HCT116: Downregulated Genes

Name	Chro-mosome	Region	Max group mean	Log_2 fold change	Fold change	P-value	FDR p-value	Gene ID	ENSEMBL	Biotype
HIST1H2BM	6	27782822..27783267	243.6553052	-7.662890046	-202.6561357	2.61629E-14	5.19903E-13	ENSG00000196374	ENSG00000196374	protein coding
HIST1H2BL	6	complement(27775257..27775709)	269.1451161	-6.285464693	-78.00337779	7.57287E-26	3.80298E-24	ENSG00000185130	ENSG00000185130	protein coding
HIST1H3J	6	complement(27858093..27860884)	517.9148068	-5.681813319	-51.33295187	1.3729E-93	8.80551E-91	ENSG00000197153	ENSG00000197153	protein coding
HIST1H4K	6	complement(27798952..27799305)	331.20168	-4.658202988	-25.24985133	5.98168E-38	5.61915E-36	ENSG00000197914	ENSG00000197914	protein coding
HIST1H2BF	6	26199748..26200942	258.8521133	-4.166654268	-17.95923843	9.64138E-86	4.7192E-83	ENSG00000197846	ENSG00000197846	protein coding
HIST1H4H	6	complement(26281283..26285762)	104.6446149	-4.129169675	-17.49862521	4.32873E-38	4.15023E-36	ENSG00000158406	ENSG00000158406	protein coding
HIST1H2AB	6	complement(26033320..26033796)	494.2098131	-4.059048958	-16.6684605	1.17284E-70	4.11599E-68	ENSG00000137259	ENSG00000137259	protein coding
HIST1H2AD	6	complement(26199079..26199471)	21.02622327	-3.949838675	-15.45325315	0.00011461	0.000510353	ENSG00000196866	ENSG00000196866	protein coding
FOXD1	5	complement(72740654..72744352)	11.95658041	-3.916592938	-15.10121724	1.43661E-13	2.62484E-12	ENSG00000251493	ENSG00000251493	protein coding
HIST1H3H	6	27777842..27778314	2257.913932	-3.79302054	-13.86158705	1.5334E-156	1.4261E-152	ENSG00000203813	ENSG00000203813	protein coding
HIST1H2BO	6	27861203..27861669	1861.255284	-3.782106392	-13.75711827	1.8547E-144	8.6245E-141	ENSG00000196331	ENSG00000196331	protein coding
HIST1H3D	6	complement(26197068..26199521)	774.5103018	-3.69066615	-12.91222886	1.6054E-126	2.9861E-123	ENSG00000197409	ENSG00000197409	protein coding
HIST1H2AK	6	complement(27805658..27806117)	396.8962685	-3.589251294	-12.03572626	5.71585E-58	1.1556E-55	ENSG00000184348	ENSG00000184348	protein coding
KLRC3	12	complement(10564911..10573194)	2.613770816	-3.490855541	-11.24222384	0.014222727	0.035681511	ENSG00000205810	ENSG00000205810	protein coding
HIST1H3A	6	26020718..26021186	431.1665748	-3.449779815	-10.9266543	1.79191E-61	4.38546E-59	ENSG00000198366	ENSG00000198366	protein coding
RP11-386G11.10	12	49521565..49541652	5.254368017	-3.438788563	-10.84372527	5.3469E-05	0.00025685	ENSG00000258017	ENSG00000258017	antisense
HIST1H4J	6	27791884..27792257	2369.937098	-3.413084228	-10.65223479	5.4912E-130	1.4591E-126	ENSG00000197238	ENSG00000197238	protein coding
AL139819.1	10	102121397..102123376	8.064384266	-3.348843812	-10.18831675	4.57383E-08	3.97168E-07	ENSG00000256545	ENSG00000256545	pseudogene
HIST1H2AJ	6	complement(27782112..27782607)	1259.864936	-3.341644253	-10.13760009	2.0444E-111	2.3766E-108	ENSG00000182611	ENSG00000182611	protein coding
HIST1H2BC	6	complement(26115101..26124154)	1106.148593	-3.318824691	-9.978511965	3.6417E-127	7.5263E-124	ENSG00000180596	ENSG00000180596	protein coding
HIST1H2AH	6	27114861..27115317	1445.507058	-3.295314236	-9.81721789	3.7389E-112	4.9674E-109	ENSG00000184825	ENSG00000184825	protein coding
HIST2H3D	1	complement(149784826..149785236)	1091.759351	-3.294822018	-9.81386903	7.0321E-95	4.7331E-92	ENSG00000183598	ENSG00000183598	protein coding
HIST1H4D	6	complement(26188938..26189304)	648.7104967	-3.270682207	-9.651025223	1.5739E-66	4.72169E-64	ENSG00000188987	ENSG00000188987	protein coding
HIST1H2AI	6	27775899..27776429	930.1834417	-3.194918139	-9.157273668	3.57054E-96	2.55431E-93	ENSG00000196747	ENSG00000196747	protein coding
HIST3H2BB	1	228645808..228646259	472.9083393	-3.192322477	-9.140812936	2.99129E-61	7.22572E-59	ENSG00000196890	ENSG00000196890	protein coding

HIST1H4B	6	complement(26027124..26027480)	1366.51782	-3.170197601	-9.001700723	7.1251E-95	4.7331E-92	ENSG00000124529	ENSG00000124529	protein coding
HIST1H2AM	6	complement(27860477..27860963)	1177.499459	-3.158816124	-8.930965345	4.1765E-101	3.53103E-98	ENSG00000233224	ENSG00000233224	protein coding
HIST2H2BF	1	complement(149754245..149783928)	481.334921	-3.133846868	-8.777723758	2.1476E-122	3.6314E-119	ENSG00000203814	ENSG00000203814	protein coding
CTD-3232M19.2	8	145462709..145485885	1.774011607	-3.117912883	-8.68131074	0.000273248	0.001110181	ENSG00000204771	ENSG00000204771	pseudogene
HIST2H2AA4	1	149822643..149823191	3182.12671	-3.075636739	-8.430608345	1.9227E-132	5.9603E-129	ENSG00000203812	ENSG00000203812	protein coding
HIST1H3B	6	complement(26031817..26032288)	1609.983698	-3.071486823	-8.406392526	4.6935E-108	5.1352E-105	ENSG00000124693	ENSG00000124693	protein coding
SLC25A48	5	135170338..135224326	1.726767741	-3.034178794	-8.191790352	5.00351E-05	0.000242358	ENSG00000145832	ENSG00000145832	protein coding
HIST1H2BJ	6	complement(27093676..27100541)	259.9468737	-2.950433241	-7.729811542	3.45269E-68	1.10724E-65	ENSG00000124635	ENSG00000124635	protein coding
PLK1	16	23688977..23701688	147.6900492	-2.895077456	-7.438838908	2.59615E-97	1.93153E-94	ENSG00000166851	ENSG00000166851	protein coding
IQCA1	2	complement(237232794..237416185)	0.652895432	-2.87066011	-7.313997383	0.006014887	0.017031039	ENSG00000132321	ENSG00000132321	protein coding
RP4-665J23.1	1	complement(91248543..91317207)	2.439865874	-2.867507056	-7.298029873	2.17377E-05	0.000113605	ENSG00000233593	ENSG00000233593	lincRNA
AK7	14	96858448..96955764	2.244675645	-2.847290578	-7.196475818	4.29177E-06	2.58507E-05	ENSG00000140057	ENSG00000140057	protein coding
HIST2H4A	1	149804221..149811339	942.7665567	-2.820710041	-7.065100297	6.0519E-115	9.3804E-112	ENSG00000183941	ENSG00000183941	protein coding
ARMC3	10	23216953..23326518	0.591255214	-2.751168461	-6.732621971	0.008688901	0.023429046	ENSG00000165309	ENSG00000165309	protein coding
HIST1H4A	6	26021907..26022278	937.5641586	-2.713691278	-6.559979372	9.97197E-69	3.31212E-66	ENSG00000196176	ENSG00000196176	protein coding
FAM72B	1	120837756..120855681	12.63027514	-2.682901042	-6.421458629	9.88929E-16	2.27932E-14	ENSG00000188610	ENSG00000188610	protein coding
SIX2	2	complement(45232300..45236569)	2.262660196	-2.660452476	-6.322313065	0.00214849	0.006909473	ENSG00000170577	ENSG00000170577	protein coding
TNFRSF19	13	24144509..24250232	1.283473153	-2.64643938	-6.261200843	0.000463488	0.001770201	ENSG00000127863	ENSG00000127863	protein coding
GSTA4	6	complement(52842751..52860176)	1.508820282	-2.620878804	-6.151246559	0.012767629	0.032415765	ENSG00000170899	ENSG00000170899	protein coding
PRIMA1	14	complement(94184644..94254827)	7.250762763	-2.604433976	-6.081528531	3.13363E-12	4.95626E-11	ENSG00000175785	ENSG00000175785	protein coding
HIST1H4C	6	26104104..26104518	957.6342961	-2.578847825	-5.974623594	3.90546E-68	1.23121E-65	ENSG00000197061	ENSG00000197061	protein coding
RPL22L1	3	complement(170582664..170588272)	275.1575308	-2.569016858	-5.934049076	1.0767E-79	4.65733E-77	ENSG00000163584	ENSG00000163584	protein coding
HIST2H3C	1	complement(149811110..149812765)	629.8595779	-2.563816987	-5.912699623	1.96655E-89	1.07582E-86	ENSG00000203811	ENSG00000203811	protein coding
TTLL7-IT1	1	complement(84444801..84449983)	1.067520912	-2.551038244	-5.860558853	0.015584301	0.038607884	ENSG00000233061	ENSG00000233061	sense_intronic
IGFBP5	2	complement(217536828..217560248)	0.48404666	-2.551038244	-5.860558853	0.015584301	0.038607884	ENSG00000115461	ENSG00000115461	protein coding
RP11-438J1.1	3	10291056..10327480	10.63151499	-2.548406848	-5.849879258	2.92901E-13	5.17375E-12	ENSG00000272410	ENSG00000272410	protein coding
INSIG1	7	155089486..155101945	179.2767858	-2.52083803	-5.739153771	5.95229E-78	2.46028E-75	ENSG00000186480	ENSG00000186480	protein coding
CTD-2510F5.4	17	complement(57280038..57281190)	14.08545622	-2.519180468	-5.732563647	0.003813975	0.011465967	ENSG00000265415	ENSG00000265415	antisense

HIST2H3A	1	149824181..149825836	654.7150231	-2.481593443	-5.585139995	2.21802E-85	1.05782E-82	ENSG00000203852	ENSG00000203852	protein coding
HIST1H2BE	6	26183958..26184454	5.960396688	-2.477643953	-5.569871147	0.019116066	0.045813533	ENSG00000197697	ENSG00000197697	protein coding
PIF1	15	complement(65107831..65117867)	16.57563519	-2.474835884	-5.559040466	9.9201E-26	4.94675E-24	ENSG00000140451	ENSG00000140451	protein coding
HIST2H2AA3	1	complement(149813505..149814478)	328.1503386	-2.467514765	-5.530901942	7.51866E-59	1.60744E-56	ENSG00000183558	ENSG00000183558	protein coding
HBA2	16	222846..223709	21.67460288	-2.466831957	-5.528284862	1.45423E-08	1.36472E-07	ENSG00000188536	ENSG00000188536	protein coding
HIST1H2AG	6	27100832..27103070	446.2172568	-2.454183579	-5.480029195	1.59661E-82	7.24317E-80	ENSG00000196787	ENSG00000196787	protein coding
HIST1H1E	6	26156559..26157343	1981.961976	-2.452492256	-5.473608523	1.22781E-88	6.3437E-86	ENSG00000168298	ENSG00000168298	protein coding
HMMR	5	162887209..162918947	102.896785	-2.416946988	-5.340396976	7.55808E-63	2.0374E-60	ENSG00000072571	ENSG00000072571	protein coding
IGFBP7	4	complement(57896939..57976551)	2.178886432	-2.416676921	-5.339397368	0.005677267	0.0161934	ENSG00000163453	ENSG00000163453	protein coding
LILRA6	19	complement(54720737..54746649)	1.004679854	-2.416676921	-5.339397368	0.005677267	0.0161934	ENSG00000244482	ENSG00000244482	protein coding
RIMKLA	1	42846466..42888249	16.47477411	-2.401492308	-5.283494007	1.79994E-38	1.76205E-36	ENSG00000177181	ENSG00000177181	protein coding
FSBP	8	complement(95390605..95449180)	2.498894685	-2.351115824	-5.102187168	0.000185157	0.000783245	ENSG00000265817	ENSG00000265817	protein coding
HIST1H4E	6	26204858..26206266	181.2511859	-2.350217844	-5.099012393	4.47251E-50	6.99065E-48	ENSG00000198518	ENSG00000198518	protein coding
CDC20	1	43824626..43828874	437.056916	-2.30696463	-4.948408596	8.40379E-73	3.12621E-70	ENSG00000117399	ENSG00000117399	protein coding
HIST1H1C	6	complement(26055968..26056699)	2330.364681	-2.254787413	-4.772639652	3.1529E-77	1.27487E-74	ENSG00000187837	ENSG00000187837	protein coding
HIST2H2BE	1	complement(149856010..149858232)	350.5377071	-2.252175493	-4.764006867	4.71325E-68	1.46111E-65	ENSG00000184678	ENSG00000184678	protein coding
RP11-382E9.1	1	199117726..199362435	1.629736193	-2.247820583	-4.749647949	0.010566308	0.027758945	ENSG00000231718	ENSG00000231718	lincRNA
GAS2L3	12	100967461..101022064	28.07243708	-2.230326778	-4.692402531	1.95985E-40	2.13176E-38	ENSG00000139354	ENSG00000139354	protein coding
IL18R1	2	102927989..103015218	1.402339884	-2.224312849	-4.672882787	0.00125159	0.004272265	ENSG00000115604	ENSG00000115604	protein coding
CCNB1	5	68462837..68474072	390.6928307	-2.195019738	-4.57895929	2.30968E-68	7.53684E-66	ENSG00000134057	ENSG00000134057	protein coding
NREP	5	complement(110998318..111333161)	4.491825473	-2.179183856	-4.52897274	7.13448E-15	1.50968E-13	ENSG00000134986	ENSG00000134986	protein coding
HMGB2	4	complement(174252846..174256276)	223.5573249	-2.169576152	-4.498912013	9.2214E-61	2.19895E-58	ENSG00000164104	ENSG00000164104	protein coding
TTPA	8	complement(63961112..63998612)	6.787270252	-2.166520605	-4.489393652	3.4628E-07	2.56913E-06	ENSG00000137561	ENSG00000137561	protein coding
FAM156A	X	complement(52976462..53024651)	4.762661722	-2.165242183	-4.485417208	4.0853E-10	4.84608E-09	ENSG00000182646	ENSG00000182646	protein coding
HIST2H2AB	1	complement(149859019..149859466)	318.0871568	-2.161418139	-4.473543791	1.49107E-33	1.1183E-31	ENSG00000184270	ENSG00000184270	protein coding
AURKA	20	complement(54944445..54967393)	121.7791798	-2.149258187	-4.435996375	8.9556E-51	1.46118E-48	ENSG00000087586	ENSG00000087586	protein coding
HECW2	2	complement(197059094..197458416)	1.424970515	-2.13232554	-4.384236246	1.00429E-07	8.22897E-07	ENSG00000138411	ENSG00000138411	protein coding

