

Table S3 Details of differentially expressed genes between H10 and L10

Gene	Location	Value_1(H10)	Value_2(L10)	log2(fold_change)	Test_stat	p_value	q_value
C1H21ORF91	1:18719634-18748457	38.1894	80.9132	1.0832	1.78089	0.002	0.0280894
BTG3	1:18909511-18928469	20.5756	53.8994	1.38933	2.4759	5.00E-05	0.00168949
SAMSN1	1:22123654-22192158	167.789	597.405	1.83206	2.42434	5.00E-05	0.00168949
BT.97089	1:30300549-30304847	79.6089	219.924	1.46601	2.01779	0.00065	0.0121886
BT.68839	1:46543384-46554479	46.1082	130.713	1.5033	2.26484	0.0003	0.00696807
ALCAM	1:50332249-50560514	21.8245	54.2276	1.31308	2.3399	0.0001	0.00298488
PVRL3	1:56308223-56444123	0.586497	3.05242	2.37976	2.31644	0.00045	0.00945137
ATP13A4	1:74487193-74630220	2.04433	7.52853	1.88074	2.58782	5.00E-05	0.00168949
MB21D2	1:75101341-75222153	7.22273	21.9734	1.60514	2.45007	5.00E-05	0.00168949
CLDN1	1:77596385-77611958	2.79121	8.04733	1.52762	2.5405	0.004	0.0464538
BCL6	1:80179481-80202388	78.4951	227.006	1.53206	1.99962	0.0002	0.00512801
EHHADH	1:82467816-82521151	3.81711	12.7643	1.74156	2.41136	0.0001	0.00298488
MCF2L2	1:84268486-84525526	0.401387	7.20205	4.16534	2.46285	5.00E-05	0.00168949
LAMP3	1:84533308-84565857	6.3059	15.6897	1.31505	1.64502	0.0027	0.0347754
TNIK	1:96789066-97194010	4.67764	11.98	1.35678	2.3166	0.0003	0.00696807
BT.53231	1:111318105-111331833	61.2331	283.016	2.2085	3.02366	5.00E-05	0.00168949
BT.87114	1:126040088-126704342	16.9666	5.86014	-1.53369	-2.90438	5.00E-05	0.00168949
BT.29337	1:143990450-144062807	0.570298	10.4614	4.19722	4.70646	5.00E-05	0.00168949
PDXK	1:146490838-146516831	123.627	307.743	1.31573	1.78018	0.0012	0.0192837
-	1:146520988-146521461	268.872	5552.13	4.36805	702.841	0.0002	0.00512801
MORC3	1:150307547-150349311	17.6329	41.3703	1.23033	1.86064	0.00235	0.03147
ETS2	1:152878891-152890252	55.1795	285.781	2.37271	3.13069	5.00E-05	0.00168949
UBL5	1:154150027-154150249	2957.38	8651.83	1.54868	196.485	5.00E-05	0.00168949
IFNGR2	1:1376826-1407269	183.171	453.868	1.30908	2.0523	0.0004	0.00870551
IFNAR1	1:1465889-1496325	49.0947	101.962	1.05439	1.74046	0.0043	0.0488299
IL10RB	1:1563136-1591758	73.7979	192.634	1.38421	1.98545	0.0014	0.0216421
IFNAR2	1:1593294-1657759	32.3036	111.834	1.79159	2.77507	5.00E-05	0.00168949
BT.84482	1:6145642-6201220	30.2084	64.0289	1.08377	1.719	0.00225	0.0305452
-	1:6288606-6342386	522.935	9457.15	4.1767	968.688	0.00205	0.0286751
-	1:22033565-22042017	0	538.303	inf	nan	5.00E-05	0.00168949
IMPG2	1:46088650-46161410	0.871064	2.47706	1.50778	2.01147	0.0009	0.015665
ITGB5	1:69801843-69899676	36.5667	13.5528	-1.43194	-2.44891	0.0003	0.00696807
BDH1	1:72572940-72608859	5.76093	21.3341	1.88879	2.70615	5.00E-05	0.00168949
BT.28708	1:77197969-77343645	82.9014	430.358	2.37607	3.00658	5.00E-05	0.00168949
-	1:80012048-80017294	37.9102	273.638	2.85161	97.347	0.00255	0.0334038
BT.24813	1:80502600-80506904	10.3819	3.63666	-1.51339	-2.61675	0.0001	0.00298488
SENP2	1:81992397-82210749	16.9318	51.5206	1.60541	2.41953	5.00E-05	0.00168949

SKIL	1:97824478-97846046	16.3757	45.0824	1.46101	2.0394	0.0004	0.00870551
BT.85209	1:110945723-111211551	65.5016	578.31	3.14224	3.58878	5.00E-05	0.00168949
TIPARP	1:111830979-111856952	22.8993	60.048	1.39081	2.41491	5.00E-05	0.00168949
HPS3	1:119940430-119985509	12.3803	5.98319	-1.04906	-1.90647	0.00215	0.029713
CPA3	1:120236685-120268840	7.01174	2.43752	-1.52436	-1.99372	0.00185	0.0267998
RASA2	1:128345231-128468291	8.89595	31.4818	1.82329	3.13812	5.00E-05	0.00168949
-	1:146880467-146883339	1.6054	13.4508	3.06669	2.07809	0.0044	0.0493571
S100B	1:148009650-148016981	58.0157	178.347	1.62017	3.07307	0.00015	0.00417103
-	1:153127638-153129724	43.9477	575.668	3.71138	91.1663	5.00E-05	0.00168949
-	1:153129915-153167211	47.4205	198.431	2.06506	2.36718	0.0001	0.00298488
BT.32278	10:1467375-1761414	1.43494	5.50036	1.93853	2.2792	0.0002	0.00512801
PIAS1	10:14878654-15004134	33.5941	78.8643	1.23117	2.32541	0.00065	0.0121886
-	10:17380194-17382508	1450.75	10301	2.82791	417.204	5.00E-05	0.00168949
CD276	10:20323739-20354234	18.6098	9.40093	-0.985185	-1.68035	0.00255	0.0334038
OSGEP	10:26709551-26716112	16.9498	41.8611	1.30434	2.3563	5.00E-05	0.00168949
-	10:36877987-36886550	98.4437	363.633	1.88511	2.99658	0.0042	0.0479306
NUSAP1	10:36886725-36936265	5.45173	13.8445	1.34453	1.94308	0.00065	0.0121886
RORA	10:48949617-49760867	2.82003	8.19765	1.5395	1.85512	0.0013	0.0203927
DMXL2	10:58841641-59070013	28.7653	239.645	3.05849	3.44835	0.0007	0.0128987
SNAPC1	10:74148206-74195030	8.67273	51.5388	2.5711	3.62278	5.00E-05	0.00168949
SYNE2	10:76362022-76699213	1.93033	5.92385	1.61769	1.94162	0.00115	0.0186976
KIAA0247	10:81708508-81800132	32.9369	144.132	2.12962	3.36381	5.00E-05	0.00168949
SFRS5	10:81859999-81897756	96.5031	233.935	1.27746	2.84713	0.00115	0.0186976
PSEN1	10:85006225-85073421	37.1254	77.8046	1.06745	1.91609	0.00195	0.0276684
BATF	10:87110562-87152139	16.1509	44.5939	1.46523	2.01164	0.00045	0.00945137
TRIM36	10:3921476-3973147	3.91243	17.1284	2.13025	3.43758	5.00E-05	0.00168949
FEM1C	10:4264878-4335023	40.5924	101.774	1.32608	1.92159	0.00295	0.0369284
HRH2	10:5380605-5410760	31.572	84.2876	1.41668	2.21104	0.00025	0.0060614
TLE3	10:16901654-16949786	38.3436	113.903	1.57074	2.06096	0.0002	0.00512801
ENSBTAG0000003	10:17200007-17319000	132.63	1683.71	3.66616	11.6106	5.00E-05	0.00168949
BT.92462	10:20820963-20825886	66.2764	162.785	1.2964	1.79463	0.0012	0.0192837
REM2	10:21779536-21783181	1.69902	6.58893	1.95534	1.8406	0.0015	0.0228053
RNASE10	10:26631718-26634462	5.76082	32.896	2.51356	2.96233	5.00E-05	0.00168949
PLCB2	10:36024407-36044699	21.5506	10.0947	-1.09414	-1.89221	0.00055	0.0109367
C15ORF52	10:36066051-36074651	2.87274	0.95282	-1.59215	-1.61436	0.0014	0.0216421
NIN	10:43640453-43744573	16.178	59.9273	1.88918	2.70395	5.00E-05	0.00168949
TLN2	10:47303875-47796327	0.723805	3.77858	2.38417	3.01846	5.00E-05	0.00168949
CGNL1	10:52835255-53002835	1.12041	3.66047	1.708	1.68256	0.00285	0.0362346
bta-mir-147	10:65143402-65246881	206.594	886.53	2.10137	4.22649	5.00E-05	0.00168949
GCH1	10:67576389-67631089	45.2047	97.6776	1.11155	2.98611	0.0012	0.0192837
-	10:70824703-70838469	80.3434	333.051	2.05149	1.93413	0.0002	0.00512801

RAB15	10:77387905-77408370	2.74191	6.74335	1.29829	1.85012	0.00065	0.0121886
MAX	10:77515538-77541594	103.506	224.195	1.11504	1.81797	0.00115	0.0186976
TMEM229B	10:79685491-79733149	3.492	10.897	1.64181	2.41932	5.00E-05	0.00168949
LTBP2	10:86186697-86294121	35.1811	12.6346	-1.47742	-2.2535	5.00E-05	0.00168949
BT.63066	10:92624409-92637043	3.61263	31.0218	3.10216	2.35221	0.00355	0.042367
-	11:816451-900420	1061.64	3449.68	1.70017	10.5488	0.0011	0.0181408
ITPRIPL1	11:2393541-2396426	39.674	18.621	-1.09126	-1.93965	0.0007	0.0128987
BT.45843	11:2526151-2537850	33.6271	151.436	2.17101	3.02287	5.00E-05	0.00168949
ENSBTAG0000004	11:5754348-5776837	0.650275	2.83894	2.12623	1.96437	0.00165	0.0243622
IL1R2	11:6717052-6757777	18.1152	72.4062	1.99892	2.8472	5.00E-05	0.00168949
IL1R1	11:6813884-6929909	10.3678	20.7968	1.00425	1.79432	0.00265	0.0342912
MGC152281	11:10196558-10203502	1.58698	0.328873	-2.27068	-2.65486	0.0028	0.0357634
SLC4A5	11:10283281-10405985	1.27172	0.283439	-2.16567	-2.1537	0.0005	0.0101767
GALM	11:21040424-21095033	37.3208	90.5313	1.27843	2.08142	0.0007	0.0128987
EPAS1	11:28576346-28668899	4.48623	12.606	1.49054	2.53588	5.00E-05	0.00168949
PAPOLG	11:43378848-43411492	6.08336	11.9415	0.97305	1.72487	0.00375	0.044144
REL	11:43490257-43527753	25.3442	66.5215	1.39217	2.2892	0.0002	0.00512801
IL1F6	11:46559622-46573057	2.7836	18.3092	2.71754	2.5194	5.00E-05	0.00168949
IL1RN	11:46699020-46706152	618.23	5188.33	3.06905	2.60823	0.00015	0.00417103
-	11:47089160-47089725	0	766.238	inf	nan	5.00E-05	0.00168949
IGKC	11:47104434-47174623	4.1556	22.6329	2.44529	3.02072	0.0006	0.0116461
UGP2	11:62243589-62299938	92.999	188.888	1.02224	1.77095	0.00335	0.0404341
AFTPH	11:62876981-62951512	10.0311	22.8142	1.18544	2.14807	0.00025	0.0060614
PLEK	11:66762700-66788487	181.487	962.358	2.4067	4.26818	5.00E-05	0.00168949
CGREF1	11:72508483-72524704	12.3963	5.76487	-1.10455	-1.62963	0.0032	0.0392405
-	11:78953335-78962365	0.699344	2.86215	2.03303	2.66066	0.0015	0.0228053
ODC1	11:87175495-87182503	36.5694	82.645	1.17629	2.1163	0.00055	0.0109367
ADAM17	11:87898073-87953717	45.8762	119.212	1.37771	2.13195	0.00355	0.042367
BT.100456	11:92577650-92665089	0.770555	2.90043	1.91229	2.23528	0.00065	0.0121886
BT.61865	11:98793227-98797809	46.2323	116.768	1.33667	1.64315	0.0039	0.045599
-	11:106807826-106808485	340.17	5859.1	4.10635	389.212	5.00E-05	0.00168949
BT.88795	11:107260652-107261718	957.573	2641.33	1.46381	3.87147	0.0013	0.0203927
BCL2L11	11:1153682-1201980	80.7619	236.489	1.55003	2.36565	5.00E-05	0.00168949
-	11:4023050-4138408	0.616004	3.30445	2.4234	2.10386	0.0011	0.0181408
RNF149	11:6213472-6238791	17.8463	80.6642	2.52597	3.78579	5.00E-05	0.00168949
-	11:9239395-9240691	484.404	1552.52	1.68033	1.75305	0.0016	0.023879
XDH	11:14176297-14281717	201.708	366.863	1.81219	0.81841	0.00265	0.0342912
CYP1B1	11:20493492-20499001	0.0851473	0.788314	3.21074	2.97429	0.00295	0.0369284
HAAO	11:25187251-25202495	2.45438	7.16617	1.54584	1.77781	0.00185	0.0267998
ZFP36L2	11:25574616-25587785	153.174	77.9413	-0.97471	-1.61935	0.004	0.0464538
RANBP2	11:44509063-44570848	16.3921	39.2754	1.26062	1.9768	0.00185	0.0267998

CKAP2L	11:46318612-46340841	2.58416	9.11624	1.81874	2.20434	0.0002	0.00512801
IL1A	11:46348925-46360429	23.2509	150.376	2.69322	3.60696	5.00E-05	0.00168949
IL1B	11:46410276-46418787	98.0976	982.577	3.32428	4.1798	5.00E-05	0.00168949
-	11:46697800-46698925	223.823	1956.54	3.12788	420.872	0.0007	0.0128987
KDM3A	11:48248719-48305015	21.5532	70.5791	1.71134	2.46137	5.00E-05	0.00168949
PELI1,VPS54	11:62301308-62528075	24.5806	112.728	2.19726	3.04426	5.00E-05	0.00168949
-	11:63224599-63235473	0	1274.44	inf	nan	5.00E-05	0.00168949
-	11:68326084-68383016	54.6393	385.003	2.81686	15.9219	5.00E-05	0.00168949
MGC139254	11:68632155-68661371	0.59646	5.87141	3.29921	3.32858	5.00E-05	0.00168949
PLB1	11:71116626-71242763	1.56065	8.98791	2.52583	3.05505	5.00E-05	0.00168949
FOSL2	11:71329771-71349193	125.332	381.189	1.60475	2.28972	0.00105	0.0176318
BT.49091	11:72223039-72224689	11.9985	34.3193	1.51617	3.61197	0.0001	0.00298488
GRHL1	11:87565730-87616670	3.13087	7.70164	1.2986	1.94742	0.00055	0.0109367
BT.43222	11:94010160-94064822	7.64477	17.5846	1.20177	2.02352	0.00065	0.0121886
PTGES	11:100143652-100155090	1.22859	6.95201	2.50043	3.32617	0.0035	0.0418788
C9ORF59	11:101477075-101489693	99.7524	46.7529	-1.09329	-1.80451	0.00125	0.0198792
BT.19921	11:102813512-102949457	7.31109	2.74491	-1.41333	-1.61336	0.00395	0.045989
-	11:104182455-104182738	21068.7	40748.3	0.951637	213.393	0.00275	0.0352551
BT.25025	11:104417538-104424788	16.0871	41.0796	1.35252	2.22222	0.00035	0.00778905
VAV2	11:104646645-104796229	1.21447	4.10809	1.75814	2.16023	0.00065	0.0121886
UAP1L1	11:106156868-106161862	68.1865	30.152	-1.17723	-2.56001	0.0003	0.00696807
C8G	11:106284926-106287011	17.6382	37.1687	1.07538	1.6224	0.00325	0.0397126
TRAF2	11:106296536-106311429	16.3179	33.158	1.0229	2.11084	0.0027	0.0347754
-	11:106803193-106806277	2.28578	18.0307	2.9797	5.69556	0.00065	0.0121886
IFITM2	11:107191849-107203683	1179.34	4430.35	1.90944	4.28324	0.00165	0.0243622
HSPH1	12:29820753-29844224	37.1616	117.099	1.65584	2.4326	5.00E-05	0.00168949
FLT1	12:31648164-31850535	1.10485	16.4218	3.89369	4.13466	5.00E-05	0.00168949
CRYL1	12:36187099-36243551	62.542	31.6911	-0.98075	-2.3375	0.00235	0.03147
GJB2	12:36327360-36340957	2.44	16.9612	2.79729	3.95987	5.00E-05	0.00168949
-	12:52158803-52174820	110.955	1163.05	3.38986	4.41717	0.0006	0.0116461
IRG1	12:52416049-52424159	81.7015	315.736	1.95029	2.84318	5.00E-05	0.00168949
SLAIN1	12:53188739-53240147	3.7406	10.1871	1.44539	1.88169	0.00115	0.0186976
BT.25129	12:54923988-54993756	12.953	24.3184	0.908764	2.03369	0.00435	0.0491152
BT.63792	12:72065147-72204484	10.4682	33.7308	1.68806	2.08063	0.0007	0.0128987
BT.39059	12:83016758-83093936	10.4555	39.8471	1.93022	3.00788	5.00E-05	0.00168949
OLFM4	12:10667342-10690088	11.3302	56.2798	2.31245	3.19895	5.00E-05	0.00168949
KIAA0226L	12:16418105-16458705	91.6475	497.91	2.44172	2.82869	5.00E-05	0.00168949
C12H13orf33	12:30021742-30039901	0.0887106	0.731772	3.04422	2.62626	0.00315	0.0387649
USPL1	12:30210023-30234724	5.79873	12.7498	1.13666	1.93194	0.0011	0.0181408
-	12:72208218-72227848	14.4785	49.5882	1.77608	2.60394	0.00065	0.0121886
-	12:76666283-76681652	0	40.7776	inf	nan	0.0005	0.0101767

