9.83	-13.41	0.010003	0.02941	Ngf	chr2
10817186	8.29	12.04	-13.48	0.000308	0.002352	S100a10	chr2
10768021	5.87	9.63	-13.55	0.001406	0.006874	Pkp1	chr13
10919712	5.16	8.92	-13.56	0.000044	0.000717	Ackr4	chr8
10825809	5.81	9.58	-13.58	0.005818	0.019527	Cd53	chr2
10772408	5.07	8.84	-13.61	0.000004	0.000231	Tec	chr14
10887306	6	9.77	-13.63	0.000473	0.003177	Tnfaip2	chr6
10818502	6.91	10.68	-13.65	0.000003	0.000205	Col11a1	chr2
10742802	9.64	13.41	-13.66	7.23E-09	0.000026	Sparc	chr10
10723156	8.02	11.79	-13.66	0.000121	0.001302	Iqgap1	chr1
10798702	8.5	12.28	-13.78	0.001837	0.008352	Inhba	chr17
10829713	6.28	10.07	-13.85	1.20E-07	0.00007	Bicc1	chr20
10731493	6.58	10.38	-13.87	5.08E-07	0.000115	Litaf	chr10
10835757	7.09	10.89	-13.9	0.000334	0.00249	Gsn	chr3
10755013	6.59	10.38	-13.9	0.013692	0.037352	Il1rap	chr11
10819269	5.13	8.93	-13.92	0.000022	0.000511	Slc39a8	chr2
10793502	4.57	8.38	-14.08	0.000088	0.00109	Slc35d2	chr17
10867461	5.06	8.88	-14.11	0.000577	0.00365	Lyn	chr5
10747550	5.73	9.55	-14.14	0.000292	0.002271	Aarsd1	chr10
10934056	8.64	12.46	-14.18	0.000266	0.002138	Msn	chrX
10734382	8.06	11.89	-14.22	0.000003	0.0002	Pmp22	chr10
10895589	5.55	9.38	-14.25	0.000017	0.000447	Cpm	chr7
10751018	7.07	10.9	-14.25	0.001629	0.007649	Phldb2	chr11
10718591	7.52	11.35	-14.3	0.000019	0.000476	Myadm	chr1
10714456	5.57	9.4	-14.3	0.000351	0.002579	Dock8	chr1
10818920	8.16	12.02	-14.45	0.000327	0.002452	Camk2d	chr2
10777972	6.87	10.73	-14.52	0.00057	0.003623	Smtn	chr14
10830291	5.14	9	-14.53	0.000141	0.001423	Frk	chr20
10853931	4.71	8.58	-14.54	4.08E-08	0.00006	Cped1	chr4
10911524	5.11	8.98	-14.61	0.000572	0.003627	Rab27a	chr8
10729693	4.98	8.86	-14.7	0.000109	0.001227	Asah2	chr1
10837279	7.75	11.64	-14.78	1.10E-07	0.000069	Itgav	chr3
10823548	8.77	12.66	-14.82	0.00839	0.025743	Lxn	chr2
10885015	6.39	10.28	-14.87	0.000055	0.000822	Frmd6	chr6
10708521	5.19	9.08	-14.87	0.001799	0.008227	Ctsc	chr1
10938155	6.21	10.1	-14.88	6.30E-07	0.000121	Prrg1	chrX
10919175	5.62	9.51	-14.89	0.001265	0.006384	Tbx18	chr8
10823555	5.8	9.69	-14.9	0.00252	0.010499	Rarres1	chr2
10872252	5.19	9.09	-14.91	0.000077	0.001003	A3galt2	chr5
10858967	6.22	10.12	-14.92	0.000162	0.001556	Tnfrsf1a	chr4
10909442	6.93	10.83	-14.94	0.000067	0.000922	C1qtnf5	chr8
10917703	8.22	12.13	-15.06	0.000772	0.004504	Peak1	chr8
10907845	5.06	8.97	-15.12	0.000006	0.000272	Pdgfd	chr8
10846781	5.35	9.28	-15.2	0.00003	0.000598	Tfpi	chr3
10739984	4.37	8.29	-15.21	0.002627	0.010807	Rnf213	chr10
10861968	5.29	9.22	-15.25	0.000023	0.00052	Zc3hav1l	chr4
10869656	6.32	10.25	-15.25	0.001434	0.006972	Lurap1l	chr5
10814561	5.46	9.4	-15.36	0.000005	0.000235	Pld1	chr2
10866019	4.87	8.82	-15.45	0.003899	0.014531	Clec7a	chr4
10834031	7.16	11.11	-15.46	0.008787	0.026667	Dusp14	chr10
10920697	6.63	10.59	-15.55	0.00004	0.000683	Cmtm7	chr8