SESTD1	2	complement(179966419..180129517)	18.02412504	-2.113814459	-4.328341886	2.09344E-39	2.16322E-37	ENSG00000187231	ENSG00000187231	protein coding
TUBA1B	12	complement(49521565..49525180)	1497.953736	-2.10735032	-4.308991701	1.60722E-73	6.10087E-71	ENSG00000123416	ENSG00000123416	protein coding
DEPDC1	1	complement(68939835..68962904)	97.23338112	-2.106843848	-4.307479254	7.62549E-57	1.47744E-54	ENSG00000024526	ENSG00000024526	protein coding
AC093391.2	2	136742746..136779888	1.416603936	-2.103260199	-4.296792769	0.000364127	0.00143524	ENSG00000231890	ENSG00000231890	antisense
SGOL2	2	201374731..201448505	44.81612153	-2.094832835	-4.271766635	5.24438E-44	6.63574E-42	ENSG00000163535	ENSG00000163535	protein coding
HIST1H2BN	6	27806323..27823487	82.14137897	-2.069541832	-4.19753348	1.01664E-47	1.50075E-45	ENSG00000233822	ENSG00000233822	protein coding
HIST1H2BD	6	26158349..26171577	897.6192524	-2.059661876	-4.168885869	5.48939E-59	1.18724E-56	ENSG00000158373	ENSG00000158373	protein coding
FAM72D	1	complement(143896452..143913143)	41.11162214	-2.057252485	-4.161929378	1.81617E-25	8.91315E-24	ENSG00000215784	ENSG00000215784	protein coding
LPPR4	1	99729509..99775146	0.591000002	-2.056548338	-4.15989853	0.020292094	0.048007244	ENSG00000117600	ENSG00000117600	protein coding
ARHGAP11A	15	32907345..32932150	121.1539497	-2.040965393	-4.115208114	1.06833E-57	2.11392E-55	ENSG00000198826	ENSG00000198826	protein coding
BUB1B	15	40453224..40513337	112.3008149	-2.033917634	-4.095153797	6.84057E-52	1.13602E-49	ENSG00000156970	ENSG00000156970	protein coding
MCM6	2	complement(136597196..136633996)	197.8613717	-2.033662633	-4.094430027	7.71034E-58	1.54207E-55	ENSG00000076003	ENSG00000076003	protein coding
BUB1	2	complement(111395275..111435691)	89.53534326	-2.018797122	-4.052457686	3.08075E-52	5.16234E-50	ENSG00000169679	ENSG00000169679	protein coding
LMNB1	5	126112315..126172712	205.6658329	-2.017681958	-4.049326457	3.89883E-56	7.39981E-54	ENSG00000113368	ENSG00000113368	protein coding
PLK4	4	128802016..128820350	46.61341255	-2.016845289	-4.046978793	2.17233E-37	1.96143E-35	ENSG00000142731	ENSG00000142731	protein coding
CTD-2540B15.7	19	33792185..33792846	8.733627774	-2.012067152	-4.033597563	0.009309396	0.024882134	ENSG00000267727	ENSG00000267727	antisense
RP5-966M1.6	3	complement(52847298..52869745)	1.975124993	-2.009552409	-4.026572777	1.22379E-05	6.74244E-05	ENSG00000243696	ENSG00000243696	protein coding
C14orf37	14	complement(58466453..58764857)	2.452539335	-2.000073761	-4.000204514	1.58218E-07	1.24909E-06	ENSG00000139971	ENSG00000139971	protein coding

HCT116: Upregulated Genes

Name	Chro-mosome	Region	Max group mean	Log_2 fold change	Fold change	P-value	FDR p-value	Gene ID	ENSEMBL	Biotype
LCE1F	1	152748848..152749445	104.332817	11.21913577	2383.945881	0.001822066	0.005968725	ENSG00000240386	ENSG00000240386	protein coding
AC092143.1	16	89985273..89987375	14.98484347	10.20100471	1177.086567	0.004598958	0.013445555	ENSG00000256390	ENSG00000256390	pseudogene
RIMS4	20	complement(43380449..43438979)	5.400715897	10.06986641	1074.810354	0.005154075	0.014888303	ENSG00000101098	ENSG00000101098	protein coding
TENM4	11	complement(78363876..79151992)	1.705349316	10.05607236	1064.582733	0.005215864	0.015036433	ENSG00000149256	ENSG00000149256	protein coding
LAPTM5	1	complement(31205316..31230667)	6.21585842	9.604014478	778.2093361	0.007651792	0.020981898	ENSG00000162511	ENSG00000162511	protein coding
CHRNA6	8	complement(42607763..42651535)	7.632964249	9.56558593	757.7540935	0.007900024	0.021569523	ENSG00000147434	ENSG00000147434	protein coding
CLCA2	1	86889769..86922241	3.871268117	9.378740281	665.7055017	0.00921328	0.024660672	ENSG00000137975	ENSG00000137975	protein coding
TFEC	7	complement(115575202..115799950)	1.765738125	9.189539281	583.8845313	0.010739455	0.028086876	ENSG00000105967	ENSG00000105967	protein coding
AL603965.1	10	47746962..47770871	7.611811022	9.164044344	573.65691	0.010961527	0.028591277	ENSG00000215033	ENSG00000215033	protein coding
RP11-78A19.3	18	complement(11851413..11852750)	22.75825312	8.9117165	481.6083183	0.013390866	0.033822665	ENSG00000267165	ENSG00000267165	antisense
ANXA8L1	10	complement(47157983..47174093)	5.161578818	8.715078573	420.2425905	0.015604833	0.038638993	ENSG00000150165	ENSG00000150165	protein coding
GOLGA6L9	15	82722223..82731338	2.520357701	8.715078573	420.2425905	0.015604833	0.038638993	ENSG00000197978	ENSG00000197978	protein coding
MYBPC3	11	complement(47352957..47374253)	2.384105022	8.605700726	389.5597266	0.016971935	0.041602265	ENSG00000134571	ENSG00000134571	protein coding
PLA2G4D	15	complement(42359207..42386752)	13.34172738	8.504771347	363.238005	2.7046E-10	3.30958E-09	ENSG00000159337	ENSG00000159337	protein coding
C15ORF37	15	80215507..80217194	5.234891614	8.402677928	338.4216201	0.019792722	0.046957223	ENSG00000257028	ENSG00000257028	protein coding
CSPG4P8	15	82751614..82769399	1.232426366	8.402677928	338.4216201	0.019792722	0.046957223	ENSG00000188384	ENSG00000188384	pseudogene
CTC-432M15.3	5	complement(130761584..131132676)	1.340329174	8.358405048	328.1939987	0.020460108	0.048300292	ENSG00000273217	ENSG00000273217	protein coding
RP11-514P8.6	7	complement(102222970..102283316)	2.400875429	8.358405048	328.1939987	0.020460108	0.048300292	ENSG00000205236	ENSG00000205236	protein coding
FAM13C	10	complement(61005890..61122939)	1.269440653	8.358405048	328.1939987	0.020460108	0.048300292	ENSG00000148541	ENSG00000148541	protein coding
GATSL1	7	74379083..74438803	8.384799767	8.312730409	317.9663774	0.021169317	0.049766088	ENSG00000183086	ENSG00000183086	protein coding
LCE1C	1	complement(152777311..152779107)	72.81874609	8.067191474	268.2048421	2.16157E-09	2.31464E-08	ENSG00000197084	ENSG00000197084	protein coding
GGT6	17	complement(4460222..4464113)	31.2584952	7.190544884	146.0729147	1.81848E-23	7.81147E-22	ENSG00000167741	ENSG00000167741	protein coding
HPN	19	35531410..35557475	7.367708671	7.044808531	132.0379222	1.88434E-07	1.46831E-06	ENSG00000105707	ENSG00000105707	protein coding
LCN15	9	complement(139654086..139660707)	7.791098569	6.898114897	119.2722734	3.42232E-07	2.54315E-06	ENSG00000177984	ENSG00000177984	protein coding
FLG-AS1	1	152140601..152339163	4.36098512	6.350613092	81.60655253	1.95716E-10	2.43761E-09	ENSG00000237975	ENSG00000237975	antisense

GABBR2	9	complement(101050391..101471479)	2.540875703	6.339410488	80.97532721	3.00168E-06	1.86977E-05	ENSG00000136928	ENSG00000136928	protein coding
NID1	1	complement(236139130..236228462)	2.465846255	6.261532902	76.72011096	4.01129E-06	2.43346E-05	ENSG00000116962	ENSG00000116962	protein coding
CBS	21	complement(44473301..44497053)	9.130839249	6.216737619	74.37457523	1.52042E-21	5.87936E-20	ENSG00000160200	ENSG00000160200	protein coding
RD3	1	complement(211649864..211666259)	2.636298824	5.899640805	59.69924597	1.48133E-05	8.00023E-05	ENSG00000198570	ENSG00000198570	protein coding
LGALS7B	19	39279851..39282389	75.67487588	5.860500444	58.10137675	3.22021E-19	1.04348E-17	ENSG00000178934	ENSG00000178934	protein coding
CYGB	17	complement(74523438..74547257)	6.900888595	5.857562526	57.98317894	4.99567E-09	5.04449E-08	ENSG00000161544	ENSG00000161544	protein coding
MUC2	11	1074875..1104419	5.513781451	5.836533398	57.14412978	4.56857E-19	1.46257E-17	ENSG00000198788	ENSG00000198788	protein coding
SORCS2	4	7194265..7744554	29.44988323	5.684516842	51.42923689	6.91693E-66	1.94932E-63	ENSG00000184985	ENSG00000184985	protein coding
AMIGO3	3	complement(49754267..49761349)	15.14282219	5.665896812	50.76973457	7.72028E-36	6.41059E-34	ENSG00000176020	ENSG00000176020	protein coding
NR1I2	3	119499331..119537332	1.642166334	5.552549135	46.93359723	4.86714E-05	0.000236368	ENSG00000144852	ENSG00000144852	protein coding
RP11-582J16.3	8	complement(22423510..22424684)	14.64739215	5.508276255	45.51519181	5.63928E-05	0.000268537	ENSG00000254230	ENSG00000254230	antisense
COL5A1	9	137533620..137736686	2.082622875	5.503686118	45.37060896	4.10923E-11	5.67E-10	ENSG00000130635	ENSG00000130635	protein coding
BLNK	10	complement(97951458..98031344)	6.286081889	5.503686118	45.37060896	4.10923E-11	5.67E-10	ENSG00000095585	ENSG00000095585	protein coding
FLG	1	complement(152274651..152297679)	4.516444427	5.439696542	43.40220825	5.59796E-25	2.64942E-23	ENSG00000143631	ENSG00000143631	protein coding
MUC19	12	40787197..40964632	2.446529353	5.282108048	38.91105112	1.27817E-28	7.4761E-27	ENSG00000205592	ENSG00000205592	protein coding
CEACAM1	19	complement(43011456..43065386)	49.05610235	5.271118663	38.61578148	1.7717E-97	1.37307E-94	ENSG00000079385	ENSG00000079385	protein coding
IGFN1	1	201159953..201198080	0.552518648	5.15325222	35.5863539	0.000177015	0.000752395	ENSG00000163395	ENSG00000163395	protein coding
MAGEA9B	X	complement(148663309..148669116)	6.790265345	5.13429692	35.12184965	3.76557E-07	2.77384E-06	ENSG00000123584	ENSG00000123584	protein coding
C2orf66	2	complement(197669726..197675000)	3.690096266	5.033402873	32.74954306	0.000256593	0.001048697	ENSG00000187944	ENSG00000187944	protein coding
CCRL2	3	46448654..46454488	2.012012632	5.033402873	32.74954306	0.000256593	0.001048697	ENSG00000121797	ENSG00000121797	protein coding
AKR1B10	7	134212344..134226160	35.92820942	4.986376731	31.69924845	7.52037E-30	4.70973E-28	ENSG00000198074	ENSG00000198074	protein coding
FER1L6	8	124864227..125132302	0.972432821	4.96952525	31.33113765	0.000311771	0.001248157	ENSG00000214814	ENSG00000214814	protein coding
COL15A1	9	101705461..101833069	0.887599522	4.96952525	31.33113765	0.000311771	0.001248157	ENSG00000204291	ENSG00000204291	protein coding
UNC45B	17	33474836..33516364	1.037330169	4.96952525	31.33113765	0.000311771	0.001248157	ENSG00000141161	ENSG00000141161	protein coding
PRSS57	19	complement(685521..695460)	5.469821755	4.96952525	31.33113765	0.000311771	0.001248157	ENSG00000185198	ENSG00000185198	protein coding
RGPD1	2	87135076..87241104	1.597828285	4.968626621	31.31162811	9.42226E-07	6.46933E-06	ENSG00000187627	ENSG00000187627	protein coding
TNNI2	11	1860219..1862910	24.04994987	4.953236332	30.97937927	7.06835E-14	1.34291E-12	ENSG00000130598	ENSG00000130598	protein coding

PVRL4	1	complement(161040785..161059389)	87.98570855	4.933005093	30.54798029	1.3807E-111	1.7121E-108	ENSG00000143217	ENSG00000143217	protein coding
EBI3	19	4229495..4237528	27.31948251	4.913893902	30.14598371	3.53353E-18	1.02854E-16	ENSG00000105246	ENSG00000105246	protein coding
CD79B	17	complement(62006100..62009714)	5.427823738	4.781433502	27.50140656	2.5692E-06	1.62155E-05	ENSG00000007312	ENSG00000007312	protein coding
SUSD4	1	complement(223394161..223537544)	1.045771864	4.758938529	27.0759214	0.000583514	0.002165907	ENSG00000143502	ENSG00000143502	protein coding
SFMBT2	10	complement(7200586..7453450)	0.484169511	4.681309598	25.65751598	0.000730812	0.002645603	ENSG00000198879	ENSG00000198879	protein coding
ANXA8L2	10	47746936..47763041	9.940807509	4.657405488	25.23589746	2.54954E-12	4.06353E-11	ENSG00000186807	ENSG00000186807	protein coding
RP3-395M20.8	1	complement(2481359..2488470)	0.741752459	4.599264856	24.23911057	0.000923831	0.003261818	ENSG00000238164	ENSG00000238164	processed_transcript
GPR78	4	8560452..8621486	1.441359892	4.553970912	23.48993656	7.62436E-08	6.39662E-07	ENSG00000155269	ENSG00000155269	protein coding
VSIG1	X	107288200..107322414	5.186363108	4.54358271	23.32140352	9.56776E-12	1.41575E-10	ENSG00000101842	ENSG00000101842	protein coding
SIRPB2	20	complement(1451386..1472233)	0.824074284	4.512271466	22.82070515	0.001179762	0.004053866	ENSG00000196209	ENSG00000196209	protein coding
DRAXIN	1	11751786..11785914	35.9047166	4.451176266	21.87447165	8.895E-102	7.8784E-99	ENSG00000162490	ENSG00000162490	protein coding
HRNR	1	complement(152184558..152196669)	12.80010531	4.429519431	21.54855809	1.4723E-57	2.88261E-55	ENSG00000197915	ENSG00000197915	protein coding
CTD-2201G3.1	5	112658725..112772871	0.95769899	4.419693921	21.40229974	0.001523538	0.005093065	ENSG00000232633	ENSG00000232633	antisense
WSCD2	12	108523248..108644314	0.612565131	4.419693921	21.40229974	0.001523538	0.005093065	ENSG00000075035	ENSG00000075035	protein coding
TRIM22	11	5710919..5758319	4.047725919	4.388695953	20.94735167	1.58536E-14	3.20867E-13	ENSG00000132274	ENSG00000132274	protein coding
PADI4	1	17634690..17690499	3.605151635	4.384401774	20.88509461	2.53642E-07	1.92718E-06	ENSG00000159339	ENSG00000159339	protein coding
FRMPD2	10	complement(49364601..49482941)	5.050395319	4.335493357	20.18894136	2.02867E-22	8.14974E-21	ENSG00000170324	ENSG00000170324	protein coding
TAC3	12	complement(57403784..57422667)	2.381713423	4.320765848	19.98389432	0.001991971	0.006463829	ENSG00000166863	ENSG00000166863	protein coding
COL17A1	10	complement(105791044..105845760)	44.58710276	4.288738308	19.54514399	3.6223E-107	3.5461E-104	ENSG00000065618	ENSG00000065618	protein coding
ABCA12	2	complement(215796266..216003151)	40.72328135	4.282778764	19.46457263	4.344E-128	1.01E-124	ENSG00000144452	ENSG00000144452	protein coding
SLC44A4	6	complement(31830969..31846823)	1.987033524	4.256929061	19.11891916	3.52756E-05	0.000176075	ENSG00000204385	ENSG00000204385	protein coding
PLB1	2	28680012..28866654	1.170164477	4.232754456	18.80122105	7.1585E-07	5.01877E-06	ENSG00000163803	ENSG00000163803	protein coding
TRANK1	3	complement(36868311..36986548)	0.862083255	4.232754456	18.80122105	7.1585E-07	5.01877E-06	ENSG00000168016	ENSG00000168016	protein coding
RP11-114B7.6	1	complement(33183335..33190838)	8.812770355	4.214551402	18.5654889	0.002640493	0.008276571	ENSG00000224409	ENSG00000224409	antisense
HLA-DRB5	6	complement(32485120..32498064)	2.762733564	4.214551402	18.5654889	0.002640493	0.008276571	ENSG00000198502	ENSG00000198502	protein coding
TRIM29	11	complement(119981983..120056237)	6.472875467	4.198590001	18.36121981	4.1938E-35	3.34784E-33	ENSG00000137699	ENSG00000137699	protein coding
COL4A1	13	complement(110801318..110959496)	1.189798441	4.192214105	18.28025266	9.38987E-07	6.44947E-06	ENSG00000187498	ENSG00000187498	protein coding
HSD3BP5	1	120143963..120151873	10.64467199	4.157423174	17.84469297	2.71818E-08	2.4436E-07	ENSG00000198857	ENSG00000198857	pseudogene