-	12:76683161-76706797	0	1.35725	inf	nan	0.00025	0.0060614
-	12:76711292-76740082	0	1.40433	inf	nan	5.00E-05	0.00168949
DOCK9	12:79676458-79910003	0.86916	6.72993	2.9529	3.46766	5.00E-05	0.00168949
-	12:83710340-83711599	0	673.956	inf	nan	5.00E-05	0.00168949
BT.32410	12:88876124-89009422	2.87372	0.956971	-1.58637	-2.10271	0.0002	0.00512801
RAB20	12:89182099-89212365	39.543	165.733	2.06736	4.94085	5.00E-05	0.00168949
-	12:90591989-90595035	245.205	1593.42	2.70006	17.234	0.00065	0.0121886
GRTP1	12:90622563-90639777	3.07338	9.73555	1.66344	1.80064	0.003	0.0373514
GAS6	12:90821802-90850163	59.1286	23.4085	-1.33682	-2.68538	5.00E-05	0.00168949
BT.87961	13:11087843-11446718	10.5454	63.9412	2.60013	11.7721	0.0012	0.0192837
PRKCQ	13:17032506-17185063	1.29486	4.07165	1.65282	2.36565	0.0003	0.00696807
PARD3	13:18851193-19337608	7.64791	28.0864	1.87674	2.47413	5.00E-05	0.00168949
-	13:24682955-24812099	0	4.07129	inf	nan	5.00E-05	0.00168949
MAP3K8	13:35599897-35626614	40.8843	100.004	1.29044	2.2163	0.0004	0.00870551
GZF1	13:42406044-42414234	10.0152	34.6097	1.78898	2.89499	5.00E-05	0.00168949
SYNDIG1	13:42791537-42894170	5.44819	14.8316	1.44483	1.96742	0.0005	0.0101767
DIP2C	13:46886172-47177126	13.9411	6.328	-1.13953	-2.03386	0.0005	0.0101767
CDS2	13:47799923-47856833	40.3414	97.7469	1.27679	2.10643	0.00065	0.0121886
C13H20orf196	13:48206275-48394530	3.47375	13.4697	1.95516	4.44578	0.00065	0.0121886
SIGLEC1	13:51939066-51962376	1.38795	0.476408	-1.54268	-1.77575	0.00255	0.0334038
-	13:53329636-53344124	0	239.959	inf	nan	0.0005	0.0101767
EEF1A2	13:54623916-54631595	79.2399	24.6397	-1.68524	-2.86599	5.00E-05	0.00168949
LAMA5	13:55379958-55433278	6.45353	2.4698	-1.38569	-2.32481	5.00E-05	0.00168949
BT.44996	13:62106256-62151619	147.162	518.044	1.81567	2.27142	0.0001	0.00298488
MAP1LC3A	13:64497253-64498905	43.2589	104.736	1.2757	1.88457	0.00045	0.00945137
ACSS2	13:64794727-64841518	39.3637	134.513	1.7728	2.62633	0.0001	0.00298488
BT.24181	13:67874473-67910095	7.87428	17.2298	1.12969	1.72977	0.00405	0.0467594
PPP1R16B	13:68258137-68366080	4.34409	17.8893	2.04197	2.69314	5.00E-05	0.00168949
SYS1	13:74429640-74433440	40.5584	99.3349	1.2923	2.23392	5.00E-05	0.00168949
MMP9	13:75436197-75473824	25.2257	106.373	2.07617	2.57922	0.0002	0.00512801
BT.42498	13:75563517-75574215	25.2902	60.8523	1.26673	2.07172	0.00045	0.00945137
EYA2	13:76221594-76487993	0.700564	3.04166	2.11827	2.22229	0.00035	0.00778905
PTPN1	13:79263517-79324185	24.3366	70.8174	1.54098	3.01436	5.00E-05	0.00168949
BCAS4	13:79479043-79536892	9.11293	29.0723	1.67366	3.4622	0.00045	0.00945137
GATA3	13:15984601-16003439	5.17488	16.2523	1.65105	2.24808	5.00E-05	0.00168949
RBM17	13:17486171-17509050	19.5174	41.4969	1.08824	2.01368	0.0007	0.0128987
ENKUR	13:26050238-26115031	1.77965	9.2857	2.38342	2.79646	5.00E-05	0.00168949
BT.87967	13:29501667-29578090	16.4522	45.3815	1.46382	2.41202	5.00E-05	0.00168949
BAMBI	13:36326193-36333080	0.263439	1.12572	2.09531	2.33418	0.00255	0.0334038
-	13:40553020-40555682	971.74	3273.69	1.75228	296.192	0.0042	0.0479306
THBD	13:42217370-42221004	40.4903	373.785	3.20656	3.93068	5.00E-05	0.00168949

GPCPD1	13:48075962-48150177	33.8051	102.603	1.60176	2.5563	0.0001	0.00298488
TGM3	13:53261634-53304213	689.782	3563.33	2.36901	2.11361	0.00325	0.0397126
SLCO4A1	13:55149363-55172499	26.8434	168.247	2.64794	3.90543	5.00E-05	0.00168949
-	13:55172877-55209941	132.049	1172.44	3.15037	27.814	0.0006	0.0116461
CASS4	13:60037044-60073828	8.55352	40.2887	2.23578	3.014	5.00E-05	0.00168949
C13H20ORF108	13:60109035-60119697	61.6261	29.0173	-1.08663	-2.22222	0.0022	0.0300732
FAM110A	13:60798591-60812321	2.99938	7.63399	1.34777	1.84739	0.0025	0.0331256
BT.24663,ENSBTA	13:61924321-61938236	9.34654	47.9062	2.35771	3.14927	5.00E-05	0.00168949
GSS	13:64842137-64867355	16.1062	37.1869	1.20718	2.01172	0.0002	0.00512801
-	13:65205393-65205638	119.568	0	-inf	nan	0.00255	0.0334038
TGM2	13:67663137-67697607	18.2356	41.536	1.18761	1.94434	0.0019	0.0272104
BT.72701	13:74484051-74486972	110.615	290.311	1.39205	7.3391	0.00045	0.00945137
C20ORF123	13:75966597-75972943	15.448	44.1384	1.51462	2.41911	5.00E-05	0.00168949
TP53RK	13:76083308-76087372	14.7074	29.3742	0.998011	2.20605	0.0025	0.0331256
ATP9A	13:80167667-80263734	6.13504	24.3388	1.98811	2.7226	5.00E-05	0.00168949
BT.29499	13:82162090-82259990	1.3597	5.31884	1.96783	2.34509	0.0002	0.00512801
SLC45A4	14:3711836-3740304	15.6302	48.4783	1.633	2.4701	5.00E-05	0.00168949
NDRG1	14:9109761-9165926	89.3046	243.064	1.44453	2.10961	0.00035	0.00778905
SLA	14:9261889-9508938	44.4494	234.983	2.40232	3.58259	5.00E-05	0.00168949
ANXA13	14:17758445-17791429	3.66137	0.302569	-3.59705	-2.93127	0.0004	0.00870551
LYN	14:24847256-24932198	123.182	301.562	1.29166	1.7676	0.0023	0.0310714
-	14:39432342-39448143	0	249.861	inf	nan	5.00E-05	0.00168949
BT.101967	14:63951757-63957275	47.2443	146.417	1.63187	2.36815	0.0001	0.00298488
NIPAL2	14:68251837-68342901	9.88155	28.484	1.52734	2.41915	0.00025	0.0060614
LY6E	14:2624757-2628462	7.05044	17.7753	1.33409	2.581	0.00185	0.0267998
DENND3	14:3750705-3800766	11.5745	60.7282	2.39142	3.4392	5.00E-05	0.00168949
-	14:16161543-16181355	0	2.29486	inf	nan	5.00E-05	0.00168949
TRIB1	14:16353387-16361545	68.6046	335.007	2.28781	2.94717	5.00E-05	0.00168949
BT.49772	14:16424534-16666229	13.5221	51.0473	1.91652	2.6096	5.00E-05	0.00168949
PCMTD1	14:22639959-22717584	26.6125	63.5154	1.255	2.02732	0.0009	0.015665
CA8	14:27637560-27719848	3.72747	10.795	1.53409	2.0488	0.0015	0.0228053
UBE2W	14:39233173-39295068	13.1742	33.7806	1.35849	3.40225	5.00E-05	0.00168949
FABP4	14:46833664-46838053	2187.12	637.799	-1.77786	-5.04272	5.00E-05	0.00168949
MED30	14:48940215-48959150	10.3438	24.2082	1.22673	1.74674	0.0029	0.0365009
TM7SF4	14:62215197-62463870	7.83209	23.6413	1.59384	1.97673	0.002	0.0280894
SDC2	14:69930852-70050653	17.4843	47.249	1.43422	2.91513	0.0003	0.00696807
ESRP1	14:71945028-72003342	2.52382	6.31395	1.32294	1.91956	0.00225	0.0305452
SNTB1	14:84253918-84504093	13.1233	32.9735	1.32918	1.68116	0.00165	0.0243622
CASP4	15:3474663-3505710	67.4208	274.3	2.02449	3.05505	5.00E-05	0.00168949
BT.18504	15:6007067-6034291	5.46639	44.6974	3.03153	3.55604	5.00E-05	0.00168949
BT.102365	15:14156931-14556383	13.0641	29.5803	1.17903	1.58714	0.00175	0.0256741

ZC3H12C	15:20455454-20526349	15.1015	30.9479	1.03515	1.75781	0.00225	0.0305452
DIXDC1	15:22583431-22659906	10.689	27	1.33684	1.95086	0.00065	0.0121886
UBE4A	15:29476789-29516720	88.8848	212.716	1.25892	1.71138	0.00375	0.044144
BLR1	15:30007425-30018517	0.224292	2.93263	3.70875	3.68616	0.0034	0.0408591
NLRX1	15:30278099-30296544	20.4209	10.0482	-1.02312	-2.08967	0.0019	0.0272104
DENND5A	15:43965777-44058881	46.3787	178.817	1.94695	2.88152	5.00E-05	0.00168949
ST5	15:44334646-44460360	1.55439	6.70573	2.10904	2.69949	5.00E-05	0.00168949
RRP8	15:47082235-47095486	3.37758	11.777	1.80192	2.21888	5.00E-05	0.00168949
NUP98	15:52097534-52183246	20.3112	43.7192	1.10599	1.80302	0.00335	0.0404341
FOLR2	15:52602039-52605536	618.101	217.407	-1.50744	-2.09964	5.00E-05	0.00168949
SLCO2B1	15:55151084-55203571	5.93568	2.72943	-1.12082	-1.86494	0.00155	0.0233854
DGAT2,UVRAG	15:55940756-56317353	30.9865	113.024	1.86691	2.9637	5.00E-05	0.00168949
EHF	15:65991131-66030964	23.0578	63.9014	1.47059	2.07242	0.0002	0.00512801
BT.19824	15:67661944-67741048	40.7654	101.447	1.31531	1.99307	0.00025	0.0060614
CD82	15:75506623-75575746	165.478	532.368	1.68579	2.2749	0.00035	0.00778905
-	15:78923225-79039276	235.203	957.103	2.02477	17.3197	5.00E-05	0.00168949
PTPRJ	15:79039376-79097403	153.325	368.149	1.26369	1.90692	0.0022	0.0300732
BT.22969	15:82158927-82172143	7.28837	17.0432	1.22553	1.7377	0.003	0.0373514
FAM111A	15:83600424-83605727	3.8866	11.7879	1.60073	2.2222	0.00015	0.00417103
BT.53744	15:84615939-84630983	0.445909	12.5933	4.81976	5.58751	5.00E-05	0.00168949
BIRC2,BIRC3	15:6472731-6654015	57.4062	415.308	2.8549	3.88673	5.00E-05	0.00168949
ENDOD1	15:15585022-15619671	18.0515	8.8306	-1.03154	-1.97556	0.0012	0.0192837
POU2AF1	15:21951909-21976900	0.156081	3.20336	4.35921	4.01976	0.0002	0.00512801
CADM1	15:26101410-26451509	372.011	159.799	-1.21909	-1.78016	0.00075	0.0136024
PVRL1	15:30743666-30811477	14.0955	6.60289	-1.09407	-1.65933	0.00245	0.0325567
STARD10	15:53087562-53121538	5.00234	11.9789	1.25983	1.6489	0.0044	0.0493571
MUC15	15:57913543-58130615	13.1522	49.639	1.91617	2.67843	5.00E-05	0.00168949
ELF5	15:65824441-65856722	189.273	557.087	1.55743	1.88651	0.0016	0.023879
-	15:78428920-78432377	304.494	2437.52	3.00093	264.837	0.0001	0.00298488
FNBP4	15:78675011-78717851	37.0068	140.372	1.92339	2.36602	0.00035	0.00778905
-	15:78833189-78837562	0	690.418	inf	nan	0.00015	0.00417103
-	15:79099117-79099666	813.524	2162.04	1.41013	43.1692	0.00015	0.00417103
SLC43A3	15:81978439-81996848	11.3382	1.98865	-2.51133	-3.23994	5.00E-05	0.00168949
-	15:83560843-83563249	0	300.764	inf	nan	0.00135	0.0210576
TCN1	15:84361363-84434956	87.2315	406.706	2.22106	3.48621	5.00E-05	0.00168949
BTG2	16:890071-892370	47.8072	189.566	1.9874	4.76067	5.00E-05	0.00168949
SOX13	16:1684509-1728817	2.34564	6.14454	1.38932	1.63624	0.00405	0.0467594
PCTK3	16:3082101-3108506	0.772759	2.26608	1.55211	1.73254	0.0031	0.0382177
MFSD4	16:3168634-3193846	6.63812	18.0838	1.44585	2.06295	0.00045	0.00945137
BT.22323	16:4144348-4218744	18.2881	38.1547	1.06095	1.67309	0.0037	0.0437791
FAIM3	16:4586506-4606760	1.66214	12.0039	2.85239	2.95918	5.00E-05	0.00168949

BT.30402	16:4998444-5005553	60.2519	24.242	-1.3135	-3.83006	0.0008	0.0143027
1-Mar	16:24976174-24998620	32.9421	90.5815	1.45928	1.93203	0.00075	0.0136024
CHML	16:35948786-35950742	8.23726	17.6815	1.102	2.24607	0.00215	0.029713
DFFA	16:43994267-44004665	48.7764	25.5639	-0.932074	-1.66952	0.00435	0.0491152
BT.39199	16:52388691-52397907	32.728	129.706	1.98665	2.85767	5.00E-05	0.00168949
SCNN1D	16:52595745-52599094	3.31947	50.9992	3.94145	5.85576	5.00E-05	0.00168949
FLJ20584	16:52625533-52651239	2.80042	9.89973	1.82174	2.37601	5.00E-05	0.00168949
RNF223	16:52655445-52657700	1.45885	5.68836	1.96318	1.77321	0.00285	0.0362346
HES4	16:52724338-52728224	1.24555	7.05563	2.502	2.32944	0.0002	0.00512801
AXDND1	16:62138402-62217021	0.835901	4.43292	2.40685	1.90465	0.0021	0.0292856
IER5	16:63689679-63690654	140.712	414.765	1.55955	1.9647	0.00025	0.0060614
NPL	16:65330450-65369036	14.9051	6.05561	-1.29946	-2.06246	0.00095	0.0163093
C16H1ORF26	16:67653940-67759357	3.08322	6.33541	1.039	1.70944	0.00435	0.0491152
BT.42411	16:72740020-72753761	53.329	261.37	2.2931	2.95517	5.00E-05	0.00168949
IRF6	16:75401018-75417466	3.0106	9.51534	1.6602	2.22069	0.0003	0.00696807
LAMB3	16:75564703-75610920	5.14543	187.315	5.18604	11.3608	5.00E-05	0.00168949
SLC45A3	16:3244644-3250256	2.2034	0.58932	-1.90261	-2.41692	0.0029	0.0365009
BT.105276	16:4533504-4552472	31.7055	84.5899	1.41575	1.80701	0.0019	0.0272104
BT.91089	16:5099067-5125304	89.1882	254.956	1.51532	1.91624	0.001	0.0169155
HHIPL2	16:26713224-26741364	8.4169	26.4181	1.65016	2.47131	0.00015	0.00417103
TP53BP2	16:27841999-27897611	1.95239	5.15082	1.39956	1.86854	0.0013	0.0203927
C16H1ORF55	16:29750648-29773642	14.7227	30.0644	1.03001	1.68851	0.0018	0.026296
KMO	16:35975650-36045361	3.00594	22.7909	2.92257	1.65106	0.00075	0.0136024
SELP	16:38049258-38080862	0.15102	1.62656	3.42901	2.64906	0.0003	0.00696807
SELL	16:38148941-38173226	106.595	289.107	1.43946	2.07976	0.00065	0.0121886
TNFRSF1B	16:42376257-42409768	190.236	495.213	1.38026	1.96108	0.0029	0.0365009
BT.58035	16:44775431-44797198	14.873	7.26855	-1.03295	-1.66844	0.0022	0.0300732
CA6	16:45289117-45314106	0.678377	5.67925	3.06554	3.2379	0.00015	0.00417103
ARHGEF16	16:50811141-50834864	3.45648	8.27649	1.25972	1.87548	0.0033	0.0400404
PRKCZ	16:51848097-51947503	2.17674	5.84563	1.42519	1.78954	0.00265	0.0342912
PRDM2	16:55058853-55189768	9.72717	19.0261	0.967889	1.57509	0.0038	0.0446185
SNORD24	16:56691109-56694789	31.5834	72.2906	1.19464	1.838	0.002	0.0280894
STX6	16:63578806-63628883	38.5973	97.855	1.34215	2.02721	0.00085	0.0150217
FAM129A	16:67296089-67499532	32.8325	121.252	1.88481	2.75981	5.00E-05	0.00168949
BT.104982	16:69263775-69271738	38.3253	119.263	1.63777	1.94077	0.00215	0.029713
FAM71A	16:72811910-72814133	2.75928	7.09077	1.36165	2.04728	0.0011	0.0181408
ATF3	16:72820025-72832974	70.9472	166.644	1.23196	2.4078	0.00035	0.00778905
-	16:72880561-72883275	2.2046	15.2683	2.79195	1.42958	0.00405	0.0467594
-	16:72929651-72968111	2.74107	17.8763	2.70524	2.40052	0.00015	0.00417103
-	16:73840005-73859002	0	4.16662	inf	nan	5.00E-05	0.00168949
BT.48370	16:75423472-75453476	8.43326	45.8855	2.44388	3.24442	5.00E-05	0.00168949