10851599	7.34	11.3	-15.58	0.001396	0.006842	Sdc4	chr3

10788569	5.88	9.84	-15.61	0.000877	0.004922	Rbpms	chr16
10754218	8.97	12.94	-15.67	0.000225	0.001908	Fstl1	chr11
10806122	5.77	9.75	-15.78	0.002562	0.010607	Hmox1	chr19
10919928	6.02	10.02	-15.94	0.000613	0.00381	Parp3	chr8
10901555	5.8	9.8	-15.99	0.000113	0.001249	Dram1	chr7
10713844	7.84	11.84	-16.01	0.000018	0.000464	Fads3	chr1
10900358	6.88	10.88	-16.01	0.00036	0.00262	Gadd45b	chr7
10896558	5.74	9.74	-16.07	6.23E-07	0.000121	Col14a1	chr7
10828827	7.84	11.85	-16.08	0.000007	0.000291	Cdkn1a	chr20
10872972	6.6	10.6	-16.09	0.002651	0.010874	Id3	chr5
10724464	6.94	10.95	-16.12	0.000137	0.001405	Prkcdbp	chr1
10730310	7.24	11.25	-16.16	0.000063	0.000893	Marveld1	chr1
10907825	4.14	8.16	-16.18	0.002114	0.009216	Casp4	chrU
10789442	8.61	12.62	-16.2	0.000029	0.000585	Gas6	chr16
10804316	6.56	10.59	-16.29	0.000519	0.003388	Mcc	chr18
10848429	6.94	10.97	-16.35	0.000011	0.000359	Gpr176	chr3
10707597	6.04	10.08	-16.43	5.43E-08	0.00006	Atp10a	chr1
10860888	7.29	11.33	-16.48	0.000002	0.000171	Pon2	chr4
10938540	6.12	10.16	-16.48	0.000301	0.002318	Eda2r	chrX
10899606	5.31	9.36	-16.54	0.000014	0.000415	Hoxc6	chr7
10716646	6.25	10.31	-16.78	0.000155	0.001512	Ginm1	chr1
10863471	5.68	9.75	-16.84	0.000241	0.001994	Dok1	chr4
10906736	5.18	9.25	-16.84	0.006952	0.022342	Vdr	chr7
10890860	8.84	12.92	-16.88	0.000604	0.003771	Actn1	chr6
10720878	6.15	10.24	-16.98	0.002293	0.009795	Fxyd1	chr1
10719900	7.12	11.21	-16.99	0.000004	0.000229	Axl	chr1
10813119	5.46	9.55	-17.02	0.004653	0.016546	RGD1561161	chr2
10844695	5.17	9.26	-17.07	0.000621	0.003844	Ggta1p	chr3
10702535	7.4	11.5	-17.16	0.002296	0.009802	Nkd2	chr1
10736000	7.91	12.01	-17.2	9.04E-09	0.000028	Myo1c	chr10
10740496	4.68	8.79	-17.2	4.38E-07	0.000112	Rpl39l	chr10
10822481	7.8	11.91	-17.2	0.000114	0.001253	Gyg1	chr2
10707230	6.12	10.23	-17.26	0.000018	0.000458	Htatip2	chr1
10723810	6.1	10.21	-17.32	0.000043	0.000712	Acer3	chr1
10740209	6.07	10.19	-17.38	0.002435	0.010228	Slc16a3	chr10
10849327	7.39	11.51	-17.4	0.000026	0.000552	Fbn1	chr3
10899603	4.69	8.81	-17.4	0.001533	0.00732	Hoxc8	chr7
10923036	5.05	9.17	-17.44	0.000059	0.000854	Gulp1	chr9
10863215	6.18	10.31	-17.52	0.006013	0.020019	Vamp5	chr4
10702361	5.26	9.39	-17.55	0.001943	0.008693	Hey2	chr1
10778179	6.28	10.42	-17.58	0.00224	0.009623	Kremen1	chr14
10911711	4.11	8.25	-17.59	0.000303	0.002326	Bmp5	chrU
10818108	7.32	11.46	-17.63	0.000237	0.00197	Rhoc	chr2
10788453	5.19	9.33	-17.66	0.001049	0.005572	Dlc1	chr16
10724377	6.05	10.2	-17.7	0.000172	0.001608	Trim5	chr1
10759198	5.92	10.07	-17.74	0.004503	0.016162	Cmklr1	chr12
10830253	6.27	10.42	-17.8	0.000045	0.000722	Dse	chr20
10794800	5.66	9.82	-17.85	0.000025	0.000546	Pxdc1	chr17
10782387	6.87	11.03	-17.86	0.01593	0.041955	Nid2	chr15