CPXM1	20	complement(2774715..2781283)	3.807724669	4.150501534	17.75928427	1.23806E-06	8.31333E-06	ENSG00000088882	ENSG00000088882	protein coding
GRHL3	1	24645812..24690972	8.155511809	4.14721894	17.71892213	5.27264E-19	1.67072E-17	ENSG00000158055	ENSG00000158055	protein coding
TP53I3	2	complement(24300303..24308731)	351.2778591	4.115495841	17.33355709	4.1755E-178	7.7665E-174	ENSG00000115129	ENSG00000115129	protein coding
KLHDC7A	1	18807424..18812478	14.56725527	4.114063107	17.31635176	1.20662E-38	1.20017E-36	ENSG00000179023	ENSG00000179023	protein coding
LINC01136	1	complement(203267886..203274437)	1.179182258	4.099891307	17.14708349	0.003554434	0.01079035	ENSG00000233791	ENSG00000233791	lincRNA
ABCA9	17	complement(66970629..67057205)	0.351599918	4.099891307	17.14708349	0.003554434	0.01079035	ENSG00000154258	ENSG00000154258	protein coding
LDLRAD1	1	complement(54474412..54483856)	9.193910308	4.06327405	16.71734748	2.18789E-06	1.39989E-05	ENSG00000203985	ENSG00000203985	protein coding
GPR87	3	complement(151011891..151034740)	33.97115553	4.059213319	16.67035959	3.50156E-30	2.23044E-28	ENSG00000138271	ENSG00000138271	protein coding
MRPL30_2	2	99797542..99814089	16.13211977	4.000647509	16.00718271	2.98794E-24	1.3522E-22	ENSG00000185414	ENSG00000185414	protein coding
RP11-23P13.4	15	complement(42117297..42120134)	3.008681323	3.975325518	15.72867807	0.00486842	0.014151056	ENSG00000250379	ENSG00000250379	antisense
SDK2	17	complement(71330523..71640228)	0.253769192	3.975325518	15.72867807	0.00486842	0.014151056	ENSG00000069188	ENSG00000069188	protein coding
KB-1592A4.15	22	complement(21468896..21478740)	0.609455621	3.975325518	15.72867807	0.00486842	0.014151056	ENSG00000197210	ENSG00000197210	lincRNA
HS3ST6	16	complement(1961464..1968441)	4.206954245	3.936279645	15.30869761	0.0001518	0.000656164	ENSG00000162040	ENSG00000162040	protein coding
AC007952.5	17	18996287..19000150	3.680723543	3.936279645	15.30869761	0.0001518	0.000656164	ENSG00000228157	ENSG00000228157	protein coding
RP11-196G11.1	16	complement(31094760..31106277)	3.64785994	3.875638935	14.67856403	2.80035E-07	2.1139E-06	ENSG00000255439	ENSG00000255439	protein coding
GPR132	14	complement(105515728..105531782)	1.211929518	3.86261537	14.5466533	0.000208979	0.000871917	ENSG00000183484	ENSG00000183484	protein coding
ICAM4	19	10397643..10399198	8.444126628	3.846703759	14.38709847	1.54428E-08	1.44412E-07	ENSG00000105371	ENSG00000105371	protein coding
C1orf168	1	complement(57184477..57285369)	0.577968137	3.838979255	14.31027265	0.006800821	0.018936418	ENSG00000187889	ENSG00000187889	protein coding
CTC-756D1.2	8	23316114..23342484	4.250359329	3.838979255	14.31027265	0.006800821	0.018936418	ENSG00000253390	ENSG00000253390	lincRNA
PAX5	9	complement(36833272..37034103)	0.289358805	3.838979255	14.31027265	0.006800821	0.018936418	ENSG00000196092	ENSG00000196092	protein coding
RP11-356J5.5	11	112051496..112053914	2.296506327	3.838979255	14.31027265	0.006800821	0.018936418	ENSG00000214264	ENSG00000214264	pseudogene
MYZAP	15	57884139..57977562	16.31102362	3.82310718	14.15369843	2.35656E-24	1.06907E-22	ENSG00000263155	ENSG00000263155	protein coding
SCN2A	2	166095912..166248818	23.8299851	3.818620684	14.1097516	7.8822E-104	7.3304E-101	ENSG00000136531	ENSG00000136531	protein coding
RP11-553A10.1	3	complement(110607231..110612323)	3.536249068	3.78498644	13.78460899	0.000290824	0.001173646	ENSG00000206532	ENSG00000206532	protein coding
GALNT13	2	154728426..155310361	1.765985187	3.781247842	13.74893382	2.89814E-08	2.5966E-07	ENSG00000144278	ENSG00000144278	protein coding
GAST	17	39868578..39872221	24.49834771	3.781247842	13.74893382	2.89814E-08	2.5966E-07	ENSG00000184502	ENSG00000184502	protein coding
XDH	2	complement(31557187..31637581)	3.28228842	3.735335007	13.31827202	5.53816E-13	9.4678E-12	ENSG00000158125	ENSG00000158125	protein coding
FAM71F2	7	128312342..128326929	3.414411532	3.710999191	13.09549957	1.01262E-06	6.90928E-06	ENSG00000205085	ENSG00000205085	protein coding

CD300C	17	complement(72537247..72542282)	3.000748083	3.702941698	13.02256468	0.000409457	0.001589959	ENSG00000167850	ENSG00000167850	protein coding
SYT8	11	1848709..1858751	27.80333939	3.693564674	12.93819695	8.45562E-62	2.18437E-59	ENSG00000149043	ENSG00000149043	protein coding
RP5-1160K1.6	1	complement(110171039..110172927)	3.502839738	3.688389331	12.89186724	0.00971717	0.025790433	ENSG00000228703	ENSG00000228703	antisense
AFF3	2	complement(100162323..100759201)	0.196010878	3.688389331	12.89186724	0.00971717	0.025790433	ENSG00000144218	ENSG00000144218	protein coding
ADCY1	7	45613739..45762715	0.178119271	3.688389331	12.89186724	0.00971717	0.025790433	ENSG00000164742	ENSG00000164742	protein coding
DPP6	7	153584182..154685995	0.177541899	3.688389331	12.89186724	0.00971717	0.025790433	ENSG00000130226	ENSG00000130226	protein coding
SLC16A12	10	complement(91190051..91316398)	0.497924326	3.688389331	12.89186724	0.00971717	0.025790433	ENSG00000152779	ENSG00000152779	protein coding
LINC00452	13	114586640..114626485	0.587363817	3.688389331	12.89186724	0.00971717	0.025790433	ENSG00000229373	ENSG00000229373	lincRNA
TTLL13	15	90792762..90808199	0.831305188	3.688389331	12.89186724	0.00971717	0.025790433	ENSG00000213471	ENSG00000213471	protein coding
GRAP	17	complement(18923986..18950950)	0.775652958	3.688389331	12.89186724	0.00971717	0.025790433	ENSG00000154016	ENSG00000154016	protein coding
GNA15	19	3136191..3163767	0.922293815	3.688389331	12.89186724	0.00971717	0.025790433	ENSG00000060558	ENSG00000060558	protein coding
CTD-3222D19.2	19	complement(16589878..16739015)	0.938821091	3.688389331	12.89186724	0.00971717	0.025790433	ENSG00000141979	ENSG00000141979	protein coding
LINC00158	21	complement(26758133..26804013)	1.188926364	3.688389331	12.89186724	0.00971717	0.025790433	ENSG00000185433	ENSG00000185433	lincRNA
CAMK2B	7	complement(44256749..44374176)	1.542506922	3.653805071	12.58649839	6.12382E-09	6.08132E-08	ENSG00000058404	ENSG00000058404	protein coding
ITGAM	16	31271311..31344213	5.43580818	3.643966726	12.50095776	6.66256E-19	2.08977E-17	ENSG00000169896	ENSG00000169896	protein coding
BTBD19	1	45274154..45281257	72.1921117	3.630932285	12.38852296	1.90691E-92	1.14415E-89	ENSG00000222009	ENSG00000222009	protein coding
LAMP3	3	complement(182840001..182881627)	59.08400445	3.628056484	12.36385285	4.2896E-86	2.15639E-83	ENSG00000078081	ENSG00000078081	protein coding
ETV7	6	complement(36322419..36356164)	3.503989772	3.621051673	12.30396733	1.99431E-06	1.28889E-05	ENSG00000010030	ENSG00000010030	protein coding
LCE1E	1	152758690..152760902	9.276188374	3.591190481	12.05191486	1.20094E-08	1.13793E-07	ENSG00000186226	ENSG00000186226	protein coding
PRAP1	10	135160650..135166187	12.29568234	3.591190481	12.05191486	1.20094E-08	1.13793E-07	ENSG00000165828	ENSG00000165828	protein coding
KLHL7-AS1	7	complement(23140847..23145322)	6.161694862	3.575724041	11.92340217	8.41169E-11	1.11041E-09	ENSG00000230658	ENSG00000230658	lincRNA
WDR63	1	85464830..85598821	16.44996321	3.538798132	11.62209407	7.49419E-35	5.8568E-33	ENSG00000162643	ENSG00000162643	protein coding
LCE1B	1	152784447..152785585	6.817740557	3.525121118	11.5124351	4.0305E-06	2.44272E-05	ENSG00000196734	ENSG00000196734	protein coding
RP11-462L8.1	10	33247773..33371030	6.509142074	3.525121118	11.5124351	4.0305E-06	2.44272E-05	ENSG00000229656	ENSG00000229656	lincRNA
CXCR2	2	218990012..219001976	1.823273918	3.524523045	11.50766358	5.62848E-05	0.000268091	ENSG00000180871	ENSG00000180871	protein coding
UGT1A6	2	234600253..234681946	0.775403391	3.523370763	11.49847606	0.000843573	0.00301045	ENSG00000167165	ENSG00000167165	protein coding
RP11-754B17.1	11	665910..678391	4.404155226	3.523370763	11.49847606	0.000843573	0.00301045	ENSG00000255158	ENSG00000255158	antisense
OVOL1-AS1	11	complement(65556522..65558339)	5.863634403	3.523370763	11.49847606	0.000843573	0.00301045	ENSG00000255120	ENSG00000255120	antisense

UPK2	11	118795873..118829269	3.631636135	3.523370763	11.49847606	0.000843573	0.00301045	ENSG00000110375	ENSG00000110375	protein coding
DOCK10	2	complement(225629807..225907162)	0.193599738	3.520228848	11.47346182	0.014251725	0.035720533	ENSG00000135905	ENSG00000135905	protein coding
AC145110.1	8	29605825..29656008	0.386605505	3.520228848	11.47346182	0.014251725	0.035720533	ENSG00000253490	ENSG00000253490	lincRNA
CTD-2651B20.3	15	complement(45543884..45571449)	1.587977095	3.520228848	11.47346182	0.014251725	0.035720533	ENSG00000259520	ENSG00000259520	antisense
CYP11A1	15	complement(74630100..74660081)	0.613629648	3.520228848	11.47346182	0.014251725	0.035720533	ENSG00000140459	ENSG00000140459	protein coding
RP11-156L14.1	17	60776605..60815283	0.550406244	3.520228848	11.47346182	0.014251725	0.035720533	ENSG00000265702	ENSG00000265702	antisense
TNNC2	20	complement(44451853..44462384)	2.445412217	3.520228848	11.47346182	0.014251725	0.035720533	ENSG00000101470	ENSG00000101470	protein coding
Z99756.1	22	43671961..43679836	1.097991339	3.520228848	11.47346182	0.014251725	0.035720533	ENSG00000203527	ENSG00000203527	antisense
RNF157-AS1	17	74136637..74150731	7.389258071	3.503464082	11.34090669	2.04408E-11	2.93816E-10	ENSG00000267128	ENSG00000267128	antisense
KIAA0408	6	complement(127761488..127780536)	1.296450729	3.484946952	11.19627523	4.34385E-07	3.16473E-06	ENSG00000189367	ENSG00000189367	protein coding
CTA-941F9.9	22	complement(46000312..46001501)	10.2613602	3.457685582	10.98669519	8.14792E-05	0.000374478	ENSG00000238120	ENSG00000238120	antisense
FMN1	15	complement(33057747..33486897)	2.484571017	3.443876577	10.88203582	4.02634E-28	2.28323E-26	ENSG00000248905	ENSG00000248905	protein coding
OTOF	2	complement(26680071..26781566)	1.154631539	3.443234381	10.87719291	6.23977E-07	4.43484E-06	ENSG00000115155	ENSG00000115155	protein coding
COLEC11	2	3642426..3692048	1.448538226	3.424442689	10.73643175	0.001237041	0.004227259	ENSG00000118004	ENSG00000118004	protein coding
DAPP1	4	100737990..100791311	0.824278128	3.424442689	10.73643175	0.001237041	0.004227259	ENSG00000070190	ENSG00000070190	protein coding
ADRA2A	10	112836790..112840658	0.968936916	3.424442689	10.73643175	0.001237041	0.004227259	ENSG00000150594	ENSG00000150594	protein coding
KLHL30	2	239047363..239061588	26.30294831	3.42420857	10.7346896	1.18159E-47	1.73052E-45	ENSG00000168427	ENSG00000168427	protein coding
RP11-1379J22.5	5	179084763..179091433	8.8061647	3.422354503	10.72090287	8.37618E-06	4.76735E-05	ENSG00000250999	ENSG00000250999	antisense
SOGA3_1	6	complement(127759551..127840146)	1.313156481	3.408965161	10.62186476	8.27314E-11	1.09362E-09	ENSG00000255330	ENSG00000255330	protein coding
TNFSF15	9	complement(117546915..117568406)	1.561356488	3.405841362	10.59889063	8.08666E-09	7.88609E-08	ENSG00000181634	ENSG00000181634	protein coding
RP11-16E12.1	15	31508223..31516648	2.81717662	3.387600599	10.4657268	0.000119138	0.000528494	ENSG00000259448	ENSG00000259448	lincRNA
CACNA1C	12	2079952..2802108	1.101866831	3.384340565	10.44210427	1.18266E-10	1.52338E-09	ENSG00000151067	ENSG00000151067	protein coding
PRODH	22	complement(18900294..18924066)	24.02383332	3.383969593	10.43941955	8.28685E-79	3.50308E-76	ENSG00000100033	ENSG00000100033	protein coding
ABCA1	9	complement(107543283..107690518)	25.62124093	3.327543817	10.03900108	1.68524E-92	1.04485E-89	ENSG00000165029	ENSG00000165029	protein coding
FXYD2	11	complement(117671559..117699413)	0.622170561	3.318228244	9.974387442	0.001843132	0.006027118	ENSG00000137731	ENSG00000137731	protein coding
Z69666.2	16	175736..177218	4.345873022	3.318228244	9.974387442	0.001843132	0.006027118	ENSG00000228779	ENSG00000228779	antisense
RP11-700H6.1	17	complement(49012350..49022074)	1.69476353	3.318228244	9.974387442	0.001843132	0.006027118	ENSG00000247011	ENSG00000247011	lincRNA
ACHE	7	complement(100487615..100494594)	32.01785427	3.308253741	9.90566438	5.65189E-54	1.00119E-51	ENSG00000087085	ENSG00000087085	protein coding