HSD11B1	16:75463611-75508770	0.698542	12.7707	4.19235	6.23047	5.00E-05	0.00168949
G0S2	16:75539495-75540425	112.46	1499.32	3.73682	3.87784	5.00E-05	0.00168949
FGG	17:2823020-2830960	3.20083	9.47145	1.56514	2.17686	0.0008	0.0143027
-	17:4950509-5036228	82.8104	749.083	3.17724	2.68889	5.00E-05	0.00168949
LRBA	17:6786744-7542666	9.57596	25.6412	1.42097	1.82507	0.00385	0.0451289
NR3C2	17:9726045-10173282	1.21582	4.39882	1.85518	2.17985	0.00035	0.00778905
RILPL2	17:54425951-54457510	57.7779	179.552	1.63581	2.53253	5.00E-05	0.00168949
ENSBTAG0000004	17:55053666-55054749	167.692	1507.66	3.16843	5.91217	5.00E-05	0.00168949
NOS1	17:60047140-60131472	0.207751	0.948924	2.19144	2.07054	0.0043	0.0488299
DTX1	17:63358581-63396162	0.456428	2.01796	2.14444	2.4517	0.00075	0.0136024
TPCN1	17:63498279-63558939	27.049	12.9299	-1.06487	-1.92937	0.00165	0.0243622
CMLKR1	17:66787278-66828139	96.7471	44.9737	-1.10514	-2.0406	0.00105	0.0176318
TCN2	17:71711448-71727449	125.754	55.8961	-1.16979	-1.78285	0.00065	0.0121886
BT.48450	17:72142467-72196937	49.7721	162.908	1.71064	2.31245	5.00E-05	0.00168949
SGLT1	17:72690557-72740066	0.949698	3.89839	2.03734	2.89988	0.00045	0.00945137
BT.53247	17:73408366-73415618	0.370228	1.68318	2.18471	2.23776	0.00075	0.0136024
SNAP29	17:74261018-74271390	24.1421	52.9004	1.13173	2.53899	0.00055	0.0109367
CRKL	17:74282224-74297800	111.229	332.383	1.57931	2.33627	0.0001	0.00298488
KLHL22	17:74498663-74519770	7.12525	19.5959	1.45954	2.37024	5.00E-05	0.00168949
TRIM2	17:4308228-4436144	3.98057	12.0532	1.59837	2.46979	0.0001	0.00298488
-	17:4949309-4950258	0	445.462	inf	nan	0.00035	0.00778905
TNIP3	17:40818366-40861705	2.18163	9.87257	2.17802	1.93339	0.0014	0.0216421
HIP1R	17:54915865-54946127	41.9662	252.898	2.59125	2.7765	5.00E-05	0.00168949
MLXIP	17:55468195-55528501	67.1663	842.614	3.64906	10.7203	5.00E-05	0.00168949
TMEM120B	17:55759605-55815637	17.6698	50.9932	1.52902	1.81091	0.0028	0.0357634
-	17:58033708-58079333	0	17.5805	inf	nan	0.00015	0.00417103
HSPB8	17:58405436-58418688	1.13129	5.56719	2.29898	3.15954	5.00E-05	0.00168949
SDSL	17:63278103-63292006	6.3555	21.627	1.76676	2.68032	0.0001	0.00298488
RASAL1	17:63397790-63429841	4.86149	12.5545	1.36873	1.91671	0.0014	0.0216421
RPH3A	17:63682757-63748775	0.0649211	0.648501	3.32035	2.08957	0.0013	0.0203927
PXN	17:64817806-64859142	36.6398	139.242	1.92611	2.6126	5.00E-05	0.00168949
BT.45038	17:71434156-71437432	110.403	922.234	3.06235	3.4106	5.00E-05	0.00168949
BT.30373	17:72064669-72068000	52.4596	151.457	1.52963	2.10573	0.00015	0.00417103
GGT5	17:73425745-73434932	13.8731	65.2119	2.23285	3.34356	5.00E-05	0.00168949
UPB1	17:73500518-73527334	3.32742	13.9052	2.06315	2.53515	0.0005	0.0101767
BT.56667	17:73576017-73590296	14.6529	69.7517	2.25104	3.51527	5.00E-05	0.00168949
SLC7A4	17:74366169-74373743	8.50752	25.9044	1.60638	2.55916	5.00E-05	0.00168949
VAT1L	18:5045211-5211278	8.24172	20.4525	1.31126	1.86016	0.0033	0.0400404
BT.8228	18:10610404-10689343	17.9452	63.3691	1.82018	2.66695	5.00E-05	0.00168949
CRISPLD2	18:10985131-11050904	16.4636	76.7594	2.22106	3.51687	5.00E-05	0.00168949
BANP	18:13425298-13493366	6.95382	15.8414	1.18782	1.77633	0.0011	0.0181408

NOD2	18:19177561-19212607	10.0754	21.0875	1.06555	1.78834	0.00255	0.0334038
CYLD	18:19224225-19293983	15.8509	50.5206	1.67231	2.71307	5.00E-05	0.00168949
SLC6A2	18:23962441-24002080	0.341387	1.662	2.28344	2.44589	0.0004	0.00870551
RSPRY1	18:25295238-25333181	40.5528	87.1788	1.10418	1.78904	0.0029	0.0365009
POLR2C	18:25539094-25555198	43.7846	85.1248	0.959155	2.07015	0.0037	0.0437791
GPR97	18:25726848-25753920	9.88627	28.7418	1.53965	1.79593	0.00205	0.0286751
NDRG4	18:26340550-26383749	3.26721	7.98826	1.28982	1.70742	0.00395	0.045989
PDP2	18:34707448-34711484	8.72318	17.4775	1.00257	1.63238	0.0031	0.0382177
PLA2G15	18:35747166-35760966	47.6315	20.0707	-1.24682	-2.18705	0.00035	0.00778905
ZNF507	18:43030188-43068295	0.682247	4.04816	2.5689	2.8242	5.00E-05	0.00168949
GRAMD1A	18:45932690-45957100	17.8452	38.9524	1.12618	1.73452	0.0015	0.0228053
HPN	18:45971858-45991833	7.27942	22.4263	1.6233	2.53354	5.00E-05	0.00168949
CD22	18:46225970-46239044	0.454231	4.62128	3.34679	3.12641	5.00E-05	0.00168949
GPR41	18:46244899-46249752	0.578894	3.6337	2.65007	1.90977	0.00375	0.044144
GPR43	18:46312177-46314341	9.83095	107.848	3.45552	5.06679	5.00E-05	0.00168949
-	18:46334572-46335974	0	160.479	inf	nan	0.0007	0.0128987
RYR1	18:48502351-48631056	25.7845	106.285	2.04336	2.47449	0.00195	0.0276684
BT.20178	18:48880854-48891485	30.3269	68.8094	1.18201	2.73011	0.00035	0.00778905
-	18:49321024-49321294	4552.26	11234.4	1.30327	255.005	0.0005	0.0101767
ZFP36	18:49335051-49375317	352.082	1304.01	1.88897	1.81213	0.0016	0.023879
LTBP4	18:50173267-50202104	25.4926	9.90964	-1.36318	-2.18824	5.00E-05	0.00168949
DEDD2	18:51380782-51395993	51.1612	173.449	1.76139	2.38913	5.00E-05	0.00168949
POU2F2	18:51467222-51497957	4.12551	12.8829	1.64281	2.10388	0.0003	0.00696807
-	18:52760834-52764323	1665.61	11850.2	2.83079	403.418	5.00E-05	0.00168949
-	18:52764490-52839691	33.2209	156.6	2.23692	2.94934	5.00E-05	0.00168949
BCL3	18:52922333-52931384	45.0998	245.254	2.44308	4.29997	5.00E-05	0.00168949
RELB	18:53099824-53127762	25.2406	100.266	1.99001	3.00301	5.00E-05	0.00168949
ARHGAP35	18:54425389-54497692	6.19956	25.1922	2.02274	2.43369	5.00E-05	0.00168949
BT.59327	18:55925890-55929294	96.4494	561.708	2.54198	3.22943	5.00E-05	0.00168949
BT.26763	18:57573529-57583637	3.36888	18.902	2.48819	3.33484	5.00E-05	0.00168949
NLRP12	18:61091347-61147226	1.6886	36.9354	4.45111	4.54067	5.00E-05	0.00168949
FCAR	18:62838409-62864521	39.5079	249.78	2.66044	5.31625	5.00E-05	0.00168949
BT.97257	18:62895454-62900546	64.6083	369.537	2.51593	3.05688	5.00E-05	0.00168949
NLRP2	18:62918863-62932174	0.283986	2.15306	2.92249	3.27877	0.0002	0.00512801
-	18:63374717-63375764	36.1471	199.313	2.46309	8.98422	5.00E-05	0.00168949
-	18:63375878-63376836	79.0895	401.113	2.34245	10.3679	5.00E-05	0.00168949
LENG1	18:63421901-63425192	13.5699	28.6879	1.08003	2.45845	0.0041	0.0471398
OSCAR	18:63466549-63475792	28.8916	69.9316	1.27529	1.83756	0.00165	0.0243622
TARM1	18:63479270-63491214	32.2687	118.036	1.87101	2.49203	5.00E-05	0.00168949
MAF	18:6537199-6553041	92.3871	37.4449	-1.30292	-2.26799	5.00E-05	0.00168949
N4BP1	18:17033278-17085940	13.8096	40.3834	1.54809	2.71575	5.00E-05	0.00168949

IRX3	18:22692065-22694550	8.02602	17.756	1.14555	1.9415	0.0037	0.0437791
MT1A	18:24106721-24108521	34.0218	125.854	1.88722	12.6528	0.0005	0.0101767
BT.72155	18:24338465-24519487	1.50192	7.38029	2.29687	2.44242	0.0005	0.0101767
RRAD	18:34746054-34749250	3.6132	11.7135	1.69682	2.92105	0.0007	0.0128987
BT.38851	18:43574290-43644737	1.62285	5.64824	1.79927	2.70893	0.0002	0.00512801
NFKBID	18:46768503-46776805	18.7379	61.6146	1.71731	2.6509	5.00E-05	0.00168949
CD79A	18:51679283-51682971	1.07288	14.0956	3.71568	3.37418	5.00E-05	0.00168949
KCNN4	18:52303108-52316896	43.6017	21.5488	-1.01678	-1.75218	0.00245	0.0325567
GPR4	18:53615948-53617690	1.92858	11.4775	2.57319	3.74051	5.00E-05	0.00168949
EML2	18:53634882-53659483	40.3383	20.6967	-0.962748	-1.79599	0.00295	0.0369284
bta-mir-2897	18:54224456-54256892	6.43893	13.2667	1.04292	1.66647	0.00375	0.044144
PLEKHA4	18:55899437-55923522	7.8773	2.69248	-1.54876	-2.19122	5.00E-05	0.00168949
RRAS	18:56497093-56501119	11.5872	28.7721	1.31215	3.04896	0.001	0.0169155
SIGLEC10	18:57835593-57843038	4.64401	2.00903	-1.20887	-1.60707	0.0041	0.0471398
BT.88266	18:57861546-57868646	27.2204	121.06	2.15296	3.2969	5.00E-05	0.00168949
BT.37782	18:61040308-61053660	17.7364	55.424	1.64379	2.57708	5.00E-05	0.00168949
EPS8L1	18:62760765-62773059	1.15976	3.44391	1.57022	1.70335	0.0019	0.0272104
ENSBTAG0000004	18:62872481-62888462	0.354959	2.0362	2.52015	2.54526	0.00015	0.00417103
ENSBTAG0000003	18:63009835-63020867	38.4027	239.874	2.643	4.06296	5.00E-05	0.00168949
BT.42415	19:5221506-5283308	6.96572	15.7156	1.17385	1.67266	0.00255	0.0334038
BT.39657	19:5696509-5747138	4.85514	18.3362	1.91711	2.02549	0.0005	0.0101767
MSI2	19:8321234-8723158	9.18452	37.2731	2.02086	8.21415	0.0001	0.00298488
DYNLL2	19:9118007-9125251	31.3699	61.408	0.969044	2.22105	0.0034	0.0408591
LPO	19:9441747-9471498	22.1052	84.7498	1.93883	2.623	5.00E-05	0.00168949
VMP1	19:10903715-11070633	154.883	467.022	1.59231	2.44725	0.00115	0.0186976
USP32	19:12880202-13085137	12.838	34.5712	1.42916	2.49772	0.0001	0.00298488
DHRS11	19:13237730-13247622	18.9084	48.8983	1.37076	2.17633	0.0001	0.00298488
CCL3	19:14673889-14704986	266.402	2242.25	3.07327	7.80432	5.00E-05	0.00168949
CCL5	19:14823469-14831157	67.0941	421.399	2.65093	6.95089	5.00E-05	0.00168949
KSR1	19:19457616-19618012	4.68607	12.8599	1.45642	2.14389	0.0001	0.00298488
CPD	19:22025795-22086708	22.8103	52.0375	1.18986	2.21159	0.00105	0.0176318
GOSR1	19:22108501-22140940	38.2378	78.7931	1.04307	1.7588	0.0022	0.0300732
NXN	19:22457711-22621493	2.7568	7.04885	1.35439	2.27765	0.00085	0.0150217
HIC1	19:23655530-23659389	0.853697	3.25958	1.93289	1.96124	0.0024	0.0320774
SLC13A5	19:25791869-25815845	25.1944	67.0807	1.4128	2.27043	0.00015	0.00417103
BT.2598	19:27331074-27339653	20.7484	78.5851	1.92126	2.52129	5.00E-05	0.00168949
KDM6B	19:28135157-28155513	29.2845	166.639	2.50851	2.58006	5.00E-05	0.00168949
TMEM88	19:28155991-28157769	7.96238	64.7659	3.02396	3.79589	5.00E-05	0.00168949
NDEL1	19:28596037-28672316	44.9654	147.648	1.71527	2.59206	0.00015	0.00417103
BT.20969	19:35385652-35420462	15.0784	34.0668	1.17588	1.66236	0.0036	0.0428158
FLCN	19:35520010-35536118	32.9219	77.3527	1.23241	1.96939	0.0011	0.0181408