10766253	5.25	9.41	-17.87	0.000035	0.00064	Tmem63a	chr13
10810553	6.03	10.19	-17.94	0.000026	0.000549	B3gnt9	chr19
10720215	6.33	10.51	-18.08	0.000002	0.000178	Zfp36	chr1
10764228	7.34	11.51	-18.09	0.000067	0.000928	Phlda3	chr13
10728093	5.52	9.71	-18.25	0.000014	0.00041	Capn1	chr1
10882168	5.87	10.06	-18.34	0.000096	0.001132	Mmp23	chr5
10742868	5.63	9.82	-18.36	0.001012	0.005423	Faxdc2	chr10
10920745	6.28	10.49	-18.43	0.000256	0.002074	Tgfbfr2	chr8
10927992	5.27	9.48	-18.48	0.000083	0.001055	Stk17b	chr9
10882859	6.07	10.28	-18.5	0.000077	0.001001	Ston1	chr6
10836606	5.35	9.57	-18.64	0.016807	0.04368	Klhl41	chr3
10847474	6.3	10.53	-18.72	0.000007	0.000288	Creb3l1	chr3
10781321	5.9	10.14	-18.82	0.000098	0.001151	Tnfrsf10b	chr15
10787757	6.42	10.66	-18.99	0.000097	0.001147	Csgalnact1	chr16
10919041	5.89	10.14	-19.02	0.000432	0.00297	Fam46a	chr8
10723884	8.25	12.51	-19.07	3.66E-08	0.000059	Serpinh1	chr1
10816791	7.06	11.32	-19.13	0.000003	0.000211	Shc1	chr2
10781496	5.28	9.55	-19.23	0.003099	0.012242	Lcp1	chr15
10707386	6.73	11	-19.25	0.000036	0.000651	Rhoq	chr1
10822324	5.2	9.48	-19.48	0.01031	0.030069	Chmp4c	chr2
10729673	5.45	9.74	-19.54	0.000135	0.001391	Prkg1	chr1
10851670	6.38	10.67	-19.56	0.000904	0.005027	Pltp	chr3
10742712	7.23	11.52	-19.59	0.00017	0.001599	Anxa6	chr10
10834005	5.22	9.52	-19.68	0.004083	0.015026	Ptgfr	chr2
10813048	8.28	12.59	-19.85	0.000831	0.004728	Ppap2a	chr2
10863777	7.5	11.81	-19.94	0.000067	0.000926	Antxr1	chr4
10864874	5.71	10.03	-19.99	0.001092	0.005742	Rassf4	chr4
10905192	7.93	12.27	-20.21	0.000202	0.001788	Myh9	chr7
10709951	7.3	11.64	-20.22	0.00098	0.005306	Mical2	chr1
10861140	4.33	8.66	-20.24	0.020029	0.049997	Tfec	chr4
10818854	6.99	11.33	-20.29	0.000001	0.000151	Sec24d	chr2
10709993	7.93	12.28	-20.33	0.000002	0.000191	Parva	chr1
10822837	7.58	11.93	-20.33	0.000035	0.000634	Anxa5	chr2
10854139	6.55	10.89	-20.36	0.000634	0.003893	Flnc	chr4
10877020	5.71	10.06	-20.41	0.000033	0.000621	Svep1	chr5
10766674	6.05	10.4	-20.43	1.62E-07	0.000078	Ptpn14	chr13
10885299	6.35	10.71	-20.44	0.000003	0.000198	Rhoj	chr6
10933716	7.32	11.68	-20.57	0.000025	0.000545	Sat1	chrX
10903825	6.25	10.62	-20.69	0.004167	0.015252	Has2	chr7
10822242	5.17	9.55	-20.79	0.000108	0.001218	Car3	chr2
10794836	5.8	10.17	-20.79	0.000308	0.002354	Serpinb6	chr17
10733680	6.27	10.65	-20.84	0.00029	0.002265	Gpx3	chr10

10921833	7.35	11.74	-20.95	0.000045	0.000729	Slc29a1	chr9
10727260	6.84	11.23	-20.98	0.007516	0.023668	Ccnd1	chr1
10911001	5.69	10.08	-21.01	0.000145	0.001444	Rbpms2	chr8
10736784	4.3	8.7	-21.06	0.00001	0.000349	Slfn5	chr10
10823278	5.5	9.91	-21.16	0.01178	0.033274	Tm4sf1	chr2
10931247	6.28	10.69	-21.35	0.000011	0.00036	Metrn1	chr10
10813361	6.39	10.81	-21.35	0.000224	0.0019	Dab2	chr2
10847957	5.07	9.49	-21.46	0.000387	0.002752	Prrg4	chr3