DQX1	2	complement(74745258..74753463)	7.559567664	3.272387784	9.662441561	2.79705E-14	5.54049E-13	ENSG00000144045	ENSG00000144045	protein coding
DOCK8	9	214854..465259	0.699449641	3.269974025	9.64628894	3.11849E-07	2.33416E-06	ENSG00000107099	ENSG00000107099	protein coding
CD82	11	44585977..44641913	105.2860347	3.269854925	9.645492637	6.9298E-108	7.1608E-105	ENSG00000085117	ENSG00000085117	protein coding
RP11-435B5.5	1	143377281..143401533	1.487970203	3.253021779	9.533604517	2.65778E-05	0.000136446	ENSG00000238261	ENSG00000238261	lincRNA
NACAD	7	complement(45120037..45128513)	1.307004943	3.253021779	9.533604517	2.65778E-05	0.000136446	ENSG00000136274	ENSG00000136274	protein coding
RELN	7	complement(103112231..103629963)	0.508348624	3.253021779	9.533604517	2.65778E-05	0.000136446	ENSG00000189056	ENSG00000189056	protein coding
CTD-2377D24.8	17	46760729..46781844	10.39893739	3.253021779	9.533604517	2.65778E-05	0.000136446	ENSG00000262745	ENSG00000262745	lincRNA
VIL1	2	219283815..219318018	1.547818715	3.204625263	9.21909582	7.69515E-08	6.43569E-07	ENSG00000127831	ENSG00000127831	protein coding
NKX2-5	5	complement(172659112..172662360)	5.115045611	3.204625263	9.21909582	7.69515E-08	6.43569E-07	ENSG00000183072	ENSG00000183072	protein coding
FBLN2	3	13573824..13679922	0.643168866	3.203568148	9.212343133	0.002794143	0.008682101	ENSG00000163520	ENSG00000163520	protein coding
CTD-2021J15.1	3	98621268..98737406	8.134864944	3.203568148	9.212343133	0.002794143	0.008682101	ENSG00000239462	ENSG00000239462	antisense
APOD	3	complement(195295573..195311076)	6.215932874	3.199088222	9.183780886	1.58463E-09	1.73581E-08	ENSG00000189058	ENSG00000189058	protein coding
IFNE	9	complement(21480841..21482312)	9.277448725	3.199088222	9.183780886	1.58463E-09	1.73581E-08	ENSG00000184995	ENSG00000184995	protein coding
INPP5D	2	233924677..234116549	14.04294913	3.191731667	9.137070371	4.21793E-46	5.76864E-44	ENSG00000168918	ENSG00000168918	protein coding
TREH	11	complement(118528026..118550399)	2.862077863	3.187721103	9.111705403	6.80239E-07	4.79987E-06	ENSG00000118094	ENSG00000118094	protein coding
SERPINE1	7	100770370..100782547	384.2831146	3.177733351	9.048843078	1.3242E-139	4.9259E-136	ENSG00000106366	ENSG00000106366	protein coding
RP11-115D19.1	4	90472507..90647654	26.00051872	3.170961181	9.006466344	2.06113E-41	2.30946E-39	ENSG00000251095	ENSG00000251095	antisense
LINC00842	10	complement(47011753..47174018)	1.686756773	3.163933242	8.96269897	6.24011E-06	3.66717E-05	ENSG00000223477	ENSG00000223477	lincRNA
LAMA3	18	21269407..21535030	41.48673835	3.159392181	8.93453212	5.906E-114	8.4501E-111	ENSG00000053747	ENSG00000053747	protein coding
SLCO2B1	11	74811608..74917594	0.485353965	3.154262651	8.902821629	0.000397805	0.001550737	ENSG00000137491	ENSG00000137491	protein coding
LGALS9B	17	complement(20352708..20370852)	1.704919416	3.154262651	8.902821629	0.000397805	0.001550737	ENSG00000170298	ENSG00000170298	protein coding
FAM92B	16	complement(85131965..85146114)	6.210857174	3.153253098	8.896593889	1.95417E-08	1.79052E-07	ENSG00000153789	ENSG00000153789	protein coding
EDN2	1	complement(41944446..41950344)	5.39139539	3.144766499	8.844413635	1.01322E-06	6.91084E-06	ENSG00000127129	ENSG00000127129	protein coding
PTAFR	1	complement(28473677..28520447)	59.34697432	3.130407078	8.756820128	3.42277E-85	1.59159E-82	ENSG00000169403	ENSG00000169403	protein coding
ANKRD65	1	complement(1353800..1357149)	2.228062795	3.127975307	8.742072284	5.98542E-05	0.000283207	ENSG00000235098	ENSG00000235098	protein coding
RP11-782C8.2	1	complement(143118704..143211070)	4.528848714	3.114741195	8.662246304	5.01404E-20	1.7432E-18	ENSG00000232274	ENSG00000232274	lincRNA
CEACAM22P	19	complement(45041045..45124119)	2.280713318	3.111635089	8.643616647	9.37694E-06	5.28358E-05	ENSG00000230666	ENSG00000230666	pseudogene
TMEM40	3	complement(12775024..12810956)	40.66956682	3.096705564	8.55463063	1.45999E-58	3.05122E-56	ENSG00000088726	ENSG00000088726	protein coding

ESPNL	2	239008798..239041928	3.146153707	3.094779746	8.543218886	3.1105E-11	4.3533E-10	ENSG00000144488	ENSG00000144488	protein coding
SNAI2	8	complement(49830249..49834299)	17.71852248	3.092940799	8.532336113	5.50492E-23	2.29577E-21	ENSG00000019549	ENSG00000019549	protein coding
AQP3	9	complement(33441152..33447609)	109.4685271	3.085987854	8.491314181	2.4487E-89	1.30131E-86	ENSG00000165272	ENSG00000165272	protein coding
MYO1H	12	109785708..109893328	0.609455621	3.07900236	8.450298823	0.004316583	0.01273409	ENSG00000174527	ENSG00000174527	protein coding
EVPLL	17	18280976..18292961	1.366186927	3.07900236	8.450298823	0.004316583	0.01273409	ENSG00000214860	ENSG00000214860	protein coding
KIAA1324	1	109656301..109749401	6.220573214	3.077299161	8.440328565	1.91458E-30	1.24081E-28	ENSG00000116299	ENSG00000116299	protein coding
CGB7	19	complement(49557531..49562117)	38.50170492	3.075397899	8.429212764	1.79471E-54	3.2727E-52	ENSG00000196337	ENSG00000196337	protein coding
CDKN1A	6	36644305..36655116	2935.362228	3.070587462	8.4011537	4.4708E-155	2.7719E-151	ENSG00000124762	ENSG00000124762	protein coding
GRIN2C	17	complement(72838162..72857627)	39.50692637	3.069545561	8.395088655	6.27098E-91	3.53455E-88	ENSG00000161509	ENSG00000161509	protein coding
LINC00324	17	complement(8123960..8127361)	9.260148855	3.06750939	8.383248469	1.68232E-12	2.73763E-11	ENSG00000178977	ENSG00000178977	lincRNA
SLAMF7	1	160709037..160724611	4.769191202	3.064326049	8.364771029	6.6245E-14	1.26505E-12	ENSG00000026751	ENSG00000026751	protein coding
RP3-326I13.1	X	43036243..43085847	3.124815341	3.05736957	8.324534324	1.41936E-05	7.70805E-05	ENSG00000224294	ENSG00000224294	lincRNA
UNC5B-AS1	10	complement(72976981..72977985)	53.78177448	3.054678636	8.309021767	9.24937E-22	3.61425E-20	ENSG00000237512	ENSG00000237512	antisense
GOLGA8O	15	complement(32737307..32747835)	4.135484752	3.052977945	8.299232616	3.79645E-07	2.79327E-06	ENSG00000206127	ENSG00000206127	protein coding
FAM3C2	X	23093875..23094884	29.88358365	3.046976494	8.264780444	4.8587E-13	8.37552E-12	ENSG00000174028	ENSG00000174028	pseudogene
PLXNB3	X	153029651..153044801	49.5499592	3.045179295	8.254491222	1.20469E-91	7.00228E-89	ENSG00000198753	ENSG00000198753	protein coding
PRCD	17	74523668..74549660	2.271398435	3.018850986	8.105217982	1.68772E-08	1.56022E-07	ENSG00000214140	ENSG00000214140	protein coding
PDE4C	19	complement(18318771..18366229)	6.182748433	3.014634647	8.08156471	4.82039E-28	2.71695E-26	ENSG00000105650	ENSG00000105650	protein coding
TMEM56-RWDD3	1	95583479..95712781	4.096470745	3.007650907	8.042538329	3.4699E-06	2.13638E-05	ENSG00000271092	ENSG00000271092	protein coding
NCKAP5	2	complement(133429374..134326034)	1.65516874	3.000280825	8.001557375	1.49782E-10	1.90037E-09	ENSG00000176771	ENSG00000176771	protein coding
ZC3H12D	6	complement(149768794..149806197)	1.037275374	2.991052861	7.950540051	0.000139863	0.000609525	ENSG00000178199	ENSG00000178199	protein coding
TCTEX1D4	1	complement(45271585..45272957)	75.56903689	2.987205849	7.929367818	2.79972E-43	3.42597E-41	ENSG00000188396	ENSG00000188396	protein coding
AC008132.13	22	18834324..18848562	0.522381268	2.974691716	7.860884848	0.000944889	0.003329849	ENSG00000161103	ENSG00000161103	protein coding
TLR3	4	186990306..187009223	19.59311983	2.959758915	7.779939384	4.04253E-53	6.89826E-51	ENSG00000164342	ENSG00000164342	protein coding
GTF2IRD2P1	7	complement(72656902..72694143)	0.83236754	2.942656096	7.688254514	0.00680741	0.018949091	ENSG00000214544	ENSG00000214544	pseudogene
NRG1	8	31496902..32622548	0.349709596	2.942656096	7.688254514	0.00680741	0.018949091	ENSG00000157168	ENSG00000157168	protein coding
SCN4B	11	complement(118004092..118023603)	1.137642646	2.942302365	7.686369678	3.32679E-05	0.000167239	ENSG00000177098	ENSG00000177098	protein coding
RTN1	14	complement(60062694..60337684)	1.03503677	2.942302365	7.686369678	3.32679E-05	0.000167239	ENSG00000139970	ENSG00000139970	protein coding

C1orf222	1	complement(1853396..1935276)	6.709740634	2.936555799	7.655814105	3.55506E-34	2.71001E-32	ENSG00000142609	ENSG00000142609	protein coding
YPEL3	16	complement(30103635..30108236)	30.13599632	2.934029226	7.642418307	8.78336E-43	1.054E-40	ENSG00000090238	ENSG00000090238	protein coding
RASGRF1	15	complement(79252289..79383115)	1.449420013	2.932000392	7.631678479	1.01854E-08	9.79571E-08	ENSG00000058335	ENSG00000058335	protein coding
RGAG1	X	109602044..109699562	1.598208907	2.927770419	7.609335213	1.32655E-06	8.84053E-06	ENSG00000243978	ENSG00000243978	protein coding
F5	1	complement(169483404..169555826)	4.152383737	2.920617975	7.571703802	1.79727E-17	4.89447E-16	ENSG00000198734	ENSG00000198734	protein coding
RP11-15E18.1	17	58603654..58628159	7.085905455	2.917388585	7.554773934	0.00021698	0.00090186	ENSG00000259349	ENSG00000259349	antisense
RP11-134G8.8	1	complement(201433511..201434274)	34.92686579	2.905639381	7.493498253	4.39859E-13	7.62476E-12	ENSG00000224818	ENSG00000224818	lincRNA
PLA2G4C	19	complement(48551100..48614074)	1.295739363	2.883497539	7.379369412	2.03491E-06	1.31012E-05	ENSG00000105499	ENSG00000105499	protein coding
RAB6C-AS1	2	complement(130724165..130738039)	1.52763526	2.875763643	7.339916458	0.001486419	0.004983307	ENSG00000225449	ENSG00000225449	pseudogene
ZDHHC22	14	complement(77597613..77609077)	0.970693146	2.875763643	7.339916458	0.001486419	0.004983307	ENSG00000177108	ENSG00000177108	protein coding
RP5-1029K10.2	17	complement(47583019..47651426)	3.070284134	2.875763643	7.339916458	0.001486419	0.004983307	ENSG00000249906	ENSG00000249906	antisense
RP11-30P6.6	6	complement(86096937..86099904)	2.87698417	2.85612181	7.240663024	1.25744E-05	6.91555E-05	ENSG00000234155	ENSG00000234155	lincRNA
CACNA1A	19	complement(13317256..13734804)	6.876039854	2.845771494	7.188902287	3.5545E-35	2.86207E-33	ENSG00000141837	ENSG00000141837	protein coding
ADRB2	5	148206156..148208196	10.88933314	2.836138441	7.141060997	1.30956E-13	2.4069E-12	ENSG00000169252	ENSG00000169252	protein coding
RP11-597D13.9	4	159091904..159124029	1.234631775	2.801856291	6.973371256	1.95712E-05	0.000103357	ENSG00000248429	ENSG00000248429	antisense
AC104134.2	2	88838238..88875128	1.379481248	2.792066173	6.926210204	0.010979774	0.028605512	ENSG00000225420	ENSG00000225420	antisense
PCDHB14	5	140602931..140605858	0.823071632	2.792066173	6.926210204	0.010979774	0.028605512	ENSG00000120327	ENSG00000120327	protein coding
TRIM55	8	67039131..67087720	0.782706638	2.792066173	6.926210204	0.010979774	0.028605512	ENSG00000147573	ENSG00000147573	protein coding
CCDC63	12	111284573..111345339	1.103458672	2.792066173	6.926210204	0.010979774	0.028605512	ENSG00000173093	ENSG00000173093	protein coding
AL133373.1	14	complement(92038788..92041383)	0.92833349	2.792066173	6.926210204	0.010979774	0.028605512	ENSG00000268657	ENSG00000268657	protein coding
DYNAP	18	52254988..52266724	1.127727534	2.792066173	6.926210204	0.010979774	0.028605512	ENSG00000178690	ENSG00000178690	protein coding
CTD-3214H19.6	19	complement(7698652..7701876)	2.858782609	2.792066173	6.926210204	0.010979774	0.028605512	ENSG00000268204	ENSG00000268204	antisense
PINLYP	19	44080952..44088116	0.67505707	2.792066173	6.926210204	0.010979774	0.028605512	ENSG00000234465	ENSG00000234465	protein coding
FAM212B-AS1	1	112282463..112290420	3.769675801	2.790654827	6.91943781	4.86954E-06	2.90672E-05	ENSG00000227811	ENSG00000227811	antisense
KRTAP2-3	17	complement(39215495..39216344)	117.8199606	2.788551649	6.90935792	3.03266E-42	3.52547E-40	ENSG00000212724	ENSG00000212724	protein coding
ICAM1	19	10381511..10397291	8.814965408	2.78547536	6.894640649	2.20921E-18	6.59571E-17	ENSG00000090339	ENSG00000090339	protein coding
RP11-467J12.4	16	complement(53069602..53086785)	19.62127087	2.782140489	6.878721704	1.23663E-06	8.30672E-06	ENSG00000261550	ENSG00000261550	antisense
TMPRSS4	11	117947753..117992605	3.508409888	2.78133983	6.874905249	2.56391E-19	8.44047E-18	ENSG00000137648	ENSG00000137648	protein coding