KCNJ12	19:35955795-35991013	0.163498	2.40575	3.87915	2.88777	0.0018	0.026296
CSF3	19:40981662-40983998	1.40717	85.4209	5.92372	6.19913	5.00E-05	0.00168949
STAT5A	19:43033596-43054075	29.9721	62.7132	1.06515	2.01283	0.0015	0.0228053
HSD17B1	19:43268325-43270819	1.58061	8.0717	2.35239	3.37955	0.00015	0.00417103
RUNDC1	19:43653716-43669111	7.20294	14.4118	1.0006	1.64657	0.0031	0.0382177
INTB3	19:46968836-47027388	86.4174	42.8243	-1.01289	-2.00656	0.0043	0.0488299
MAFG	19:51576539-51582086	36.0408	81.6446	1.17973	1.94446	0.00105	0.0176318
SOCS3	19:54458148-54459555	52.6686	520.667	3.30535	4.4466	5.00E-05	0.00168949
GRB2	19:56754111-56842004	167.525	371.33	1.14833	1.74712	0.00225	0.0305452
MIF4GD,SLC25A1	19:56842312-56862920	88.7206	265.3	1.58028	2.84028	0.0006	0.0116461
C19H17orf28	19:57076158-57097117	3.46356	9.07356	1.38941	1.89016	0.0011	0.0181408
FADS6	19:57141971-57157895	63.6273	31.3104	-1.02301	-2.22869	0.0032	0.0392405
CD300LF	19:57287915-57398998	9.04825	22.3977	1.30764	1.74968	0.0017	0.0250202
CD300E	19:57430804-57439771	55.9102	22.16	-1.33515	-2.1119	0.00035	0.00778905
ABCA6	19:62014854-62094302	10.8618	24.8414	1.19349	2.0032	0.001	0.0169155
BT.103824	19:62348240-62404525	11.5844	28.8472	1.31625	1.96872	0.0002	0.00512801
-	19:62405286-62405609	0	117.139	inf	nan	0.0006	0.0116461
BT.89318	19:62424506-62457703	26.5099	52.6598	0.990168	1.64793	0.00285	0.0362346
SLC16A6	19:62477671-62496100	7.7655	24.0881	1.63317	2.43498	0.0001	0.00298488
BT.62349	19:8900989-8974286	5.68031	13.8069	1.28135	2.11523	0.00035	0.00778905
MPO	19:9473000-9484197	6.98125	2.56572	-1.44412	-2.06673	0.00075	0.0136024
4-Sep	19:9697826-9709821	10.739	29.3776	1.45185	2.14273	0.0002	0.00512801
BT.88312	19:13752491-13996058	10.8715	32.5807	1.58347	2.10406	0.00065	0.0121886
CCL4	19:14653466-14655028	195.691	637.395	1.70361	4.89432	5.00E-05	0.00168949
CCL8	19:16137673-16139707	61.8739	26.5122	-1.22267	-2.94629	0.0033	0.0400404
BT.23126	19:19758763-19958246	62.6171	356.261	2.5083	3.01782	5.00E-05	0.00168949
FLOT2	19:20810486-20817364	63.7243	128.297	1.00957	1.62553	0.0044	0.0493571
DHRS13	19:20828076-20832961	2.76936	8.20489	1.56693	2.57775	0.0006	0.0116461
PHF12	19:20835679-20875590	26.0598	111.362	2.09536	2.67938	5.00E-05	0.00168949
CORO6	19:21426532-21434772	0.4911	2.7863	2.50426	2.55457	0.00025	0.0060614
SSH2	19:21439741-21574647	11.9684	49.4653	2.04719	2.91125	5.00E-05	0.00168949
-	19:22099346-22104985	59.1023	168.11	1.50812	5.25832	0.0001	0.00298488
bta-mir-22	19:23381003-23384680	39.4131	118.77	1.59143	1.65095	0.00255	0.0334038
BT.62377	19:25163840-25198117	26.2347	12.9721	-1.01606	-1.79003	0.00185	0.0267998
VAMP2	19:28408301-28410747	28.9534	61.93	1.09691	3.14465	0.00095	0.0163093
MYH10	19:28680824-28800880	1.36658	3.85826	1.49739	2.29413	0.00025	0.0060614
PIK3R6	19:28900067-28961797	0.843944	4.77604	2.5006	2.69297	5.00E-05	0.00168949
PIK3R5	19:28975558-29048771	20.4782	60.5074	1.56302	2.21901	5.00E-05	0.00168949
TRPV2	19:33816539-33834916	141.009	63.6928	-1.14659	-2.14502	0.00195	0.0276684
SPATA20	19:36799922-36807919	4.27927	1.60215	-1.41736	-1.88208	0.0026	0.0338024
SGCA	19:37113476-37122940	44.1798	13.2662	-1.73563	-2.92095	5.00E-05	0.00168949

NPEPPS	19:39460691-39564822	25.9224	54.7233	1.07795	1.95602	0.00155	0.0233854
BT.62405	19:40779126-40864311	0.261614	2.80588	3.42294	2.59516	0.0002	0.00512801
STAT3	19:43056659-43132624	46.7739	138.042	1.56133	2.27748	0.0002	0.00512801
PTRF	19:43148012-43162165	3.98895	16.5889	2.05614	3.02797	5.00E-05	0.00168949
EZH1	19:43395929-43428273	11.3138	23.2832	1.04121	1.84736	0.0023	0.0310714
ICAM2	19:48857449-48889758	29.927	208.868	2.80307	6.5829	5.00E-05	0.00168949
SPHK1	19:55978950-55984461	89.8876	45.7256	-0.975121	-1.75133	0.00235	0.03147
CD300A	19:57604424-57626900	37.8624	132.261	1.80455	2.23289	5.00E-05	0.00168949
KCNJ2	19:61185602-61195897	3.4858	13.2259	1.9238	3.36226	5.00E-05	0.00168949
NIPA1	2:916139-963773	30.5565	6.66787	-2.19618	-2.93924	5.00E-05	0.00168949
BT.54746	2:5350653-5407851	39.4993	16.1594	-1.28945	-2.17159	5.00E-05	0.00168949
MSTN	2:6213565-6220196	0.396802	2.35712	2.57054	3.11253	0.00045	0.00945137
CALCRL	2:8901431-9030989	2.57219	0.856903	-1.58579	-2.47087	0.00055	0.0109367
NCKAP1	2:13575101-13664827	2.40557	5.68327	1.24034	2.02584	0.00175	0.0256741
CCDC141	2:17791921-18014475	1.31365	0.299433	-2.13328	-2.06684	0.0014	0.0216421
BT.17324	2:19659539-19692048	85.6696	247.252	1.52913	2.06604	0.00165	0.0243622
COBLL1	2:31530968-31687456	5.51732	16.9907	1.62271	2.01469	0.00055	0.0109367
ENSBTAG0000004	2:31688428-31699171	6.16121	18.9204	1.61866	2.74028	0.00025	0.0060614
IFIH1	2:34217172-34272473	24.404	65.8497	1.43206	2.26587	0.00125	0.0198792
FAP	2:34297725-34376828	0.110047	2.1433	4.28365	2.83736	0.0006	0.0116461
CYTIP	2:38629903-38726669	59.5053	198.967	1.74144	5.05059	5.00E-05	0.00168949
NR4A2	2:39999712-40017015	8.59459	21.0387	1.29155	2.08854	0.0002	0.00512801
BT.58902	2:44146495-44166620	19.2721	40.9884	1.0887	1.9613	0.0009	0.015665
BT.87159	2:44930494-44950481	49.1652	147.553	1.58552	2.67926	5.00E-05	0.00168949
GYPC	2:79255579-79304396	3.28339	11.9227	1.86046	2.09866	0.0004	0.00870551
OBFC2A	2:80641182-80657684	9.67298	24.0841	1.31605	1.87597	0.0016	0.023879
BT.30256	2:86410859-86427846	17.3128	45.9052	1.40682	2.54078	0.00025	0.0060614
BT.45005	2:89517810-89589090	0.488098	4.44979	3.1885	1.89501	0.0004	0.00870551
FLIP	2:90139394-90174381	33.3455	75.5853	1.18061	1.97245	0.0009	0.015665
CREB1	2:96278068-96330452	9.83135	31.2214	1.66708	2.63991	5.00E-05	0.00168949
CYP27A1	2:107462686-107504968	390.742	162.146	-1.26893	-2.15721	0.00195	0.0276684
SLC4A3	2:108272275-108286884	2.57844	1.14861	-1.16661	-1.60551	0.00355	0.042367
CCL20	2:116759407-116762490	38.8515	343.828	3.14564	25.3777	5.00E-05	0.00168949
ENSBTAG0000003	2:119171758-119263577	48.5108	155.848	1.68377	1.98045	0.00215	0.029713
ITM2C	2:119476495-119490380	51.4439	150.703	1.55063	2.55095	0.00015	0.00417103
RNF19B	2:121552617-121576145	44.7118	115.922	1.37442	2.05773	0.00085	0.0150217
FABP3	2:122723224-122783830	1847.12	6910.39	1.90349	3.42573	0.0022	0.0300732
IFI6	2:126246560-126250182	220.823	98.6574	-1.16239	-2.10113	0.0002	0.00512801
FGR	2:126273135-126291824	72.6518	217.15	1.57962	2.11567	0.00025	0.0060614
SLC30A2	2:127638450-127645772	4.76879	18.0842	1.92304	2.48986	5.00E-05	0.00168949
FUCA1	2:129652474-129675550	42.2806	22.0104	-0.941811	-1.71521	0.00395	0.045989

E2F2	2:129925613-129944755	6.04698	27.6724	2.19416	2.57777	5.00E-05	0.00168949
ECE1	2:131935440-132060210	63.1217	274.607	2.12116	2.31851	0.00015	0.00417103
BT.37581	2:133149364-133157295	1.1267	4.40165	1.96594	1.83315	0.00195	0.0276684
UBL5	2:23299146-23299368	1157.46	3463.2	1.58115	159.042	0.00035	0.00778905
BT.17865	2:27317637-27380521	2.55279	14.8777	2.543	3.20046	5.00E-05	0.00168949
TANK	2:35247177-35343029	14.4749	56.5776	1.96668	3.33286	5.00E-05	0.00168949
TANC1	2:37239776-37490228	8.09077	3.8651	-1.06577	-1.82532	0.00095	0.0163093
TSG-6	2:44850891-44867293	19.1207	91.5586	2.25956	5.23312	5.00E-05	0.00168949
HNMT	2:59376268-59462595	21.4154	10.8051	-0.986942	-1.83009	0.0037	0.0437791
BT.36236	2:84773342-85028103	0.0581793	0.825637	3.82693	3.15199	5.00E-05	0.00168949
CLK1	2:89920585-89927845	25.8362	61.3993	1.24883	2.08003	0.00125	0.0198792
KLF7	2:95781393-95903616	9.17489	22.3341	1.28349	2.06877	0.00015	0.00417103
C2ORF80	2:96867886-96890885	265.017	801.135	1.59596	2.21287	5.00E-05	0.00168949
TUBA4A	2:107921713-107925511	6.20249	15.9184	1.35978	2.61007	0.0007	0.0128987
KIAA1522	2:121713354-121740725	28.5358	12.2016	-1.22571	-1.73397	0.0029	0.0365009
FAM167B	2:122115659-122117248	4.16693	15.0059	1.84847	3.40526	0.00015	0.00417103
HCRTR1	2:122641986-122650109	127.724	46.1982	-1.46712	-2.59076	5.00E-05	0.00168949
TINAGL1	2:122685822-122696171	599.896	209.758	-1.51599	-2.10761	0.00065	0.0121886
SESN2	2:125698150-125714128	26.6914	85.8893	1.6861	2.59694	5.00E-05	0.00168949
C1ORF38	2:126030986-126070741	27.0659	148.884	2.45964	2.2035	5.00E-05	0.00168949
MAN1C1	2:127888645-128008111	29.9744	14.5712	-1.04062	-1.76638	0.0016	0.023879
C1QC	2:130783986-130788357	72.7381	35.8999	-1.01873	-2.50173	0.00125	0.0198792
C1QA	2:130792854-130795743	91.2384	46.2557	-0.98001	-1.59357	0.0021	0.0292856
CDA	2:132636461-132657392	8.11341	173.069	4.4149	8.23804	5.00E-05	0.00168949
BT.84824	2:133224530-133246491	1.66903	17.7136	3.40777	3.07353	5.00E-05	0.00168949
NBL1	2:133632741-133644722	27.3125	9.55105	-1.51583	-2.05697	0.0002	0.00512801
BT.102307,C5ORF	20:4684718-4767975	16.0306	52.9277	1.72319	2.02242	0.0013	0.0203927
BT.22214	20:12352170-12366624	14.2167	5.62801	-1.33689	-1.99213	0.00045	0.00945137
BT.78334	20:33688290-33721667	10.1466	27.8435	1.45635	2.39412	0.0003	0.00696807
TTC33	20:33721921-33747493	4.0923	11.0698	1.43565	1.95101	0.00085	0.0150217
FYB	20:35176988-35347535	39.9647	156.717	1.97136	2.56416	5.00E-05	0.00168949
RICTOR	20:35376523-35514741	2.94918	12.2292	2.05194	3.26677	5.00E-05	0.00168949
PRLR	20:38951596-39137480	2.05629	5.24064	1.3497	1.6757	0.00275	0.0352551
FAM134B	20:56644738-56758641	18.6791	48.0854	1.36417	2.06311	0.0003	0.00696807
BT.85182	20:4449108-4452189	270.029	805.805	1.57732	2.03439	0.00385	0.0451289
NAIP	20:10071639-10111995	39.1062	182.074	2.21906	2.89529	5.00E-05	0.00168949
GPBP1	20:22033856-22098163	29.2868	95.2023	1.70074	2.71597	5.00E-05	0.00168949
-	20:22098359-22099742	1548.47	5931.97	1.93767	306.047	0.00015	0.00417103
SNX18	20:24564479-24596518	42.8861	111.729	1.38142	2.09451	0.0008	0.0143027
BT.83070	20:26116746-26227530	0.123854	0.603381	2.28443	1.91197	0.00335	0.0404341
RAI14	20:39352840-39515205	4.56029	9.34475	1.03503	1.70162	0.00205	0.0286751

TARS	20:40349624-40373143	122.501	345.948	1.49776	2.12344	0.0006	0.0116461
-	20:40431781-40435815	213.015	1439.23	2.75628	174.778	0.00275	0.0352551
-	20:55809586-55828320	32.9865	705.575	4.41885	1.1121	0.0005	0.0101767
ENSBTAG0000003	20:55967803-56022210	18.9132	79.4717	2.07105	2.77167	5.00E-05	0.00168949
ANKRD33B	20:62725183-62820226	2.55644	13.309	2.38019	2.6032	5.00E-05	0.00168949
-	20:67244934-67250973	0	1717.26	inf	nan	5.00E-05	0.00168949
ENSBTAG0000002	21:15998169-16090486	52.9718	135.912	1.35938	2.24114	0.0002	0.00512801
AKAP13	21:16597559-16910889	35.8422	92.6302	1.36983	1.72527	0.003	0.0373514
-	21:16911027-16912312	2421.78	9734.4	2.00703	338.055	5.00E-05	0.00168949
ISG20	21:20013718-20031094	156.946	704.374	2.16607	2.94471	5.00E-05	0.00168949
ALPK3,BT.25251	21:22822424-22935573	8.50595	16.8396	0.985316	1.63671	0.00265	0.0342912
BT.42063	21:22949799-23048041	0.904286	3.77136	2.06024	2.01875	0.0003	0.00696807
WHAMM	21:23546101-23564527	8.41899	23.771	1.49748	2.42646	5.00E-05	0.00168949
SEMA7A	21:34625076-34651240	92.359	241.054	1.38403	1.8823	0.0005	0.0101767
-	21:45607102-45618802	141.698	334.992	1.24131	14.6653	0.00145	0.0222656
TRAF3	21:69204550-69254153	9.64528	28.3698	1.55646	2.58879	5.00E-05	0.00168949
BT.101554	21:71507508-71509649	0	2.05153	inf	nan	5.00E-05	0.00168949
-	21:8842360-8855164	0	6.77656	inf	nan	0.00035	0.00778905
ARRDC4	21:8924762-8939028	58.8675	223.382	1.92397	2.57712	0.0001	0.00298488
BT.28177	21:12839570-13098203	4.90536	18.6853	1.92947	2.97502	5.00E-05	0.00168949
MFGE8	21:20889912-20920858	146.079	562.677	1.94556	2.25298	0.0003	0.00696807
FES	21:22192639-22204117	67.1714	32.8479	-1.03204	-1.66954	0.0022	0.0300732
NMB	21:22740675-22744781	3.53129	36.9031	3.38548	3.09415	5.00E-05	0.00168949
FSD2	21:23501905-23545813	0.675516	3.26161	2.27152	2.61206	5.00E-05	0.00168949
HOMER2	21:23577845-23668524	4.26841	12.253	1.52137	2.13583	0.0002	0.00512801
MTHFS	21:26449625-26466916	19.2039	41.6916	1.11836	2.36584	0.00165	0.0243622
BCL2A1	21:26473688-26501188	108.181	519.176	2.26278	4.03461	5.00E-05	0.00168949
BT.29712	21:28934157-29047006	1.78273	4.58573	1.36306	1.92346	0.0005	0.0101767
CLK3	21:34438145-34452179	27.0093	54.9207	1.0239	1.70459	0.002	0.0280894
EGLN3	21:44805297-44834310	19.9327	47.7345	1.25989	2.44648	0.00075	0.0136024
SPTSSA	21:45295074-45341768	35.7369	88.0364	1.30069	2.64798	0.0001	0.00298488
BAZ1A	21:45536723-45586839	27.8725	74.9414	1.42692	2.17541	0.0003	0.00696807
GPR68	21:56588075-56625811	3.77724	11.2363	1.57277	2.29079	5.00E-05	0.00168949
CLMN	21:61602704-61653533	6.99807	21.1029	1.59241	2.12429	5.00E-05	0.00168949
-	21:68592146-68594450	54.5489	390.14	2.83837	66.2846	0.0042	0.0479306
-	21:71450537-71450964	0	1305.76	inf	nan	5.00E-05	0.00168949
VOPPI	22:495505-677104	10.8222	3.43426	-1.65592	-2.83063	0.00015	0.00417103
CMTM8	22:6789384-6891230	12.6345	35.1977	1.47811	1.99032	0.0012	0.0192837
TRANK1	22:10626377-10722545	19.9386	66.2319	1.73196	1.84577	0.00255	0.0334038
BT.48995	22:11646790-11652092	140.038	451.43	1.68868	2.06616	0.0005	0.0101767
OXSR1	22:11674126-11758890	37.5602	121.203	1.69015	2.75835	5.00E-05	0.00168949