10811596	5.84	10.27	-21.51	0.000164	0.001565	Piezo1	chr19
10917883	6.8	11.22	-21.53	0.000197	0.001758	Lox1l	chr8
10802338	6.45	10.89	-21.59	0.013346	0.036661	Ccbe1	chr18
10917707	7.66	12.1	-21.75	0.000544	0.003501	Peak1	chr8
10812834	6.15	10.6	-21.85	0.001785	0.008187	Adamts6	chr2
10924824	4.67	9.13	-21.9	0.00004	0.000685	Sp100	chrU
10922826	5.29	9.76	-22.14	0.003247	0.012712	Il1r1	chr9
10871479	7.73	12.2	-22.21	0.000002	0.000174	Elovl1	chr5
10794779	5.31	9.78	-22.24	0.000085	0.001065	Eci3	chr17
10839320	5.5	9.99	-22.42	0.006081	0.020186	Sqrd1	chr3
10814098	7.55	12.04	-22.47	1.77E-07	0.00008	Dap	chr2
10791902	6.62	11.11	-22.47	0.000017	0.000452	Slc7a2	chr16
10857278	6.17	10.67	-22.48	2.84E-07	0.000096	Fbln2	chr4
10760971	6.36	10.86	-22.67	0.000021	0.000496	Pcolce	chr12
10760196	7.94	12.45	-22.77	0.000047	0.000742	Arpc1b	chr12
10817429	5.42	9.93	-22.78	0.001678	0.007819	Ctss	chr2
10912614	5.11	9.63	-22.92	0.000464	0.003137	Slco2a1	chr8
10835654	6.51	11.03	-22.93	0.000004	0.000231	Angptl2	chr3
10896935	6.5	11.02	-22.97	6.59E-07	0.000121	Wisp1	chr7
10919103	7.25	11.77	-22.99	0.000104	0.001191	Me1	chr8
10721641	6.42	10.95	-23.12	0.000003	0.000197	Rcn3	chr1
10903816	6.66	11.19	-23.13	0.000006	0.000268	Sntb1	chr7
10810164	5.37	9.9	-23.13	0.00049	0.00326	Podnl1	chr19
10721339	6.85	11.4	-23.4	0.000057	0.000837	Clec11a	chr1
10796941	5.69	10.25	-23.51	0.000035	0.000641	RGD1563581	chr17
10777242	4.64	9.2	-23.63	0.000933	0.005136	Bst1	chr14
10755069	6.63	11.2	-23.81	0.000663	0.004028	Lpp	chr11
10848733	6.89	11.47	-23.87	0.000008	0.000315	Ehd4	chr3
10907869	4.77	9.38	-24.35	0.00452	0.016204	Mmp12	chr8
10867142	6.29	10.91	-24.61	7.28E-07	0.000124	Eya1	chr5
10771190	4.18	8.8	-24.64	0.000098	0.001148	Abcg3l3	chr14
10708281	5.44	10.06	-24.65	0.000009	0.000335	Pde8a	chr1
10928855	6.33	10.96	-24.84	0.003887	0.014497	Tns1	chr9
10893231	4.9	9.54	-25.01	0.000001	0.00014	Mmp19	chr7
10827079	7.43	12.08	-25.01	0.00447	0.016065	Pdlim5	chr2
10936742	3.92	8.57	-25.1	0.001441	0.006995	Gpr34	chrX
10862643	5.96	10.62	-25.27	0.000024	0.000533	Fkbp14	chr4
10801973	4.23	8.89	-25.27	0.000477	0.003192	RGD1309362	chr18
10907689	6.12	10.79	-25.48	0.000139	0.001416	Itga5	chr7
10818440	5.6	10.28	-25.52	0.000003	0.000192	Slc25a24	chr2
10799684	5.8	10.47	-25.56	0.019783	0.049526	Itga8	chr17
10895337	6.09	10.77	-25.57	0.000014	0.000415	Pawr	chr7
10888404	5.12	9.82	-26.1	0.000068	0.00093	Rasgrp3	chr6
10859086	4.58	9.31	-26.47	0.001835	0.008348	Clec2d11; Clec2d2	chr4
10708327	5.98	10.72	-26.69	0.00056	0.003574	Tm6sf1	chr1
10907834	4.3	9.06	-27.02	0.000071	0.000954	Casp12	chr8
10881521	6.62	11.42	-27.84	7.09E-07	0.000124	Plod1	chr5
10820014	6.28	11.09	-28.04	0.000034	0.000631	Cast	chr2
10798828	6.19	11.01	-28.19	0.001274	0.006409	RGD1562037	chr17
10857610	7.2	12.02	-28.29	0.000008	0.000315	Bhlhe40	chr4