ALG1L	3	complement(125648118..125655882)	4.324278622	2.769549197	6.818948067	0.002372819	0.007544347	ENSG00000189366	ENSG00000189366	protein coding
KCNA7	19	complement(49570675..49576198)	7.349660688	2.761646143	6.781696134	4.75362E-18	1.35195E-16	ENSG00000104848	ENSG00000104848	protein coding
TLX2	2	74740590..74744274	1.640408952	2.757714913	6.763241701	0.00053886	0.002023579	ENSG00000115297	ENSG00000115297	protein coding
COL4A2	13	110958159..111165374	0.577315769	2.757714913	6.763241701	0.00053886	0.002023579	ENSG00000134871	ENSG00000134871	protein coding
NCF2	1	complement(183524698..183560011)	1.920500475	2.750418429	6.729122708	0.000126769	0.000557557	ENSG00000116701	ENSG00000116701	protein coding
AC073283.4	2	complement(47419544..47572213)	1.583115257	2.750418429	6.729122708	0.000126769	0.000557557	ENSG00000234690	ENSG00000234690	lincRNA
TNFRSF14	1	2487078..2496821	1.248658385	2.741892345	6.689472009	7.59764E-06	4.37241E-05	ENSG00000157873	ENSG00000157873	protein coding
ITGAX	16	31366455..31394318	7.008896533	2.740420509	6.682650897	1.04438E-23	4.60319E-22	ENSG00000140678	ENSG00000140678	protein coding
AOX1	2	201450591..201541787	1.591588084	2.739185885	6.676934486	1.92187E-06	1.24727E-05	ENSG00000138356	ENSG00000138356	protein coding
FAM212B	1	complement(112223252..112298446)	27.39146126	2.726485332	6.618413051	5.02141E-69	1.69815E-66	ENSG00000197852	ENSG00000197852	protein coding
CEL	9	135937365..135947248	48.1855963	2.721151819	6.593990548	4.19467E-45	5.53339E-43	ENSG00000170835	ENSG00000170835	protein coding
GALNT5	2	158114110..158170723	10.44698176	2.705867967	6.524502806	1.39198E-32	9.91988E-31	ENSG00000136542	ENSG00000136542	protein coding
APOBEC3D	22	39410368..39429281	27.14551691	2.705442705	6.522579868	7.05973E-32	4.79237E-30	ENSG00000243811	ENSG00000243811	protein coding
MGAM	7	141607613..141806547	2.064189554	2.69290359	6.466134828	3.07689E-13	5.4144E-12	ENSG00000257335	ENSG00000257335	protein coding
HMCN2	9	133046882..133309510	6.885953323	2.690226712	6.454148228	1.06046E-36	9.1742E-35	ENSG00000148357	ENSG00000148357	protein coding
ATP6V0A4	7	complement(138391040..138484305)	4.978420384	2.690082501	6.453503108	3.38336E-12	5.31957E-11	ENSG00000105929	ENSG00000105929	protein coding
ABCG4	11	119019722..119033360	14.22595539	2.687297705	6.441058097	8.01735E-38	7.45613E-36	ENSG00000172350	ENSG00000172350	protein coding
RP11-1220K2.2	7	141811549..141922124	0.656144665	2.680333446	6.410040385	0.000201363	0.000842218	ENSG00000257743	ENSG00000257743	protein coding
IGHA1	14	complement(106173457..106175002)	4.824732211	2.680333446	6.410040385	0.000201363	0.000842218	ENSG00000211895	ENSG00000211895	IG_C_gene
RP3-402G11.28	22	complement(50646890..50647971)	8.367894929	2.680333446	6.410040385	0.000201363	0.000842218	ENSG00000273137	ENSG00000273137	antisense
MYH16	7	98836417..98908753	5.701750232	2.672156822	6.373813573	1.66059E-19	5.56521E-18	ENSG00000002079	ENSG00000002079	pseudogene
C4A-AS1	6	complement(31967753..31971298)	2.045041625	2.670721523	6.367475584	0.000863208	0.003071092	ENSG00000233627	ENSG00000233627	antisense
SERPINA1	14	complement(94843084..94857030)	15.13117516	2.660712938	6.323454591	4.77336E-33	3.44126E-31	ENSG00000197249	ENSG00000197249	protein coding
C2orf54	2	complement(241825465..241836306)	3.380967648	2.65709418	6.307613142	1.20374E-06	8.11214E-06	ENSG00000172478	ENSG00000172478	protein coding
CFI	4	complement(110661852..110723335)	0.829659606	2.654889102	6.297979677	0.003846487	0.01153574	ENSG00000205403	ENSG00000205403	protein coding
ICAM2	17	complement(62079954..62097994)	0.990833072	2.654889102	6.297979677	0.003846487	0.01153574	ENSG00000108622	ENSG00000108622	protein coding
CD7	17	complement(80272744..80275478)	1.174870805	2.654889102	6.297979677	0.003846487	0.01153574	ENSG00000173762	ENSG00000173762	protein coding
CTD-2195B23.3	19	complement(41727331..41727956)	11.23521557	2.654889102	6.297979677	0.003846487	0.01153574	ENSG00000269652	ENSG00000269652	antisense

C21orf62	21	complement(34162985..34186053)	0.779541886	2.654889102	6.297979677	0.003846487	0.01153574	ENSG00000205929	ENSG00000205929	protein coding
GAS6-AS2	13	114567141..114569806	13.16914612	2.652836107	6.289023852	9.73293E-15	2.02724E-13	ENSG00000272695	ENSG00000272695	lincRNA
CTD-2207P18.2	14	complement(75081396..75083350)	18.67312676	2.647877869	6.267446904	9.39873E-09	9.07666E-08	ENSG00000258976	ENSG00000258976	lincRNA
TMEM249	8	complement(145575878..145578574)	21.32596399	2.636586743	6.218586731	9.20811E-24	4.06819E-22	ENSG00000214597	ENSG00000214597	protein coding
ACER2	9	19408925..19452018	51.75252867	2.631869437	6.198286481	3.80117E-46	5.23717E-44	ENSG00000177076	ENSG00000177076	protein coding
DMBT1	10	124320181..124403252	2.25548611	2.626231795	6.174112602	4.0245E-11	5.56548E-10	ENSG00000187908	ENSG00000187908	protein coding
ALPL	1	21835858..21904905	2.043387746	2.625620236	6.17149595	7.69014E-05	0.000355547	ENSG00000162551	ENSG00000162551	protein coding
RP11-164O23.7	1	207352641..207357407	6.517217638	2.625620236	6.17149595	7.69014E-05	0.000355547	ENSG00000243636	ENSG00000243636	lincRNA
TP53INP1	8	complement(95938200..95961639)	207.7180884	2.623926131	6.164253236	3.3018E-100	2.67017E-97	ENSG00000164938	ENSG00000164938	protein coding
LIN28A	1	26737269..26756213	0.534476323	2.623905689	6.164165895	0.018148553	0.043884956	ENSG00000131914	ENSG00000131914	protein coding
REN	1	complement(204123944..204135465)	1.46223966	2.623905689	6.164165895	0.018148553	0.043884956	ENSG00000143839	ENSG00000143839	protein coding
RP11-6F2.5	3	156799630..156806336	1.4309827	2.623905689	6.164165895	0.018148553	0.043884956	ENSG00000241544	ENSG00000241544	lincRNA
CLDN1	3	complement(190023490..190040264)	0.584816026	2.623905689	6.164165895	0.018148553	0.043884956	ENSG00000163347	ENSG00000163347	protein coding
MYOZ3	5	150040436..150058927	0.396040137	2.623905689	6.164165895	0.018148553	0.043884956	ENSG00000164591	ENSG00000164591	protein coding
SFTA1P	10	complement(10826400..10836943)	2.742869529	2.623905689	6.164165895	0.018148553	0.043884956	ENSG00000225383	ENSG00000225383	lincRNA
IL34	16	70613798..70694585	0.959328751	2.623905689	6.164165895	0.018148553	0.043884956	ENSG00000157368	ENSG00000157368	protein coding
TEKT3	17	complement(15207128..15244958)	0.821388459	2.623905689	6.164165895	0.018148553	0.043884956	ENSG00000125409	ENSG00000125409	protein coding
FUT5	19	complement(5865837..5903798)	0.869744662	2.623905689	6.164165895	0.018148553	0.043884956	ENSG00000130383	ENSG00000130383	protein coding
RP1-149A16.3	22	32772651..32780330	1.374955778	2.623905689	6.164165895	0.018148553	0.043884956	ENSG00000230736	ENSG00000230736	lincRNA
RP11-488P3.1	1	complement(94218480..94241000)	20.99234922	2.618152988	6.139635417	1.12724E-18	3.45986E-17	ENSG00000230439	ENSG00000230439	sense_intronic
TMEM229B	14	complement(67913801..68000456)	4.702922287	2.613542782	6.12004721	1.71297E-16	4.24817E-15	ENSG00000198133	ENSG00000198133	protein coding
LINC01134	1	3816936..3833789	2.96500214	2.61016665	6.105742089	5.36462E-08	4.59613E-07	ENSG00000236423	ENSG00000236423	lincRNA
DSC3	18	complement(28569974..28622781)	12.67517871	2.609311863	6.102125549	7.31133E-37	6.47575E-35	ENSG00000134762	ENSG00000134762	protein coding
COL16A1	1	complement(32117848..32169920)	6.347626863	2.603892148	6.079244941	1.04735E-27	5.79783E-26	ENSG00000084636	ENSG00000084636	protein coding
FNDC9	5	complement(156768608..156772729)	3.5156145	2.602070293	6.07157283	7.43402E-06	4.28886E-05	ENSG00000172568	ENSG00000172568	protein coding
CALHM1	10	complement(105213144..105218645)	2.631241117	2.602070293	6.07157283	7.43402E-06	4.28886E-05	ENSG00000185933	ENSG00000185933	protein coding
MFSD4	1	205538013..205572046	3.365185752	2.590668944	6.023779427	2.74532E-11	3.88016E-10	ENSG00000174514	ENSG00000174514	protein coding
HRCT1	9	35906189..35907138	7.328514296	2.584860212	5.999574606	2.98852E-05	0.000151834	ENSG00000196196	ENSG00000196196	protein coding

IFI16	1	158969758..159024945	0.758706	2.578143978	5.971709468	0.001398522	0.004726111	ENSG00000163565	ENSG00000163565	protein coding
CSF2	5	131409483..131411859	5.129744018	2.578143978	5.971709468	0.001398522	0.004726111	ENSG00000164400	ENSG00000164400	protein coding
AC006014.8	7	complement(75021229..75024708)	3.579848098	2.578143978	5.971709468	0.001398522	0.004726111	ENSG00000146722	ENSG00000146722	pseudogene
RP11-4C20.3	10	complement(129727640..129732781)	5.369772147	2.578143978	5.971709468	0.001398522	0.004726111	ENSG00000232259	ENSG00000232259	lincRNA
RP11-806L2.2	18	650229..652843	1.907212519	2.578143978	5.971709468	0.001398522	0.004726111	ENSG00000266456	ENSG00000266456	antisense
AC010761.9	17	complement(27072587..27074670)	27.75378587	2.554623711	5.875141958	4.10961E-09	4.20686E-08	ENSG00000265474	ENSG00000265474	antisense
REEP2	5	137774706..137782658	30.41388364	2.5465749	5.842455739	1.2411E-38	1.2279E-36	ENSG00000132563	ENSG00000132563	protein coding
TXNRD3NB	3	complement(126290625..126327398)	2.604331578	2.530323313	5.777011286	0.006336147	0.01781054	ENSG00000206483	ENSG00000206483	protein coding
PDZD3	11	119056166..119060932	0.769662664	2.530323313	5.777011286	0.006336147	0.01781054	ENSG00000172367	ENSG00000172367	protein coding
RP11-2E17.1	15	complement(80487826..80544555)	0.427503485	2.530323313	5.777011286	0.006336147	0.01781054	ENSG00000259417	ENSG00000259417	lincRNA
RP11-266L9.4	16	25043202..25069430	5.131531385	2.530323313	5.777011286	0.006336147	0.01781054	ENSG00000262587	ENSG00000262587	pseudogene
CTD-2653D5.1	20	46306645..46315041	3.516095366	2.528154125	5.76833169	4.7114E-06	2.81956E-05	ENSG00000255438	ENSG00000255438	antisense
RP11-417J8.6	1	complement(142620645..142729967)	1.751783611	2.513129901	5.708572003	2.31974E-08	2.10474E-07	ENSG00000203849	ENSG00000203849	lincRNA
SNCA	4	complement(90645250..90759466)	4.40613166	2.505891052	5.680000482	1.51582E-10	1.92059E-09	ENSG00000145335	ENSG00000145335	protein coding
NLRP1	17	complement(5402747..5522744)	17.16035716	2.505256399	5.677502355	3.70313E-58	7.56903E-56	ENSG00000091592	ENSG00000091592	protein coding
SERPINF1	17	1665253..1680868	5.147795903	2.503409545	5.670238998	1.19963E-09	1.34013E-08	ENSG00000132386	ENSG00000132386	protein coding
ANKRD2	10	99332198..99343641	3.726458179	2.494905151	5.636912413	0.000198341	0.000831825	ENSG00000165887	ENSG00000165887	protein coding
AC135048.13	16	30959707..30967832	3.449831529	2.494905151	5.636912413	0.000198341	0.000831825	ENSG00000261487	ENSG00000261487	processed_transcript
CTD-3224K15.2	5	complement(139028584..139029313)	6.497083064	2.479215904	5.575943351	0.00229208	0.007310131	ENSG00000250635	ENSG00000250635	lincRNA
PRUNE2	9	complement(79226292..79521003)	0.253281327	2.479215904	5.575943351	0.00229208	0.007310131	ENSG00000106772	ENSG00000106772	protein coding
LINC00483	17	complement(48838390..48844918)	1.119718318	2.479215904	5.575943351	0.00229208	0.007310131	ENSG00000167117	ENSG00000167117	processed_transcript
MIA	19	41277553..41283395	2.874859607	2.479215904	5.575943351	0.00229208	0.007310131	ENSG00000261857	ENSG00000261857	protein coding
FBLIM1	1	16083102..16113089	28.10590663	2.460177063	5.5028426	5.17192E-44	6.58888E-42	ENSG00000162458	ENSG00000162458	protein coding
GADD45G	9	92219928..92221470	5.468881406	2.450541196	5.466211175	3.00882E-05	0.000152657	ENSG00000130222	ENSG00000130222	protein coding
RP11-866E20.3	18	57677513..57681490	4.10321295	2.450541196	5.466211175	3.00882E-05	0.000152657	ENSG00000267462	ENSG00000267462	lincRNA
MYO7A	11	76839310..76926284	11.22764118	2.449462498	5.462125636	4.17568E-40	4.46365E-38	ENSG00000137474	ENSG00000137474	protein coding
CERS1	19	complement(18979361..19007536)	1.215198836	2.446995498	5.452793415	0.000850422	0.00303082	ENSG00000223802	ENSG00000223802	protein coding
FGF17	8	21899909..21906320	7.739093576	2.424892455	5.3698897	1.01872E-13	1.89862E-12	ENSG00000158815	ENSG00000158815	protein coding