SLC22A13,SLC22/	22:11766154-11801567	1.20556	15.0628	3.64322	4.1032	5.00E-05	0.00168949
BT.46336	22:15280707-15312566	1.40511	4.77741	1.76555	2.03936	0.0009	0.015665
PRRT3,TMEM111	22:16833932-16863951	157.743	410.619	1.38023	4.81773	5.00E-05	0.00168949
RYBP	22:29300025-29392548	54.648	155.965	1.51298	2.58556	5.00E-05	0.00168949
TMF1	22:32610464-32640830	12.7621	34.0471	1.41567	2.34387	5.00E-05	0.00168949
ATP5E	22:35335189-35335581	52.3379	198.22	1.92117	14.147	0.0001	0.00298488
MAGI1	22:35874897-36134917	2.83555	11.3109	1.99601	2.38658	5.00E-05	0.00168949
MGC143103	22:43324031-43357321	8.73739	29.6518	1.76285	2.11396	0.00065	0.0121886
SELK	22:47582814-47590574	46.6716	97.6341	1.06484	2.99465	0.0013	0.0203927
CISH	22:50320204-50325617	6.23608	29.552	2.24454	3.39833	5.00E-05	0.00168949
BT.56096	22:50577798-50586504	23.6589	51.2837	1.11611	1.887	0.00155	0.0233854
LTF	22:53521699-53556089	38.5217	96.9638	1.33178	1.94796	0.00165	0.0243622
BT.106550	22:53900594-53945136	3.84546	24.925	2.69636	3.34723	5.00E-05	0.00168949
NUP210	22:59167625-59244943	1.43523	4.07961	1.50715	2.11404	0.00015	0.00417103
IQSEC1	22:59455350-59549010	14.0545	32.9491	1.22921	1.78635	0.00115	0.0186976
GLB1	22:7413787-7517634	73.9925	35.7381	-1.04992	-2.09497	0.00195	0.0276684
BT.102977	22:12520392-12532806	28.7189	195.16	2.76458	4.6248	5.00E-05	0.00168949
TATDN2	22:16672484-16691395	8.21526	19.7671	1.26672	2.09339	0.0002	0.00512801
IRAK2	22:16694677-16750676	16.3619	56.6356	1.79137	2.90062	5.00E-05	0.00168949
BHLHE40	22:21491413-21498539	75.7539	526.218	2.79627	3.21012	5.00E-05	0.00168949
BT.22305	22:21615592-21969823	3.32292	8.06241	1.27876	1.78452	0.0044	0.0493571
-	22:37556747-37583311	2.95221	9.66965	1.71167	1.57307	0.0034	0.0408591
ATXN7	22:37585223-37676023	7.29649	16.8506	1.20753	1.92032	0.00065	0.0121886
PXK,RPP14	22:43467863-43561145	31.7731	81.1086	1.35205	2.63189	0.0001	0.00298488
SEMA3B	22:50655647-50662413	0.356174	1.46116	2.03646	1.87239	0.00305	0.0378715
SLC38A3	22:50702768-50717581	2.95491	10.2233	1.79067	2.17874	0.0003	0.00696807
SEMA3F	22:50733156-50769905	1.73456	4.15864	1.26155	1.68298	0.0044	0.0493571
BT.88492	22:51187153-51219800	19.1723	10.0079	-0.937877	-1.55562	0.0036	0.0428158
CCRL2	22:53567796-53584659	87.707	514.813	2.55329	3.05966	5.00E-05	0.00168949
-	22:53872979-53888393	0	250.275	inf	nan	0.0008	0.0143027
BT.35872	22:59089633-59103701	8.69716	28.32	1.7032	1.66614	0.0019	0.0272104
ABTB1	22:60502718-60507378	90.7028	204.796	1.17497	1.85086	0.00295	0.0369284
BT.20328	23:7528758-7534103	29.7187	101.564	1.77295	2.72152	5.00E-05	0.00168949
PPARD	23:9269505-9355959	57.3349	140.326	1.2913	1.99357	0.00125	0.0198792
ARMC12	23:9683249-9694015	0.345135	2.19249	2.66734	1.99405	0.00245	0.0325567
MAPK13	23:10036665-10045045	19.4818	42.198	1.11505	1.73307	0.0027	0.0347754
CDKN1A	23:10560498-10568780	82.9026	273.608	1.72262	2.68832	5.00E-05	0.00168949
ZFAND3	23:11712801-12040961	25.1038	48.8965	0.961824	1.58601	0.0042	0.0479306
DAAM2	23:13775148-13829110	1.02609	4.23346	2.04468	2.89873	5.00E-05	0.00168949
VEGFA	23:17255946-17269998	91.8886	707.084	2.94392	3.03603	5.00E-05	0.00168949
BT.68975	23:25030302-25051787	25.0357	56.3117	1.16945	1.97492	0.00075	0.0136024

NOTCH4	23:26973190-27001754	121.874	266.834	1.13055	1.71227	0.00215	0.029713
AGER	23:27008830-27011946	5.23582	13.4005	1.3558	1.78135	0.00115	0.0186976
LTB	23:27529855-27531864	31.1021	121.785	1.96925	2.93205	5.00E-05	0.00168949
MGC126945	23:27600054-27604052	7.18723	33.4533	2.21864	3.16528	5.00E-05	0.00168949
IER3	23:28088455-28089722	134.047	494.857	1.88428	3.53864	5.00E-05	0.00168949
BT.49039	23:28918427-28920742	22.4537	69.406	1.62811	3.04301	0.00055	0.0109367
H2B	23:31589470-31607791	22.0064	66.6308	1.59827	4.16821	5.00E-05	0.00168949
H4	23:31665561-31667068	3.60817	10.337	1.51848	2.73037	0.0011	0.0181408
FAM65B	23:32553222-32763526	16.5792	88.2493	2.41221	2.77064	5.00E-05	0.00168949
MBOAT1	23:37498571-37614367	10.3093	26.939	1.38575	2.51935	5.00E-05	0.00168949
C23H6ORF105	23:44468218-44536868	31.2483	13.6856	-1.19112	-1.96723	0.0011	0.0181408
TUBB2B	23:50354842-50366294	44.8068	19.114	-1.22909	-2.04494	0.0005	0.0101767
BT.105119	23:50390116-50394279	106.356	53.4964	-0.991382	-1.67609	0.00325	0.0397126
LRRC1	23:6528071-6666274	4.80931	12.118	1.33325	1.80755	0.0023	0.0310714
BOLA-DOB	23:7054418-7063641	2.0521	7.25815	1.8225	2.9571	0.0035	0.0418788
C6ORF106	23:8586131-8688924	2228.72	8652.87	1.95697	83.1638	5.00E-05	0.00168949
PIM1	23:11051543-11055416	135.188	443.198	1.71299	2.42221	5.00E-05	0.00168949
ENSBTAG0000004	23:11093688-11132861	0.451254	5.05859	3.48672	4.04541	0.0013	0.0203927
MOCS1	23:13829694-13866950	56.2156	126.297	1.16777	1.69854	0.00235	0.03147
TREML1	23:15081866-15086287	26.3903	12.0755	-1.12792	-1.77849	0.00235	0.03147
TREM2	23:15090106-15094760	378.726	175.742	-1.10769	-1.69491	0.0016	0.023879
TREM1	23:15148076-15163188	141.057	327.119	1.21354	2.23638	0.00435	0.0491152
NFKBIE,SLC35B2	23:17874862-17887291	42.1645	90.4392	1.10092	1.74098	0.00425	0.0484612
GPR110	23:20206357-20252189	0.49074	2.08205	2.08497	2.21481	0.00025	0.0060614
-	23:22055460-22061477	0	2.03322	inf	nan	0.0001	0.00298488
BT.49282	23:22162641-22189911	3.19899	9.15832	1.51747	2.20768	0.0006	0.0116461
BT.105154	23:27175688-27196793	0.557602	1.4949	1.42275	1.81612	0.0031	0.0382177
SNORD52	23:27325037-27326174	375.885	1012.7	1.42984	1.38956	0.0022	0.0300732
-	23:27524517-27527023	435.114	1337.84	1.62044	2.27642	5.00E-05	0.00168949
HIST1H2AA	23:31577045-31589230	25.3955	74.4166	1.55106	2.50342	5.00E-05	0.00168949
BT.66635	23:38952209-39043167	3.41219	9.00418	1.3999	2.47519	0.0001	0.00298488
MYLIP	23:40770025-40790973	5.39096	21.6646	2.00673	3.12284	5.00E-05	0.00168949
DSP	23:47670502-47714288	2.70869	9.76164	1.84953	2.54724	5.00E-05	0.00168949
-	24:2485656-2558122	383.474	854.401	1.15578	1.7345	0.0017	0.0250202
MBP	24:2558225-2590450	12.9491	29.2685	1.1765	1.8162	0.0011	0.0181408
CYB5A	24:4413367-4445873	22.3443	45.0193	1.01064	2.49212	0.0036	0.0428158
B4GALT6	24:25770342-25836730	37.2011	17.8238	-1.06154	-1.96397	0.00295	0.0369284
TGIF1	24:37940261-37948732	24.479	51.607	1.07602	1.77042	0.0019	0.0272104
CCDC165	24:41543248-41689810	4.89953	2.19972	-1.15533	-1.84059	0.0008	0.0143027
BT.64758	24:42230549-42305185	76.4619	160.01	1.06535	1.72396	0.0033	0.0400404
BT.101003	24:43111843-43163936	4.6312	11.3052	1.28753	1.9768	0.00055	0.0109367

MAPK4	24:50684777-50745042	0.428852	2.34062	2.44834	2.35621	0.00095	0.0163093
SERPIN8	24:12694118-12736163	2.44484	13.8834	2.50555	2.98544	5.00E-05	0.00168949
BT.58893	24:12741839-12765329	41.6475	276.374	2.73032	3.67831	5.00E-05	0.00168949
TTR	24:25854674-25863535	292.728	125.629	-1.22039	-4.09682	0.00115	0.0186976
TTC39C	24:32921537-33024956	3.11533	8.44833	1.43928	2.18614	0.00085	0.0150217
RIOK3	24:33523339-33545584	21.9341	47.8711	1.12598	2.14798	0.00155	0.0233854
COLEC12	24:35630928-35816269	0.437313	2.46351	2.49398	2.98448	5.00E-05	0.00168949
CIDEA	24:43231406-43233297	49.1139	140.444	1.51579	2.13964	5.00E-05	0.00168949
EPG5	24:46046954-46174502	12.8867	54.1563	2.07125	2.52308	0.00085	0.0150217
PSTPIP2	24:46196112-46290465	40.2482	236.697	2.55605	3.71552	5.00E-05	0.00168949
DECR2	25:387896-395807	27.5008	13.768	-0.998154	-1.74125	0.0013	0.0203927
-	25:2492719-2520168	27.6851	1404.86	5.66517	37.2722	5.00E-05	0.00168949
-	25:2711184-2731711	0	83.4413	inf	nan	0.0016	0.023879
ZNF263	25:2733262-2740470	4.32897	24.0471	2.47377	3.56663	5.00E-05	0.00168949
SNN	25:10417664-10425321	41.3008	162.295	1.97438	5.02886	5.00E-05	0.00168949
TMC5	25:17123540-17201663	0.749722	2.67412	1.83464	2.0588	0.0011	0.0181408
OTOA	25:20377459-20446664	0.236953	0.914436	1.94828	1.83112	0.00275	0.0352551
IL4R	25:25139349-25189373	34.0334	84.1056	1.30525	1.89343	0.00055	0.0109367
BT.85344	25:26451071-26454431	61.097	121.612	0.993108	1.63114	0.0029	0.0365009
FBRS	25:27046296-27051971	22.5796	47.7063	1.07916	1.69769	0.0022	0.0300732
STX4	25:27412844-27418925	67.8188	153.506	1.17854	1.94572	0.0009	0.015665
BT.77188	25:27475330-27485029	47.2029	183.757	1.96085	2.83831	5.00E-05	0.00168949
BT.35761	25:28461991-28481944	6.029	20.0752	1.73542	1.93655	0.00035	0.00778905
RABGEF1	25:28482573-28534880	36.7718	201.964	2.45742	3.15576	5.00E-05	0.00168949
CLDN3	25:34018455-34019669	20.1543	44.7833	1.15188	2.57074	0.0016	0.023879
BT.56703	25:34634470-34642547	31.0461	65.0301	1.0667	1.70107	0.00245	0.0325567
PILRA	25:36844018-36855872	7.71025	1.88077	-2.03545	-2.22086	0.00045	0.00945137
-	25:37059881-37064822	0	146.135	inf	nan	0.0003	0.00696807
BT.105147	25:38200226-38280018	2.44127	7.04337	1.52863	1.94216	0.0011	0.0181408
C25H7ORF50	25:42234802-42303133	20.4439	104.138	2.34876	1.96723	0.0004	0.00870551
-	25:42303860-42305224	187.94	1851.13	3.30006	315.004	0.0002	0.00512801
COX19	25:42306359-42321964	10.9405	26.4573	1.27399	2.20141	0.00035	0.00778905
CCSMST1	25:1116676-1117657	28.1674	84.0227	1.57675	2.47244	5.00E-05	0.00168949
BT.45760	25:2214196-2217438	8.0259	33.6676	2.06863	2.51195	5.00E-05	0.00168949
BT.106170	25:2230776-2232712	3.54506	28.9622	3.03029	6.22317	5.00E-05	0.00168949
MEFV	25:2691853-2704324	77.757	471.349	2.59975	2.89321	5.00E-05	0.00168949
CREBBP	25:3050213-3169185	19.8919	47.1856	1.24616	1.85066	0.0008	0.0143027
-	25:10092567-10142825	5.58722	34.4501	2.62431	3.44812	5.00E-05	0.00168949
-	25:10144534-10145862	100.303	1629.27	4.0218	278.9	0.00095	0.0163093
-	25:10145933-10150975	1.7056	14.6596	3.1035	2.45538	0.00025	0.0060614
BT.99178	25:10151095-10222019	1.35746	10.4857	2.94944	2.69789	5.00E-05	0.00168949

-	25:10224617-10242623	0.530158	4.37137	3.04359	2.35543	0.00035	0.00778905
CPPED1	25:11462166-11602915	101.229	39.0786	-1.37317	-2.22956	5.00E-05	0.00168949
GPRC5B	25:17588927-17608885	5.99052	19.1589	1.67726	3.26565	0.0001	0.00298488
BT.67549	25:18102958-18122387	34.8781	84.2006	1.27151	1.71005	0.0026	0.0338024
CDR2	25:20218557-20288197	5.87379	11.9598	1.02583	1.96735	0.003	0.0373514
IGSF6	25:20308648-20357065	142.782	591.797	2.05129	2.70076	5.00E-05	0.00168949
XPO6	25:25881960-25987735	83.7227	294.321	1.8137	2.26107	0.0005	0.0101767
CD19	25:26158903-26169956	2.61686	8.46962	1.69446	2.02821	0.00045	0.00945137
STX1B	25:27381159-27412828	1.94758	28.6206	3.8773	3.92466	5.00E-05	0.00168949
BT.46193,PRSS36	25:27485085-27501201	6.74756	17.1881	1.34898	2.51117	0.0002	0.00512801
GUSB	25:28162568-28174955	144.022	65.5451	-1.13573	-2.10155	0.00165	0.0243622
ASL	25:28247948-28294982	48.252	20.3999	-1.24203	-2.32906	0.00075	0.0136024
-	25:28579921-28580641	0	752.567	inf	nan	0.0006	0.0116461
NCF1	25:33267457-33282335	268.15	784.974	1.5496	2.51536	0.00035	0.00778905
SH2B2	25:35183877-35217130	4.40785	13.3143	1.59483	2.24763	5.00E-05	0.00168949
SERPINE1	25:36198559-36206859	19.0645	92.0294	2.27121	3.82672	5.00E-05	0.00168949
BT.27151	25:36650860-36691626	60.5714	29.919	-1.01758	-1.6415	0.0026	0.0338024
AZGP1	25:36981868-36986566	34.3965	96.5326	1.48876	2.24967	5.00E-05	0.00168949
BT.88669,CYP3A5	25:37103039-37242576	28.4015	172.168	2.59977	3.94521	5.00E-05	0.00168949
LMTK2	25:38347324-38420461	8.9637	20.0046	1.15816	1.83087	0.0009	0.015665
DAGLB	25:38842843-38866581	68.1367	198.956	1.54594	1.85066	0.00095	0.0163093
GPR146	25:42234802-42303133	19.3853	77.0689	1.99119	2.3293	0.0039	0.045599
LIPM	26:10504439-10540469	2.84085	9.26148	1.70492	2.85616	0.00145	0.0222656
FAS	26:10662361-10748014	23.8251	142.382	2.57921	2.67583	5.00E-05	0.00168949
PCGF5	26:12876929-12931310	10.7843	20.9695	0.959358	1.86626	0.00435	0.0491152
C10ORF28	26:19126366-19197680	6.77045	14.9565	1.14345	1.94071	0.00105	0.0176318
SCD	26:21132134-21133969	85.0961	235.597	1.46915	2.21318	0.001	0.0169155
SFXN3	26:21731731-21738756	21.2085	8.64907	-1.29403	-2.18438	0.0001	0.00298488
BT.25271	26:22001749-22172725	9.83226	32.0212	1.70343	2.47845	5.00E-05	0.00168949
BT.20288	26:22890245-22898307	66.3023	352.745	2.41149	3.0443	5.00E-05	0.00168949
DUSP5	26:31326728-31338433	10.4244	24.8024	1.25051	1.87999	0.0015	0.0228053
TECTB	26:33093935-33113586	1.71556	5.66792	1.72414	2.23149	0.0007	0.0128987
BT.69011	26:39633698-39651266	17.866	50.5933	1.50173	2.57903	0.0001	0.00298488
-	26:47843183-47843353	18587.5	0	-inf	nan	5.00E-05	0.00168949
ANKRD22	26:10542378-10570091	39.2857	121.994	1.63473	3.22266	0.0001	0.00298488
SLC16A12	26:11141010-11169619	3.83669	15.4009	2.00508	2.524	0.0001	0.00298488
PIK3API,TM9SF3	26:17712945-17891473	78.6712	255.848	1.70138	2.15046	0.00025	0.0060614
-	26:17891701-17901997	990.123	3601.68	1.86299	262.511	0.0008	0.0143027
BT.65021	26:21141591-21149319	79.7945	249.551	1.64497	2.34742	0.00025	0.0060614
GPAM	26:32963413-33005262	19.0842	74.1183	1.95745	1.82635	0.002	0.0280894
C10ORF118	26:34884593-34927054	5.80584	14.7856	1.34862	2.18775	5.00E-05	0.00168949