10856050	7.01	11.84	-28.44	5.25E-07	0.000116	Gng12	chr4
10923052	6.29	11.12	-28.48	0.000003	0.000203	Col3a1	chr9
10927728	6.86	11.7	-28.67	0.000024	0.000531	Col5a2	chr9
10856797	5.38	10.22	-28.77	0.000353	0.002588	Dysf	chr4
10825869	6.25	11.09	-28.78	0.000394	0.002788	Csf1	chr2
10709034	7.24	12.09	-28.84	4.99E-07	0.000115	P4ha3	chr1
10835257	6.01	10.87	-29.02	0.003017	0.011994	Prrx2	chr3
10749839	6.63	11.49	-29.09	0.000046	0.000735	Vgll3	chr11
10837138	4.59	9.46	-29.13	0.003819	0.014324	Itga4	chr3
10769693	5.04	9.9	-29.14	0.000141	0.001423	Ddr2	chr13
10753222	6.13	11.02	-29.56	0.000076	0.000996	Runx1	chr11
10861976	4.33	9.22	-29.64	0.000026	0.000553	Zc3hav1	chr4
10782187	5.74	10.63	-29.67	0.000032	0.000615	Itgbl1	chr15
10703310	6.1	10.99	-29.68	0.000677	0.004086	Smoc2	chr1
10765480	7.24	12.14	-29.72	0.003757	0.014152	Olfml2b	chr13
10912629	5.15	10.04	-29.76	0.000968	0.005268	Slco2a1	chr8
10897529	8.05	12.94	-29.77	5.79E-08	0.00006	Lgals1	chr7
10719204	6.09	10.99	-29.78	0.000244	0.002016	Ehd2	chr1
10911315	6.1	11	-29.82	0.00025	0.002048	Myo1e	chr8
10900782	6.49	11.39	-29.83	0.002276	0.00974	Fstl3	chr7
10855118	5.13	10.03	-29.86	0.000595	0.003732	Arhgef5	chr4
10895932	5.32	10.23	-29.99	0.000034	0.000627	Stat6	chr7
10769695	6.57	11.48	-30.06	0.000038	0.000668	Ddr2	chr13
10784751	4.78	9.69	-30.12	0.000291	0.00227	Dock5	chr15
10817881	4.85	9.77	-30.13	0.017101	0.044266	Casq2	chr2
10793467	5.37	10.29	-30.28	0.000064	0.000894	Aaed1	chr17
10738177	6.78	11.71	-30.43	0.000004	0.000226	Fkbp10	chr10
10830328	5.51	10.45	-30.63	0.000003	0.000201	Lama4	chr20
10754563	6.28	11.22	-30.79	0.000088	0.001089	Itgb5	chr11
10784346	4.98	9.94	-31.14	0.001062	0.005629	Sgcg	chr15
10896020	7.85	12.82	-31.28	0.000003	0.000198	Sdc2	chr7
10818708	6.79	11.76	-31.36	0.001133	0.005888	F3	chr2
10775731	4.48	9.45	-31.5	0.005008	0.017465	Cxcl13	chr14

10861890	5.98	10.97	-31.85	0.000009	0.000326	Creb3l2	chr4
10796564	7.09	12.09	-32.02	6.00E-07	0.000121	Plxdc2	chr17
10711364	6.93	11.95	-32.27	0.000288	0.002248	Tgfb1i1	chr1
10817065	5.78	10.81	-32.54	0.001364	0.006737	S100a6	chr2
10818452	5.29	10.34	-33.21	0.000003	0.000201	Slc25a24	chr2
10813670	4.4	9.47	-33.51	0.001086	0.005722	C1qtnf3	chr2
10876045	6.2	11.26	-33.54	0.000004	0.000222	B4galt1	chr5
10720859	5.6	10.68	-33.67	0.000007	0.000288	Fxyd5	chr1
10783964	5.02	10.1	-33.82	0.000003	0.000192	Ripk3	chr15
10744460	5.75	10.84	-33.95	0.000176	0.001635	Cxcl16	chr10
10825915	4.82	9.91	-34.12	0.000124	0.001324	Gstm2	chr2
10895747	6.25	11.35	-34.26	4.87E-07	0.000115	Avpr1a	chr7
10801975	3.38	8.48	-34.38	0.002694	0.011009	MGC108823	chr18
10737763	6.53	11.65	-34.83	0.000012	0.000373	Copz2	chrU
10745509	6.56	11.69	-34.9	1.90E-07	0.000082	Myo1d	chr10
10714890	5.41	10.53	-34.94	0.003782	0.014221	Fas	chr1
10812201	6.75	11.87	-34.98	0.000144	0.00144	Ell2	chr2