CD68	17	7482785..7485429	13.59065514	2.420948177	5.355228658	1.82632E-15	4.11254E-14	ENSG00000129226	ENSG00000129226	protein coding
RP11-295K3.1	11	complement(1768897..1780281)	11.55005216	2.414688226	5.332042302	3.78004E-08	3.33691E-07	ENSG00000250644	ENSG00000250644	protein coding
PARP10	8	complement(145051321..145086940)	19.08540266	2.400324774	5.279219949	1.90444E-39	1.99004E-37	ENSG00000178685	ENSG00000178685	protein coding
MMRN1	4	90800683..90875780	0.485975749	2.39397705	5.256042896	0.010611367	0.027817095	ENSG00000138722	ENSG00000138722	protein coding
RP11-843P14.1	5	175781209..175783171	5.071451472	2.39397705	5.256042896	0.010611367	0.027817095	ENSG00000251414	ENSG00000251414	antisense
PLXNA4	7	complement(131808091..132333447)	0.163555239	2.39397705	5.256042896	0.010611367	0.027817095	ENSG00000221866	ENSG00000221866	protein coding
PDE6C	10	95372345..95425767	0.808980779	2.39397705	5.256042896	0.010611367	0.027817095	ENSG00000095464	ENSG00000095464	protein coding
CASC1	12	complement(25261354..25348096)	0.907088881	2.39397705	5.256042896	0.010611367	0.027817095	ENSG00000118307	ENSG00000118307	protein coding
MIP	12	complement(56843286..56862950)	0.799798798	2.39397705	5.256042896	0.010611367	0.027817095	ENSG00000135517	ENSG00000135517	protein coding
CTD-2555K7.2	14	complement(23171820..23235771)	1.943197661	2.39397705	5.256042896	0.010611367	0.027817095	ENSG00000258458	ENSG00000258458	processed_transcript
RP11-219B17.1	15	60771377..60922836	1.315189773	2.39397705	5.256042896	0.010611367	0.027817095	ENSG00000245534	ENSG00000245534	antisense
IL16	15	81451916..81605104	0.246227713	2.39397705	5.256042896	0.010611367	0.027817095	ENSG00000172349	ENSG00000172349	protein coding
TCEB3B	18	complement(44558943..44561988)	0.879095987	2.39397705	5.256042896	0.010611367	0.027817095	ENSG00000206181	ENSG00000206181	protein coding
FXYD3	19	35606732..35615228	88.20280386	2.390723557	5.244203088	1.16628E-61	2.93147E-59	ENSG00000089356	ENSG00000089356	protein coding
CFLAR-AS1	2	complement(202005007..202022546)	2.452749998	2.386548931	5.229050238	1.91773E-05	0.000101479	ENSG00000226312	ENSG00000226312	antisense
STK32A	5	146614526..146767415	0.994927161	2.386548931	5.229050238	1.91773E-05	0.000101479	ENSG00000169302	ENSG00000169302	protein coding
RP11-287D1.3	2	complement(74438731..74590504)	1.693758531	2.37868894	5.200639155	7.68759E-06	4.4187E-05	ENSG00000264324	ENSG00000264324	protein coding
ZNF385C	17	complement(40177594..40217383)	3.821584077	2.377610701	5.196753761	5.36972E-11	7.26905E-10	ENSG00000187595	ENSG00000187595	protein coding
GGT1	22	24979718..25024972	31.46358689	2.377311666	5.195676715	2.02116E-43	2.50624E-41	ENSG00000100031	ENSG00000100031	protein coding
RP11-18H21.1	4	153021906..153025872	4.660389021	2.372205268	5.177319201	3.11707E-06	1.93775E-05	ENSG00000245954	ENSG00000245954	lincRNA
RGCC	13	42031695..42045018	10.63825402	2.362136192	5.141310672	5.28961E-07	3.79579E-06	ENSG00000102760	ENSG00000102760	protein coding
FOXJ1	17	complement(74132414..74137380)	4.15701558	2.362136192	5.141310672	5.28961E-07	3.79579E-06	ENSG00000129654	ENSG00000129654	protein coding
RP5-1109J22.1	1	46897801..46911193	2.238433753	2.360002108	5.133711092	0.001399026	0.004726953	ENSG00000232022	ENSG00000232022	pseudogene
BTG2	1	203274619..203278730	381.894092	2.359055088	5.130342306	1.11368E-81	4.93203E-79	ENSG00000159388	ENSG00000159388	protein coding
DUOXA1	15	complement(45409569..45422136)	3.1697595	2.358148833	5.127120598	2.21163E-07	1.70055E-06	ENSG00000140254	ENSG00000140254	protein coding
RP11-709D24.6	16	complement(4684330..4690624)	8.156392724	2.354678517	5.11480244	9.33401E-08	7.68197E-07	ENSG00000261442	ENSG00000261442	antisense
NEXN-AS1	1	complement(78347033..78355224)	1.969678713	2.351155893	5.102328877	0.000526164	0.001983915	ENSG00000235927	ENSG00000235927	antisense
HLA-DOB	6	complement(32780540..32784825)	2.738256252	2.351155893	5.102328877	0.000526164	0.001983915	ENSG00000241106	ENSG00000241106	protein coding

MR1	1	181003067..181031074	20.60901238	2.344839103	5.080037345	6.90823E-50	1.07078E-47	ENSG00000153029	ENSG00000153029	protein coding
KRT15	17	complement(39669995..39678781)	56.97128974	2.343116021	5.073973627	5.794E-66	1.65797E-63	ENSG00000171346	ENSG00000171346	protein coding
TCEA3	1	complement(23707554..23751233)	11.50317732	2.339467008	5.061156228	5.66949E-19	1.79341E-17	ENSG00000204219	ENSG00000204219	protein coding
KIAA0247	14	70078313..70181859	73.80971335	2.338777959	5.058739532	4.93855E-67	1.50585E-64	ENSG00000100647	ENSG00000100647	protein coding
SYT11	1	155829300..155854990	1.430846156	2.336080469	5.049289754	3.08793E-05	0.000156329	ENSG00000132718	ENSG00000132718	protein coding
C19orf38	19	10947251..10980466	4.790820355	2.336080469	5.049289754	3.08793E-05	0.000156329	ENSG00000214212	ENSG00000214212	protein coding
CALML6	1	1846266..1848735	8.883452436	2.334989785	5.04547391	2.64409E-11	3.74848E-10	ENSG00000169885	ENSG00000169885	protein coding
FOXD4L2	9	42717234..42720342	2.669974837	2.333014301	5.038569866	1.23282E-05	6.78418E-05	ENSG00000204828	ENSG00000204828	protein coding
KRT81	12	complement(52679697..52685318)	19.01754866	2.321617974	4.998925318	1.61773E-17	4.4315E-16	ENSG00000205426	ENSG00000205426	protein coding
ESRRB	14	76776957..76968178	10.35947031	2.319348129	4.99106651	1.83377E-19	6.13454E-18	ENSG00000119715	ENSG00000119715	protein coding
SCN3B	11	complement(123499895..123525952)	4.894829493	2.318065602	4.986631522	8.64422E-21	3.20923E-19	ENSG00000166257	ENSG00000166257	protein coding
IDUA	4	980785..998316	60.18559535	2.315197685	4.9767285	2.75419E-54	4.97358E-52	ENSG00000127415	ENSG00000127415	protein coding
HES2	1	complement(6472478..6484730)	66.01459702	2.315050962	4.97622239	2.18894E-62	5.73441E-60	ENSG00000069812	ENSG00000069812	protein coding
FAM212A	3	49840687..49842463	21.62778997	2.297872662	4.917321429	6.14091E-12	9.32247E-11	ENSG00000185614	ENSG00000185614	protein coding
PTCHD4	6	complement(47845764..48036425)	8.948168114	2.293044689	4.900893135	1.43091E-20	5.22888E-19	ENSG00000244694	ENSG00000244694	protein coding
PMS2P2	7	complement(74880905..74988262)	5.188275004	2.288950194	4.887003691	3.24671E-06	2.01095E-05	ENSG00000174368	ENSG00000174368	pseudogene
TCEB3CL	18	complement(44548658..44550534)	4.279797087	2.285846228	4.876500578	1.98403E-05	0.000104689	ENSG00000234298	ENSG00000234298	protein coding
WBSCR28	7	73275489..73280223	6.577833475	2.281208472	4.860849519	0.000127279	0.000559402	ENSG00000175877	ENSG00000175877	protein coding
RFPL2	22	complement(32586422..32600718)	2.360963742	2.281208472	4.860849519	0.000127279	0.000559402	ENSG00000128253	ENSG00000128253	protein coding
FAS	10	90750414..90775542	110.9580049	2.278088686	4.850349431	9.9429E-63	2.64197E-60	ENSG00000026103	ENSG00000026103	protein coding
CSTA	3	122044091..122060819	4.095575668	2.277909071	4.849745601	0.000329247	0.001311068	ENSG00000121552	ENSG00000121552	protein coding
RP3-327A19.5	X	complement(119055224..119056803)	6.942253571	2.277909071	4.849745601	0.000329247	0.001311068	ENSG00000227285	ENSG00000227285	antisense
PIDD	11	complement(799179..809753)	170.1353154	2.275740377	4.842460822	4.85447E-76	1.92113E-73	ENSG00000177595	ENSG00000177595	protein coding
DUOX1	15	45422131..45457774	42.76924075	2.275713515	4.842370661	1.08191E-61	2.75665E-59	ENSG00000137857	ENSG00000137857	protein coding
ANKRD29	18	complement(21178890..21242849)	8.477518007	2.273736164	4.835738275	7.28492E-23	2.99778E-21	ENSG00000154065	ENSG00000154065	protein coding
SLC25A45	11	complement(65142663..65151172)	10.0904775	2.26903251	4.819997873	2.08575E-29	1.2555E-27	ENSG00000162241	ENSG00000162241	protein coding
CYP2W1	7	1022835..1029276	1.448463601	2.267424563	4.814628769	0.002321461	0.007394962	ENSG00000073067	ENSG00000073067	protein coding
LA16c-349E10.1	16	complement(705034..706194)	4.040834573	2.267424563	4.814628769	0.002321461	0.007394962	ENSG00000262528	ENSG00000262528	antisense

GJB5	1	35220648..35224113	103.1566914	2.262694073	4.79886781	8.2772E-41	9.05623E-39	ENSG00000189280	ENSG00000189280	protein coding
TTLL10	1	1109264..1133315	0.814930675	2.258341364	4.784411118	0.006374694	0.017898344	ENSG00000162571	ENSG00000162571	protein coding
RP3-437I16.1	1	complement(29656132..29676626)	1.495936524	2.258341364	4.784411118	0.006374694	0.017898344	ENSG00000230523	ENSG00000230523	lincRNA
LGR6	1	202163029..202288909	0.701128443	2.258341364	4.784411118	0.006374694	0.017898344	ENSG00000133067	ENSG00000133067	protein coding
MZB1	5	complement(138723169..138725770)	1.413669887	2.258341364	4.784411118	0.006374694	0.017898344	ENSG00000170476	ENSG00000170476	protein coding
RP11-44N21.1	14	105559946..105565341	9.327678969	2.256482264	4.778249755	8.80907E-07	6.07522E-06	ENSG00000257556	ENSG00000257556	lincRNA
PRDM1	6	106534195..106557814	6.474640636	2.254978307	4.773271197	1.37267E-18	4.17866E-17	ENSG00000057657	ENSG00000057657	protein coding
CPA4	7	129932974..129964020	131.3831386	2.254684724	4.772299953	2.7115E-66	8.00538E-64	ENSG00000128510	ENSG00000128510	protein coding
SLC26A1	4	complement(972861..987228)	42.47686147	2.253849484	4.769537857	2.96677E-46	4.11805E-44	ENSG00000145217	ENSG00000145217	protein coding
LINC01021	5	27472399..27496508	16.13944253	2.247768166	4.749475387	5.7216E-19	1.80376E-17	ENSG00000250337	ENSG00000250337	lincRNA
FAM167B	1	32712834..32714457	2.574736901	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000183615	ENSG00000183615	protein coding
RP11-305E17.6	1	complement(100729565..100731676)	5.697290164	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000224616	ENSG00000224616	antisense
RPRM	2	complement(154333852..154335322)	1.638309816	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000177519	ENSG00000177519	protein coding
RP11-536I6.1	3	complement(14389951..14394068)	1.055146121	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000251576	ENSG00000251576	lincRNA
KIF4B	5	154393260..154397685	0.544499263	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000226650	ENSG00000226650	protein coding
ADTRP	6	complement(11712287..11807279)	0.580711744	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000111863	ENSG00000111863	protein coding
CTD-2530N21.4	8	complement(22112089..22132675)	4.679521824	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000254064	ENSG00000254064	antisense
IGKV1OR-2	9	complement(69777099..69777953)	6.085741766	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000156755	ENSG00000156755	IG_V_pseudogene
CNNM1	10	101088856..101154087	0.375791944	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000119946	ENSG00000119946	protein coding
RP13-631K18.3	11	12088476..12094561	2.680704938	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000254991	ENSG00000254991	lincRNA
RP11-881M11.4	11	complement(60685941..60692869)	2.78929831	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000256196	ENSG00000256196	antisense
C11orf71	11	complement(114262165..114271139)	3.696248067	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000180425	ENSG00000180425	protein coding
RP11-166B2.5	16	12002065..12002773	6.275921197	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000261216	ENSG00000261216	antisense
RP11-61A14.4	16	66785655..66788643	0.832741444	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000246777	ENSG00000246777	lincRNA
RP11-173A16.1	18	complement(59967269..59968231)	3.783286875	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000267560	ENSG00000267560	antisense
CPAMD8	19	complement(17003758..17137625)	0.23629314	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000160111	ENSG00000160111	protein coding
IGSF23	19	45116940..45140081	1.789126755	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000216588	ENSG00000216588	protein coding
CTA-963H5.5	22	complement(31049864..31050801)	3.937832908	2.243387126	4.735074506	0.018072129	0.043802659	ENSG00000250318	ENSG00000250318	pseudogene
FGF1	5	complement(141971743..142077617)	1.696441181	2.243265213	4.734674392	1.28289E-05	7.04511E-05	ENSG00000113578	ENSG00000113578	protein coding