ABLIM1	26:35198880-35385824	1.20487	3.90465	1.69632	1.75843	0.00175	0.0256741
LAP	27:5124122-5125987	41.6822	131.42	1.65669	11.0393	0.0026	0.0338024
BT.25659	27:5788619-5790534	9.17016	41.7429	2.18651	1.90365	0.00235	0.03147
ANKRD37	27:14706020-14708632	28.2777	72.6671	1.36164	2.17352	0.00045	0.00945137
MSR1	27:19976213-20056927	166.38	69.6058	-1.2572	-2.33596	0.00035	0.00778905
-	27:24255146-24256902	503.707	9675.05	4.26361	3.22587	5.00E-05	0.00168949
-	27:24279515-24280598	0	521.407	inf	nan	5.00E-05	0.00168949
IDO2	27:34707900-34774452	0.0564024	0.999064	4.14675	1.40781	0.0013	0.0203927
GOLGA7	27:36108111-36125175	40.3493	81.067	1.00657	1.76863	0.00335	0.0404341
-	27:36198088-36211950	2441.94	11383.6	2.22086	336.543	5.00E-05	0.00168949
AGPAT6	27:36212254-36229009	67.5437	225.722	1.74066	3.1339	5.00E-05	0.00168949
AP3M2	27:36716828-36734481	0.367138	2.20608	2.58709	2.49321	0.0001	0.00298488
IKBKB	27:36813158-36865778	25.9089	75.4165	1.54144	2.38255	5.00E-05	0.00168949
POLB	27:36877979-36902798	15.8787	69.9165	2.13854	3.7271	5.00E-05	0.00168949
VDAC5P	27:36921285-36933273	70.6691	153.943	1.12325	1.9732	0.0009	0.015665
TAP	27:4788446-4992414	16.7175	462.378	4.78965	4.84963	5.00E-05	0.00168949
DEFB4A	27:5425377-5427298	1417.4	656.6	-1.11016	-6.22335	0.00155	0.0233854
EBD	27:5483407-5539158	74.0001	35.7847	-1.04819	-2.75905	0.0017	0.0250202
BT.26980	27:6194469-6196146	866.614	4034.61	2.21897	282.514	0.0011	0.0181408
CASP3	27:14084621-14110610	7.09539	20.9018	1.55867	2.92809	5.00E-05	0.00168949
FAT1	27:15477548-15604015	3.10772	1.23503	-1.33131	-1.97942	0.00065	0.0121886
VPS37A	27:18914042-19052353	13.1589	40.8576	1.63457	3.6707	5.00E-05	0.00168949
ZDHHC2	27:19073727-19136692	12.0063	25.0989	1.06383	1.91665	0.00305	0.0378715
BT.63339	27:20419471-20636849	0.771459	2.81938	1.86972	1.8895	0.0031	0.0382177
PPP1R3B	27:24316622-24323722	26.4524	100.731	1.92903	2.96381	5.00E-05	0.00168949
BT.35049	27:28450184-28459083	22.2742	57.9567	1.3796	2.41036	0.0015	0.00417103
RET	28:13562992-13615888	0.130085	0.700372	2.42866	1.86932	0.0026	0.0338024
ARID5B	28:18003693-18191994	16.6306	43.872	1.39946	2.12213	0.00025	0.0060614
SIRT1	28:24556214-24582756	4.81953	10.8543	1.1713	2.02367	0.00135	0.0210576
CHST3	28:28223870-28259688	1.15455	4.08207	1.82197	1.79636	0.0018	0.026296
DDIT4	28:28483402-28485410	174.706	1033.39	2.56439	3.98569	5.00E-05	0.00168949
PLAU	28:29962495-29971029	262.214	1023.29	1.96439	2.04927	0.00025	0.0060614
PPIF	28:35167544-35173642	44.7104	96.4041	1.10848	3.66613	0.00095	0.0163093
RHOA	28:2167763-2177307	10.467	24.3344	1.21715	2.24734	0.00085	0.0150217
-	28:3153786-3155107	240.903	1611.85	2.74219	243.423	0.0016	0.023879
ARID4B	28:7972873-8110783	14.7204	34.7053	1.23735	2.02944	0.0005	0.0101767
GNG4	28:8340142-8408990	0.284556	1.92655	2.75923	2.64633	0.0001	0.00298488
LYST	28:8417602-8598463	109.283	2580.93	4.56175	17.1264	5.00E-05	0.00168949
RASGEF1A	28:13680210-13725902	33.3966	15.9282	-1.06812	-1.71569	0.0021	0.0292856
ANK3	28:15818094-16073196	1.3926	5.76192	2.04877	2.5825	5.00E-05	0.00168949
DNAJC12	28:24397287-24447263	72.0636	272.015	1.91634	2.60965	5.00E-05	0.00168949

PPA1	28:26576201-26614511	41.9588	93.0322	1.14876	2.72094	0.00075	0.0136024
PCBD1	28:27226794-27231724	23.3222	50.1968	1.10589	2.7096	0.00255	0.0334038
MMRN2	28:41886523-41901491	3.90257	1.44975	-1.42862	-2.14246	0.0011	0.0181408
NCOA4	28:44419335-44441664	59.3973	151.769	1.35341	2.13594	0.00035	0.00778905
ALOX5	28:44729722-44776997	19.7517	8.84569	-1.15893	-2.02295	0.0006	0.0116461
BT.43006	29:9806834-9927317	5.37127	17.8121	1.72952	2.29624	5.00E-05	0.00168949
GAB2	29:17544438-17887917	61.4085	151.042	1.29844	1.75125	0.0009	0.015665
VWA5A	29:27193398-27221915	40.1204	11.5239	-1.79971	-2.8159	5.00E-05	0.00168949
BT.25683	29:40648858-40657395	0	0.681571	inf	nan	5.00E-05	0.00168949
SCGB1D	29:41378326-41381132	218.52	805.455	1.88204	11.6068	5.00E-05	0.00168949
SCGB2A2	29:41396638-41400056	9.99629	32.7601	1.71247	5.67471	0.002	0.0280894
-	29:43742805-43746517	1664.58	6244.28	1.90738	295.74	5.00E-05	0.00168949
-	29:44297409-44299689	34.3817	199.625	2.53758	2.22385	0.0001	0.00298488
-	29:46717120-46717697	0	321.372	inf	nan	5.00E-05	0.00168949
-	29:50151791-50152665	0	11.3485	inf	nan	5.00E-05	0.00168949
IFITM3	29:51367008-51368065	1069.79	3229.75	1.5941	4.36828	0.0012	0.0192837
SAA3	29:26668046-26671801	90.7206	202.129	1.15577	1.78881	0.00125	0.0198792
BT.44411	29:43589926-43605003	4.94028	16.6741	1.75495	2.55802	5.00E-05	0.00168949
EHD1	29:43703965-43708218	55.8439	145.352	1.38008	2.27656	0.0001	0.00298488
CLCF1	29:45910396-45912701	42.7934	13.9557	-1.61653	-4.42683	0.00015	0.00417103
ALDH3B2	29:46143362-46150328	5.42169	20.0908	1.88972	2.40047	0.0001	0.00298488
CHKA	29:46225619-46281621	19.9998	43.9109	1.13459	1.86044	0.00245	0.0325567
BT.30964	29:46315559-46381073	19.0286	39.2332	1.04391	1.87443	0.00145	0.0222656
ENSBTAG0000004	29:46967273-46972900	5.84403	21.1834	1.8579	2.35303	0.00015	0.00417103
BT.27443	29:49332571-49353894	12.1019	3.35616	-1.85035	-2.47554	0.0001	0.00298488
BT.51424	29:49842960-49860405	385.035	838.992	1.12367	1.74179	0.00285	0.0362346
-	29:50864722-50869844	407.469	2282.14	2.48562	6.08985	0.00025	0.0060614
FCGR3A	3:7996470-8005228	18.3677	64.1614	1.80454	2.3862	0.0001	0.00298488
BT.45096	3:8879269-8892720	53.6248	27.2759	-0.975274	-1.68388	0.0031	0.0382177
CD48	3:9022903-9053379	116.227	365.441	1.65269	4.16791	5.00E-05	0.00168949
SLAMF1	3:9090440-9129487	0.878879	10.3207	3.55373	3.9305	5.00E-05	0.00168949
MUC1	3:15482821-15486936	27.3614	96.9395	1.82494	2.43995	5.00E-05	0.00168949
RAB13	3:16511099-16515182	8.76312	19.2619	1.13623	2.34224	0.0031	0.0382177
CRTC2	3:16535365-16544863	22.1664	52.9445	1.25611	1.96764	0.0002	0.00512801
S100A8	3:17146917-17147898	972.78	2326.91	1.25823	10.3822	0.0016	0.023879
-	3:20199631-20227547	7.4962	66.1753	3.14206	2.531	0.0001	0.00298488
BT.76892	3:20656592-20712080	1.50758	4.31465	1.51701	2.04242	0.00065	0.0121886
AMPD1	3:28756907-28768496	0.110819	0.958916	3.1132	2.79402	0.003	0.0373514
BCL2L15	3:29643175-29648016	39.5217	84.2742	1.09245	3.01496	0.0026	0.0338024
ADORA3	3:31900283-31991118	37.8899	13.6808	-1.46966	-2.91047	5.00E-05	0.00168949
BT.101639,OVGP1	3:32020913-32059347	10.6238	25.7844	1.2792	2.28168	0.0007	0.0128987

AKNAD1	3:34631047-34675858	0.497744	0.101475	-2.29427	-1.6172	0.0029	0.0365009
F3	3:49110155-49121034	3.7666	25.4723	2.7576	3.66877	5.00E-05	0.00168949
GBP5	3:54253031-54269514	9.5705	63.2799	2.72508	3.53377	5.00E-05	0.00168949
BT.24012	3:55063829-55085745	17.2741	46.24	1.42053	2.1337	0.0004	0.00870551
BT.39806	3:55179368-55210377	35.0266	187.193	2.418	5.34424	5.00E-05	0.00168949
MCOLN2	3:59286294-59351124	1.57793	6.03272	1.93478	2.69139	0.00015	0.00417103
LPAR3	3:59377051-59459794	0.713947	2.8697	2.00701	2.09144	0.00305	0.0378715
WLS	3:77396242-77511241	73.5993	300.872	2.03138	2.67751	5.00E-05	0.00168949
BT.67031	3:80775671-80915019	92.5053	212.516	1.19996	1.71989	0.00435	0.0491152
BT.45850	3:92411759-92576787	4.28582	9.40613	1.13403	1.59371	0.0043	0.0488299
BT.42861	3:98370382-98536867	7.71231	16.231	1.07352	1.70512	0.0029	0.0365009
BT.21055	3:100126200-100172587	58.48	224.331	1.93962	2.63955	0.0001	0.00298488
SLC6A9	3:102623350-102659082	43.9821	174.937	1.99185	2.86782	5.00E-05	0.00168949
C3H1ORF210	3:103318856-103327560	10.8587	30.1359	1.47264	1.8327	0.00235	0.03147
SLC2A1	3:103902889-103931096	79.5945	179.865	1.17618	2.09116	0.00375	0.044144
HIVEP3	3:105213589-105268006	8.27296	18.6467	1.17245	1.64313	0.0014	0.0216421
CSF3R	3:109993814-110014737	224.922	942.911	2.0677	1.75534	0.001	0.0169155
MRPS15,OSCP1	3:110014937-110055110	55.3985	160.747	1.53687	3.70252	5.00E-05	0.00168949
COL8A2	3:110280034-110302198	4.90771	1.45267	-1.75634	-2.0014	0.00045	0.00945137
EFHD1	3:113006124-113050192	24.1458	57.5827	1.25386	2.15249	0.00195	0.0276684
BT.66090	3:115132606-115232304	16.6915	40.274	1.27073	1.70021	0.00195	0.0276684
CXCR7	3:116650277-116662501	0.870015	6.52345	2.90652	4.29571	5.00E-05	0.00168949
BT.29245	3:117584072-117637812	1.06293	5.98188	2.49256	2.90914	5.00E-05	0.00168949
CSF2RA	3:119457276-119467374	61.1222	164.205	1.42573	2.0585	0.0003	0.00696807
FCRLA	3:7898359-7904866	0.868531	5.96619	2.78016	2.11712	0.0006	0.0116461
ENSBTAG0000003	3:12170092-12189927	13.3965	3.76722	-1.83029	-2.56621	0.00025	0.0060614
-	3:13100571-13104482	387.64	0	-inf	nan	0.0027	0.0347754
RAB25	3:14755581-14762653	13.9815	37.3553	1.41779	2.17479	0.0003	0.00696807
RXFP4	3:14871053-14872623	4.26849	11.7757	1.46401	2.84704	0.00215	0.029713
BT.68623	3:16176558-16231747	22.1779	45.8208	1.04688	1.59338	0.0033	0.0400404
-	3:17742181-17743044	0	5646.02	inf	nan	5.00E-05	0.00168949
-	3:17753430-17754283	0	4461.32	inf	nan	0.0014	0.0216421
CGN	3:19290675-19315945	1.53575	4.87507	1.66648	2.18713	0.00015	0.00417103
PIP5K1A	3:19613994-19653222	11.2226	21.7448	0.954263	1.71428	0.0044	0.0493571
C1ORF51	3:20400968-20404346	1.66625	10.7965	2.69589	2.99051	5.00E-05	0.00168949
FAM46C	3:25703049-25722965	4.91403	14.4345	1.55455	2.08278	0.00055	0.0109367
CD101	3:26317280-26364621	6.40275	27.8797	2.12245	3.15957	5.00E-05	0.00168949
-	3:28590778-28595584	0	2.87886	inf	nan	0.0002	0.00512801
ENSBTAG0000003	3:28623390-28623702	20.036	0	-inf	nan	5.00E-05	0.00168949
-	3:31991617-31996063	1361.03	7264.46	2.41616	10.2308	5.00E-05	0.00168949
CSF1	3:33603162-33621087	106.026	715.149	2.75382	2.64922	5.00E-05	0.00168949

GSTM4	3:33874018-33880598	2.54832	11.3171	2.15089	2.22985	0.00025	0.0060614
BT.105016	3:34246148-34270501	1.32986	4.43294	1.73699	2.53093	5.00E-05	0.00168949
KIAA1324	3:34313871-34387455	1.47726	4.84525	1.71365	2.27857	0.0001	0.00298488
LPHN2	3:62643352-62946195	0.576852	1.89348	1.71477	2.04446	0.0008	0.0143027
IFI44	3:66277937-66299876	33.3444	12.433	-1.42327	-2.44698	5.00E-05	0.00168949
GIPC2	3:66795566-66895377	4.20471	13.2667	1.65773	2.12755	0.0005	0.0101767
-	3:68361329-68612507	0	46.2839	inf	nan	5.00E-05	0.00168949
-	3:79233485-79257796	6.98653	35.3985	2.34104	2.74378	0.0001	0.00298488
PDE4B	3:79274270-79823433	40.8141	243.597	2.57736	3.07491	5.00E-05	0.00168949
INADL	3:84099475-84479712	3.20358	15.6028	2.28405	2.04484	0.00025	0.0060614
HOOK1	3:86650797-86718972	2.86585	12.2355	2.09404	2.70297	5.00E-05	0.00168949
BT.104733	3:102526630-102599425	0.930431	12.3303	3.72817	3.2889	5.00E-05	0.00168949
SIAT6	3:102718270-102769948	15.8997	46.1968	1.53879	2.75169	5.00E-05	0.00168949
KDM4A	3:102799453-102966062	47.5373	137.098	1.52807	2.80999	0.00075	0.0136024
TMEM125	3:103337707-103340965	5.54499	16.767	1.59636	2.20897	0.0005	0.0101767
CTPS	3:105800996-105832415	2.6909	6.75115	1.32704	2.01299	0.0006	0.0116461
RLF	3:106496804-106576048	10.5832	53.2491	2.33098	3.39426	5.00E-05	0.00168949
ZC3H12A	3:108990073-108999454	19.2369	54.6344	1.50594	2.30958	0.0001	0.00298488
IQCA1	3:116402593-116592405	3.0201	0.823245	-1.8752	-2.09725	0.00055	0.0109367
ARL4A	4:20295728-20297969	12.8538	33.3567	1.37578	2.21834	0.00035	0.00778905
TSPAN13	4:25213087-25251241	17.7358	39.1501	1.14235	2.62982	0.00025	0.0060614
RUNDC3B	4:32691261-32858257	0.161744	0.737831	2.18958	2.10447	0.0012	0.0192837
SEMA3A	4:36260451-36807404	12.5433	5.20262	-1.26961	-2.13237	0.00055	0.0109367
PION	4:44045079-44198584	11.8665	47.6283	2.00493	3.60213	5.00E-05	0.00168949
PRKAR2B	4:48434954-48535433	4.51203	14.0013	1.63372	2.97086	5.00E-05	0.00168949
BT.64791	4:60940662-61125662	8.15833	20.9495	1.36057	1.93912	0.00145	0.0222656
MYO1G	4:77317208-77333095	103.145	43.139	-1.25761	-2.25624	0.00045	0.00945137
GCK	4:77820948-77857151	10.8812	34.6096	1.66934	2.59902	5.00E-05	0.00168949
INHBA	4:79983847-79997754	4.02652	19.7514	2.29435	2.88823	5.00E-05	0.00168949
TMEM140	4:99699887-99719088	25.3632	99.4392	1.97108	3.21509	0.0001	0.00298488
MGAM	4:106115756-106206212	2.91976	6.68245	1.19453	1.89898	0.0011	0.0181408
BT.18132	4:108440617-108471244	0.915216	2.3587	1.36581	1.6794	0.0023	0.0310714
BT.20772	4:114075506-114086267	1.35707	5.08924	1.90696	1.99199	0.0013	0.0203927
NUB1	4:114689766-114725191	39.2171	118.953	1.60084	2.84464	0.00025	0.0060614
GALNT11	4:115306056-115360689	11.39	28.147	1.30521	2.43519	0.0002	0.00512801
BT.20327	4:7528099-7556554	102.227	423.839	2.05174	2.86535	5.00E-05	0.00168949
TFPI2	4:11035478-11039782	0.362472	2.74862	2.92277	3.31448	0.00135	0.0210576
BT.66886	4:25258618-25271426	4.03185	13.6051	1.75464	2.02576	0.00225	0.0305452
-	4:31643942-31651050	1210.02	4161.78	1.78217	262.992	0.001	0.0169155
IGF2BP3	4:32077890-32223053	0.896321	0.243842	-1.87807	-1.7087	0.0031	0.0382177
PNPLA8	4:49866429-49916582	11.6073	23.9517	1.04509	1.82461	0.00255	0.0334038