10922845	4.88	10.04	-35.67	0.003035	0.012051	Il1rl2	chr9
10839232	7.73	12.89	-35.82	3.47E-07	0.000105	B2m	chr3
10817785	5.26	10.42	-35.82	0.000004	0.000224	Tbx15	chr2
10810867	6.02	11.2	-36.34	0.000024	0.000531	Nqo1	chr19
10860852	4.77	9.95	-36.4	0.016374	0.042844	Tfpi2	chr4
10705213	6.51	11.71	-36.69	0.000064	0.000898	Tgfb1	chr1
10826846	4.94	10.14	-36.75	0.000288	0.002254	Sgms2	chr2
10782247	7.36	12.57	-37.04	0.002481	0.010363	Vcl	chr15
10932351	5.61	10.82	-37.07	0.000245	0.002017	Srpx	chrX
10833013	6.03	11.24	-37.08	0.000004	0.000232	Unc5b	chr20
10726679	5.54	10.77	-37.39	0.000002	0.000164	Ifitm2	chr1
10924805	4.67	9.9	-37.42	0.000025	0.000546	Sp140	chr9
10891240	5.88	11.12	-37.73	0.000174	0.001621	Pgf	chr6
10797566	6.71	11.95	-37.75	0.000222	0.001886	S1pr3	chr17
10802040	6.91	12.15	-37.79	0.000003	0.000211	Pdgfrb	chr18
10859108	5	10.26	-38.56	0.000547	0.003511	Clec2g	chr4
10887947	5.41	10.68	-38.65	0.00004	0.000686	Cyp11b1	chr6
10818633	5.24	10.52	-38.75	0.000236	0.001968	Frrs1	chrU
10877943	4.6	9.9	-39.36	0.000012	0.000374	Ptplad2	chr5
10813172	5.76	11.06	-39.38	0.012736	0.035372	Fgf10	chr2
10874981	6.33	11.65	-39.81	0.000061	0.000875	Sulf1	chr5
10854446	6.69	12.01	-40.1	0.000251	0.002051	Cald1	chr4
10815026	5.02	10.35	-40.13	0.015909	0.041911	Fgf2	chr2
10912255	7.07	12.42	-40.68	0.000008	0.000321	Plod2	chr8
10750193	5.91	11.28	-41.16	7.63E-07	0.000125	Il10rb	chr11
10804480	6.54	11.92	-41.41	0.000021	0.000497	Ppic	chr18
10797929	5.18	10.57	-41.98	0.001369	0.006756	Gent2	chr17
10714818	4.87	10.27	-42.4	0.000064	0.000895	Papss2	chr1
10886049	5.24	10.65	-42.43	0.000124	0.001322	Flvcr2	chr6
10716939	5.58	11.02	-43.29	0.000024	0.000536	Gpr126	chr1
10702913	5.71	11.16	-43.61	0.000076	0.000996	Fndc1	chr1
10753629	5.5	10.95	-43.71	0.000001	0.000151	Abi3bp	chr11
10706705	6.77	12.23	-44	0.000198	0.001765	Rras	chr1
10754983	4.94	10.41	-44.38	3.05E-09	0.000021	Il13ra1	chr11
10817419	5.66	11.16	-45.35	0.000033	0.000624	Ctsk	chr2
10769422	7.27	12.77	-45.37	0.000002	0.000162	Prrx1	chr13
10817057	5.45	10.97	-45.89	0.000746	0.0044	S100a4	chr2
10831077	6.02	11.54	-45.92	0.000245	0.00202	Ier3	chr20
10896028	5.21	10.73	-45.98	0.000003	0.000211	Cpq	chr7
10857655	6.93	12.46	-46.1	0.013836	0.037661	Lmcd1	chr4
10708021	7.13	12.67	-46.67	0.015389	0.04085	Acan	chr1
10936365	4.82	10.37	-46.8	5.58E-08	0.00006	Il13ra1	chrX
10804127	4.89	10.44	-46.8	0.006691	0.021719	Fgf1	chr18
10841579	6.6	12.15	-46.8	0.006739	0.021819	My19	chr3
10802375	6.14	11.69	-46.92	0.000821	0.004692	Pmaip1	chr18
10909407	6.97	12.53	-47.25	0.000051	0.000777	Thy1	chr8
10920659	5.99	11.55	-47.28	0.000007	0.000279	Crtap	chr8
10787856	6.44	12.01	-47.36	0.007593	0.023847	Tll1	chr16
10910237	5.69	11.26	-47.56	0.01112	0.031877	Cspg4	chr8
10776888	5.52	11.09	-47.67	6.51E-07	0.000121	Fam114a111	chr14