HHAT	1	210501596..210849638	16.64229383	2.239177324	4.721277639	4.26197E-27	2.29112E-25	ENSG00000054392	ENSG00000054392	protein coding
LTBP2	14	complement(74964873..75079306)	20.62223214	2.238950272	4.720534658	6.59259E-47	9.36047E-45	ENSG00000119681	ENSG00000119681	protein coding
KIAA1549L	11	33563618..33695648	0.630411308	2.237083746	4.71443129	3.20385E-05	0.000161758	ENSG00000110427	ENSG00000110427	protein coding
TSSC2	11	3402191..3430208	1.899096721	2.229516797	4.689768785	8.1025E-05	0.000372575	ENSG00000223756	ENSG00000223756	pseudogene
AADAC	3	151531825..151546276	21.99331617	2.228830085	4.687537024	7.38417E-17	1.89181E-15	ENSG00000114771	ENSG00000114771	protein coding
ARHGAP30	1	complement(161016736..161039760)	7.984531654	2.226613058	4.680339094	4.27397E-18	1.2249E-16	ENSG00000186517	ENSG00000186517	protein coding
ARAP1-AS2	11	72411519..72416652	14.97412777	2.216975283	4.649176777	1.96684E-13	3.5278E-12	ENSG00000245148	ENSG00000245148	antisense
ZDHHC11B	5	complement(710475..767067)	7.77381635	2.210835206	4.629432035	3.44869E-14	6.76642E-13	ENSG00000206077	ENSG00000206077	protein coding
C17orf107	17	4802713..4806227	10.84290611	2.209666767	4.625684175	8.30076E-17	2.11499E-15	ENSG00000205710	ENSG00000205710	protein coding
GJB4	1	35225342..35229325	29.41727569	2.208961631	4.623423862	1.79765E-29	1.08913E-27	ENSG00000189433	ENSG00000189433	protein coding
CTB-47B11.3	5	complement(156802749..156811958)	2.577214993	2.207824088	4.6197798	0.000541011	0.002029109	ENSG00000248544	ENSG00000248544	antisense
RP11-508N12.4	9	109685630..109686455	18.03182746	2.207824088	4.6197798	0.000541011	0.002029109	ENSG00000242631	ENSG00000242631	protein coding
ZNF423	16	complement(49521435..49891830)	1.428120735	2.206226811	4.61466785	1.64526E-07	1.29559E-06	ENSG00000102935	ENSG00000102935	protein coding
ECM1	1	150480538..150486265	10.04147391	2.200947568	4.597812289	1.19868E-15	2.73229E-14	ENSG00000143369	ENSG00000143369	protein coding
S1PR4	19	3172344..3180329	2.688797898	2.19148222	4.56774534	0.001434155	0.004829855	ENSG00000125910	ENSG00000125910	protein coding
PEAR1	1	156863490..156886226	54.42612022	2.184739998	4.546448461	6.53617E-54	1.14691E-51	ENSG00000187800	ENSG00000187800	protein coding
LAMA1	18	complement(6941743..7117813)	0.65795948	2.184492697	4.545669192	2.23787E-06	1.42794E-05	ENSG00000101680	ENSG00000101680	protein coding
LRP1	12	57522276..57607134	31.75134065	2.182972177	4.540880836	4.84183E-66	1.40716E-63	ENSG00000123384	ENSG00000123384	protein coding
SUGCT	7	40174575..40900362	9.248971331	2.177880377	4.524882648	2.64102E-15	5.83408E-14	ENSG00000175600	ENSG00000175600	protein coding
NNAT	20	36149617..36152092	16.55472258	2.177218064	4.52280584	5.62066E-11	7.57567E-10	ENSG00000053438	ENSG00000053438	protein coding
P2RY2	11	72929343..72947397	34.4426182	2.17574417	4.518187587	5.63709E-32	3.88333E-30	ENSG00000175591	ENSG00000175591	protein coding
ANKRD24	19	4183351..4224811	18.0749523	2.175014928	4.515904346	2.36847E-28	1.36388E-26	ENSG00000089847	ENSG00000089847	protein coding
KCP	7	complement(128502505..128550773)	5.917627353	2.174362485	4.513862539	2.33355E-20	8.34691E-19	ENSG00000135253	ENSG00000135253	processed_transcript
SLC52A1	17	complement(4935895..4955304)	1.701656315	2.173130089	4.510008301	0.000131988	0.000578865	ENSG00000132517	ENSG00000132517	protein coding
ANKDD1B	5	74907284..74967671	1.140498001	2.16849649	4.495546445	0.003884207	0.011630112	ENSG00000189045	ENSG00000189045	protein coding
SYNPO2L	10	complement(75404639..75423561)	0.728349899	2.16849649	4.495546445	0.003884207	0.011630112	ENSG00000166317	ENSG00000166317	protein coding
CTD-2377D24.6	17	46782360..46784708	12.20847892	2.16151771	4.473852554	6.24237E-12	9.46276E-11	ENSG00000244649	ENSG00000244649	lincRNA
ATP6V1G2	6	complement(31512239..31516204)	2.74382768	2.156162	4.457275082	0.000340568	0.001351805	ENSG00000213760	ENSG00000213760	protein coding

DGKA	12	56321103..56347811	68.60117405	2.154299158	4.451523456	3.15751E-65	8.76563E-63	ENSG00000065357	ENSG00000065357	protein coding
FGF18	5	170846660..170884627	6.606676359	2.154209714	4.451247481	1.74629E-07	1.3682E-06	ENSG00000156427	ENSG00000156427	protein coding
C11orf86	11	66742748..66744475	11.05379886	2.154209714	4.451247481	1.74629E-07	1.3682E-06	ENSG00000173237	ENSG00000173237	protein coding
SERPINB5	18	61143994..61172318	333.5771346	2.152042549	4.444565995	4.58739E-71	1.67305E-68	ENSG00000206075	ENSG00000206075	protein coding
CYP4F2	19	complement(15988833..16008930)	3.394049444	2.147104418	4.429378911	3.5775E-06	2.19392E-05	ENSG00000186115	ENSG00000186115	protein coding
AHNAK2	14	complement(105403581..105444694)	136.3185406	2.146972305	4.428973315	1.48242E-74	5.74438E-72	ENSG00000185567	ENSG00000185567	protein coding
WNT7A	3	complement(13857755..13921618)	15.26286492	2.145747235	4.425214032	2.00133E-25	9.796E-24	ENSG00000154764	ENSG00000154764	protein coding
SLC44A5	1	complement(75667816..76076801)	15.39459415	2.145299175	4.423839901	3.63984E-31	2.40074E-29	ENSG00000137968	ENSG00000137968	protein coding
ALOX5	10	45869661..45941561	8.574537653	2.138684301	4.403602664	1.72988E-14	3.48978E-13	ENSG00000012779	ENSG00000012779	protein coding
RP11-85B7.2	17	complement(9074385..9082435)	1.274658184	2.134317131	4.390292713	8.43411E-05	0.00038639	ENSG00000262966	ENSG00000262966	antisense
C1orf147	1	complement(206664449..206671061)	2.4273283	2.134159813	4.389813999	0.000893455	0.003167192	ENSG00000162888	ENSG00000162888	protein coding
KRT8P12	3	160283235..160287036	5.097875868	2.134159813	4.389813999	0.000893455	0.003167192	ENSG00000229320	ENSG00000229320	pseudogene
C1orf101	1	244617679..244804479	0.680568164	2.133775575	4.388645001	0.01081288	0.028243164	ENSG00000179397	ENSG00000179397	protein coding
F2RL2	5	complement(75911307..75919259)	0.858996505	2.133775575	4.388645001	0.01081288	0.028243164	ENSG00000164220	ENSG00000164220	protein coding
SHANK2-AS1	11	70477199..70481595	1.307948053	2.133775575	4.388645001	0.01081288	0.028243164	ENSG00000226627	ENSG00000226627	antisense
CTD-2521M24.9	19	17516503..17529713	1.166534263	2.133775575	4.388645001	0.01081288	0.028243164	ENSG00000269640	ENSG00000269640	lincRNA
ASPDH	19	complement(51014857..51017947)	1.78191108	2.133775575	4.388645001	0.01081288	0.028243164	ENSG00000204653	ENSG00000204653	protein coding
STAG3	7	99775186..99819111	7.393931625	2.130598802	4.378991964	1.13531E-23	4.96867E-22	ENSG00000066923	ENSG00000066923	protein coding
RP11-1094H24.4	17	complement(48127713..48133103)	5.919963566	2.125963842	4.36494611	3.44203E-08	3.05156E-07	ENSG00000246640	ENSG00000246640	lincRNA
PHLDA3	1	complement(201434620..201438365)	251.1440757	2.123611387	4.357834438	1.17989E-59	2.64408E-57	ENSG00000174307	ENSG00000174307	protein coding
RP11-67L3.5	1	55352548..55353674	14.9021294	2.119469789	4.345342181	2.16405E-05	0.000113129	ENSG00000242396	ENSG00000242396	antisense
SDCBP2	20	complement(1290619..1309883)	10.74234652	2.117101582	4.338215083	6.63786E-11	8.86318E-10	ENSG00000125775	ENSG00000125775	protein coding
ZBBX	3	complement(166958075..167099134)	1.617961557	2.114449592	4.330247817	0.00021574	0.00089751	ENSG00000169064	ENSG00000169064	protein coding
C7orf61	7	complement(100054238..100061894)	5.395922171	2.114449592	4.330247817	0.00021574	0.00089751	ENSG00000185955	ENSG00000185955	protein coding
CPLX2	5	175223313..175311023	4.865850157	2.112434427	4.324203523	2.75077E-15	6.06213E-14	ENSG00000145920	ENSG00000145920	protein coding
CYP1A1	15	complement(75011883..75017951)	43.96616235	2.11016116	4.317395206	1.32214E-38	1.30116E-36	ENSG00000140465	ENSG00000140465	protein coding
BNIPL	1	151009046..151020076	3.425860165	2.108721362	4.31308863	5.7294E-06	3.38307E-05	ENSG00000163141	ENSG00000163141	protein coding
FAM27E4	9	44997777..44999352	3.058074378	2.10448883	4.300453571	0.002390058	0.007593965	ENSG00000204805	ENSG00000204805	pseudogene

SEMA3B	3	50304990..50314977	85.71324592	2.104016534	4.299045961	2.56868E-58	5.30861E-56	ENSG00000012171	ENSG00000012171	processed_transcript
RASEF	9	complement(85594500..85678092)	1.167905925	2.10166002	4.292029582	5.41772E-05	0.000259582	ENSG00000165105	ENSG00000165105	protein coding
MPRIP-AS1	17	complement(16979352..16981066)	7.339703681	2.10166002	4.292029582	5.41772E-05	0.000259582	ENSG00000225442	ENSG00000225442	antisense
AC012360.6	2	105979495..105995296	9.647615158	2.099245813	4.284853302	5.37639E-12	8.2441E-11	ENSG00000238273	ENSG00000238273	antisense
RP11-586D19.1	4	6202460..6240044	7.674677092	2.095609833	4.274067916	6.87138E-10	7.91869E-09	ENSG00000249896	ENSG00000249896	lincRNA
ALS2CL	3	complement(46710487..46735194)	74.32708526	2.093394688	4.267510455	1.37531E-61	3.41078E-59	ENSG00000178038	ENSG00000178038	protein coding
GLUD1P3	10	75490320..75497069	5.470063611	2.089324537	4.255487864	0.000560472	0.002092488	ENSG00000250959	ENSG00000250959	pseudogene
CTC-523E23.11	19	complement(35340182..35351480)	6.678414955	2.089324537	4.255487864	0.000560472	0.002092488	ENSG00000271109	ENSG00000271109	lincRNA
MGAT3	22	39853349..39888199	1.030460948	2.089324537	4.255487864	0.000560472	0.002092488	ENSG00000128268	ENSG00000128268	protein coding
TRPM6	9	complement(77337411..77503010)	4.180793848	2.088952207	4.254389751	1.86152E-16	4.59207E-15	ENSG00000119121	ENSG00000119121	protein coding
EPS8L2	11	694438..727727	535.4512046	2.080591729	4.229806685	6.93516E-71	2.48065E-68	ENSG00000177106	ENSG00000177106	protein coding
RP3-337H4.8	6	complement(43555967..43559099)	24.34296707	2.077029155	4.219374536	1.72134E-11	2.49547E-10	ENSG00000203362	ENSG00000203362	antisense
RASGRP4	19	complement(38899695..38916945)	2.157211998	2.07379515	4.209926803	3.49694E-05	0.000174847	ENSG00000171777	ENSG00000171777	protein coding
NTF4	19	complement(49559050..49568333)	13.00246835	2.071002454	4.201785322	2.57404E-15	5.69289E-14	ENSG00000225950	ENSG00000225950	protein coding
AP006621.9	11	complement(708564..727047)	53.85652676	2.06448373	4.182842657	5.28404E-13	9.05836E-12	ENSG00000269915	ENSG00000269915	antisense
TAPSAR1	6	32811863..32814272	1.784235925	2.062282045	4.176464122	0.006549566	0.018321841	ENSG00000204261	ENSG00000204261	lincRNA
CCL26	7	complement(75398851..75419214)	4.930657635	2.062282045	4.176464122	0.006549566	0.018321841	ENSG00000006606	ENSG00000006606	protein coding
GRTP1-AS1	13	114005988..114016183	2.957556746	2.062282045	4.176464122	0.006549566	0.018321841	ENSG00000225083	ENSG00000225083	antisense
LRRC37A11P	17	37183530..37209458	0.61655053	2.062282045	4.176464122	0.006549566	0.018321841	ENSG00000214553	ENSG00000214553	pseudogene
SCARF1	17	complement(1537152..1549041)	4.807699164	2.060925501	4.172538905	2.61673E-11	3.71253E-10	ENSG00000074660	ENSG00000074660	protein coding
MSH4	1	76262567..76378923	10.82240912	2.060121445	4.170214075	3.79114E-15	8.24739E-14	ENSG00000057468	ENSG00000057468	protein coding
RINL	19	complement(39358470..39368919)	107.8732101	2.059739442	4.169110012	3.985E-55	7.4121E-53	ENSG00000187994	ENSG00000187994	protein coding
LACC1	13	44453420..44468068	19.00891472	2.05362919	4.151489903	1.59603E-27	8.78286E-26	ENSG00000179630	ENSG00000179630	protein coding
CYP21A2	6	32006042..32009447	2.117143578	2.053280742	4.150487333	0.000353732	0.001398089	ENSG00000231852	ENSG00000231852	protein coding
FDXR	17	complement(72858619..72869156)	305.8664389	2.05150865	4.145392334	7.55505E-64	2.06653E-61	ENSG00000161513	ENSG00000161513	protein coding
MIR155HG	21	26934221..26947480	5.522810653	2.049735547	4.140300689	2.2674E-05	0.0001181	ENSG00000234883	ENSG00000234883	lincRNA
PRKG2	4	complement(82009837..82136218)	4.140446011	2.04622133	4.130227729	3.92403E-08	3.45092E-07	ENSG00000138669	ENSG00000138669	protein coding
ATG9B	7	complement(150709297..150721586)	6.39744122	2.043341351	4.121990988	1.05801E-16	2.68472E-15	ENSG00000181652	ENSG00000181652	protein coding
MDM2	12	69201956..69239214	881.3751234	2.037226181	4.104556031	6.46385E-70	2.22644E-67	ENSG00000135679	ENSG00000135679	protein coding