C4H7orf41	4:66610954-66643765	3.34495	7.4616	1.1575	1.99003	0.002	0.0280894
-	4:70011729-70037099	0	53.342	inf	nan	5.00E-05	0.00168949
NFE2L3	4:70211379-70246125	8.23839	20.5565	1.31916	2.18721	0.00015	0.00417103
STEAP4	4:72833496-72862043	16.4877	150.003	3.18553	6.60787	5.00E-05	0.00168949
CADPS2	4:87522150-88100974	0.844281	2.42594	1.52275	1.95336	0.00145	0.0222656
UBE2H	4:94467622-94565768	23.355	46.9812	1.00835	2.49335	0.0022	0.0300732
JHDM1D	4:104370183-104520655	12.8615	29.2017	1.18299	2.01117	0.0008	0.0143027
BRAF	4:104864931-105031570	7.42811	33.3321	2.16585	3.66228	5.00E-05	0.00168949
BT.40997	4:107804451-107821622	0.351658	1.34833	1.93893	2.07548	0.00245	0.0325567
EZH2	4:112815326-112870132	20.1015	64.7838	1.68833	2.78711	5.00E-05	0.00168949
BT.104098	5:10731240-11118179	17.7523	9.02941	-0.975306	-1.72042	0.0041	0.0471398
NFE2	5:25929034-25936083	38.1783	206.508	2.43538	2.77271	5.00E-05	0.00168949
ITGB7	5:26957785-26973297	35.6545	80.4143	1.17337	1.64851	0.0041	0.0471398
FMNL3	5:30320680-30372554	49.9197	146.758	1.55576	2.31753	5.00E-05	0.00168949
RND1	5:31090624-31097555	1.46815	8.97678	2.6122	3.7591	5.00E-05	0.00168949
BT.61413	5:31155390-31176231	1.90804	4.6695	1.29118	1.50622	0.00345	0.0413521
CCNT1	5:31221135-31257293	11.8953	27.0443	1.18493	1.95948	0.0004	0.00870551
BT.61412	5:32550520-32606144	38.2362	76.8998	1.00804	2.08289	0.0039	0.045599
NELL2	5:35656888-36042694	3.65806	14.1894	1.95567	3.17432	5.00E-05	0.00168949
BT.105308	5:41964154-42147586	0.422569	1.79845	2.08949	2.20409	0.00025	0.0060614
AVIL	5:55983553-56002079	0.4844	3.79663	2.97045	2.309	0.0002	0.00512801
BT.87427	5:57428165-57454003	43.3939	106.502	1.29532	2.24797	0.00025	0.0060614
C12ORF63	5:61225294-61406864	0.417215	3.34151	3.00164	2.04899	0.00065	0.0121886
CHST11	5:68385644-68645774	26.436	64.8806	1.29528	2.09491	0.0003	0.00696807
TCP11L2	5:70013666-70054229	2.35396	5.32036	1.17644	2.14755	0.0013	0.0203927
TIMP3	5:71475846-71926718	3.7093	11.8117	1.67101	2.60932	5.00E-05	0.00168949
NCF4	5:75641216-75659769	66.0657	193.569	1.55087	3.01963	5.00E-05	0.00168949
CSF2RB	5:75724562-75745890	85.077	382.565	2.16886	2.43314	5.00E-05	0.00168949
CYTH4	5:76080278-76117408	72.9748	229.856	1.65526	1.91224	0.0004	0.00870551
BT.70677	5:78552286-78637341	1.54387	3.78256	1.29281	1.8946	0.0044	0.0493571
CAPRIN2	5:79165892-79258697	0.103577	0.490964	2.24492	1.67381	0.00095	0.0163093
SLCO1A2	5:89199216-89311142	4.81932	12.9518	1.42625	2.64773	5.00E-05	0.00168949
EPS8	5:94553809-94749093	15.5678	6.10635	-1.35018	-2.14475	0.00015	0.00417103
BT.76070	5:99102506-99103394	8.00532	27.1814	1.76359	4.10419	0.00015	0.00417103
-	5:100411693-100435325	1.61918	7.76671	2.26204	2.16977	0.001	0.0169155
CD69,ENSBTAG00	5:100740573-100779160	44.9525	312.284	2.79639	3.36834	5.00E-05	0.00168949
-	5:101930839-101948265	39.7164	187.216	2.2369	1.23941	0.0022	0.0300732
-	5:101948941-101999566	143.661	1898.45	3.72408	3.04796	0.00375	0.044144
NECAP1	5:102050907-102062664	19.2546	42.1257	1.1295	2.0751	0.00055	0.0109367
ACRBP	5:104153957-104161646	12.4567	5.01527	-1.31253	-1.98591	0.00065	0.0121886
LPAR5	5:104163206-104173568	5.70399	2.11464	-1.43156	-1.93102	0.00155	0.0233854

SCNN1A	5:104364799-104396610	1.56689	5.6287	1.8449	2.3169	5.00E-05	0.00168949
VWF	5:104603431-104727301	61.5836	27.1828	-1.17985	-1.8023	0.00235	0.03147
EFCAB4B,PARP11	5:106604204-106765623	12.4325	29.4105	1.24222	1.95533	0.00145	0.0222656
TSPAN11	5:106975936-107038059	34.828	17.9257	-0.958218	-1.65548	0.0038	0.0446185
B4GALNT3	5:107901713-107934878	2.567	8.30987	1.69475	2.33887	5.00E-05	0.00168949
GCAT	5:110125414-110132060	10.3007	30.0491	1.54458	2.22211	0.00025	0.0060614
MAFF	5:110475505-110484826	13.9592	50.5179	1.85558	2.90226	5.00E-05	0.00168949
GTPBP1	5:110846348-110870042	12.6834	37.6274	1.56884	2.41807	0.00015	0.00417103
BT.48025	5:111044939-111048603	153.472	352.411	1.19928	1.78311	0.0019	0.0272104
BT.76048	5:111462844-111464936	295.41	939.514	1.6692	2.07615	0.001	0.0169155
BT.37218	5:116316366-116335303	40.1415	87.0492	1.11674	2.22575	0.00135	0.0210576
PIM3	5:120970010-120973246	85.1392	212.187	1.31744	2.66726	0.0009	0.015665
-	5:7310912-7311116	641.122	0	-inf	nan	0.0029	0.0365009
DUSP6	5:19276347-19280070	137.788	353.58	1.35959	1.71874	0.00365	0.0433359
BTG1	5:21900979-22088781	267.69	836.401	1.64363	2.03613	0.0009	0.015665
BT.87397	5:24928041-25031318	1.74879	4.19289	1.26159	1.77083	0.00195	0.0276684
ACVR1B	5:28038531-28070153	27.3856	135.411	2.30586	3.55431	5.00E-05	0.00168949
BT.28710	5:28097836-28111514	2.47632	10.0237	2.01715	2.68814	5.00E-05	0.00168949
GPD1	5:29958500-29964790	25.5566	69.2707	1.43855	2.12189	0.00115	0.0186976
C5H12orf68	5:32277007-32278883	0.576109	6.54378	3.50571	4.06502	5.00E-05	0.00168949
SLC48A1	5:32630915-32676306	43.857	18.5913	-1.23818	-1.78223	0.0032	0.0392405
FAM113B	5:33141573-33339728	5.39753	40.21	2.89718	8.36808	5.00E-05	0.00168949
LRRK2	5:40703504-40916225	7.39613	16.4933	1.15704	1.93202	0.002	0.0280894
BT.51933	5:43746463-43881004	0.321379	3.22359	3.32632	3.5314	5.00E-05	0.00168949
RAB3IP	5:43887152-43944943	70.3104	382.345	2.44306	2.80117	5.00E-05	0.00168949
USP15	5:51380095-51510100	49.0257	143.333	1.54776	1.99142	0.001	0.0169155
SLC16A7	5:53987908-54214799	0.590204	2.06833	1.80918	2.57686	0.00185	0.0267998
IL23A	5:57333495-57335062	11.7603	30.7863	1.38837	1.68721	0.0018	0.026296
PAH	5:66950500-67040705	27.345	99.2282	1.85947	3.06239	5.00E-05	0.00168949
FOXRED2	5:75275059-75293236	9.8054	4.09599	-1.25936	-1.9684	0.00085	0.0150217
IL2RB	5:75927871-75967613	2.26822	11.2079	2.30488	1.80597	0.00225	0.0305452
BICD1	5:77857447-78101845	0.424358	4.13826	3.28567	3.33307	5.00E-05	0.00168949
C5H12orf35	5:78299381-78326559	5.77867	14.9408	1.37045	2.21369	0.00045	0.00945137
STK38L	5:82972062-83055318	13.6175	35.001	1.36193	1.96944	0.00105	0.0176318
PIK3C2G	5:91835145-92300259	0.763995	2.58254	1.75716	1.87053	0.00205	0.0286751
APOLD1	5:97520909-97526540	2.24114	6.00646	1.42228	2.31409	0.00045	0.00945137
GABARAPL1	5:100205185-100215034	55.9096	189.588	1.7617	3.12453	5.00E-05	0.00168949
-	5:100823210-100849800	0.803761	5.20564	2.69524	1.76035	0.0019	0.0272104
SLC2A3	5:101896621-101909500	294.453	2349.74	2.99639	3.05253	0.00125	0.0198792
BT.98677	5:104273437-104300410	10.8099	40.9548	1.92167	2.488	0.0001	0.00298488
CCND2	5:106253906-106277822	7.67494	20.0356	1.38434	1.89118	0.00095	0.0163093

KDM5A	5:107730639-107791602	8.83107	18.8661	1.09514	1.78279	0.00275	0.0352551
-	5:109560948-109561719	0	355.271	inf	nan	5.00E-05	0.00168949
SOX10	5:110261031-110280622	9.30459	20.6998	1.15361	1.73963	0.0042	0.0479306
JOSD1	5:110829051-110840263	27.4446	58.0711	1.0813	1.7631	0.00185	0.0267998
CYP2D14	5:113621621-113625976	33.5066	17.1783	-0.963859	-1.63661	0.00325	0.0397126
NFAM1	5:113836090-113882202	82.0992	191.177	1.21947	1.71557	0.00095	0.0163093
A4GALT	5:114071761-114096206	1.23054	5.50236	2.16075	2.19437	0.0005	0.0101767
ENSBTAG000000C	5:114966365-115060319	1.44654	7.46186	2.36693	2.79331	0.0002	0.00512801
CPT1B	5:120098391-120106718	11.6131	3.43939	-1.75553	-2.81647	5.00E-05	0.00168949
IL17REL	5:120992218-121010327	15.9534	48.2933	1.59796	2.30003	0.00025	0.0060614
C4ORF3	6:7145413-7150482	95.2785	196.336	1.0431	2.52722	0.0027	0.0347754
SLC39A8	6:23815386-23898886	36.4736	121.768	1.73921	3.07855	5.00E-05	0.00168949
ABCG2	6:37903128-38030583	28.1404	94.3204	1.74493	2.55439	5.00E-05	0.00168949
BT.61466	6:46724497-46749777	11.182	37.0524	1.72839	2.39099	5.00E-05	0.00168949
BT.22022	6:58486539-58565108	2.65048	6.27487	1.24333	1.62689	0.0044	0.0493571
BT.53393	6:60848685-60896785	4.86704	55.6961	3.51646	4.94107	5.00E-05	0.00168949
IL-8	6:90559881-90563647	300.02	4877.96	4.02315	3.68843	0.00125	0.0198792
CXCL6	6:90645963-90648076	211.714	793.884	1.90681	2.57572	0.004	0.0464538
CXCL2	6:90695493-90697557	377.507	2735.45	2.8572	3.8648	5.00E-05	0.00168949
CXCL2	6:90811061-90824841	560.282	2712.03	2.27515	2.3789	5.00E-05	0.00168949
AGPAT9	6:100069875-100141603	18.897	56.9207	1.59079	2.76953	5.00E-05	0.00168949
BT.64781	6:103321457-103511357	0.22933	0.835201	1.8647	1.75455	0.0015	0.0228053
SH3BP2	6:108023959-108034760	109.975	263.689	1.26166	1.6842	0.00215	0.029713
IDUA	6:109088590-109102713	27.1165	13.5102	-1.00512	-2.13029	0.0023	0.0310714
TACC3	6:109631168-109645418	30.1561	82.0535	1.44411	1.68867	0.0014	0.0216421
CC2D2A	6:115477254-115563715	0.115585	0.856633	2.88972	2.63017	0.0001	0.00298488
ALPK1	6:14280382-14401676	7.06277	25.6464	1.86045	2.48822	0.00055	0.0109367
TET2	6:21176965-21317621	14.3965	33.5877	1.22221	1.82066	0.0012	0.0192837
BT.60919	6:23557310-23679508	42.4578	188.038	2.14692	2.95522	5.00E-05	0.00168949
-	6:24101119-24336676	2.36434	8.92027	1.91565	2.13637	0.00065	0.0121886
HERC5	6:37681999-37728536	13.0088	36.1938	1.47626	2.23403	0.00045	0.00945137
HERC6	6:37736092-37793279	16.4902	67.0476	2.02358	3.04716	5.00E-05	0.00168949
RELL1	6:58565924-58660258	20.2605	49.0854	1.27662	2.28396	0.0004	0.00870551
BT.53706	6:59823315-59866460	61.0463	192.593	1.65758	2.30175	0.00055	0.0109367
TEC	6:68468929-68635494	8.01373	22.1735	1.46829	2.59484	5.00E-05	0.00168949
CHIC2	6:71186362-71245780	9.78968	22.1195	1.17599	2.6986	0.0004	0.00870551
RASSF6	6:90373216-90429759	0.287099	1.60497	2.48293	1.80701	0.0019	0.0272104
BTC	6:91430304-91480129	0.392117	1.72745	2.13929	2.30841	0.00095	0.0163093
SCARB2	6:92797819-92879565	137.13	63.8962	-1.10174	-1.91855	0.0043	0.0488299
ANKRD56	6:93486377-93488711	0.817476	2.95306	1.85296	2.22771	0.0024	0.0320774
ANTXR2	6:96346731-96526016	52.6799	173.083	1.71614	2.15691	0.002	0.0280894