10815679	5.12	10.7	-47.87	0.000172	0.001608	Mme	chr2
10874918	4.13	9.71	-47.94	0.000005	0.000249	Ly96	chr5
10821698	4.42	10	-47.96	3.97E-07	0.000112	Osmr	chr2
10905453	5.12	10.7	-48	6.73E-07	0.000121	Kdelr3	chr7
10912161	6.16	11.75	-48.05	0.00001	0.000339	Ctsh	chr8
10911287	7.13	12.73	-48.24	0.000004	0.000222	Anxa2	chr8
10764221	7.6	13.2	-48.34	0.000316	0.002394	Csrp1	chr13
10813694	5.81	11.42	-48.64	0.000208	0.001819	Adamts12	chr2
10874728	6.68	12.29	-48.76	0.000001	0.000153	Mxra8	chr5
10768726	6.53	12.15	-49.25	0.001291	0.006472	Npl	chr13
10888424	6.23	11.88	-50.09	0.000217	0.001866	Ltbp1	chr6
10856545	6.15	11.8	-50.17	0.000356	0.002602	Loxl3	chr4
10752839	6.23	11.88	-50.18	0.00001	0.000341	Adamts1	chr11
10726371	6.39	12.07	-51.22	3.34E-07	0.000105	Adam12	chr1
10928761	7.89	13.58	-51.64	0.000004	0.000223	Fn1	chr9
10856468	4.62	10.32	-51.76	0.000007	0.000285	Tbx15	chr2
10796440	4.79	10.48	-51.76	0.000223	0.001896	Pter	chr17
10846286	5.74	11.44	-51.98	0.000002	0.000176	Nfe2l2	chr3
10708591	5.11	10.89	-54.72	0.000402	0.002826	Syt12	chr1
10847761	5.44	11.23	-55.46	0.000137	0.001403	Cd44	chr3
10774015	6.09	11.9	-56.05	0.000011	0.000361	Aebp1	chr14
10869499	5.5	11.31	-56.28	7.71E-08	0.000064	Pappa	chr5
10928902	5.45	11.28	-57	0.000027	0.000561	Tmbim1	chr9
10767388	5.59	11.42	-57.2	0.000005	0.000763	Cd55	chr13

10827231	7.47	13.33	-58.17	0.000395	0.002792	Cyr61	chr2
10788238	4.11	9.98	-58.46	0.000027	0.000558	Tlr3	chr16
10750685	5.72	11.61	-59.14	0.000404	0.002836	Col8a1	chr11
10798135	4.31	10.23	-60.17	0.012465	0.034788	Serpnb9	chr17
10768376	4.33	10.24	-60.21	0.000078	0.00101	Pla2g4a	chr13
10723576	6.31	12.23	-60.31	0.00496	0.017338	Prss23	chr1
10875300	7.08	13	-60.49	0.000244	0.002014	Penk	chr5
10934637	3.89	9.85	-61.99	0.00006	0.000863	RGD1560455	chrX
10717233	6.92	12.88	-62.23	0.000006	0.000264	Ctgf	chr1
10842043	6.56	12.53	-62.48	0.000186	0.001693	Wisp2	chr3
10902547	5.13	11.11	-62.82	0.000261	0.002104	Lyz2	chr7
10729913	5.94	11.92	-63.16	6.49E-08	0.00006	Myof	chr1
10930506	3.97	9.95	-63.41	0.000138	0.001407	Fam114a11l	chr9
10745342	4.42	10.41	-63.6	0.000717	0.004274	Evi2a	chr10
10891780	6.34	12.34	-63.76	0.000131	0.001363	Fbln5	chr6
10737532	7.36	13.39	-65.42	0.000003	0.0002	Colla1	chr10
10740869	6.17	12.22	-66.35	0.000108	0.001219	Tnfrsf12a	chr10
10721962	5.82	11.89	-67.08	0.000007	0.000278	Emp3	chr1
10730057	6.59	12.65	-67.14	0.000091	0.001108	Pdlim1	chr1
10772169	6.7	12.78	-67.96	0.000004	0.00023	Igfbp7	chr14
10896541	6.33	12.43	-68.74	0.000836	0.004742	Nov	chr7
10799017	6.47	12.58	-68.87	0.000141	0.001423	Nid1	chr17
10736697	5.44	11.56	-69.82	0.001238	0.00628	Ccl2	chr10
10779832	4.64	10.84	-73.26	0.000029	0.000584	Rnase4	chr15
10918869	6.48	12.68	-73.4	0.00002	0.000485	Col12a1	chr8
10895075	5.06	11.28	-74.49	0.000029	0.000582	Dcn	chr7