PLK3	1	45265897..45271662	235.5998977	2.036026155	4.1011433	1.4584E-60	3.4337E-58	ENSG00000173846	ENSG00000173846	protein coding
RP3-388N13.3	8	complement(94846682..94858971)	20.28580589	2.030343313	4.085020486	3.9685E-06	2.41102E-05	ENSG00000254057	ENSG00000254057	lincRNA
CYP4F3	19	15751707..15773635	19.0260783	2.029442177	4.082469696	2.67473E-30	1.71551E-28	ENSG00000186529	ENSG00000186529	protein coding
C9orf169	9	140119087..140120763	212.6490492	2.027210332	4.076159011	1.5577E-46	2.19494E-44	ENSG00000197191	ENSG00000197191	protein coding
RP11-463D19.2	8	complement(74600926..74791089)	10.35203496	2.026627076	4.074511426	5.66132E-05	0.000269295	ENSG00000258677	ENSG00000258677	protein coding
CTD-2313N18.5	11	complement(71505409..71529284)	2.185899083	2.026627076	4.074511426	5.66132E-05	0.000269295	ENSG00000248671	ENSG00000248671	processed_transcript
CELF6_1	15	complement(72559087..72612287)	2.135915749	2.026627076	4.074511426	5.66132E-05	0.000269295	ENSG00000273025	ENSG00000273025	protein coding
SH2D2A	1	complement(156776035..156786654)	15.56321859	2.023783819	4.066489303	5.53209E-16	1.31246E-14	ENSG00000027869	ENSG00000027869	protein coding
AC019294.1	15	76030311..76031568	5.321395821	2.023664905	4.066154136	0.00022449	0.000928926	ENSG00000256530	ENSG00000256530	protein coding
RP11-96D1.6	16	complement(68270748..68271570)	12.5596922	2.023664905	4.066154136	0.00022449	0.000928926	ENSG00000261469	ENSG00000261469	sense_intronic
NADSYN1	11	71164155..71235153	47.52651292	2.02360768	4.065992855	1.40611E-58	2.97199E-56	ENSG00000172890	ENSG00000172890	protein coding
TMEM178A	2	39892122..39945103	2.168199496	2.019239554	4.053700645	0.000925607	0.003265608	ENSG00000152154	ENSG00000152154	protein coding
CTB-39G8.3	17	43474298..43474843	11.718715	2.019239554	4.053700645	0.000925607	0.003265608	ENSG00000267344	ENSG00000267344	antisense
ROCK1P1	18	109065..122219	2.024745843	2.019239554	4.053700645	0.000925607	0.003265608	ENSG00000263006	ENSG00000263006	pseudogene
TCEB3C	18	complement(44554573..44556449)	7.41831495	2.019224694	4.053658893	2.09463E-07	1.62064E-06	ENSG00000183791	ENSG00000183791	protein coding
LINC00086	X	134555868..134561999	13.61902899	2.0183833	4.051295449	6.59511E-24	2.92766E-22	ENSG00000178947	ENSG00000178947	lincRNA
ARL14	3	160394948..160396233	3.123320036	2.011911285	4.033161803	0.004005197	0.0119426	ENSG00000179674	ENSG00000179674	protein coding
RP11-503N18.1	4	2420701..2452087	1.048170555	2.011911285	4.033161803	0.004005197	0.0119426	ENSG00000206113	ENSG00000206113	lincRNA
RP11-16E12.2	15	complement(31514202..31523041)	2.569794988	2.011911285	4.033161803	0.004005197	0.0119426	ENSG00000259772	ENSG00000259772	lincRNA
TNNT2	1	complement(201328136..201346890)	1.176860927	2.005462668	4.015174441	3.6589E-05	0.000182162	ENSG00000118194	ENSG00000118194	protein coding
ATF3	1	212738676..212794119	54.45089361	2.004298159	4.011934796	5.50327E-42	6.31856E-40	ENSG00000162772	ENSG00000162772	protein coding
GPR35	2	241544848..241570676	4.173301288	2.003486268	4.009677675	4.90358E-07	3.54476E-06	ENSG00000178623	ENSG00000178623	protein coding

HT29: Downregulated Genes

Name	Chro-mosome	Region	Max group mean	Log_2 fold change	Fold change	P-value	FDR p-value	Gene ID	ENSEMBL	Biotype
SPECC1L-ADORA2A	22	24666866..24838324	12.36676444	-5.942473523	-61.49825301	3.39457E-09	1.99566E-07	ENSG00000258555	ENSG00000258555	protein coding
ARPC4-TTLL3	3	9834766..9877085	6.528957053	-3.30179895	-9.861444247	0.00013075	0.001930714	ENSG00000250151	ENSG00000250151	protein coding
KCNAB2	1	6051526..6161253	1.768090151	-3.160388716	-8.940705743	0.000267453	0.003409139	ENSG00000069424	ENSG00000069424	protein coding
SNX15	11	64794880..64808044	9.411943238	-3.107937651	-8.621492559	1.75207E-09	1.13623E-07	ENSG00000110025	ENSG00000110025	protein coding
RPL36A-HNRNPH2	X	100645999..100667285	32.46864434	-2.650316359	-6.278049302	3.12125E-05	0.000594077	ENSG00000257529	ENSG00000257529	protein coding
PLK1	16	23688977..23701688	154.6651717	-2.620740576	-6.15065722	4.60538E-62	1.1588E-58	ENSG00000166851	ENSG00000166851	protein coding
CDC20	1	43824626..43828874	372.312034	-2.568131807	-5.930409826	2.29427E-61	4.8107E-58	ENSG00000117399	ENSG00000117399	protein coding
ARHGDIB	12	complement(15094951..15114662)	4.830907952	-2.476294724	-5.56466456	0.005485903	0.036097354	ENSG00000111348	ENSG00000111348	protein coding
SREBF1	17	complement(17713713..17740325)	1.263163144	-2.476294724	-5.56466456	0.005485903	0.036097354	ENSG00000072310	ENSG00000072310	protein coding
DEPDC1B	5	complement(59892739..59996017)	8.004126523	-2.22038455	-4.66017635	5.49005E-06	0.000137288	ENSG00000035499	ENSG00000035499	protein coding
TUBB8P9	1	227693883..227695993	21.22166879	-2.186857698	-4.55312699	1.92997E-05	0.000396101	ENSG00000235827	ENSG00000235827	pseudogene
RP11-295P9.3	10	13652047..13710299	2.853756978	-2.168552356	-4.495720531	0.00013895	0.002030349	ENSG00000239665	ENSG00000239665	protein coding
FAXDC2	5	complement(154198051..154238812)	2.187205133	-2.137761487	-4.40078682	0.001072013	0.010358674	ENSG00000170271	ENSG00000170271	protein coding
SYS1-DBNDD2	20	43991840..44039250	25.35020671	-2.097664389	-4.280158994	1.84273E-06	5.4421E-05	ENSG00000254806	ENSG00000254806	protein coding
OIP5	15	complement(41601466..41624819)	32.40625515	-2.07866851	-4.224171796	5.14177E-07	1.77716E-05	ENSG00000104147	ENSG00000104147	protein coding
PIF1	15	complement(65107831..65117867)	9.814338127	-2.022197005	-4.062019049	1.40293E-07	5.67533E-06	ENSG00000140451	ENSG00000140451	protein coding
CBS	21	complement(44473301..44497053)	3.880390265	-2.020606163	-4.057542378	4.35916E-05	0.000783466	ENSG00000160200	ENSG00000160200	protein coding

HT29: Upregulated Genes

Name	Chro-mosome	Region	Max group mean	Log_2 fold change	Fold change	P-value	FDR p-value	Gene ID	ENSEMBL	Biotype
IL1R1	2	102681004..102796334	2.070602694	4.47743533	22.27626307	0.001304131	0.012136324	ENSG00000115594	ENSG00000115594	protein coding
CST6	11	65779312..65780976	17.71265566	4.352550908	20.42905985	0.001813882	0.015555859	ENSG00000175315	ENSG00000175315	protein coding
KRT5	12	complement(52908359..52914471)	2.27804891	3.896024777	14.8874502	0.005654119	0.036933788	ENSG00000186081	ENSG00000186081	protein coding
PKP3	11	392614..404908	9.359129646	3.877470538	14.69721134	1.83001E-07	7.12799E-06	ENSG00000184363	ENSG00000184363	protein coding
ANGPTL4	19	8428173..8439257	27.32901484	3.51830057	11.45813686	5.0399E-13	5.76427E-11	ENSG00000167772	ENSG00000167772	protein coding
EVPL	17	complement(74000583..74023533)	1.87150363	3.502466848	11.33307023	0.000749748	0.007917384	ENSG00000167880	ENSG00000167880	protein coding
DDIT4	10	74033678..74035794	557.9357431	3.150140265	8.877418837	1.0106E-93	6.35716E-90	ENSG00000168209	ENSG00000168209	protein coding
MTRNR2L1	17	22022437..22023991	6.680689738	3.068984289	8.391823235	0.003599291	0.026553493	ENSG00000256618	ENSG00000256618	protein coding
TXNIP	1	145438469..145442635	288.0162807	2.98747325	7.930837645	1.09881E-84	4.60805E-81	ENSG00000117289	ENSG00000117289	protein coding
P2RY6	11	72975550..73009662	2.459101087	2.982147627	7.901615403	0.004811772	0.03283796	ENSG00000171631	ENSG00000171631	protein coding
CACNA1S	1	complement(201008642..201081694)	4.55886872	2.974200332	7.858207876	2.39706E-06	6.73156E-05	ENSG00000081248	ENSG00000081248	protein coding
HTATIP2	11	20385231..20405329	5.025024049	2.947393625	7.713542737	0.000768996	0.008082489	ENSG00000109854	ENSG00000109854	protein coding
CXCL2	4	complement(74962752..74965010)	30.14693993	2.93410978	7.642845043	3.43504E-09	2.00075E-07	ENSG00000081041	ENSG00000081041	protein coding
DNASE1L3	3	complement(58177984..58200424)	2.911785039	2.889747564	7.411407571	0.00649575	0.040850789	ENSG00000163687	ENSG00000163687	protein coding
P2RX6	22	21364097..21383119	7.234852163	2.850023792	7.210122602	2.58382E-07	9.67472E-06	ENSG00000099957	ENSG00000099957	protein coding
ATG9B	7	complement(150709297..150721586)	12.30952124	2.817766923	7.050702085	3.26695E-14	4.37249E-12	ENSG00000181652	ENSG00000181652	protein coding
BTG2	1	203274619..203278730	205.9120313	2.792143852	6.926583143	2.84784E-58	5.11839E-55	ENSG00000159388	ENSG00000159388	protein coding
MTRNR2L12	3	complement(96335981..96337000)	426.5624251	2.755954039	6.754991897	2.39031E-49	3.00725E-46	ENSG00000269028	ENSG00000269028	protein coding
RGPD6	2	complement(111271389..111334762)	0.918305838	2.74687238	6.712603278	0.001884714	0.016043024	ENSG00000183054	ENSG00000183054	protein coding
PLK2	5	complement(57749809..57756087)	667.2225136	2.734626503	6.655866529	6.1795E-104	7.7745E-100	ENSG00000145632	ENSG00000145632	protein coding
CXCL1	4	74735110..74736959	24.04739015	2.715393875	6.567725704	1.0644E-06	3.41614E-05	ENSG00000163739	ENSG00000163739	protein coding
TINAGL1	1	32042116..32053288	1.959602664	2.673320506	6.378956791	0.002576712	0.02045275	ENSG00000142910	ENSG00000142910	protein coding
RP11-793H13.3	12	53907768..53911392	6.650920986	2.667236719	6.352113624	0.000572645	0.006398268	ENSG00000257550	ENSG00000257550	antisense
ATF3	1	212738676..212794119	6.564257974	2.659183629	6.31675505	7.65043E-06	0.000183333	ENSG00000162772	ENSG00000162772	protein coding
DDIT3	12	complement(57910371..57914300)	458.0555905	2.60986491	6.104465203	8.98474E-53	1.25597E-49	ENSG00000175197	ENSG00000175197	protein coding
PDK4	7	complement(95212811..95225803)	22.98843227	2.608969556	6.100677874	4.85151E-17	9.39029E-15	ENSG00000004799	ENSG00000004799	protein coding
FBLN2	3	13573824..13679922	12.23151762	2.528234515	5.768653124	5.42774E-11	4.61395E-09	ENSG00000163520	ENSG00000163520	protein coding
CCDC137	17	79633394..79640934	6.194940393	2.517260768	5.724940774	0.000335354	0.00412423	ENSG00000185298	ENSG00000185298	protein coding

DPH7	9	complement(140449356..140473387)	3.004224725	2.483743141	5.593468376	0.001484661	0.013322771	ENSG00000148399	ENSG00000148399	protein coding
NOD2	16	50727514..50766988	2.339291046	2.483743141	5.593468376	0.001484661	0.013322771	ENSG00000167207	ENSG00000167207	protein coding
ARRDC3	5	complement(90664541..90679176)	229.498076	2.394721644	5.258756308	5.38363E-65	1.69329E-61	ENSG00000113369	ENSG00000113369	protein coding
TG	8	133879203..134147147	1.09789188	2.347014987	5.087704878	0.002882392	0.022329666	ENSG00000042832	ENSG00000042832	protein coding
RP11-97O12.7	15	complement(89002948..89055760)	10.36618524	2.347014987	5.087704878	0.002882392	0.022329666	ENSG00000173867	ENSG00000173867	processed_transcript
BBC3	19	complement(47724081..47736023)	139.7183807	2.341873971	5.069607206	7.10041E-37	4.9628E-34	ENSG00000105327	ENSG00000105327	protein coding
CXCL10	4	complement(76942273..76944650)	25.52706257	2.340546651	5.064945168	4.58544E-06	0.000116544	ENSG00000169245	ENSG00000169245	protein coding
GADD45B	19	2476120..2478257	85.94748526	2.335204615	5.046225282	5.45034E-24	2.0779E-21	ENSG00000099860	ENSG00000099860	protein coding
TP53INP1	8	complement(95938200..95961639)	106.8461039	2.318983623	4.989805645	1.64165E-48	1.58874E-45	ENSG00000164938	ENSG00000164938	protein coding
ZC3H8	2	complement(112969102..113012713)	3.981321919	2.3025192	4.933184347	1.85707E-05	0.000385618	ENSG00000144161	ENSG00000144161	protein coding
ARRDC4	15	98462784..98517068	12.01991652	2.224630194	4.673910777	1.3564E-08	6.77177E-07	ENSG00000140450	ENSG00000140450	protein coding
ZFP36	19	39897453..39900052	25.8419715	2.216618194	4.648026177	6.78858E-09	3.58853E-07	ENSG00000128016	ENSG00000128016	protein coding
FBXO47	17	complement(37092685..37123655)	4.778262017	2.195959001	4.58194138	0.005729074	0.037230103	ENSG00000204952	ENSG00000204952	protein coding
ZNF160	19	complement(53569859..53606689)	1.292393275	2.195959001	4.58194138	0.005729074	0.037230103	ENSG00000170949	ENSG00000170949	protein coding
LIN37	19	36239262..36245420	22.75322522	2.186114844	4.550783158	2.36421E-10	1.79181E-08	ENSG00000267796	ENSG00000267796	protein coding
PLCD4	2	219472488..219501907	4.999515556	2.175066608	4.516066117	1.03335E-05	0.000234245	ENSG00000115556	ENSG00000115556	protein coding
INPP5D	2	233924677..234116549	4.89009013	2.158557855	4.464683339	2.2888E-06	6.47087E-05	ENSG00000168918	ENSG00000168918	protein coding
SLC16A6	17	complement(66263167..66287408)	7.08113194	2.14476881	4.422213903	1.42184E-05	0.000307885	ENSG00000108932	ENSG00000108932	protein coding
SPTBN5	15	complement(42140345..42186275)	1.684389549	2.132108343	4.383576251	0.000205962	0.002768391	ENSG00000137877	ENSG00000137877	protein coding
AVIL	12	complement(58191159..58212487)	25.73433211	2.132100574	4.383552644	3.18341E-19	7.85302E-17	ENSG00000135407	ENSG00000135407	protein coding
CTC-429P9.4	19	complement(16688453..16770926)	8.774047756	2.114053673	4.329059631	0.00814905	0.048675106	ENSG00000268790	ENSG00000268790	protein coding
ATP2A3	17	complement(3827169..3867736)	4.450091904	2.109703386	4.316025492	9.13433E-06	0.000212813	ENSG00000074370	ENSG00000074370	protein coding
RND1	12	complement(49250928..49259681)	36.81960199	2.10545579	4.3033369	2.13486E-11	1.96049E-09	ENSG00000172602	ENSG00000172602	protein coding
HMGCS2	1	complement(120290619..120311528)	5.94211027	2.09761575	4.280014695	0.001477182	0.01328408	ENSG00000134240	ENSG00000134240	protein coding
GADD45G	9	92219928..92221470	157.6252175	2.065574394	4.186006042	4.29181E-23	1.45933E-20	ENSG00000130222	ENSG00000130222	protein coding
HAPLN3	15	complement(89420519..89438857)	15.95345319	2.056721696	4.160398425	6.4853E-09	3.47145E-07	ENSG00000140511	ENSG00000140511	protein coding
EGF	4	110834040..110933422	2.393680249	2.039006595	4.109624544	0.002082691	0.017283864	ENSG00000138798	ENSG00000138798	protein coding
RBP2	3	complement(139171726..139199589)	25.31128013	2.006446551	4.017913628	0.000250329	0.003226829	ENSG00000114113	ENSG00000114113	protein coding
MTRNR2L6	7	142374104..142375550	22.80489115	2.000317583	4.000880624	7.23003E-06	0.000174589	ENSG00000270672	ENSG00000270672	protein coding