PRKG2	6:97652568-97775756	1.87793	9.2521	2.30064	2.74131	0.0001	0.00298488
RASGEF1B	6:97967085-98026691	44.4392	158.445	1.83408	2.97112	5.00E-05	0.00168949
HPSE	6:99846840-99892778	4.21835	15.8005	1.90522	2.91465	5.00E-05	0.00168949
KLHL8	6:103829607-103897375	46.6033	121.706	1.38489	2.48704	0.00035	0.00778905
WFS1	6:104673700-104704644	35.4928	18.1871	-0.964608	-1.69357	0.0033	0.0400404
SLC2A9	6:109884666-110062237	20.9652	55.3594	1.40083	1.59291	0.0042	0.0479306
PROM1	6:115980288-116111860	2.73652	5.96531	1.12425	1.7655	0.00405	0.0467594
TAPT1	6:116194012-116241336	12.9272	29.682	1.19918	2.02631	0.00185	0.0267998
HOMER3	7:4207322-4215509	18.8261	9.12588	-1.0447	-1.65719	0.0025	0.0331256
BT.3469	7:4586620-4667865	33.1519	94.8325	1.51629	2.19446	0.0001	0.00298488
ISYNA1	7:4669405-4672648	4.22758	21.024	2.31413	3.50465	5.00E-05	0.00168949
IL12RB1	7:5050174-5068855	0.211504	1.02559	2.2777	1.81356	0.0013	0.0203927
CPAMD8	7:5991420-6095676	2.0733	0.74225	-1.48195	-1.76225	0.00165	0.0243622
ENSBTAG000000C	7:11603167-11942226	4.50731	11.0226	1.29013	2.0272	0.0026	0.0338024
EMR3	7:12205984-12271032	51.374	165.254	1.68557	2.54728	5.00E-05	0.00168949
DNAJB1	7:12366855-12370535	70.9362	505.158	2.83214	3.73422	5.00E-05	0.00168949
HOOK2	7:13862727-13874728	4.97599	11.9271	1.26119	1.79162	0.00115	0.0186976
ICAM1	7:16018201-16050247	64.0956	228.964	1.83682	2.79201	5.00E-05	0.00168949
BT.34883	7:16054554-16061272	0.18267	3.71818	4.34728	3.38641	5.00E-05	0.00168949
PDE4A	7:16176855-16215655	14.3286	7.1655	-0.999764	-1.67008	0.0028	0.0357634
RETN	7:17737515-17738903	165.828	483.242	1.54306	5.12144	5.00E-05	0.00168949
C19ORF59	7:17745296-17749750	58.1905	311.794	2.42174	3.13777	5.00E-05	0.00168949
BT.64160	7:19076009-19080237	18.2257	87.3683	2.26113	3.20684	5.00E-05	0.00168949
SAFB2	7:19908340-19936959	34.7149	87.2759	1.33003	2.10728	0.0005	0.0101767
STAP2	7:20966850-20978542	14.3009	34.3806	1.26549	1.6258	0.00345	0.0413521
IRF1	7:23235248-23313486	56.4242	246.456	2.12695	2.8149	0.0001	0.00298488
FNIP1	7:23988065-24063506	15.5645	20.6686	1.35228	0.775844	0.0001	0.00298488
CEP120	7:31688461-31774451	3.66722	9.48425	1.37085	2.27486	0.00015	0.00417103
NLRP3	7:42026046-42075814	15.4536	67.8732	2.1349	1.94367	0.0002	0.00512801
MIDN	7:45307480-45337403	52.3019	121.649	1.21779	1.74029	0.00115	0.0186976
UBE2B	7:47528580-47545655	138.348	378.453	1.45181	2.42762	0.00015	0.00417103
MGC128424	7:64133811-64153713	52.109	146.816	1.4944	3.01067	5.00E-05	0.00168949
GPX3	7:64286947-64295116	15.7579	51.4593	1.70736	2.87412	5.00E-05	0.00168949
GM2A	7:64499095-64511547	171.062	88.1338	-0.956747	-2.78639	0.0034	0.0408591
CYFIP2	7:70982412-71115619	6.37722	19.4502	1.60879	2.41365	5.00E-05	0.00168949
FAM129C	7:5494989-5514016	27.2309	12.4381	-1.13048	-1.71436	0.00215	0.029713
SLC27A1	7:5529912-5571775	49.1028	23.7197	-1.04972	-1.75415	0.00395	0.045989
-	7:6615879-6616787	270.056	666.6	1.30356	33.4416	0.0026	0.0338024
HSH2D	7:7873254-7894542	19.1472	65.7581	1.78003	2.61515	5.00E-05	0.00168949
NFIX	7:13592199-13685027	5.06189	16.2839	1.6857	2.22894	0.00025	0.0060614
JUNB	7:13851130-13852933	246.255	773.292	1.65086	1.74101	0.001	0.0169155

MUC16	7:14314679-14384939	1.07003	4.28096	2.00028	2.47381	5.00E-05	0.00168949
ICAM3	7:16087158-16094419	72.917	220.62	1.59723	2.42975	0.0002	0.00512801
AP1M2	7:16302065-16312824	9.45615	25.4637	1.42912	2.26956	0.0002	0.00512801
CD320	7:18183236-18187953	9.7782	24.0392	1.29775	2.7821	0.0007	0.0128987
EMR1,EMR4P	7:18709362-18834730	65.4482	332.892	2.34663	2.88726	5.00E-05	0.00168949
VAV1	7:18866560-18937070	39.975	83.452	1.06185	1.78699	0.00315	0.0387649
TRIP10	7:18967188-18970399	8.89999	19.5531	1.13552	2.44444	0.00415	0.047675
TNFSF9	7:19187446-19190363	18.064	57.623	1.67353	3.48288	0.0001	0.00298488
VMAC	7:19694192-19697346	12.4685	5.98343	-1.05925	-1.74304	0.00435	0.0491152
CREB3L3	7:21088134-21099619	10.5991	3.4163	-1.63344	-2.01769	0.0001	0.00298488
FZR1	7:21613838-21631261	19.6626	40.7975	1.05303	1.71825	0.0028	0.0357634
S1PR4	7:21889525-21890683	9.32485	33.001	1.82336	3.78902	5.00E-05	0.00168949
GADD45B	7:22411967-22414079	42.805	275.167	2.68445	4.80359	5.00E-05	0.00168949
PDLIM4	7:23443527-23457942	119.639	59.8568	-0.999095	-1.64861	0.0033	0.0400404
SLC27A6	7:26237928-26329594	4.09415	18.2944	2.15977	2.99538	5.00E-05	0.00168949
CLK4	7:41100795-41122592	11.1355	31.6037	1.50493	2.73787	5.00E-05	0.00168949
R3HDM4	7:45053756-45063670	26.3213	66.1827	1.33022	2.08244	0.0003	0.00696807
SBNO2	7:45208809-45251042	39.0097	156.351	2.00288	2.57161	5.00E-05	0.00168949
AFF4	7:46082729-46161911	20.295	51.327	1.3386	2.00448	0.00045	0.00945137
-	7:62844074-62853642	6.18565	61.1909	3.30632	29.1344	0.0032	0.0392405
BT.89338	7:64054327-64065549	29.9625	63.769	1.0897	1.76746	0.0019	0.0272104
TNIP1	7:64295656-64339418	121.273	436.011	1.84611	2.18867	0.00015	0.00417103
NMUR2	7:65631968-65649628	1.28805	10.9358	3.08579	2.68428	5.00E-05	0.00168949
BT.44707	7:71158811-71250704	15.6359	47.4039	1.60014	2.09354	0.00045	0.00945137
IL12B	7:73002515-73021185	1.87443	23.0994	3.62334	3.59821	5.00E-05	0.00168949
ATP10B	7:74334044-74472502	0.136574	0.821254	2.58815	2.58228	0.0006	0.0116461
HAPLN1	7:85845447-85924686	0.145062	0.922602	2.66904	1.90276	0.003	0.0373514
BT.56524	7:92440984-92451738	12.4655	29.9532	1.26477	2.13346	0.00035	0.00778905
ELL2	7:97620030-97694024	56.8899	165.77	1.54294	2.47731	5.00E-05	0.00168949
CHD1	7:100492793-100566372	13.0515	32.6208	1.32158	2.07519	0.00075	0.0136024
BT.17789	7:102456174-102555855	23.179	47.9145	1.04765	2.28185	0.0022	0.0300732
-	8:16727673-16727979	0	257.643	inf	nan	0.0003	0.00696807
BT.45949	8:23339674-23369117	19.8005	8.34343	-1.24683	-2.72956	0.00055	0.0109367
BT.91925	8:29860275-30155742	13.6414	43.5198	1.67368	1.96618	0.0002	0.00512801
ENSBTAG0000004	8:39364223-39483004	403.807	2525.7	2.64494	91.5451	5.00E-05	0.00168949
BT.29711	8:45568974-45696886	4.04498	12.5481	1.63326	2.43483	5.00E-05	0.00168949
FAM189A2	8:45739649-45816965	0.919911	3.43296	1.89989	1.96379	0.00125	0.0198792
UNC13B	8:59797488-60010848	3.44469	12.8258	1.8966	3.10422	5.00E-05	0.00168949
TDRD7	8:63071038-63173712	14.978	30.9042	1.04496	1.74651	0.0034	0.0408591
NR4A3	8:65334777-65373695	46.4159	128.382	1.46776	2.07316	0.0002	0.00512801
SLC39A14	8:70186538-70237645	2.92592	7.40614	1.33983	2.32806	5.00E-05	0.00168949

PPP3CC,SORBS3	8:70262315-70384759	40.7046	19.0582	-1.09478	-1.8133	0.0009	0.015665
ENSBTAG0000003	8:70799931-70896918	39.4235	16.5573	-1.25159	-2.20631	0.0008	0.0143027
SLC25A37	8:71477134-71588259	23.0108	54.6412	1.24768	1.75769	0.00115	0.0186976
ADAM28,ADAMD	8:72394890-72522938	19.8213	6.22575	-1.67073	-2.86787	5.00E-05	0.00168949
PTK2B	8:75713096-75850738	67.9267	181.533	1.41818	1.8607	0.0012	0.0192837
UBAP1	8:76920746-76988252	44.1538	145.018	1.71562	2.71545	5.00E-05	0.00168949
FGD3	8:85810471-85852096	25.2887	56.9018	1.16998	1.67335	0.00255	0.0334038
WNK2	8:85984691-86130645	1.19982	2.94483	1.29536	1.50442	0.00405	0.0467594
NFIL3	8:87876586-87893182	81.8851	429.694	2.39164	3.30733	5.00E-05	0.00168949
SEMA4D	8:90136711-90262973	74.2767	175.767	1.24268	1.96894	0.00345	0.0413521
BT.75887	8:101280065-101406330	1.65084	3.8576	1.22451	1.72097	0.00335	0.0404341
BSPRY	8:104306682-104329562	6.66916	15.7011	1.23529	1.70952	0.00405	0.0467594
ZNF618	8:104797237-104995986	6.44479	2.44347	-1.3992	-2.08043	0.0002	0.00512801
PAPPA	8:107114698-107380389	5.70408	2.4673	-1.20906	-1.86519	0.001	0.0169155
TLR4	8:108828898-108839910	107.894	325.639	1.59365	1.92713	0.0033	0.0400404
BLK	8:7658876-7710709	0.242379	1.70988	2.81856	2.61767	0.00235	0.03147
PD-L1	8:39494264-39514666	47.3818	308.978	2.7051	3.12324	5.00E-05	0.00168949
BT.25287	8:39632637-39750403	10.7547	35.4372	1.72029	3.01042	5.00E-05	0.00168949
BT.65534	8:62021938-62064549	1.23483	3.01842	1.28948	1.76446	0.00215	0.029713
DOK2	8:69724703-69729317	46.1188	21.1059	-1.12771	-2.35695	0.00065	0.0121886
B4GALT1	8:76176881-76232330	73.1996	163.249	1.15717	1.81724	0.00335	0.0404341
AQP3	8:76525368-76531334	3.41517	9.96926	1.54553	2.68147	0.0003	0.00696807
RASEF	8:77514030-77609180	2.03146	6.38611	1.65242	2.33381	0.0002	0.00512801
SLC28A3	8:78871654-78944400	13.4293	44.3559	1.72374	2.78743	5.00E-05	0.00168949
ZCCHC6	8:80842964-80900965	21.524	73.2781	1.76743	2.4737	5.00E-05	0.00168949
FBP1	8:82460863-82491694	16.1514	41.1439	1.34902	2.98778	0.0004	0.00870551
NINJ1	8:85936414-85947675	130.784	337.719	1.36864	2.91556	0.00035	0.00778905
GADD45G	8:90017452-90018996	26.6996	69.6993	1.38432	3.24007	0.00025	0.0060614
EPB41L4B	8:100408791-100544780	1.13542	3.13721	1.46625	1.63165	0.0042	0.0479306
BT.69126	8:102666739-102697281	8.86741	21.7933	1.2973	2.65749	0.00225	0.0305452
TNFSF15	8:105725136-105745282	37.1767	123.939	1.73716	3.6848	5.00E-05	0.00168949
TRAF1	8:112194563-112218429	55.4155	155.243	1.48617	2.32345	5.00E-05	0.00168949
TSPYL4	9:34889675-34893768	3.35445	8.14971	1.28067	2.40265	0.00035	0.00778905
-	9:37598466-37618257	0	8.95067	inf	nan	0.0008	0.0143027
FYN	9:39048138-39259883	13.6336	32.8876	1.27037	2.11229	0.0002	0.00512801
BT.79862	9:60828153-61222077	1.53827	6.16	2.00162	1.70948	0.0019	0.0272104
ENPP3	9:70588606-70673279	0.683542	2.24307	1.71437	2.24056	0.00265	0.0342912
TNFAIP3	9:76763099-76777138	45.9215	163.659	1.83346	2.52907	5.00E-05	0.00168949
KIAA1244	9:76991896-77158234	0.36467	2.70434	2.89061	1.45963	0.00285	0.0362346
STX11	9:82583794-82639192	28.3831	155.854	2.45709	3.39736	5.00E-05	0.00168949
SOD2	9:97399001-97404522	3378.43	11250.5	1.73556	1.89543	0.0006	0.0116461

WTAP	9:97434015-97460620	54.8537	267.197	2.28425	5.13314	5.00E-05	0.00168949
SLC22A1	9:97750745-97787561	5.41774	34.7155	2.67982	3.31596	5.00E-05	0.00168949
-	9:102448418-102453631	0	2.36532	inf	nan	0.0006	0.0116461
-	9:102455394-102460091	0	660.946	inf	nan	5.00E-05	0.00168949
TPD52L1	9:26310579-26403759	6.78759	21.1449	1.63934	2.13148	0.00045	0.00945137
BT.97078	9:28811577-28828968	7.98216	17.6647	1.14602	2.08618	0.0007	0.0128987
BT.95322	9:37022763-37026932	171.744	400.027	1.21983	1.81802	0.0041	0.0471398
PRDM1	9:44352088-44377566	20.6931	89.1698	2.1074	2.95461	5.00E-05	0.00168949
ANKRD6	9:61441229-61624884	0.293439	1.16298	1.98669	1.87731	0.0015	0.0228053
PM20D2	9:61848878-61869032	1.19387	7.61167	2.67256	2.46886	0.0001	0.00298488
BT.70581	9:61921604-61925635	76.9666	388.744	2.33652	3.83951	5.00E-05	0.00168949
ZNF292	9:63520826-63622784	8.12453	26.5563	1.7087	2.63239	0.0001	0.00298488
PTPRK	9:66968685-67594209	0.760131	1.87163	1.29998	1.8358	0.0038	0.0446185
MGC151537	9:75364391-75543894	1.88136	6.33721	1.75208	2.05565	0.00045	0.00945137
BT.49564	9:76092203-76116593	119.295	267.203	1.1634	2.08983	0.0042	0.0479306
BT.103496	9:93099102-93307575	7.53971	25.7244	1.77056	1.87481	0.00085	0.0150217
TAGAP	9:96806293-96815764	39.6337	204.498	2.36729	3.36404	5.00E-05	0.00168949
AGPAT4	9:98239671-98376380	0.800842	4.20626	2.39295	2.48536	5.00E-05	0.00168949
RPS6KA2	9:102918981-103200280	20.5818	10.3744	-0.988343	-1.7163	0.002	0.0280894
THBS2	9:104732695-104763858	4.91647	1.56869	-1.64807	-2.08177	0.00035	0.00778905
-	GJ059320.1:4276-4966	64.6763	11670.2	7.49538	296.396	5.00E-05	0.00168949
-	GJ059320.1:5104-5377	157.157	21578	7.10121	584.674	5.00E-05	0.00168949
-	GJ059572.1:82-385	0	1595.6	inf	nan	0.0001	0.00298488
-	GJ060129.1:7619-18461	12.5825	59.2377	2.2351	2.5084	0.00015	0.00417103
-	GJ060129.1:20583-22041	29.9434	338.259	3.49782	93.3676	0.0015	0.0228053
-	X:2992756-3024498	4410.3	13078.9	1.56829	308.603	0.00025	0.0060614
LONRF3	X:3237204-3313561	13.0398	42.5803	1.70727	2.58414	5.00E-05	0.00168949
ENSBTAG0000004	X:3313815-3316842	0.827317	12.4638	3.91316	3.37862	5.00E-05	0.00168949
XIAP	X:7810796-7845821	498.38	1979.07	1.98951	109.057	5.00E-05	0.00168949
BT.88804	X:13645602-13671526	5.25528	1.67442	-1.6501	-2.06168	0.0003	0.00696807
GAB3	X:39064066-39147727	3.41779	7.41307	1.11701	1.61475	0.00395	0.045989
TSC22D3	X:59707291-59772737	1070.02	2721.57	1.3468	1.71153	0.00405	0.0467594
BRWD3	X:70898077-71091449	4.05964	7.9518	0.96993	1.67827	0.0036	0.0428158
TIMP1	X:91231129-91236073	206.043	511.452	1.31165	1.63571	0.0029	0.0365009
VSIG4	X:99894565-99933646	203.547	78.0639	-1.38263	-2.30971	0.0003	0.00696807
MID1	X:139715682-139928580	3.84503	9.68022	1.33205	1.953	0.00135	0.0210576
FRMPD3	X:59847354-59915953	0.286599	1.22082	2.09074	1.76207	0.001	0.0169155
ACSL4	X:62476951-62551846	41.4375	107.178	1.371	2.34217	0.0003	0.00696807
BT.29713	X:65246770-65449919	0.333347	1.60261	2.26532	2.08601	0.0029	0.0365009
NLGN3	X:84765208-84787720	1.22206	4.59165	1.90969	2.50163	5.00E-05	0.00168949
DLG3	X:85245061-85298606	1.37645	4.49079	1.70602	2.34974	0.00025	0.0060614

EDA	X:85706781-86099973	2.07352	0.590822	-1.81128	-2.08965	0.00365	0.0433359
EFNB1	X:86944027-86956186	14.4063	6.89518	-1.06304	-2.07444	0.00155	0.0233854
WDR45	X:92234970-92240200	14.5909	32.8695	1.17168	2.01359	0.0006	0.0116461
-	X:103684730-103721010	0	7.78901	inf	nan	0.00295	0.0369284
DDX3X	X:107678776-107692052	119.365	417.751	1.80726	2.5619	0.00045	0.00945137
SYAP1	X:134023362-134039236	31.8379	72.5237	1.18771	2.51421	0.0002	0.00512801