10860499	5.47	11.7	-75.21	0.000092	0.001112	Sema3d	chr4
10786532	5.66	11.93	-76.73	0.004399	0.015874	Mustn1	chr16
10859296	5.29	11.6	-79.31	0.000003	0.000211	Emp1	chr4
10863757	4.75	11.07	-79.98	0.00003	0.000598	Anxa4	chr4
10909892	5.46	11.78	-80.11	0.000855	0.004827	Cryab	chr8
10777108	5.51	11.84	-80.51	0.003989	0.014772	Sod3	chr14
10889308	5.2	11.53	-80.55	0.00008	0.001022	Pqlc3	chr6
10769106	5.03	11.37	-80.96	0.000131	0.001367	Tnn	chr13
10908596	5.94	12.31	-82.6	0.017436	0.044948	Cnn1	chrU
10853559	6.99	13.36	-82.78	3.76E-07	0.000111	Colla2	chr4
10797648	4.54	10.94	-84.12	0.000011	0.000359	Ogn	chr17
10765772	5.57	11.97	-84.29	0.000003	0.000198	Tagln2	chr13
10718217	5.86	12.27	-85.14	0.000004	0.000224	Thbs2	chr1
10891303	6.68	13.11	-86.27	0.001237	0.006277	Tgfb3	chr6
10809540	6.33	12.77	-86.86	0.000006	0.000272	Mmp2	chr19
10764661	4.65	11.11	-87.67	0.000011	0.000355	Fam129a	chr13
10912051	5.43	11.94	-90.97	0.00218	0.009418	Prss35	chr8
10711566	5.11	11.62	-91.18	0.000261	0.002107	Htra1	chr1
10817183	5.85	12.42	-94.92	0.000008	0.00032	S100a11	chr2
10910678	6.22	12.79	-95.1	0.000015	0.000421	Itga11	chr8
10839434	4.54	11.13	-96.07	0.000065	0.000908	Fgf7	chr3
10765634	5.73	12.33	-96.92	0.00005	0.000763	Cd48	chr13
10726682	4.8	11.47	-101.91	0.000118	0.00128	Ifitm3	chr1
10848281	5.93	12.62	-103.61	1.42E-08	0.000039	Grem1	chr3
10761128	5.54	12.24	-104.31	0.001047	0.005565	Hspb1	chr12
10729269	5.29	12.03	-106.84	0.000485	0.003236	Anxa1	chr1
10936482	6.36	13.11	-107.25	0.000036	0.000651	Timp1	chrX
10866512	5.53	12.31	-110.27	0.000649	0.003962	Mgp	chr4
10876324	5.38	12.17	-110.61	0.000565	0.003595	Tpm2	chr5
10725778	5.63	12.43	-111.22	0.000007	0.000288	Nupr1	chr1
10934865	4.67	11.48	-111.99	0.000021	0.000497	Srpx2	chrX
10797660	3.63	10.52	-118.37	0.000138	0.001408	Aspn	chr17
10777232	4.39	11.28	-118.88	0.00152	0.007275	Cd38	chr14
10866030	4.1	10.99	-118.88	0.012893	0.035699	Olr1	chr4
10855701	6.63	13.56	-121.73	0.003394	0.013125	Aqp1	chr4
10821450	5.15	12.08	-122.03	0.003569	0.013622	Itga1	chr2
10744939	5.27	12.22	-123.71	0.000002	0.00018	Serpinf1	chr10
10932534	5.93	12.96	-130.73	0.000049	0.000759	Plp2	chrX
10753982	5.89	12.96	-133.79	0.000002	0.000166	Ccdc80	chr11
10804463	5.63	12.71	-135.23	6.70E-07	0.000121	Lox	chr18
10895083	3.98	11.09	-138.31	0.000009	0.000325	Lum	chr7
10781304	5.15	12.37	-149.04	0.000022	0.000511	Loxl2	chr15
10816017	5.5	12.77	-154.17	0.00004	0.000686	Fam198b	chr2
10853816	5.67	13.04	-165.11	0.000745	0.004397	Cav1	chr4
10917034	5.99	13.41	-170.26	0.000449	0.003057	Tagln	chr8
10764551	5.15	12.6	-174.82	0.002763	0.011237	Ptgs2	chr13
10935890	5.66	13.48	-225.08	5.78E-07	0.000121	Bgn	chr1
10761047	5.45	13.45	-255.78	0.000152	0.001493	Serpine1	chr12
10815369	4.86	13.34	-356.24	0.000001	0.000144	Postn	chr2
10702250	4.98	13.46	-358.76	0.000008	0.000307	Enpp1	chr1